WKE

Jan 12, 2021

PROJECT ID: **1090-05-72**

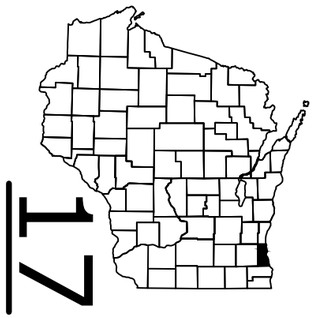
WITH: 1090-35-70, 1090-08-72

COUNTY: **MILWAUKEE**

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
~~Section No.~~	~~4~~	~~Right of Way Plat~~
~~Section No.~~	~~5~~	~~Plan and Profile~~
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
~~Section No.~~	~~9~~	~~Computer Earthwork Data~~
~~Section No.~~	~~9~~	~~Cross Sections~~

TOTAL SHEETS = 88



N

DESIGN DESIGNATION			124TH ST	116TH ST	IH 43
A.A.D.T.		=			
A.A.D.T.	2020	=	3,300	1,900	46,500
D.H.V.		=			
D.D.		=			
T.		=			
DESIGN SPEED		=	40	30	60
ESALS		=			

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

IH 43 ROCK FREEWAY

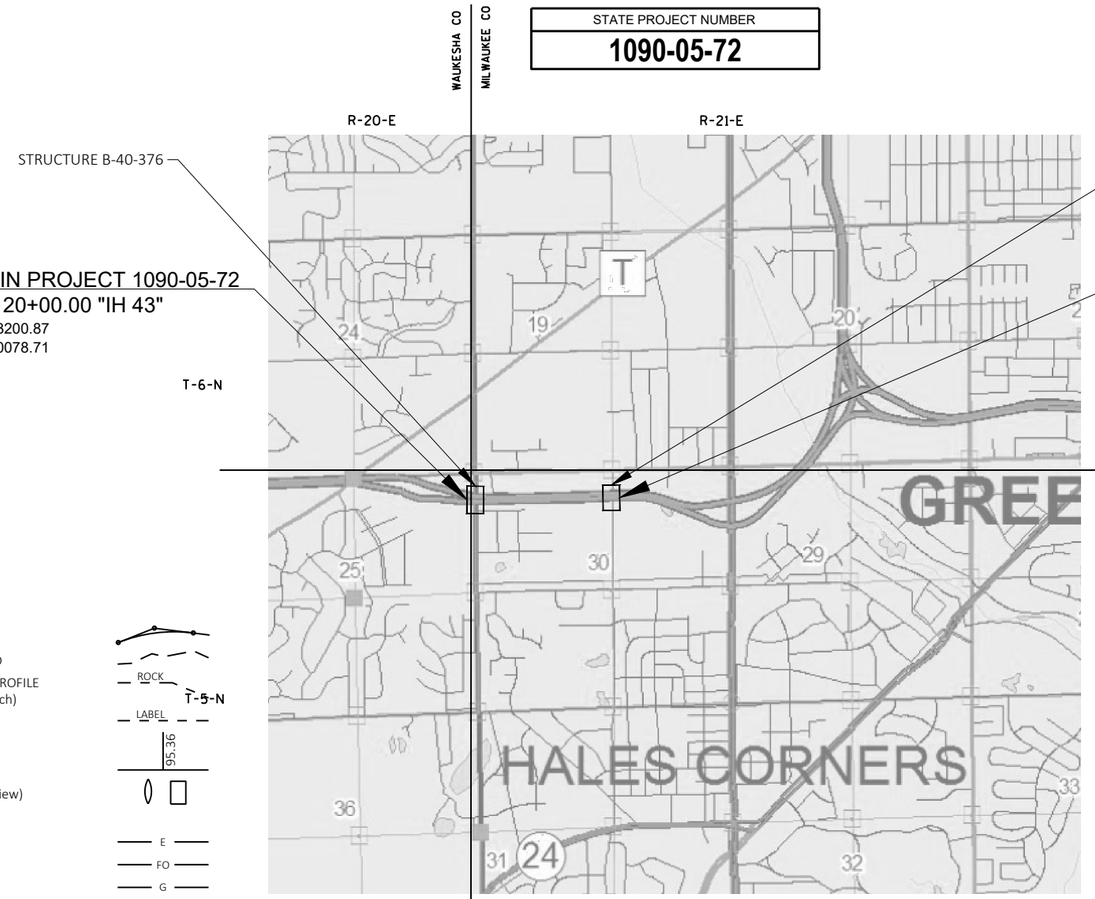
124TH ST TO 116TH ST

IH 43

MILWAUKEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1090-05-72	WISC 2020245	1

STATE PROJECT NUMBER
1090-05-72



BEGIN PROJECT 1090-05-72
STA 20+00.00 "IH 43"
X= 563200.87
Y= 270078.71

END PROJECT 1090-05-72
STA 50+59.21 "IH 43"

LAYOUT
SCALE 0 0.5 MI

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WCCS), MILWAUKEE COUNTY NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

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, T-5-N)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	WISDOT
Project Manager	AMANDA JOHANSEN
Regional Examiner	
Regional Supervisor	WAFA ELQAQ

APPROVED FOR THE DEPARTMENT

DATE: 7/29/20 Amanda Johansen (Signature)

E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\010101_TI.DWG PLOT DATE : 7/29/2020 8:42 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIFFERS HOTLINE.

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

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

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES AND UTILITY CONTACTS
PROJECT OVERVIEW
CONSTRUCTION DETAILS
PLAN DETAILS
PAVEMENT MARKING AND EROSION CONTROL
TRAFFIC CONTROL
ALIGNMENT LAYOUT

OTHER CONTACTS

WISDOT DESIGN
MS. AMANDA JOHANSEN, PROJECT MANAGER
141 NW BARSTOW ST.
WAUKESHA, WI 53187 0798
PHONE: (262) 521-4465
amanda.johansen@dot.wi.gov

WISCONSIN DNR
MS. KRISTINA BETZOLD
2300 N DR. MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 507-4946
kristina.betzold@wisconsin.gov

MILWAUKEE COUNTY TRANSIT SYSTEM
MS. MELANIE FLYNN
1942 N. 17TH ST.
MILWAUKEE, WI 53205
PHONE: (414) 343-1764
mflynn@mcts.org

WISCONSIN COACH LINES, INC.
MR. TOM DIECKELMAN
1520 ARCADIAN AVENUE
WAUKESHA, WI 53186
PHONE: (262) 542-8861 EXT. 140
tom.dieckelman@coachusa.com

UTILITY CONTACTS

AT&T WISCONSIN
MATTHEW DINNAUER
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
PHONE: (262) 896-7690
md9542@att.com

CHARTER COMMUNICATIONS
CHARLES BRASILE
1320 N DR. MARTIN LUTHER KING DR.
MILWAUKEE, WI 53212
PHONE: (414) 908-4822
charles.brasile@charter.com

CITY OF GREENFIELD ROADS/SEWER/L
JEFF KATZ
7325 W FOREST HOME AVE
GREENFIELD, WI 53220
PHONE: (414) 329-5325
jeffk@greenfieldwi.us

WE ENERGIES - ELECTRIC
DAN BANDOR
500 S 116TH ST
WEST ALLIS, WI 53214
PHONE: (414) 944-5632
daniel.bandor@we-energies.com

WE ENERGIES - GAS
SPENSER DOONER
700 S KANE ST
BURLINGTON, WI 53105
PHONE: (262) 763-1083
spenser.dooner@we-energies.com

WESTSHORE PIPELINE
ARIC AUFDERMAUER
9999 HAMILTON BLVD
FIVE TEK PARK
BREINIGSVILLE, PA 18031
PHONE: (414) 391-8102
aaufermauer@buckeye.com

WISDOT LIGHTING
ERIC PEREA
935 S 60TH ST
WEST ALLIS, WI 53214
PHONE: (414) 750-0935
eric.perea@dot.wi.gov

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

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

2

2

CITY OF NEW BERLIN

CITY OF GREENFIELD

W LAYTON AVE

IH 43

BEGIN PROJECT 1090-05-72
STA 20+00.00 "IH 43"
X= 563200.87
Y= 270078.71

END PROJECT 1090-05-72
STA 50+59.21 "IH 43"

END OF DECK
STA 25+18.25 "124TH"

END OF DECK
STA 21+79.99 "116TH"

END OF DECK
STA 23+61.75 "124TH"

END OF DECK
STA 20+13.15 "116TH"

B-40-376
124TH ST
THIN POLYMER OVERLAY AND CONCRETE SURFACE REPAIR
(SEE STRUCTURE PLANS)

B-40-377
116TH ST
THIN POLYMER OVERLAY AND CONCRETE SURFACE REPAIR
(SEE STRUCTURE PLANS)

895"IH43SB"
900"IH43SB"
895"IH43NB"
900"IH43NB"
25"124TH"
20"124TH"
15"124TH"
25"IH43"
30"IH43"
35"IH43"
40"IH43"
45"IH43"
50"IH43"
55"IH43"
30"116TH"
25"116TH"
20"116TH"
15"116TH"
10"116TH"

S 124TH ST

S 116TH ST

N

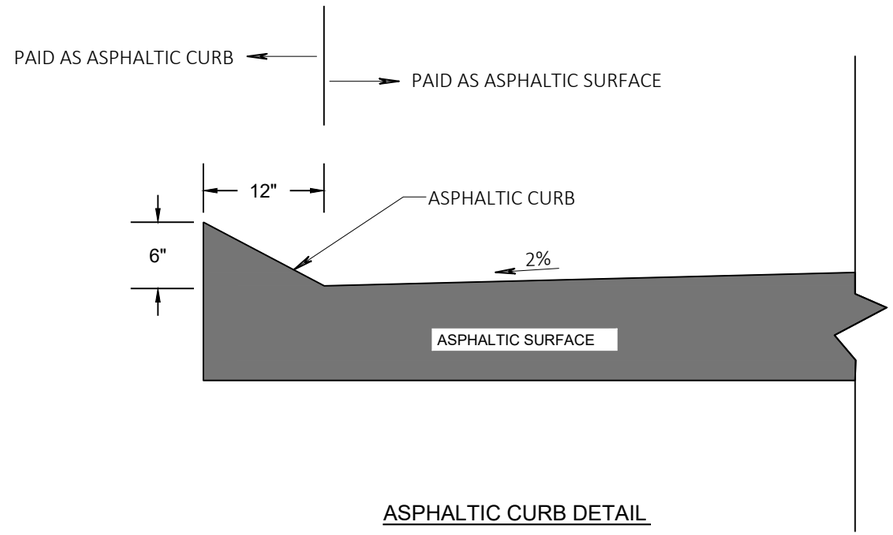
PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - PROJECT OVERVIEW

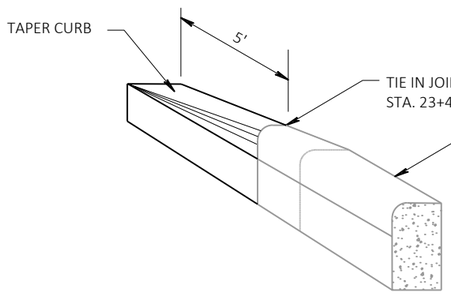
PLOT DATE : 1/23/2020 7:36 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN: 300 FT

WISDOT/CADDS SHEET 42

2



ASPHALTIC CURB DETAIL



NOTE: MATCH EXISTING ELEVATION AT TIE IN JOINT
AND TAPER DOWN TO 0' - 0".
PAID AS CONCRETE CURB PEDESTRIAN.

DETAIL OF CURB TERMINI

2

2

N

END OF DECK
STA 23+61.75 "124TH"

PLACE 5' ASPHALTIC CURB AT SW WING TIP
REFER TO CONSTRUCTION DETAIL "ASPHALTIC CURB"

EXTEND EXISTING PEDESTRIAN CURB
REFER TO CONSTRUCTION DETAIL "DETAIL OF CURB TERMINI"

STA 23+46 "124TH"
16' RT

B-40-376 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS FOR MORE INFORMATION)

PLACE 5' ASPHALTIC CURB AT NW WING TIP
REFER TO CONSTRUCTION DETAIL "ASPHALTIC CURB"

MILL & OVERLAY (ASPHALTIC SURFACE, 2-INCH)
NORTH APPROACH SLAB ONLY

22"124TH" 23"124TH" 24"124TH" 25"124TH" 26"124TH" 27"124TH"

S 124TH ST

12' 12' 12' 12' 7'-3" 26' 6'-0"

SAWCUT EXISTING ASPHALT
REPLACE WITH CONCRETE LANDING PAD
(CONCRETE SIDEWALK 5-INCH)
MATCH EXISTING GRADE

REPLACE EXISTING CURB RAMP DETECTABLE WARNING FIELD
REFER TO SDD CURB RAMPS RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

S1

C1

STA 25+43 "124TH"
19' RT

END OF DECK
STA 25+18.25 "124TH"

IH 43 NB

IH 43 SB

LEGEND

S1 REMOVE AND REPLACE 6' SIDEWALK APPROACH SLAB

C1 EXISTING CONCRETE CURB AND GUTTER 31-INCH

NOTE: REMOVE AND REPLACE CONCRETE SIDEWALK TO THE NEAREST JOINT. MATCH EXISTING GRADE.

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS - B-40-376	SHEET 5	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201

PLOT DATE : 1/23/2020 7:36 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

B-40-377 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS FOR MORE INFORMATION)

STA 20+09 "116TH"
19' LT

END OF DECK
STA 20+13.15 "116TH"

STA 22+13 "116TH"
19' LT

STA 19+90 "116TH"
18' RT

END OF DECK
STA 21+79.99 "116TH"

STA 21+91 "116TH"
18' RT

S1

C1

18"116TH"
19"116TH"
20"116TH"
21"116TH"
22"116TH"
23"116TH"
24"116TH"

S 116TH ST

18'

49"IH43"
50"IH43"
51"IH43"
52"IH43"

IH 43 NB
IH 43 SB

MH
INL
W
SIGN
RIPRAP
A/C
BASKETBALL COURT

N

LEGEND

S1 REMOVE AND REPLACE 6' SIDEWALK APPROACH SLAB

C1 EXISTING CONCRETE CURB AND GUTTER 31-INCH

NOTE: REMOVE AND REPLACE CONCRETE SIDEWALK TO THE NEAREST JOINT. MATCH EXISTING GRADE.

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS - B-40-377	SHEET 6	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021202

PLOT DATE : 1/23/2020 7:36 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

B-40-376 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS FOR MORE INFORMATION)

N

901"IH43NB"

902"IH43NB"

901"IH43SB"

902"IH43SB"

903"IH43SB"

21"IH43"

22"124TH"

23"124TH"

24"124TH"

25"124TH"

26"124TH"

27"124TH"

S 124TH ST

IH 43 NB

IH 43 SB

SLAB W

SIGN

A/C

MH

INL

W

1

2

LEGEND

- INLET PROTECTION TYPE B
- (1) MARKING LINE EPOXY 4-INCH (WHITE)
- (2) MARKING LINE EPOXY 4-INCH (DOUBLE) (YELLOW)

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	PAVEMENT MARKING & EROSION CONTROL - B-40-376	SHEET 7	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024501_pm

PLOT DATE : 1/23/2020 7:36 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

B-40-377 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS FOR MORE INFORMATION)

49"IH43"

50"IH43"

51"IH43"

52"IH43"

18"116TH"

19"116TH"

20"116TH"

21"116TH"

22"116TH"

23"116TH"

24"116TH"

S 116TH ST

IH 43 NB

IH 43 SB

BASKETBALL COURT

RIPRAP

MH

INL

A/C

SIGN

W

N

LEGEND

INLET PROTECTION TYPE B

2 MARKING LINE EPOXY 4-INCH (DOUBLE) (YELLOW)

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	PAVEMENT MARKING & EROSION CONTROL - B-40-377	SHEET 8	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024502_pm

PLOT DATE : 1/23/2020 7:36 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

TRAFFIC CONTROL GENERAL NOTES

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

2) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER. FLAGGING IS NOT PERMITTED ON FREEWAY LANES.

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

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

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

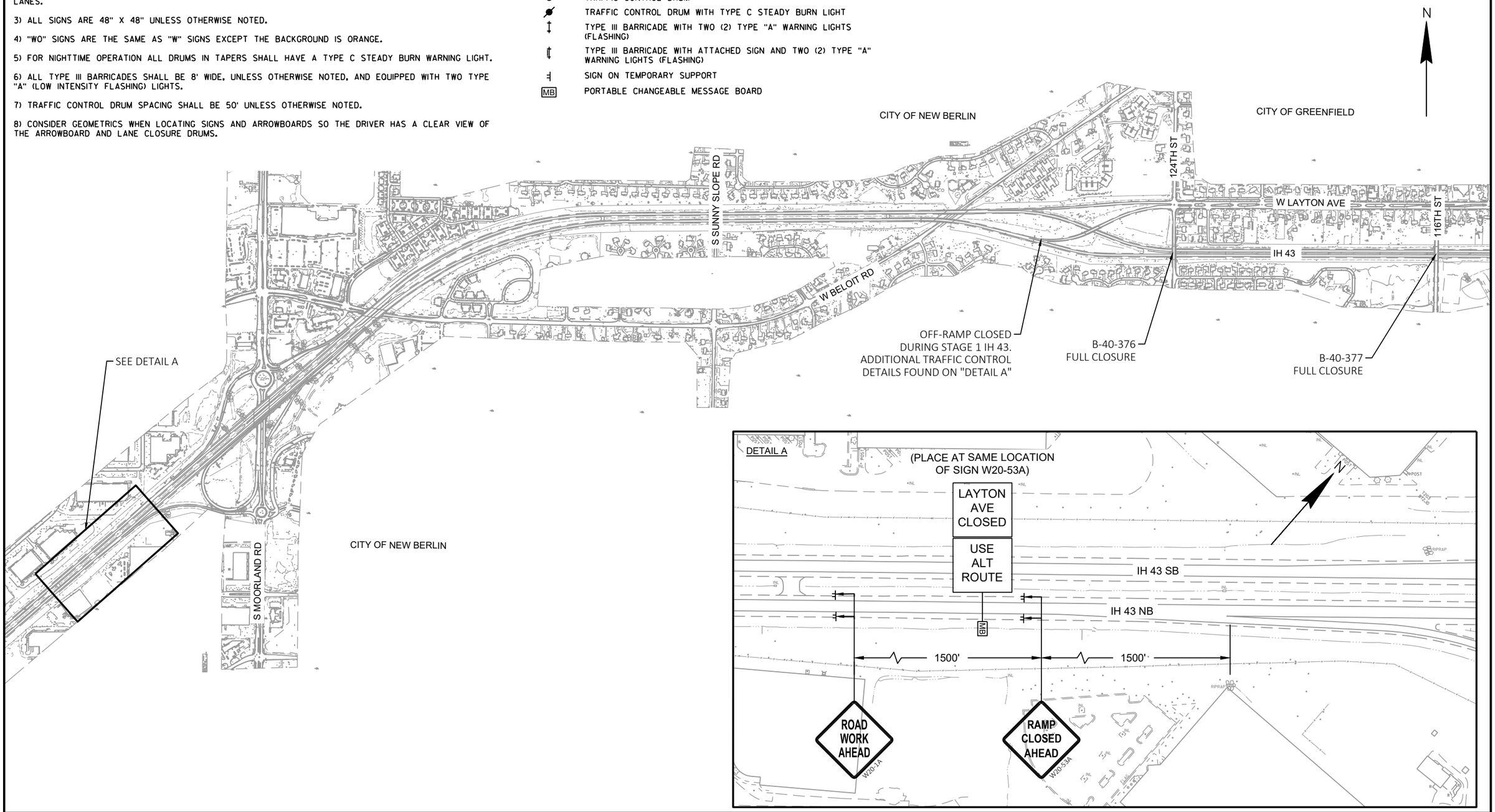
6) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

7) TRAFFIC CONTROL DRUM SPACING SHALL BE 50' UNLESS OTHERWISE NOTED.

8) CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS.

TRAFFIC CONTROL LEGEND

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

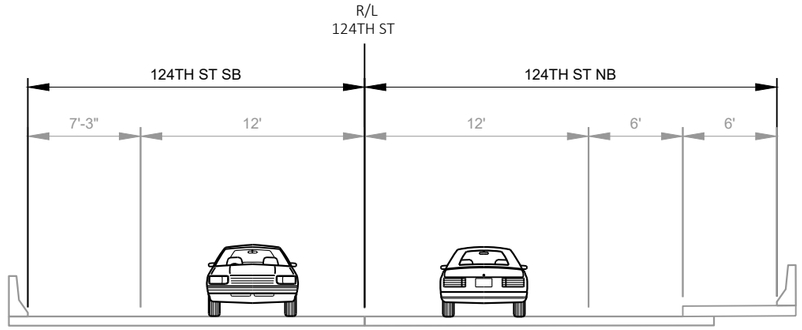


PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - OVERVIEW	SHEET 9	E

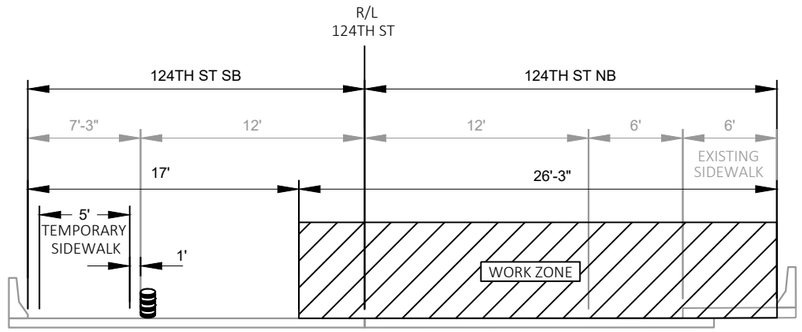
FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\025001_TC_OVERVIEW.DWG
LAYOUT NAME - 025000a_TC Overview

PLOT DATE : 1/23/2020 7:37 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1"=1100'

WISDOT/CADDS SHEET 42



TYPICAL SECTION - EXISTING
124TH ST



TYPICAL SECTION - STAGE 1
124TH ST

GENERAL NOTES:

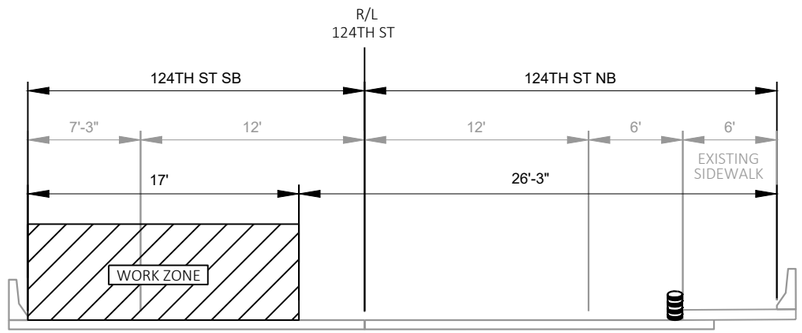
FULL CLOSURE FOR TRAFFIC, BUT STAGING PROVIDED FOR PEDESTRIAN ACCESS.

STAGE 1:

THE WORK ZONE PORTION OF 124TH ST, AS INDICATED BY THE TYPICAL SECTION, WILL HAVE A THIN POLYMER OVERLAY (TPO) APPLIED TO THE ROADWAY AND SHOULDER, MILL AND OVERLAY ALONG THE NORTH APPROACH SLAB, AND CONCRETE SIDEWALK REMOVAL AND REPLACEMENT AT BOTH THE NORTH AND SOUTH ENDS.

PEDESTRIAN ACCESS:

IN THIS STAGE, THE EAST SIDEWALK WILL BE CLOSED AND PEDESTRIANS WILL BE REDIRECTED TO THE WEST SIDE OF THE BRIDGE USING A TEMPORARY PEDESTRIAN ACCESS PATH.



TYPICAL SECTION - STAGE 2
124TH ST

GENERAL NOTES:

FULL CLOSURE FOR TRAFFIC, BUT STAGING PROVIDED FOR PEDESTRIAN ACCESS.

STAGE 2:

THE WORK ZONE PORTION OF 124TH ST, AS INDICATED BY THE TYPICAL SECTION, WILL HAVE A THIN POLYMER OVERLAY (TPO) APPLIED TO THE ROADWAY AND SHOULDER, MILL AND OVERLAY ALONG THE NORTH APPROACH SLAB, AND AN ASPHALTIC CURB PLACED AT BOTH THE NORTHWEST AND SOUTHWEST WING TIPS.

PEDESTRIAN ACCESS:

IN THIS STAGE, THE EAST SIDEWALK WILL REMAIN OPEN TO PEDESTRIANS AS WORK CONTINUES ON THE WORK ZONE PORTION OF 124TH ST.

2

TRAFFIC CONTROL LEGEND

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

(PLACE 7 DAYS PRIOR TO CONSTRUCTION)

ROAD WILL CLOSE

(DAY) (TIME) TO (TIME)

BRIDGE OUT R11-2B 48"X30"

BRIDGE OUT R11-2B 48"X30"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH

BRIDGE OUT R11-2B 48"X30"

FM01 124TH ST

ROAD CLOSED 500 FT W20-3D

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED AHEAD W20-3A

85' 500' 500' 500'

250'

N

USE CROSSWALK R9-3BL 18"X12"

USE CROSSWALK R9-3BR 18"X12"

25'

50'

S 124TH ST

18"124TH" 20"124TH" 22"124TH" 24"124TH" 26"124TH" 28"124TH"

5'

50'

MB

R3-1 24"X24"

SIDEWALK CLOSED R9-9 24"X12"

SIDEWALK CLOSED R9-9 24"X12"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24"X12"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24"X12"

TEMPORARY CURB RAMP PERPENDICULAR TO CURB WITH PROTECTIVE EDGE. REFER TO SDD TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

BRIDGE OUT R11-2B 48"X30"

ROAD WILL CLOSE

(DAY) (TIME) TO (TIME)

(PLACE 7 DAYS PRIOR TO CONSTRUCTION)

500' 500' 500' 90'

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED 500 FT W20-3D

W BARNARD AVE

IH 43 NB

IH 43 SB

22"IH43"

24"IH43"

S 123RD ST

W LAYTON AVE

250'

BRIDGE OUT R11-2B 48"X30"

FM01 124TH ST

S 124TH ST

2

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - B-40-376	SHEET 11	E

2

2

TRAFFIC CONTROL LEGEND

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

N

BRIDGE OUT R11-2B 48"X30"
FM01 124TH ST

ROAD CLOSED 500 FT W20-3D
ROAD CLOSED 1000 FT W20-3C
ROAD CLOSED AHEAD W20-3A

85' 500' 500' 500'
250'

BRIDGE OUT R11-2B 48"X30"
BRIDGE OUT R11-2B 48"X30"

S 124TH ST
18"124TH" 20"124TH" 22"124TH" 24"124TH" 26"124TH" 28"124TH"
50' 25' 50'

R3-1 24"X24"

500' 500' 500' 90'

ROAD CLOSED AHEAD W20-3A
ROAD CLOSED 1000 FT W20-3C
ROAD CLOSED 500 FT W20-3D

W BARNARD AVE

IH 43 NB
IH 43 SB
22"IH43"
24"IH43"

900"IH43NB"
902"IH43NB"
838"IH43NB"
960"IH43SB"
902"IH43SB"
T252 R49,34

BRIDGE OUT R11-2B 48"X30"

S 123RD ST

W LAYTON AVE

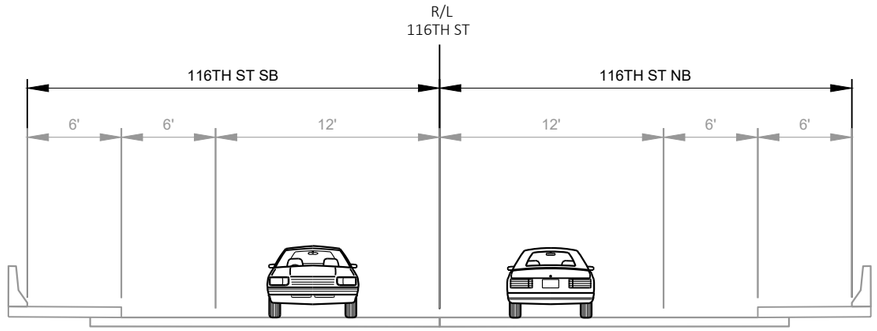
250'

BRIDGE OUT R11-2B 48"X30"
FM01 124TH ST

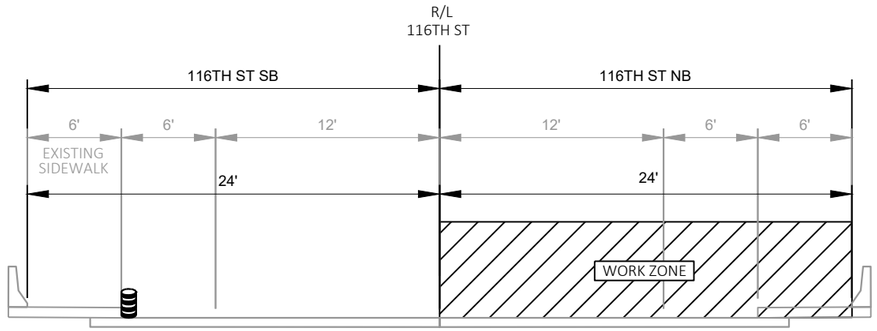
PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - B-40-376	SHEET 12	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\025001_TC.DWG
LAYOUT NAME - 025002_TC

PLOT DATE : 1/23/2020 7:37 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT



TYPICAL SECTION - EXISTING
116TH ST



TYPICAL SECTION - STAGE 1
116TH ST

GENERAL NOTES:

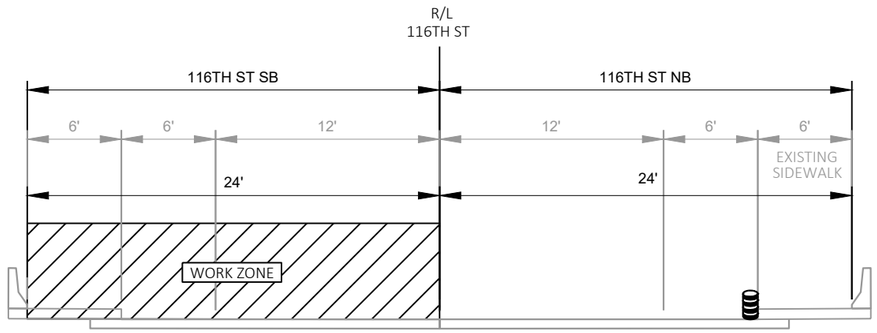
FULL CLOSURE FOR TRAFFIC, BUT STAGING PROVIDED FOR PEDESTRIAN ACCESS.

STAGE 1:

THE WORK ZONE PORTION OF 116TH ST, AS INDICATED BY THE TYPICAL SECTION, WILL HAVE A THIN POLYMER OVERLAY (TPO) APPLIED TO THE ROADWAY AND SHOULDER, AND CONCRETE SIDEWALK REMOVAL AND REPLACEMENT AT BOTH THE NORTH AND SOUTH ENDS OF THE EAST SIDEWALK.

PEDESTRIAN ACCESS:

IN THIS STAGE, THE EAST SIDEWALK WILL BE CLOSED AND PEDESTRIANS WILL BE REDIRECTED TO THE WEST SIDEWALK AT THE NEAREST INTERSECTIONS.



TYPICAL SECTION - STAGE 2
116TH ST

GENERAL NOTES:

FULL CLOSURE FOR TRAFFIC, BUT STAGING PROVIDED FOR PEDESTRIAN ACCESS.

STAGE 2:

THE WORK ZONE PORTION OF 116TH ST, AS INDICATED BY THE TYPICAL SECTION, WILL HAVE A THIN POLYMER OVERLAY (TPO) APPLIED TO THE ROADWAY AND SHOULDER, AND CONCRETE SIDEWALK REMOVAL AND REPLACEMENT AT BOTH THE NORTH AND SOUTH ENDS OF THE WEST SIDEWALK.

PEDESTRIAN ACCESS:

IN THIS STAGE, THE WEST SIDEWALK WILL BE CLOSED AND PEDESTRIANS WILL BE REDIRECTED TO THE EAST SIDEWALK AT THE NEAREST INTERSECTIONS.

2

TRAFFIC CONTROL LEGEND

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

PLACE AT NORTHERN HIGH SCHOOL DRIVEWAY TO REDIRECT TRAFFIC FROM EAST SIDEWALK TO WEST SIDEWALK USING EXISTING CROSSWALK.

SIDEWALK CLOSED AHEAD / CROSS HERE
R9-11
24"X12"

(PLACE AT NORTHERN HIGH SCHOOL DRIVEWAY)
R3-1
24"X24"

BRIDGE OUT
R11-2B
48"X30"

(PLACE 7 DAYS PRIOR TO CONSTRUCTION)
ROAD WILL CLOSE
(DAY) (TIME) TO (TIME)

BRIDGE OUT
R11-2B
48"X30"

BRIDGE OUT
R11-2B
48"X30"
(PLACE AT NORTHERN HIGH SCHOOL DRIVEWAY INTERSECTION)

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED 500 FT
W20-3D

500' 500' 500' 200'

14"116TH" 16"116TH" 18"116TH" 20"116TH" 22"116TH" 24"116TH" 26"116TH"

S 116TH ST

25' 50' 90' 500' 500' 500' 500' 250'

48"IH43" 50"IH43" 52"IH43" 54"IH43"

IH 43 NB

IH 43 SB

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

BRIDGE OUT
R11-2B
48"X30"

BRIDGE OUT
R11-2B
48"X30"

ROAD WILL CLOSE
(DAY) (TIME) TO (TIME)
(PLACE 7 DAYS PRIOR TO CONSTRUCTION)

BRIDGE OUT
R11-2B
48"X30"

FM02 116TH ST

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED AHEAD
W20-3A

SIDEWALK CLOSED AHEAD / CROSS HERE
R9-11
24"X12"

W LAYTON AVE

250'

BRIDGE OUT
R11-2B
48"X30"

FM02 116TH ST

N

RIPRAP

ATHLETIC FIELD

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - B-40-377	SHEET 14	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\025001_TC.DWG
LAYOUT NAME - 025003_TC

PLOT DATE : 1/23/2020 7:37 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

TRAFFIC CONTROL LEGEND

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

PLACE AT NORTHERN HIGH SCHOOL DRIVEWAY TO REDIRECT TRAFFIC FROM WEST SIDEWALK TO EAST SIDEWALK USING EXISTING CROSSWALK.

SIDEWALK CLOSED AHEAD / CROSS HERE
R9-11
24"X12"

(PLACE AT NORTHERN HIGH SCHOOL DRIVEWAY)

R3-1
24"X24"

BRIDGE OUT
R11-2B
48"X30"

(PLACE AT NORTHERN HIGH SCHOOL DRIVEWAY INTERSECTION)

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED 500 FT
W20-3D

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED AHEAD / CROSS HERE
R9-11
24"X12"

14"116TH"
16"116TH"
18"116TH"
20"116TH"
22"116TH"
24"116TH"
26"116TH"

500'
500'
500'
200'
90'
500'
500'
500'
50'
50'
25'
250'
250'

S 116TH ST
W LAYTON AVE

FM02 116TH ST

IH 43 NB
IH 43 SB

48"IH43"
50"IH43"
52"IH43"
54"IH43"

RIPRAP
ATHLETIC FIELD
POOL
A/C
INL
MH
SIGN
W

T:42
8:11:41

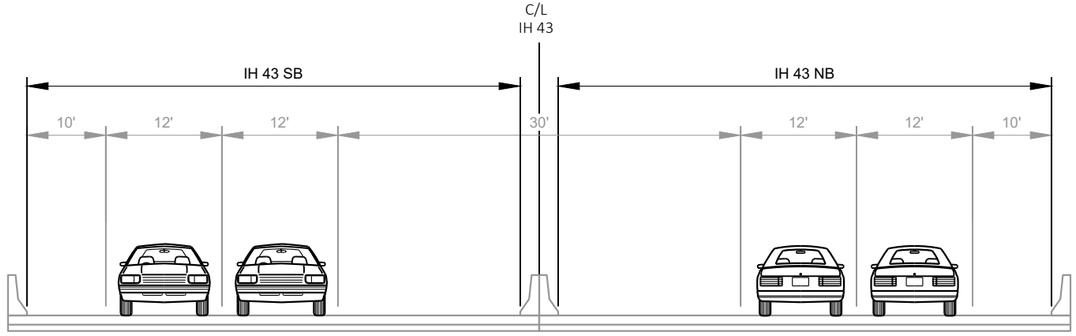
PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - B-40-377	SHEET 15	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\025001_TC.DWG
LAYOUT NAME - 025004_TC

PLOT DATE : 1/23/2020 7:37 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

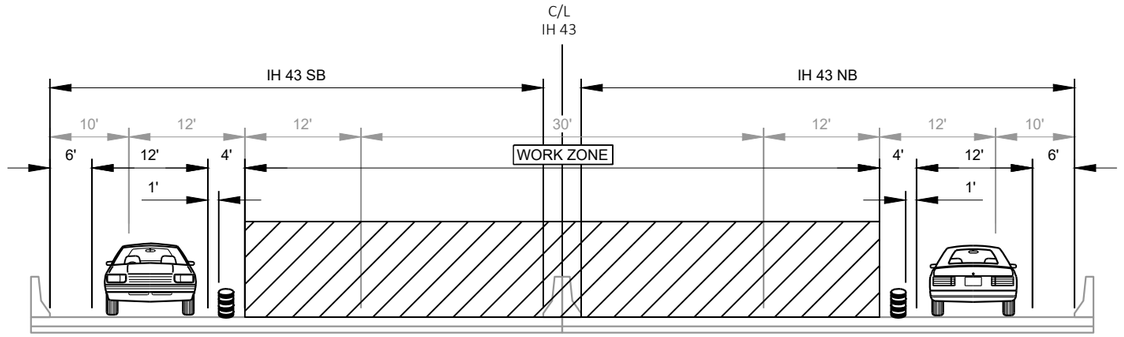
WISDOT/CADDS SHEET 42

2



TYPICAL SECTION - EXISTING

IH 43 SB & NB



TYPICAL SECTION - STAGE 1

IH 43 SB & NB

GENERAL NOTES:

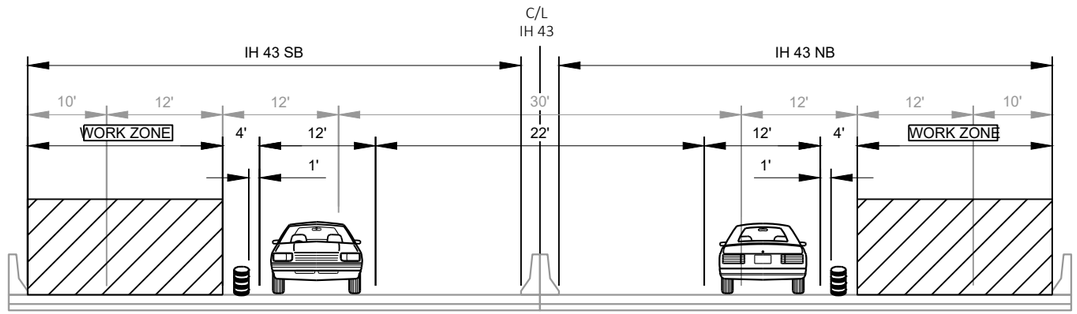
STAGING ALONG IH 43 WILL ONLY TAKE PLACE WHEN WORK IS BEING DONE ALONG THE GIRDERS, FLANGES, AND PIERS OF B-40-376.

STAGE 1:

CONCRETE SURFACE REPAIRS AT THE GIRDERS, FLANGES, AND PIERS OF B-40-376 SPANNING THE INSIDE LANE AND SHOULDER OF IH 43 (BOTH DIRECTIONS).

TRAFFIC:

IN THIS STAGE, THE INSIDE LANE IS CLOSED AND THE OUTSIDE LANE IS OPEN TO TRAFFIC.



TYPICAL SECTION - STAGE 2

IH 43 - SB & NB

GENERAL NOTES:

STAGING ALONG IH 43 WILL ONLY TAKE PLACE WHEN WORK IS BEING DONE ALONG THE GIRDERS, FLANGES, AND PIERS OF B-40-376.

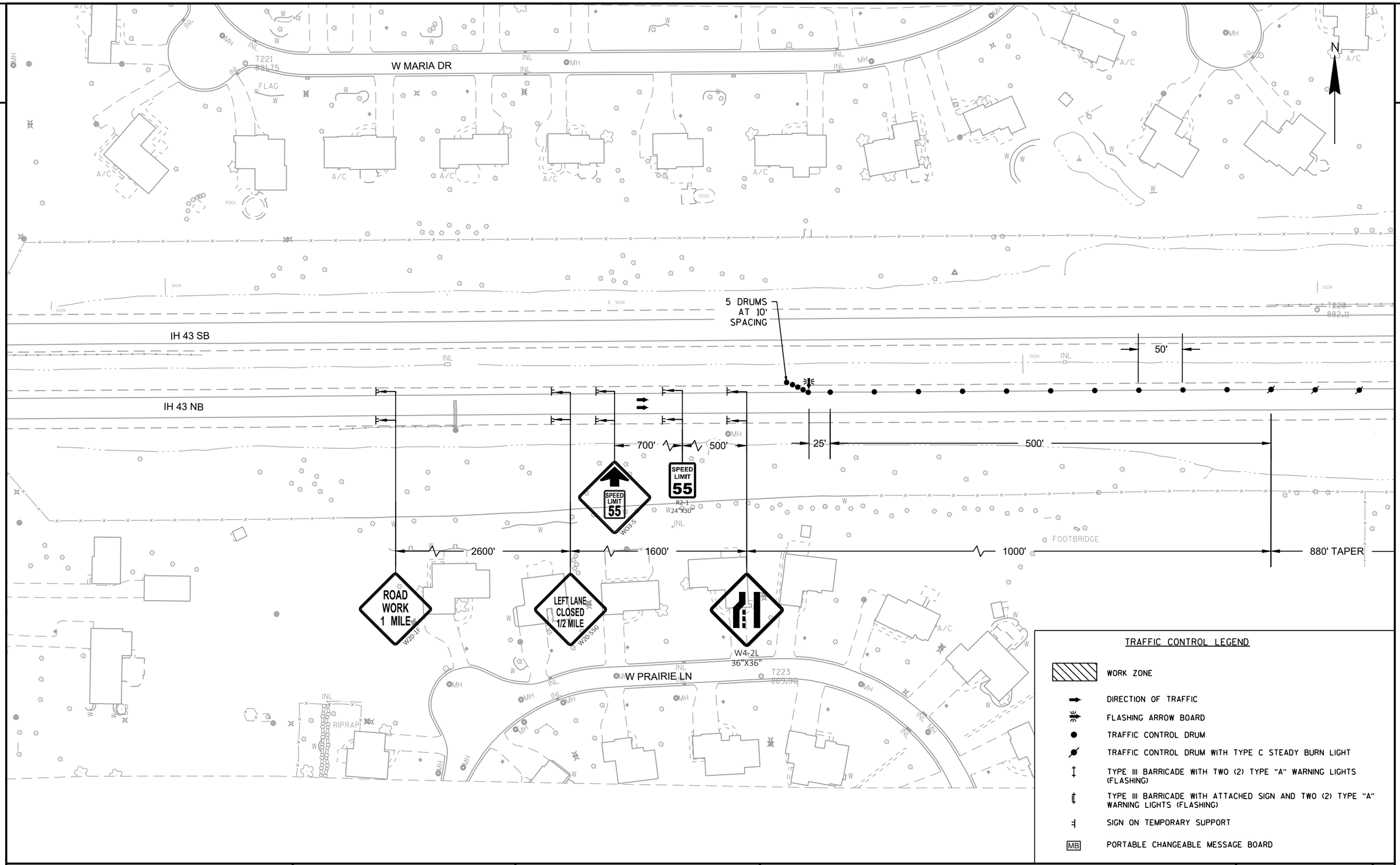
STAGE 2:

CONCRETE SURFACE REPAIRS AT THE GIRDERS, FLANGES, AND PIERS OF B-40-376 SPANNING THE OUTSIDE LANE AND SHOULDER OF IH 43 (BOTH DIRECTIONS).

TRAFFIC:

IN THIS STAGE, THE OUTSIDE LANE IS CLOSED AND THE INSIDE LANE IS OPEN TO TRAFFIC.

2



TRAFFIC CONTROL LEGEND

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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - IH 43	SHEET 17	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S1.DWG
LAYOUT NAME - 026001_S1
PLOT DATE : 2/28/2020 8:47 AM
PLOT BY : ATARI, RAZAN HAEL
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

W ARMOUR AVE

IH 43 SB

IH 43 NB

880' TAPER

874"IH43SB"

876"IH43SB"

878"IH43SB"

50'

100'

874"IH43NB"

876"IH43NB"

878"IH43NB"

1000'

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

RAMP CLOSED 1000 FT
W20-5aC

W BELOIT AVE

PLAYGROUND

SEPTIC

POOL

SLAB

RIPRAP

MH

A/C

INL

SIGN

N

TRAFFIC CONTROL LEGEND

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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - IH 43	SHEET 18	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S1.DWG
LAYOUT NAME - 026002_S1

PLOT DATE : 1/23/2020 7:38 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

W BELOIT RD

IH 43 SB ON RAMP FROM LAYTON AVE

880"IH43SB" 882"IH43SB" 884"IH43SB" 886"IH43SB" 888"IH43SB" IH 43 SB 890"IH43SB" 892"IH43SB" 894"IH43SB"

IH 43 NB OFF RAMP TO LAYTON AVE

RAMP TO CLOSE

(DAY) (TIME) TO (TIME)

MB

RAMP CLOSED

R11-2R 48"X30"

880"IH43NB" 882"IH43NB" 884"IH43NB" 886"IH43NB" 888"IH43NB" 890"IH43NB" 892"IH43NB"

IH 43 NB

100' 200' 1000' 25' 100'

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

SLAB POOL A/C MH SEPV INL W SIGN

TRAFFIC CONTROL LEGEND

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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - IH 43	SHEET 19	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S1.DWG
LAYOUT NAME - 026003_S1

PLOT DATE : 1/23/2020 7:38 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

IH 43 NB OFF RAMP TO LAYTON AVE

892"IH43SB"

894"IH43SB"

IH 43 SB

896"IH43SB"

898"IH43SB"

900"IH43SB"

902"IH43SB"

892"IH43NB"

894"IH43NB"

IH 43 NB

896"IH43NB"

898"IH43NB"

900"IH43NB"

902"IH43NB"

END
ROAD WORK
G20-2A
48"X24"

500'

100'

50'

T252
849.34

T254
862.50

28"124TH"

26"124TH"

24"124TH"

22"124TH"

20"124TH"

S 124TH ST

22"IH43"

W BARNARD AVE

FILLER CAP

SLAB

POOL

A/C

INL

MH

SIGN

R11-2L
48" X 30"

LANE
CLOSED

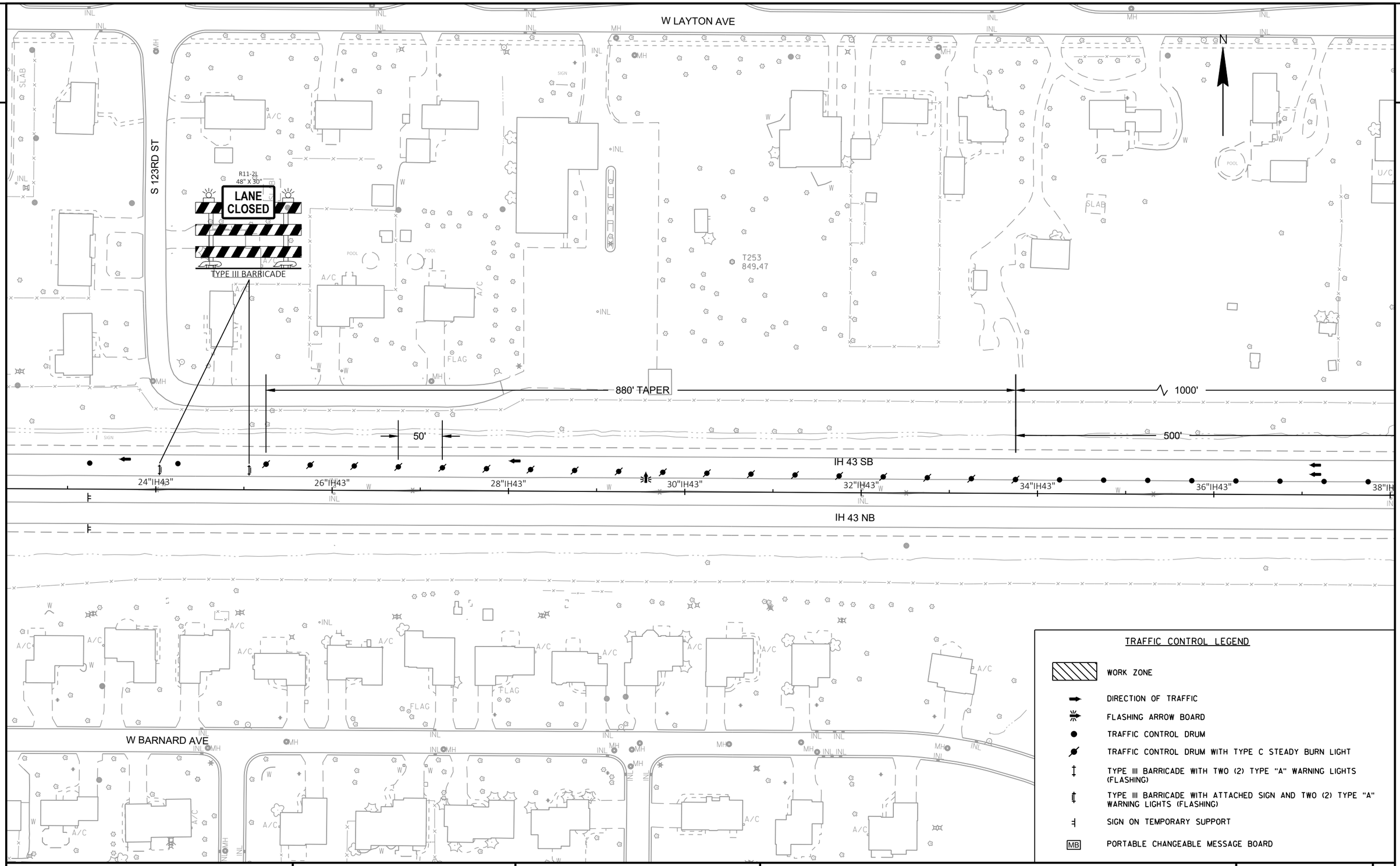
TYPE III BARRICADE

N

TRAFFIC CONTROL LEGEND

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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - IH 43	SHEET 20	E



PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - IH 43	SHEET 21	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S1.DWG
LAYOUT NAME - 026005_S1

PLOT DATE : 1/23/2020 7:38 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

W4-2L
36"X36"

LEFT LANE CLOSED 1/2 MILE
W20-5R

ROAD WORK 1 MILE
W20-1F

1000'

1600'

2600'

500'

25'

50'

3"

38"IH43"

40"IH43"

42"IH43"

44"IH43"

46"IH43"

48"IH43"

50"IH43"

IH 43 SB

IH 43 NB

5 DRUMS AT 10' SPACING

W BARNARD AVE

N

T238
837.16

26"116TH"

24"116TH"

22"116TH"

20"116TH"

18"116TH"

116TH ST

RIPRAP

BASKETBALL COURT

TRAFFIC CONTROL LEGEND

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

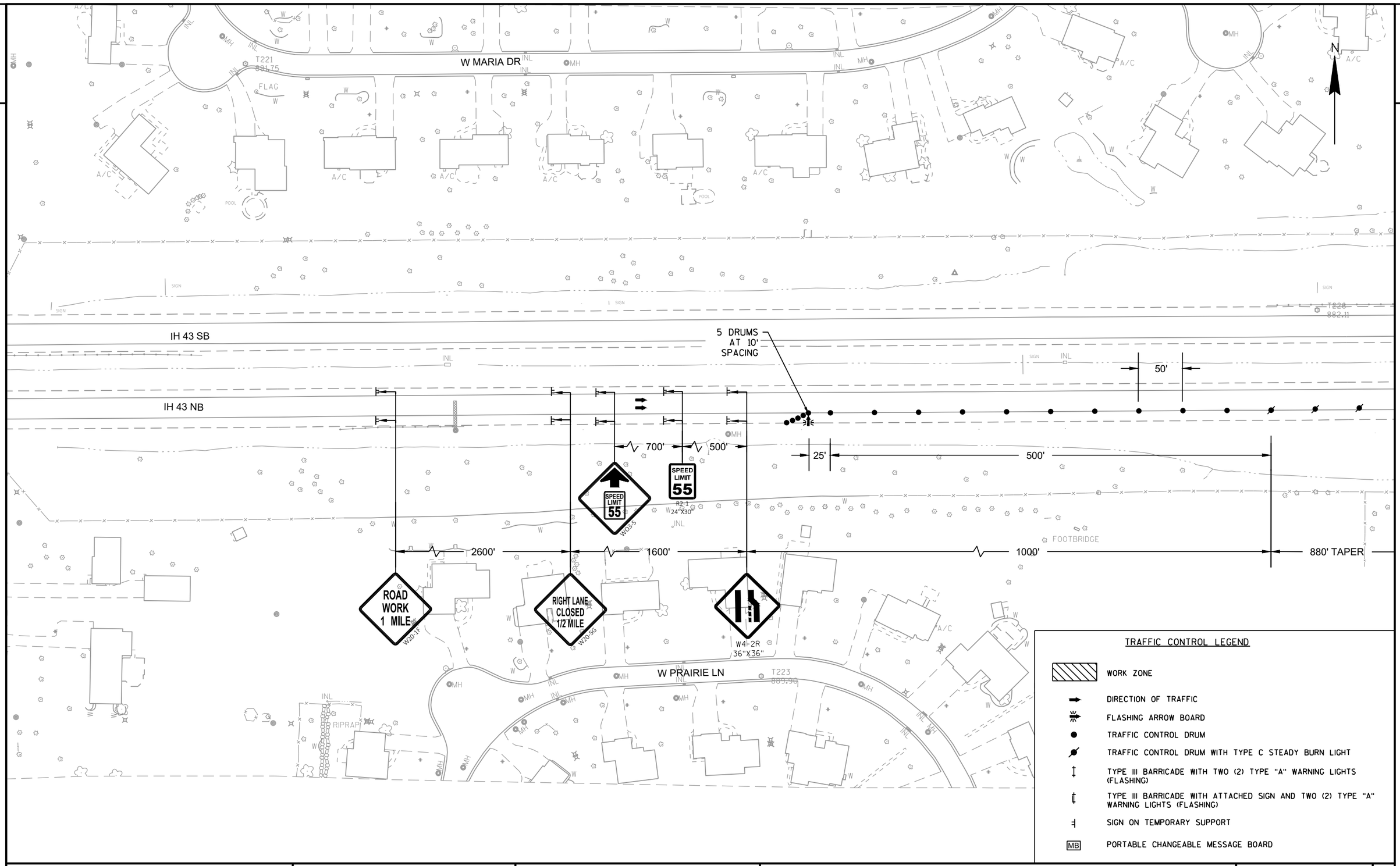
PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1 - IH 43	SHEET 22	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S1.DWG
LAYOUT NAME - 026006_S1

PLOT DATE : 1/23/2020 7:38 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - IH 43	SHEET 23	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S2.DWG
LAYOUT NAME - 026001_S2

PLOT DATE : 2/28/2020 8:59 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

W ARMOUR AVE

IH 43 SB

IH 43 NB

874"IH43SB"

876"IH43SB"

878"IH43SB"

874"IH43NB"

876"IH43NB"

878"IH43NB"

50'

100'

880' TAPER

W BELOIT AVE

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

PLAYGROUND

SEPTIC

POOL

SLAB

RIPRAP

MH

INL

SIGN

N

TRAFFIC CONTROL LEGEND

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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - IH 43	SHEET 24	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S2.DWG
LAYOUT NAME - 026002_S2

PLOT DATE : 1/23/2020 7:38 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

IH 43 SB ON RAMP FROM LAYTON AVE

880"IH43SB"

882"IH43SB"

884"IH43SB"

886"IH43SB"

888"IH43SB"

IH 43 SB

890"IH43SB"

892"IH43SB"

894"IH43SB"

IH 43 NB OFF RAMP TO LAYTON AVE

N

"IH43NB"

880"IH43NB"

882"IH43NB"

884"IH43NB"

886"IH43NB"

888"IH43NB"

890"IH43NB"

892"IH43NB"

IH 43 NB

100'

SLAB

(POOL)

A/C

SEPV

MH

R21-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

TRAFFIC CONTROL LEGEND

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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - IH 43	SHEET 25	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S2.DWG
LAYOUT NAME - 026003_S2

PLOT DATE : 1/23/2020 7:38 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

IH 43 NB OFF RAMP TO LAYTON AVE

892"IH43SB"

894"IH43SB"

IH 43 SB

896"IH43SB"

898"IH43SB"

END
ROAD WORK
G20-2A
48"X24"

500'

900"IH43SB"

T252
849.34

902"IH43SB"

50'

28"124TH"

26"124TH"

100'

892"IH43NB"

894"IH43NB"

IH 43 NB

896"IH43NB"

898"IH43NB"

900"IH43NB"

902"IH43NB"

T254
862.50

100'

24"124TH"

22"IH43"

50'

500'

S 124TH ST

22"124TH"

20"124TH"

R11-2L
48"X 30"

LANE
CLOSED

TYPE III BARRICADE

W BARNARD AVE

END
ROAD WORK
G20-2A
48"X24"

N

FILLER CAP

SLAB

POOL

A/C

INL

MH

SIGN

TRAFFIC CONTROL LEGEND

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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - IH 43	SHEET 26	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S2.DWG
LAYOUT NAME - 026004_S2

PLOT DATE : 1/23/2020 7:38 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

W LAYTON AVE

S 123RD ST

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

880' TAPER

1000'

50'

500'

24"IH43"
26"IH43"
28"IH43"
30"IH43"
32"IH43"
34"IH43"
36"IH43"
38"IH

IH 43 SB

IH 43 NB

W BARNARD AVE

N

TRAFFIC CONTROL LEGEND

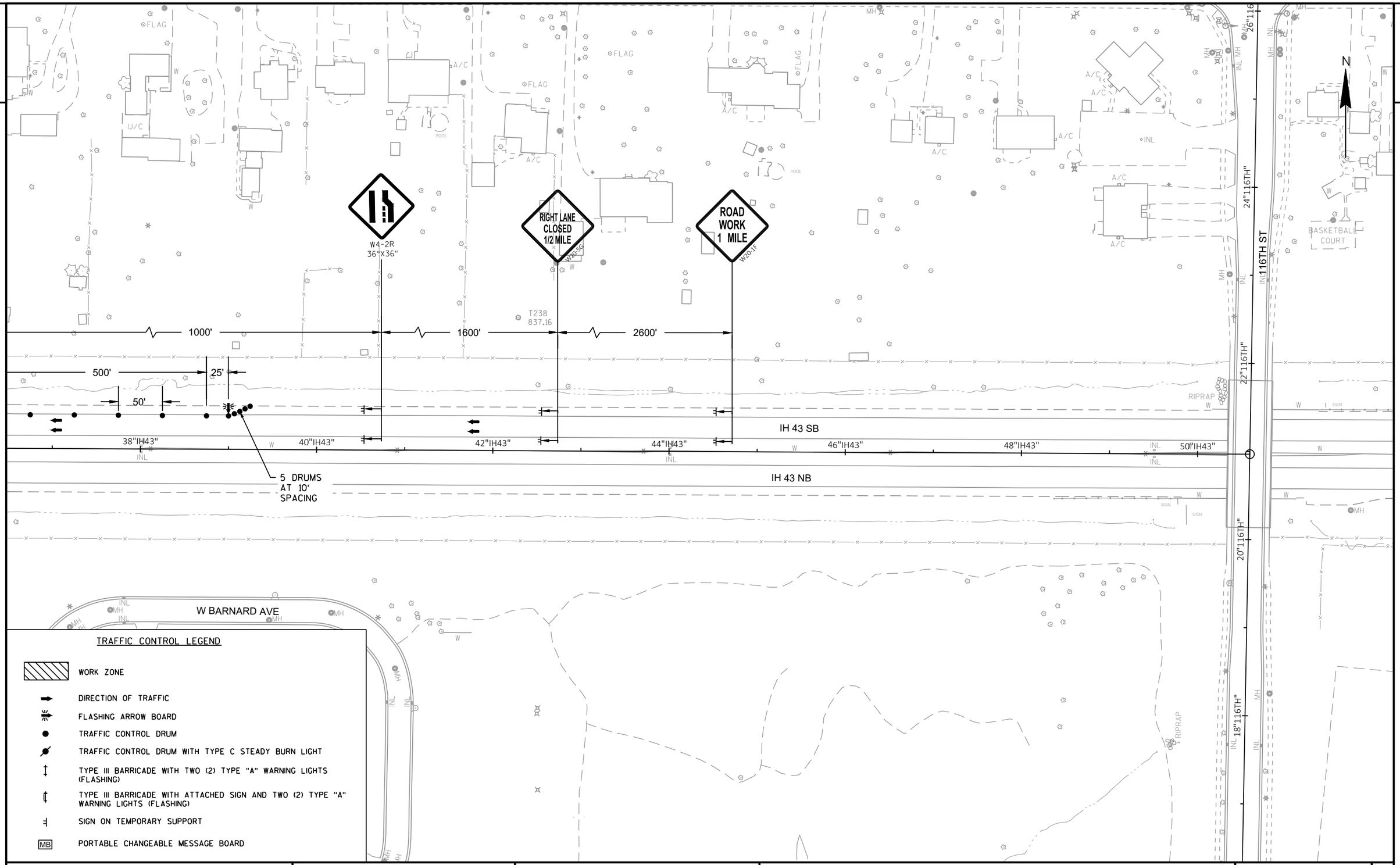
- WORK ZONE
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WITH TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TWO (2) TYPE "A" WARNING LIGHTS (FLASHING)
- SIGN ON TEMPORARY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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - IH 43	SHEET 27	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\026001_S2.DWG
LAYOUT NAME - 026005_S2

PLOT DATE : 1/23/2020 7:39 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



TRAFFIC CONTROL LEGEND

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

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2 - IH 43	SHEET 28	E

2

2

N

900'IH43SB"

900'IH43NB"

752.67'

S89° 50' 09"E

CURVE 1

PI = 899+53.19
Y = 270106.776
X = 562868.025
Δ = 20°55'26"
D = 2°58'55"
T = 354.80'
L = 701.69'
R = 1921.45'
PC = 895+98.39
PT = 903+00.09

20"124TH"

N0° 22' 15"E

2653.39'

25"124TH"

N0° 22' 15"E

2653.39'

STA 24+40.00 "124TH" (124TH ST)=
STA 20+00.00 "IH43" (IH 43)
Y=270,078.71
X=563,200.87

3059.21'

S89° 49' 56"E

2

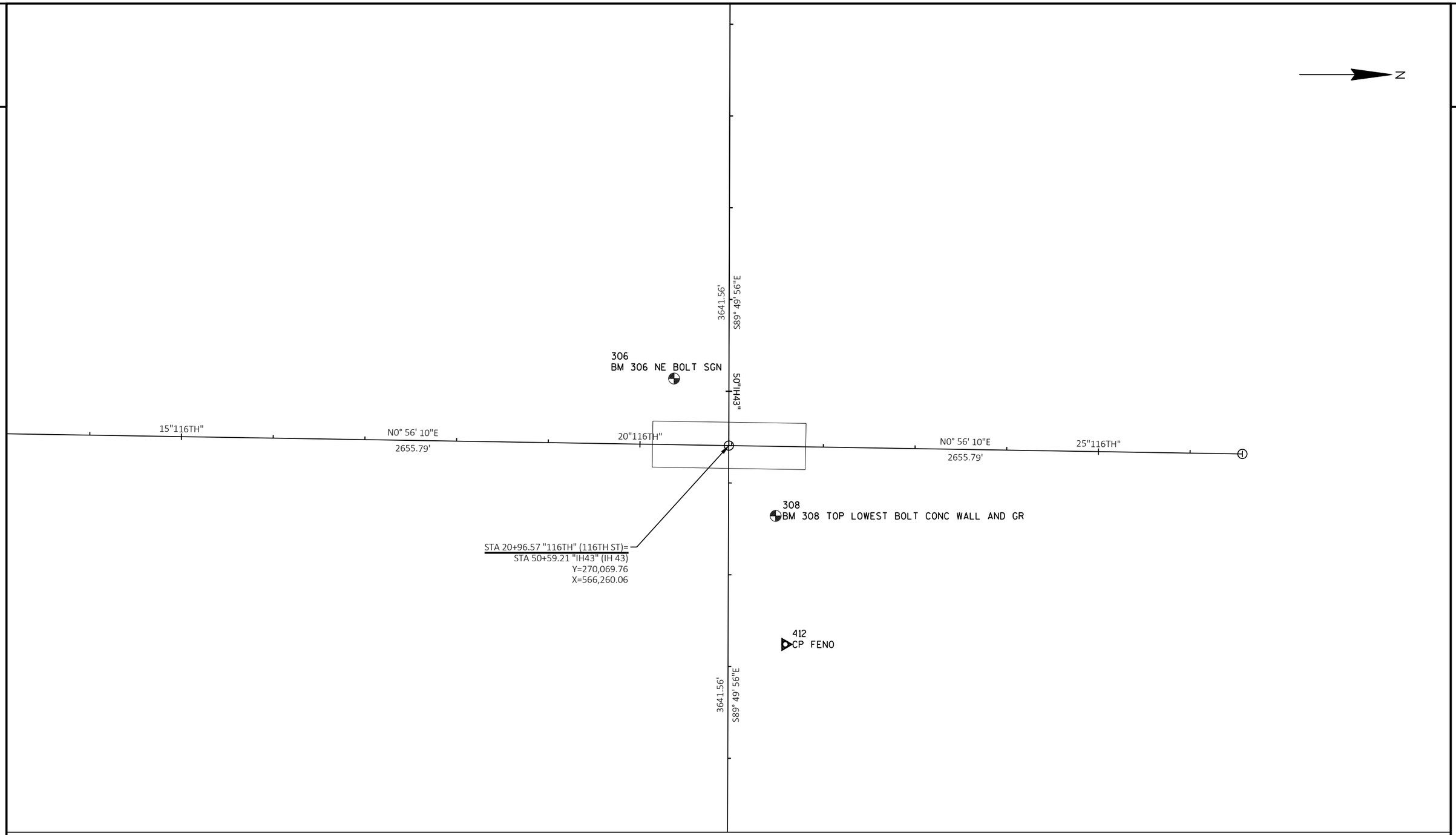
PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT PLAN - B-40-376	SHEET 29	E

FILE NAME : N:\PDS\C3D\10900502\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027201

PLOT DATE : 1/23/2020 7:39 AM PLOT BY : ATARI, RAZAN HAEL PLOT NAME : PLOT SCALE : 1 IN:100 FT

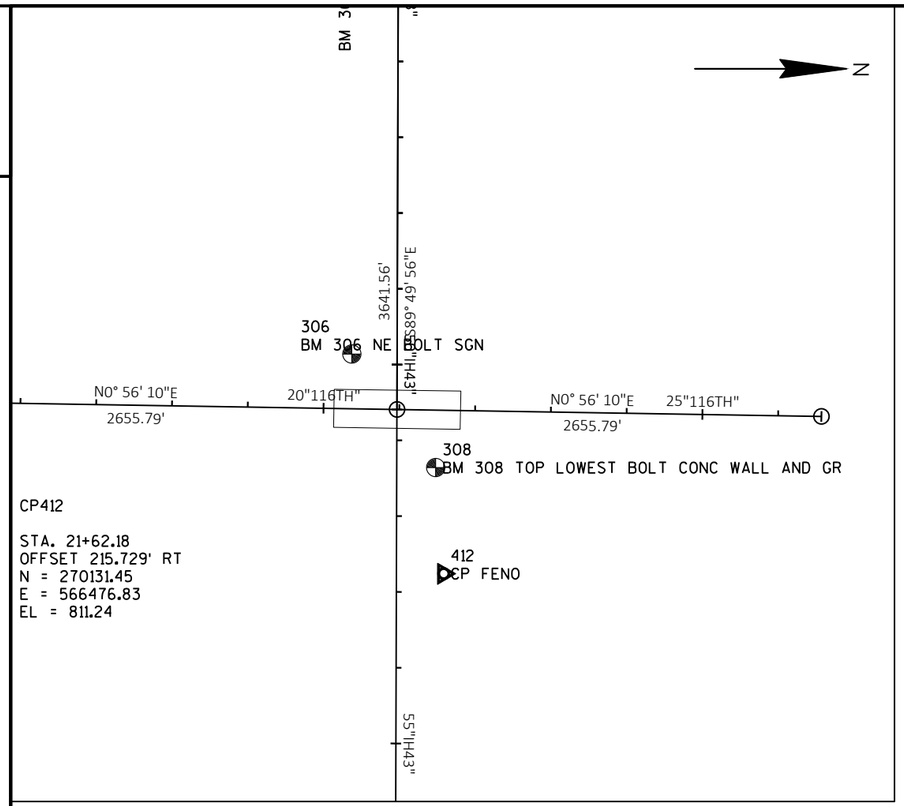
WISDOT/CADDS SHEET 42

2



POINT NUMBER	STA.	OFFSET	POINT ELEVATION	BENCHMARK DESCRIPTION
306	20+36	72' LT	818.47	North east bolt sign
308	21+49	76' RT	817.43	Top lowest bolt on concrete wall and GR

PROJECT NO: 1090-05-72	HWY: IH 43	COUNTY: MILWAUKEE	ALIGNMENT PLAN - B-40-377	SHEET 30	E


N
BM 3
3641.56'
S89° 49' 56"E
"IH43"
306
BM 306 NE BOLT SGN
N0° 56' 10"E
2655.79'
20"116TH"
N0° 56' 10"E
2655.79'
25"116TH"
308
BM 308 TOP LOWEST BOLT CONC WALL AND GR
CP412
STA. 21+62.18
OFFSET 215.729' RT
N = 270131.45
E = 566476.83
EL = 811.24
412
CP FENO
"IH43"

2

1090-05-72

Line	Item	Item Description	Unit	Total	Qty
0002	204.0110	Removing Asphaltic Surface	SY	3.000	3.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	103.000	103.000
0006	204.0155	Removing Concrete Sidewalk	SY	63.000	63.000
0008	204.0175	Removing Concrete Slope Paving	SY	60.000	60.000
0010	213.0100	Finishing Roadway (project) 0001. 1090-05-72	EACH	1.000	1.000
0016	465.0105	Asphaltic Surface	TON	6.000	6.000
0018	465.0310	Asphaltic Curb	LF	10.000	10.000
0026	509.1500	Concrete Surface Repair	SF	25.000	25.000
0028	509.5100.S	Polymer Overlay	SY	1,315.000	1,315.000
0030	601.0600	Concrete Curb Pedestrian	LF	5.000	5.000
0032	602.0410	Concrete Sidewalk 5-Inch	SF	594.000	594.000
0034	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	12.000	12.000
0036	604.0400	Slope Paving Concrete	SY	60.000	60.000
0038	619.1000	Mobilization	EACH	0.200	0.200
0040	628.7010	Inlet Protection Type B	EACH	5.000	5.000
0042	642.5401	Field Office Type D	EACH	0.100	0.100
0044	643.0300	Traffic Control Drums	DAY	1,049.000	1,049.000
0046	643.0420	Traffic Control Barricades Type III	DAY	255.000	255.000
0048	643.0705	Traffic Control Warning Lights Type A	DAY	510.000	510.000
0050	643.0715	Traffic Control Warning Lights Type C	DAY	315.000	315.000
0052	643.0800	Traffic Control Arrow Boards	DAY	30.000	30.000
0054	643.0900	Traffic Control Signs	DAY	405.000	405.000
0056	643.1000	Traffic Control Signs Fixed Message	SF	16.000	16.000
0058	643.1050	Traffic Control Signs PCMS	DAY	46.000	46.000
0060	643.4100.S	Traffic Control Interim Lane Closure	EACH	16.000	16.000
0062	643.5000	Traffic Control	EACH	0.100	0.100
0064	644.1601	Temporary Pedestrian Curb Ramp	DAY	3.000	3.000
0066	646.1020	Marking Line Epoxy 4-Inch	LF	1,066.000	1,066.000
0070	646.9000	Marking Removal Line 4-Inch	LF	1,066.000	1,066.000
0074	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,727.000	1,727.000
0078	690.0150	Sawing Asphalt	LF	22.000	22.000
0080	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	400.000	400.000
0082	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	900.000	900.000
0092	SPV.0090	Special 4000. Crack Sealing Epoxy Sidewalk	LF	60.000	60.000
0094	SPV.0165	Special 4010. PPC Beam Surface Repair	SF	5.000	5.000

3

INLET PROTECTION

CATEGORY	LOCATION	STATION	TO	STATION	OFFSET	628.7010 INLET PROTECTION TYPE B EACH
1000	B-40-376	25+38			RT	1
	B-40-376	25+43			LT	1
	B-40-377	22+94			RT	1
	B-40-377	22+94			LT	1
	UNDISTRIBUTED					1
	TOTALS					5

PAVEMENT MARKING

CATEGORY	LOCATION	STATION	TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.9000 MARKING REMOVAL LINE 4-INCH LF
1000	B-40-376	23+62	-	25+45	366	366	732
	B-40-377	20+14	-	21+81	334	--	334
	SUBTOTAL				700	366	1066
	TOTAL					1066	1066

3

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100.0001 FINISHING ROADWAY EACH
1000	1090-05-72	1

MOBILIZATION

CATEGORY	PROJECT	619.1000 MOBILIZATION EACH
1000	1090-05-72	0.20

FIELD FACILITIES OFFICE SPACE

CATEGORY	PROJECT	642.5401 FIELD OFFICE TYPE D EACH
1000	1090-05-72	0.10

3

ASPHALT

CATEGORY	LOCATION	STATION	TO STATION	OFFSET	465.0310 ASPHALTIC CURB LF	465.0105 ASPHALTIC SURFACE TON
1000	B-40-376	23+00	23+62	LT	5	--
		25+19	25+45	RT/LT	5	6
	TOTAL				10	6

REMOVALS

CATEGORY	LOCATION	STATION	TO STATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0155 REMOVING CONCRETE SIDEWALK SY	690.0150 SAWING ASPHALT LF
1000	B-40-376	23+41	23+62	3	--	11	22
	B-40-376	25+19	25+45	--	103	5	--
	B-40-377	19+90	20+14	--	--	16	--
	B-40-377	20+09	20+14	--	--	3	--
	B-40-377	21+81	21+91	--	--	7	--
	B-40-377	21+81	22+13	--	--	21	--
			TOTAL:	3	103	63	22

3

CONCRETE SIDEWALK

CATEGORY	LOCATION	STATION	TO STATION	OFFSET	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
1000	B-40-376	23+41	23+62	RT	5	126	12
	B-40-376	25+36	25+43	RT	--	42	--
	B-40-377	19+90	20+14	RT	--	144	--
	B-40-377	20+09	20+14	LT	--	30	--
	B-40-377	21+81	21+91	RT	--	60	--
	B-40-377	21+81	22+13	LT	--	192	--
			TOTAL:		5	594	12

TEMPORARY PAVEMENT MARKING

CATEGORY	LOCATION	STATION	TO	STATION	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH LF
1000	B-40-376	22+95	-	25+61	1393
	B-40-377	20+14	-	21+81	334
	SUBTOTAL				1727
	TOTAL				1727

3

TRAFFIC CONTROL

CATEGORY	STAGE	LOCATION	DAYS	643.0300 TRAFFIC CONTROL DRUMS *EACH	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III *EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A *EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C *EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS *EACH	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS *EACH	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1050 TRAFFIC CONTROL SIGNS PCMS *EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	644.1601 TEMPORARY PEDESTRIAN CURB RAMP *EACH	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY
1000	1	IH 43 NB	2	94	188	8	16	16	32	18	36	2	4	24	48	2	9	--	--
		IH 43 SB	2	43	86	2	4	4	8	18	36	2	4	10	20	--	--	--	--
		B-40-376	1	12	12	24	24	48	48	--	--	--	--	21	21	2	14	1	1
		B-40-377	1	11	11	18	18	36	36	--	--	--	--	18	18	2	14	--	--
		PAVEMENT MARKING PLACEMENT	1	160	160	52	52	104	104	36	72	4	4	73	73	--	--	1	1
		SUBTOTAL			457		114		228		144		12		180		37		2
	2	IH 43 NB	2	69	138	4	8	8	16	18	36	2	4	16	32	--	--	--	--
		IH 43 SB	2	43	86	2	4	4	8	18	36	2	4	10	20	--	--	--	--
		B-40-376	1	12	12	18	18	36	36	--	--	--	--	15	15	--	--	--	--
		B-40-377	1	11	11	18	18	36	36	--	--	--	--	18	18	--	--	--	--
		PAVEMENT MARKING PLACEMENT	1	135	135	42	42	84	84	36	36	4	4	59	59	--	--	--	--
		SUBTOTAL			382		90		180		108		12		144		--		--
		UNDISTRIBUTED			210		51		102		63		6		81		9		1
		TOTAL			1049		255		510		315		30		405		46		3

TRAFFIC CONTROL

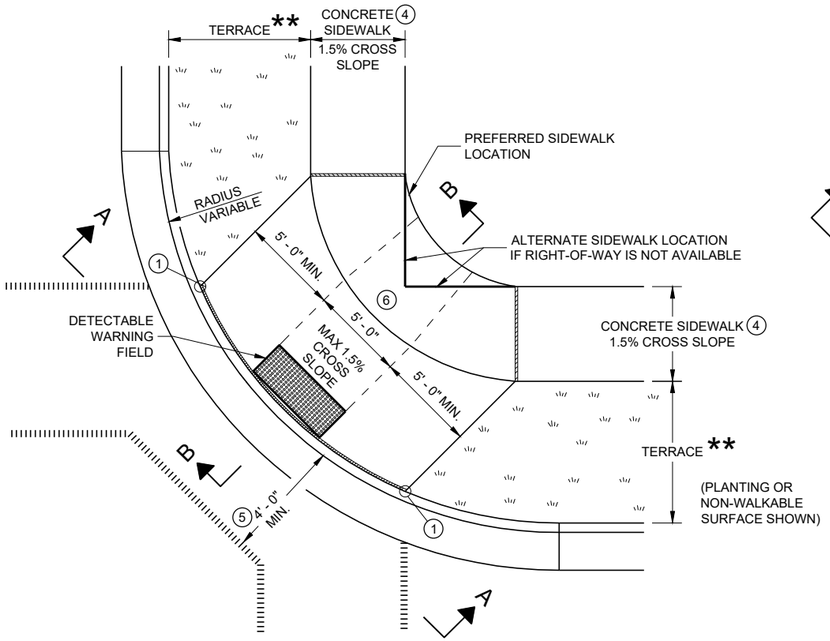
CATEGORY	PROJECT	643.5000 TRAFFIC CONTROL EACH	643.4100.S TRAFFIC CONTROL INTERIM LANE CLOSURE EACH
1000	1090-05-72	0.10	16
	TOTAL	0.10	16

FIXED MESSAGE SIGNS

CATEGORY	LOCATION	SIGN NO.	SIZE	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	NOTES
1000	W LAYTON AVE	FM01	4' X 1'	8	"124TH ST"
	W LAYTON AVE	FM02	4' X 1'	8	"116TH ST"
	TOTAL			16	

Standard Detail Drawing List

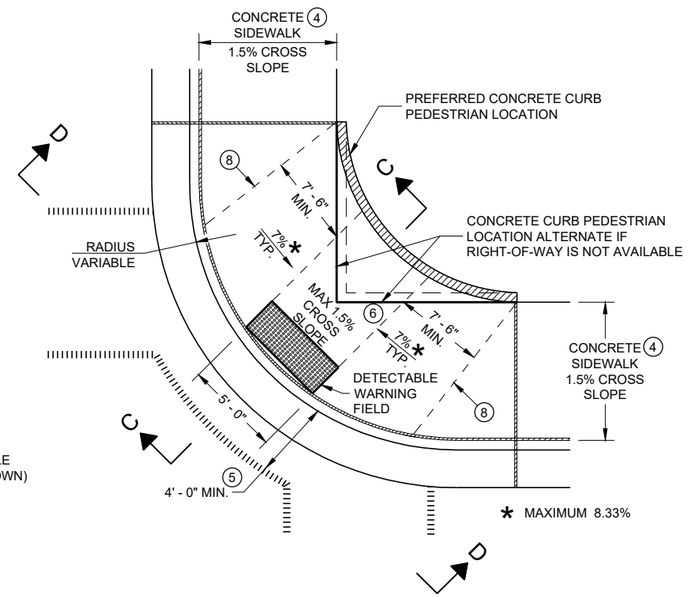
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D12-07A	TRAFFIC CONTROL, LANE CLOSURE
15D15-05E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



PLAN VIEW

CURB RAMP TYPE 1

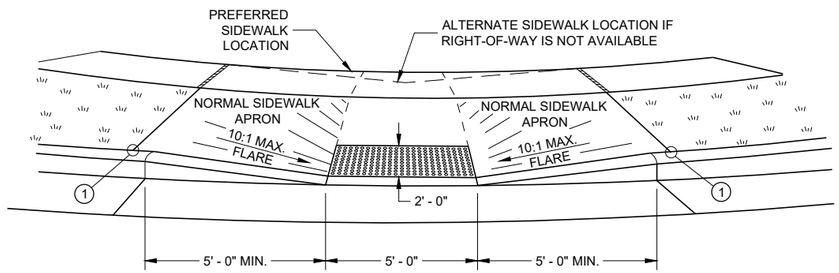
(CENTER OF CORNER RADIUS)



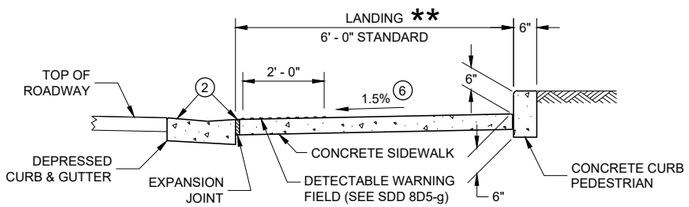
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

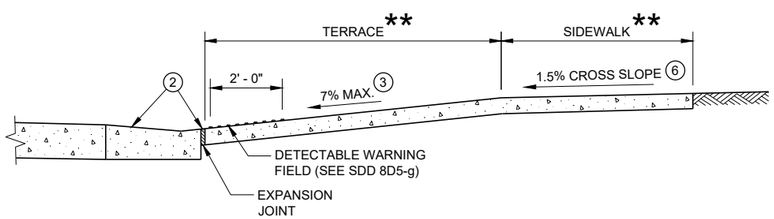


VIEW A - A FOR TYPE 1

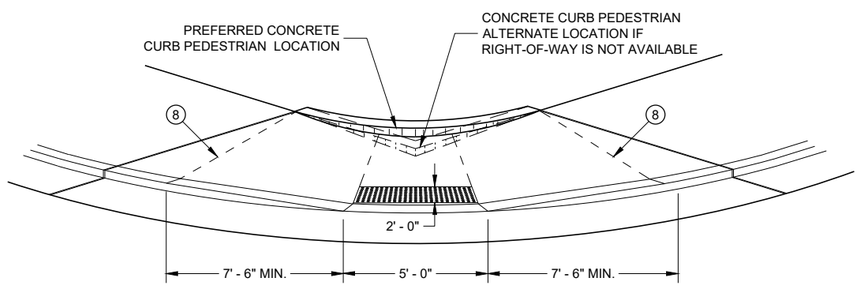


SECTION C - C FOR TYPE 1 - A

** 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

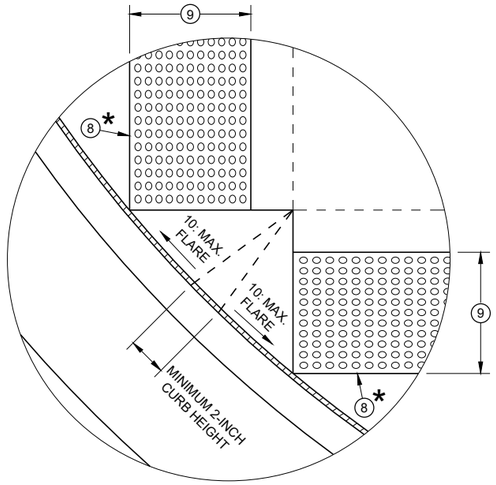
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

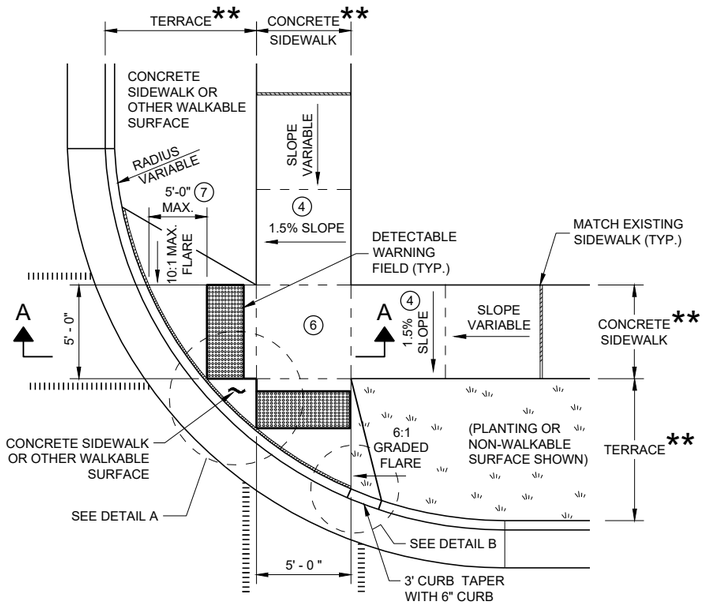
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

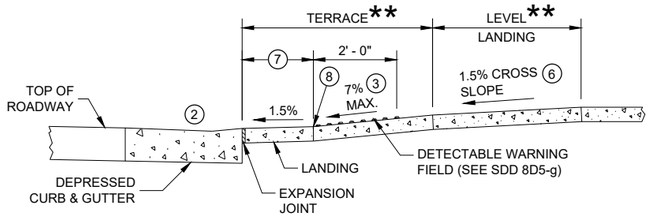
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

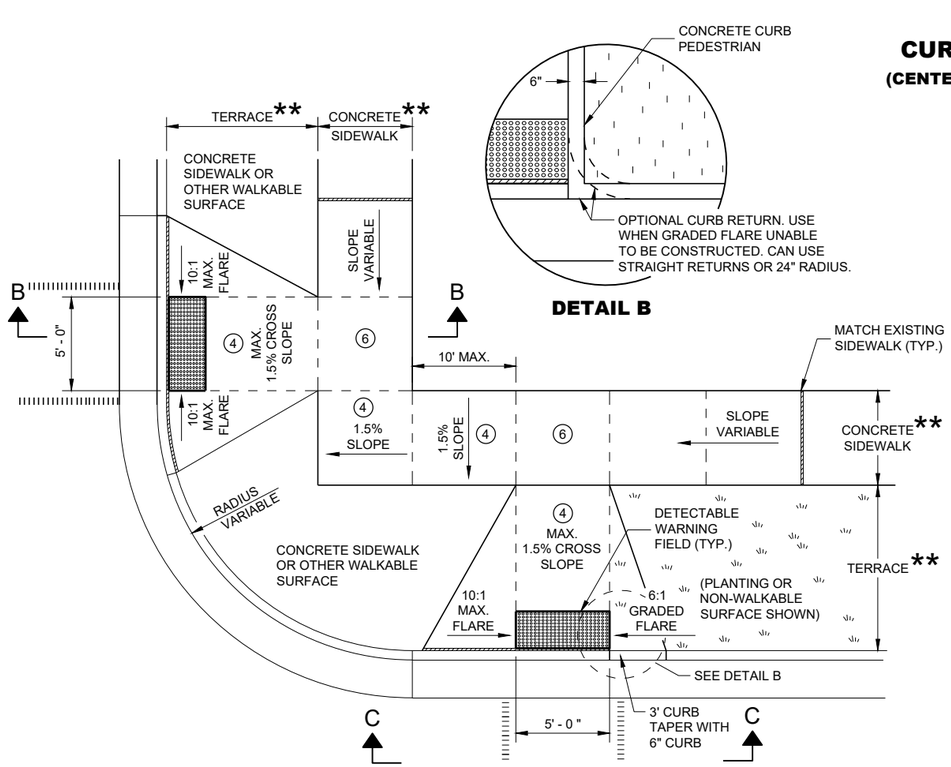
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

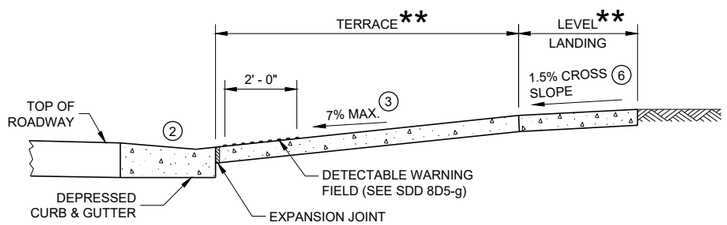
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

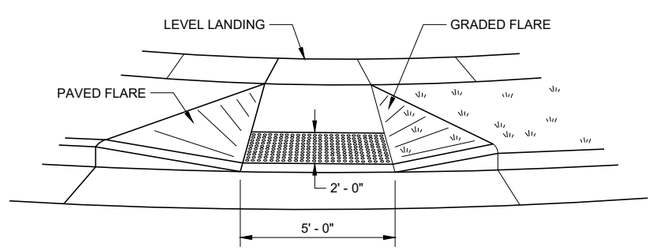
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



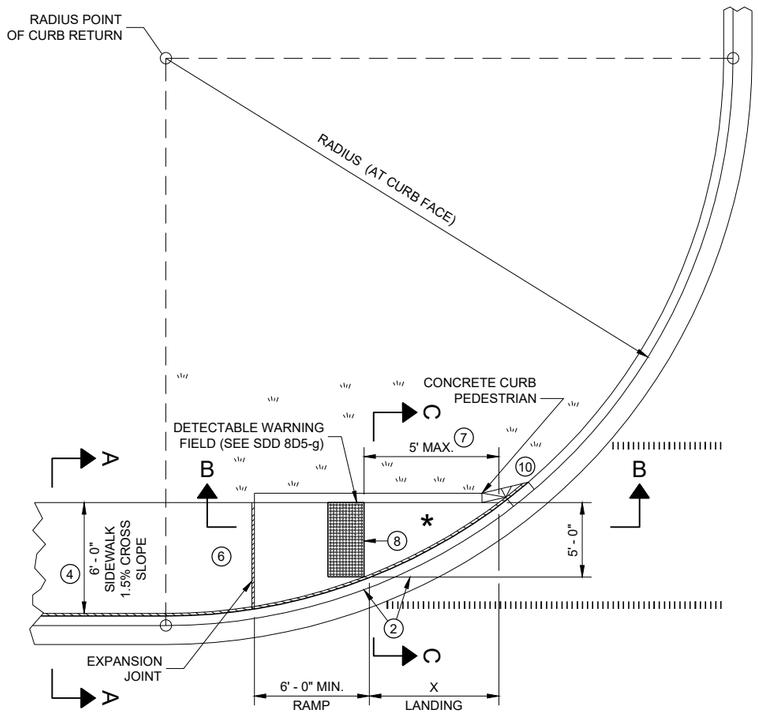
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

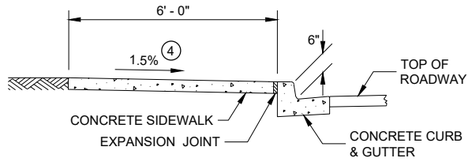


PLAN VIEW

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.

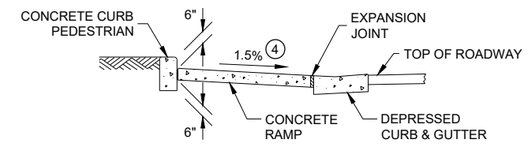
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

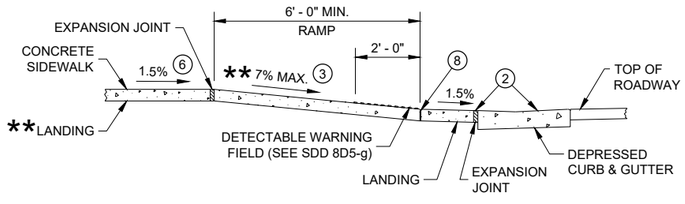
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



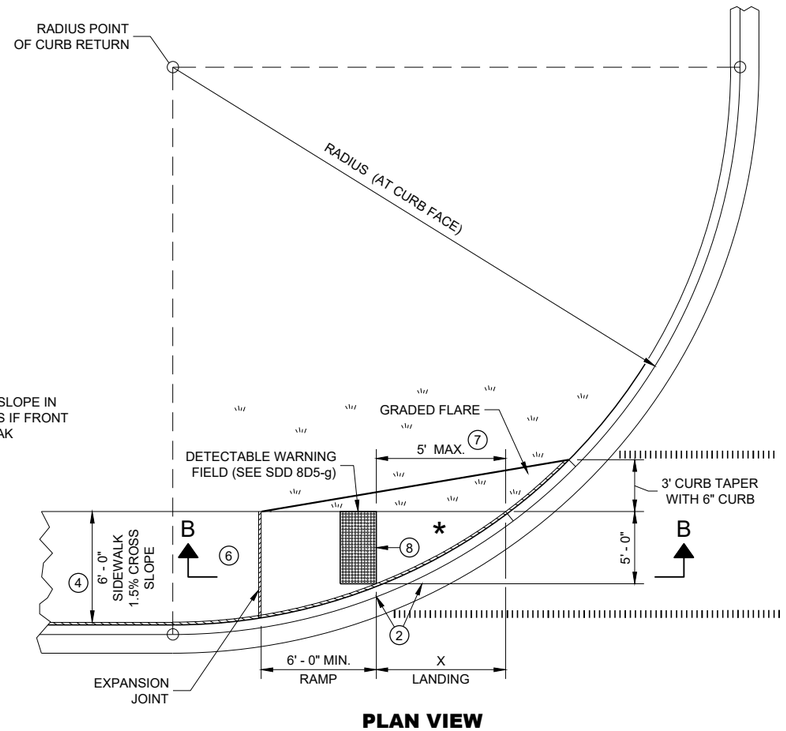
SECTION C - C FOR TYPE 4A



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

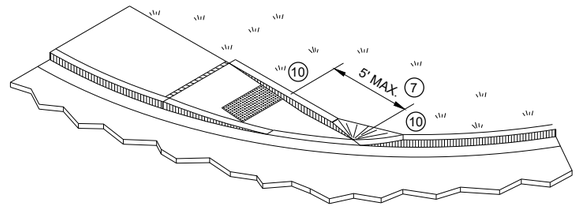
SECTION B - B FOR TYPE 4A AND TYPE 4A1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

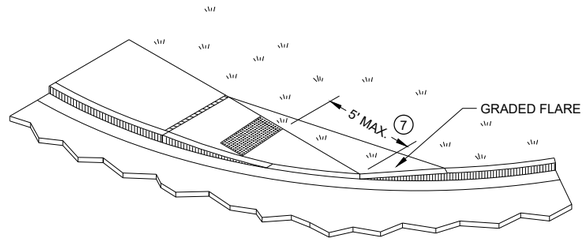


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



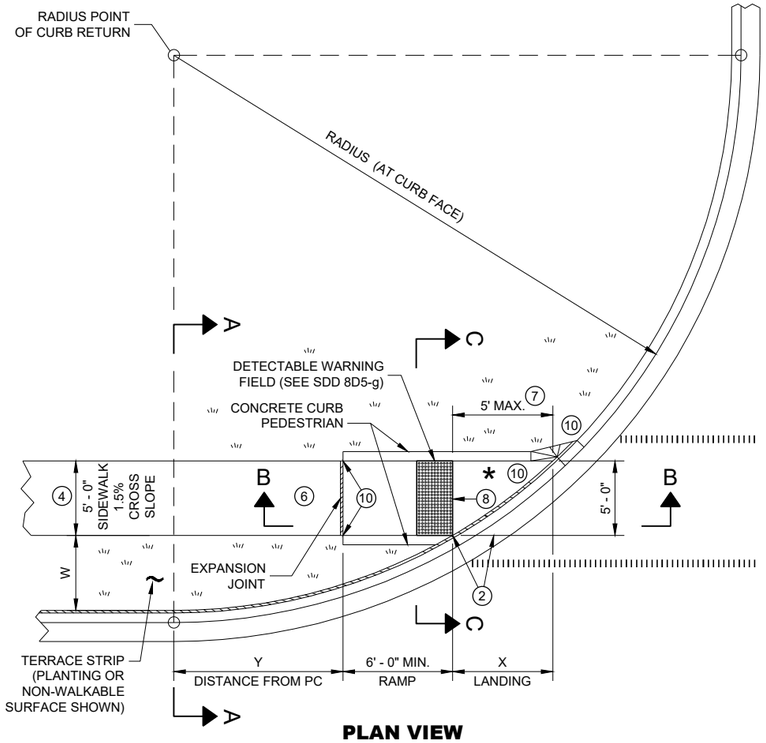
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c

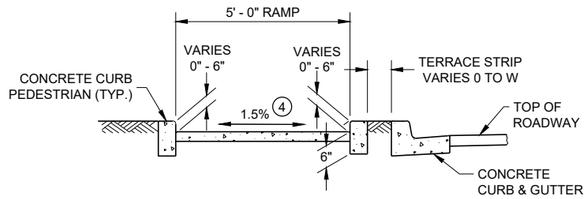


PLAN VIEW

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



SECTION C - C FOR TYPE 4B

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.

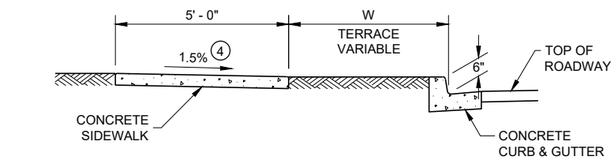
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

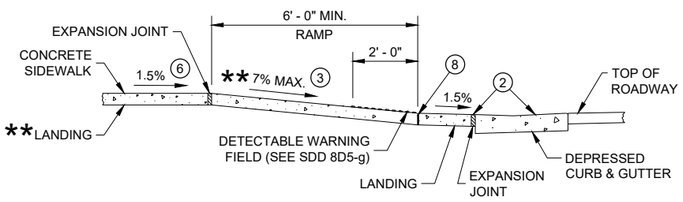
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



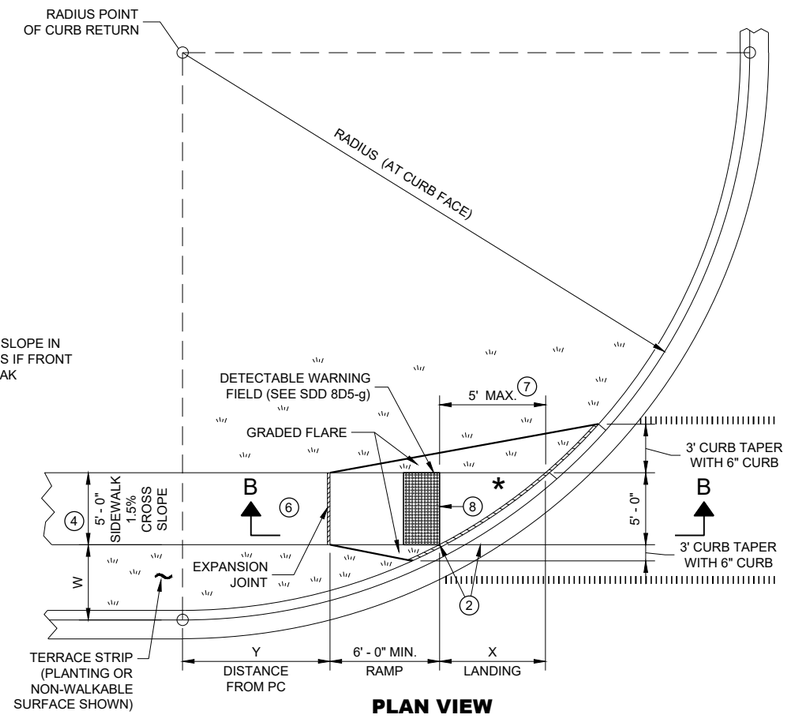
SECTION A - A FOR TYPE 4B



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

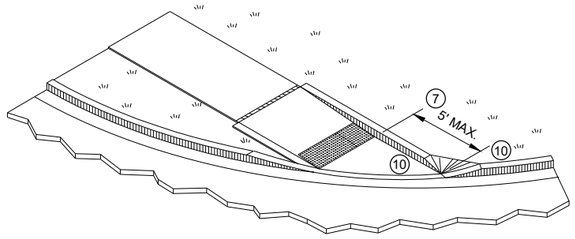
SECTION B - B FOR TYPE 4B AND TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

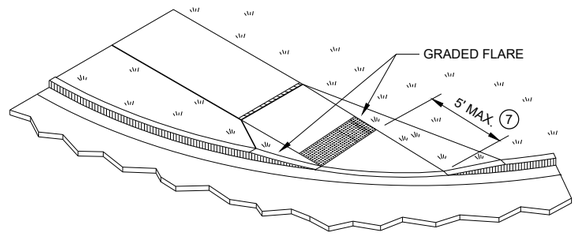


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



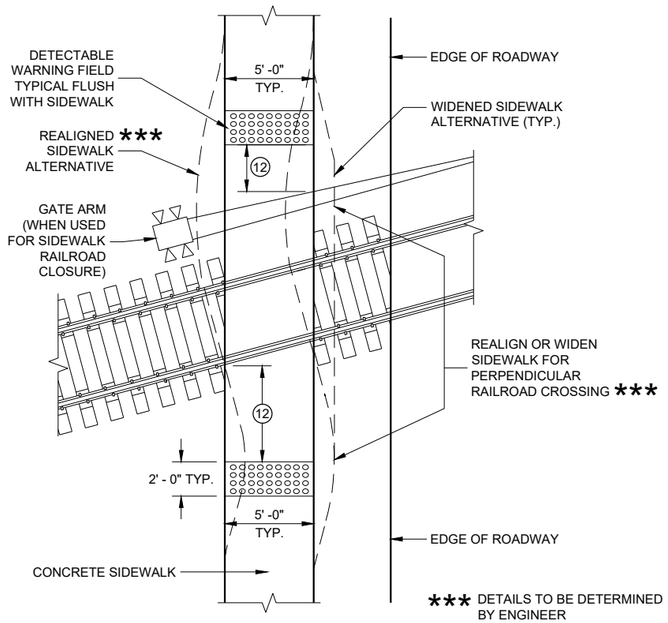
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

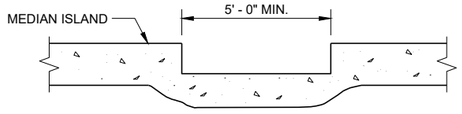
6

SDD 08D05 - 20d

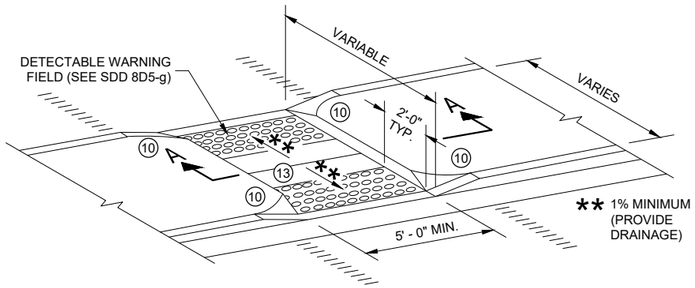


CURB RAMP TYPE 8

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 ½ - 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.

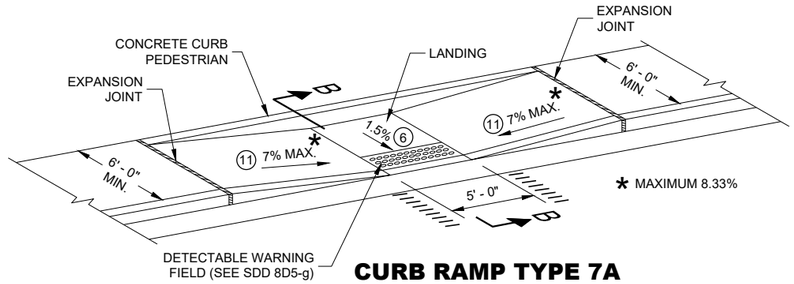
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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.

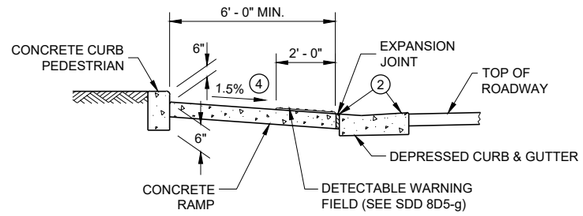
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

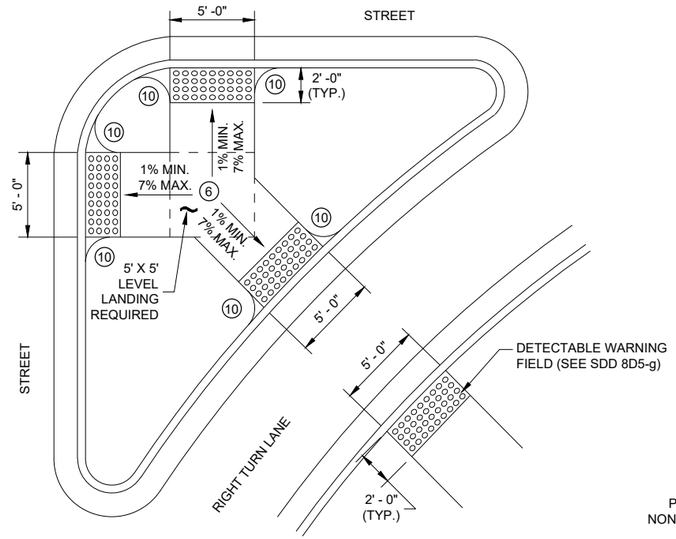


CURB RAMP TYPE 7A

MID BLOCK CROSSING



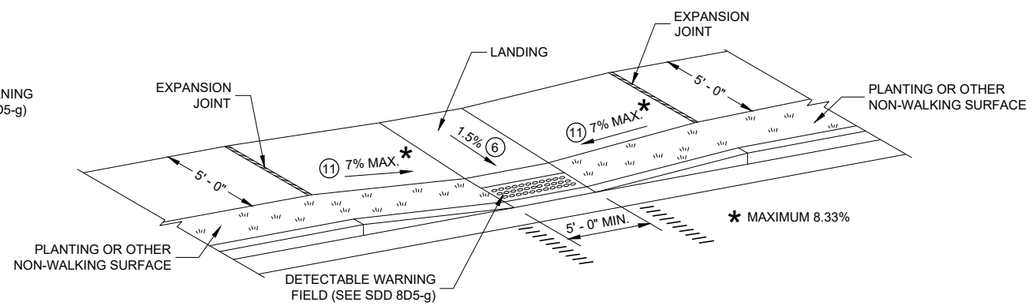
SECTION B - B FOR TYPE 7A



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

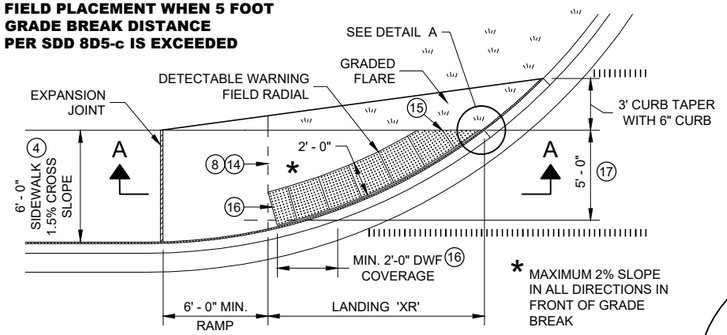
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20e
SDD 08D05 - 20e

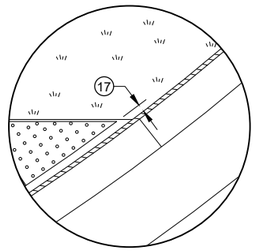
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



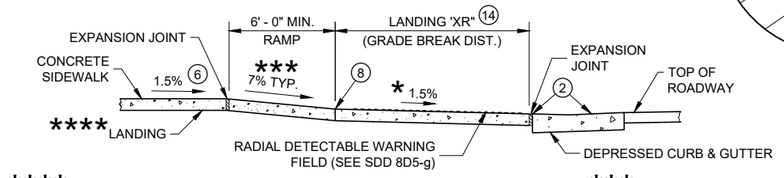
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

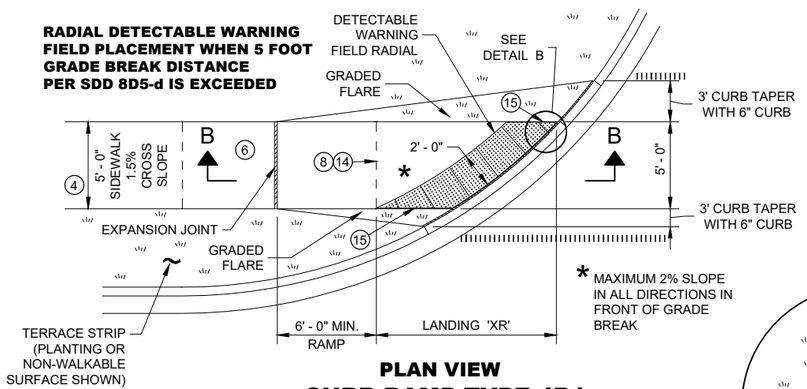


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

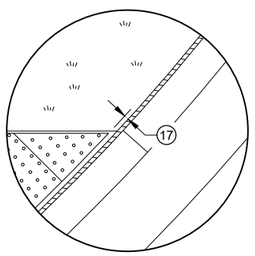
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



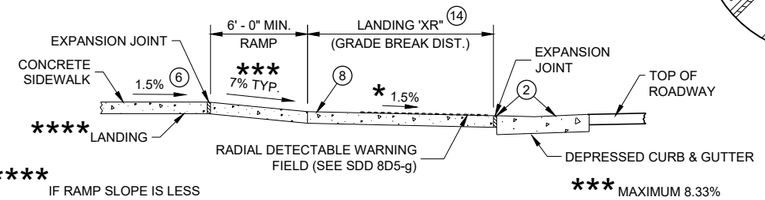
PLAN VIEW

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

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.

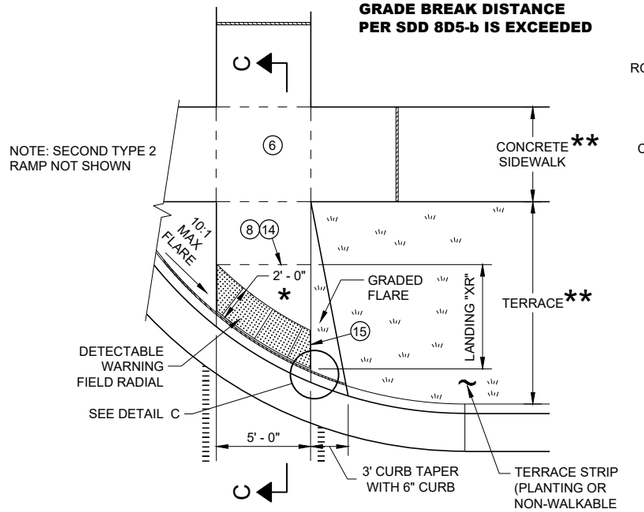
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(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-b IS EXCEEDED

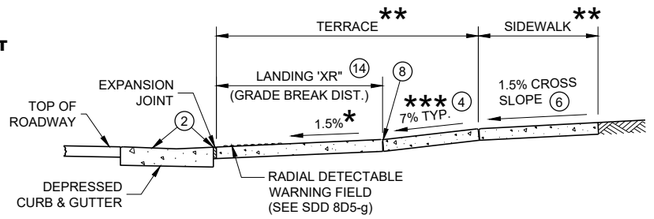


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

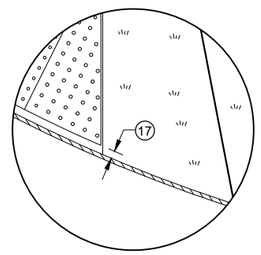


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



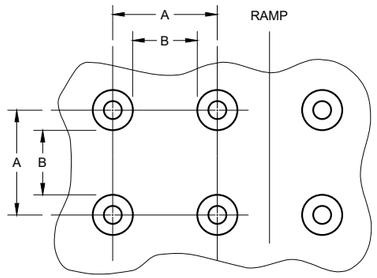
DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

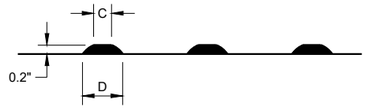
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	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.

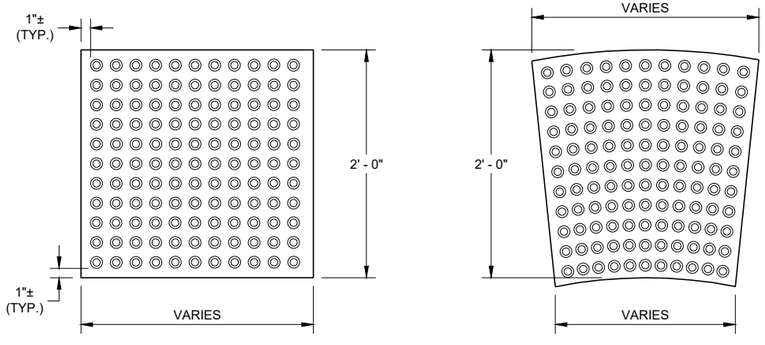


PLAN VIEW



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.

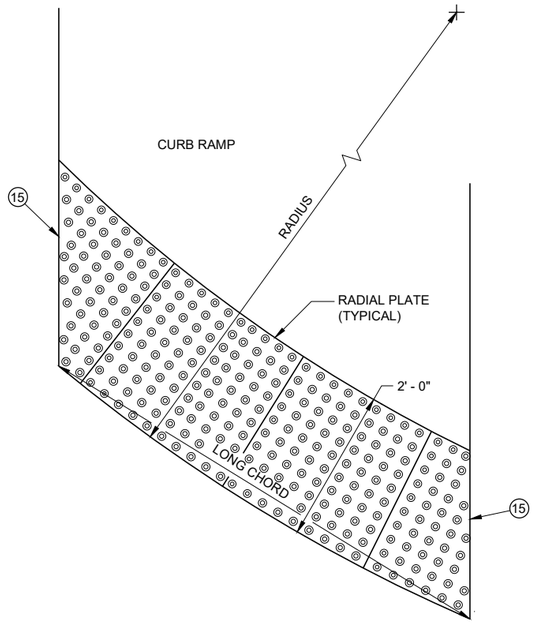
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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.

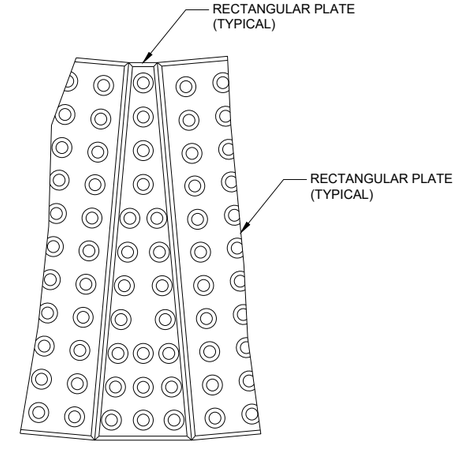
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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

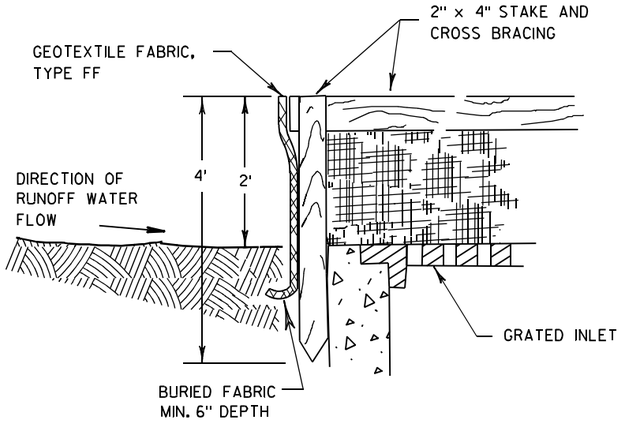
FHWA

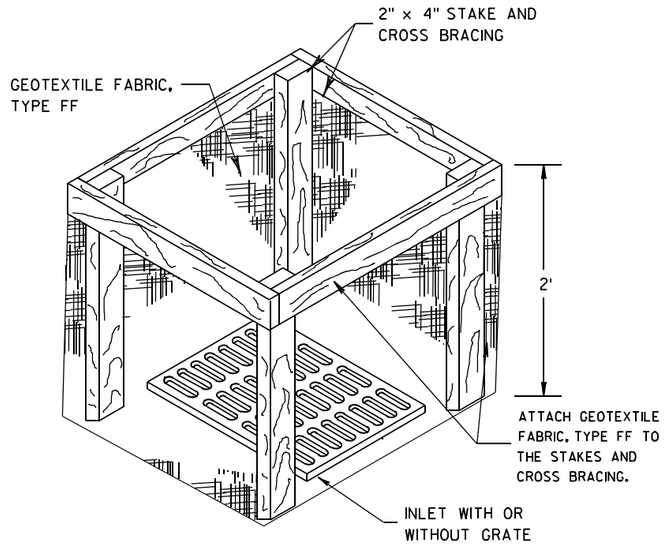
6

SDD 08D05 - 20g

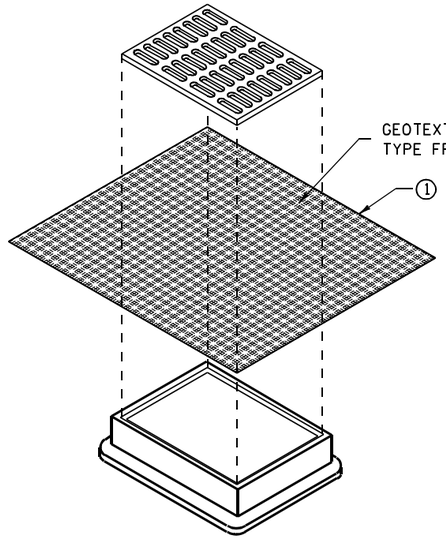
6

SDD 08D05 - 20g



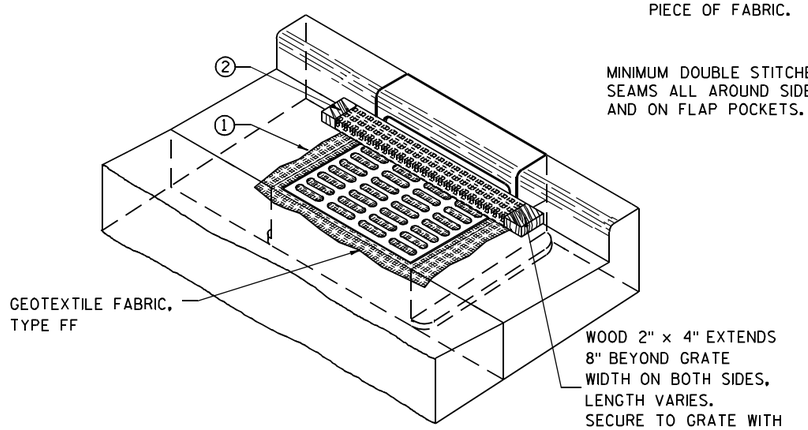


INLET PROTECTION, TYPE A

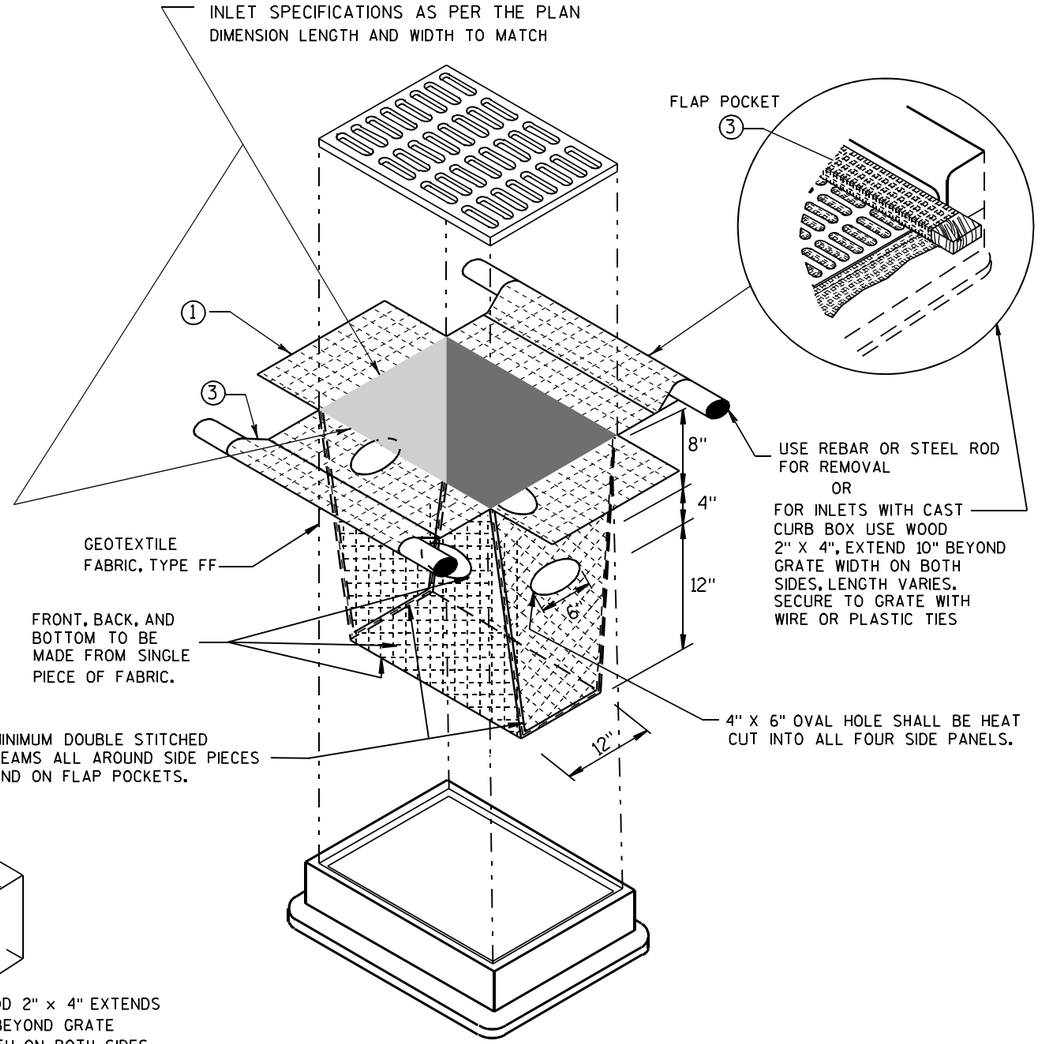


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

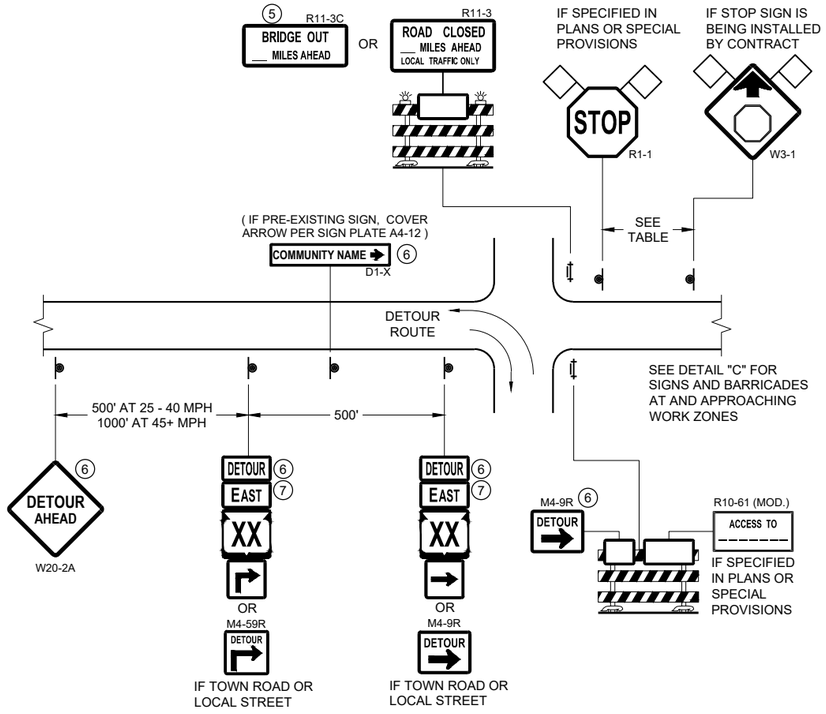
FHWA

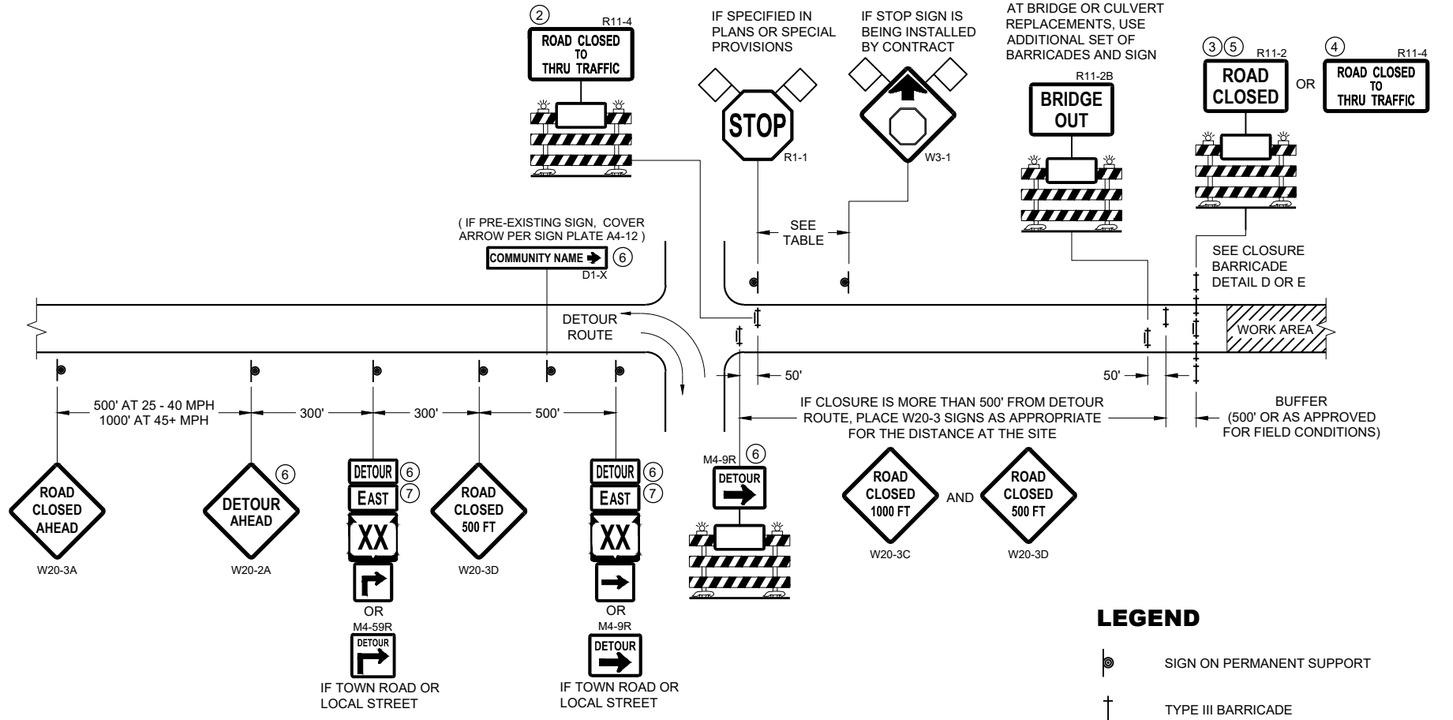
6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



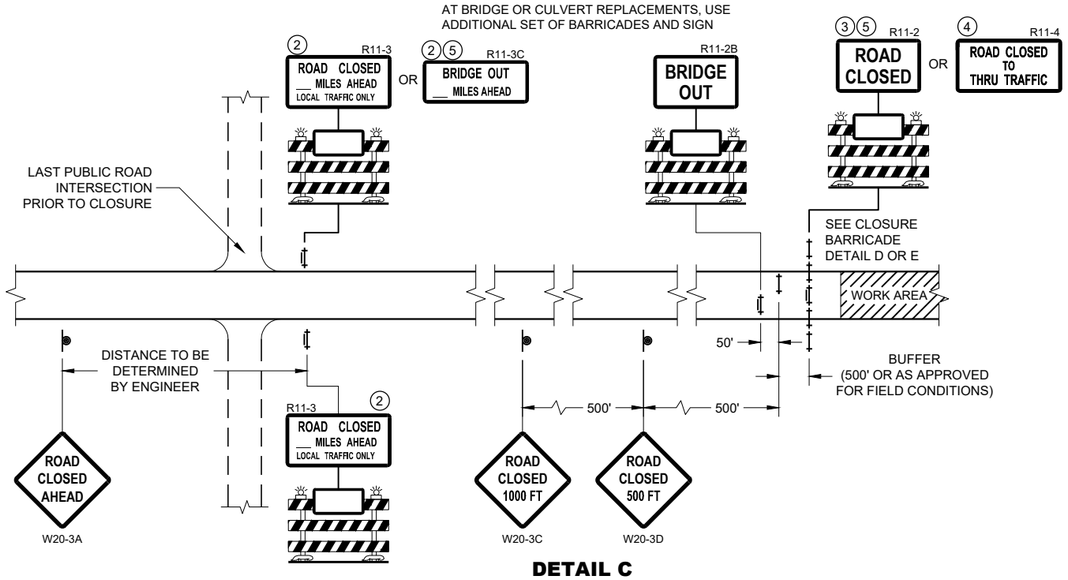


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

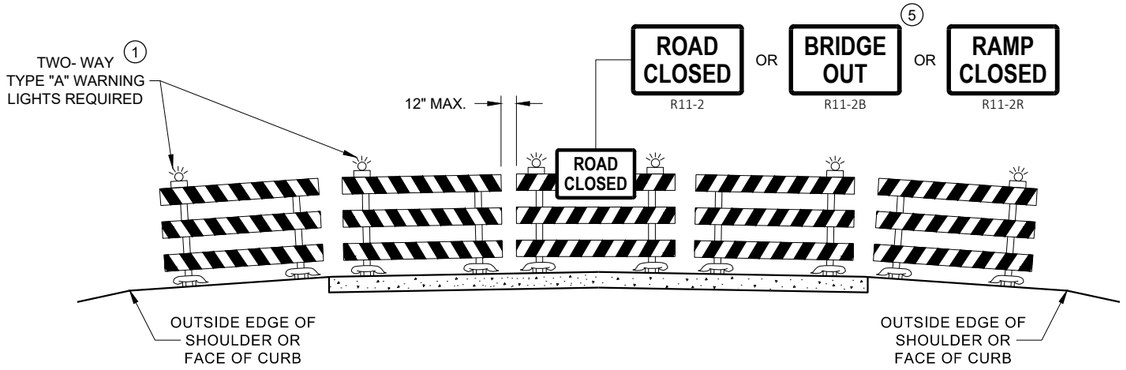
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

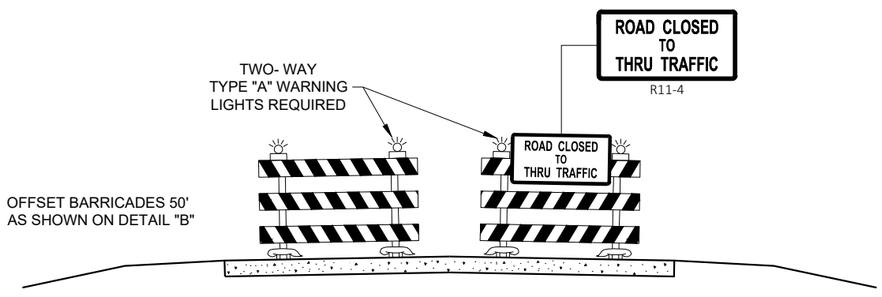
6

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

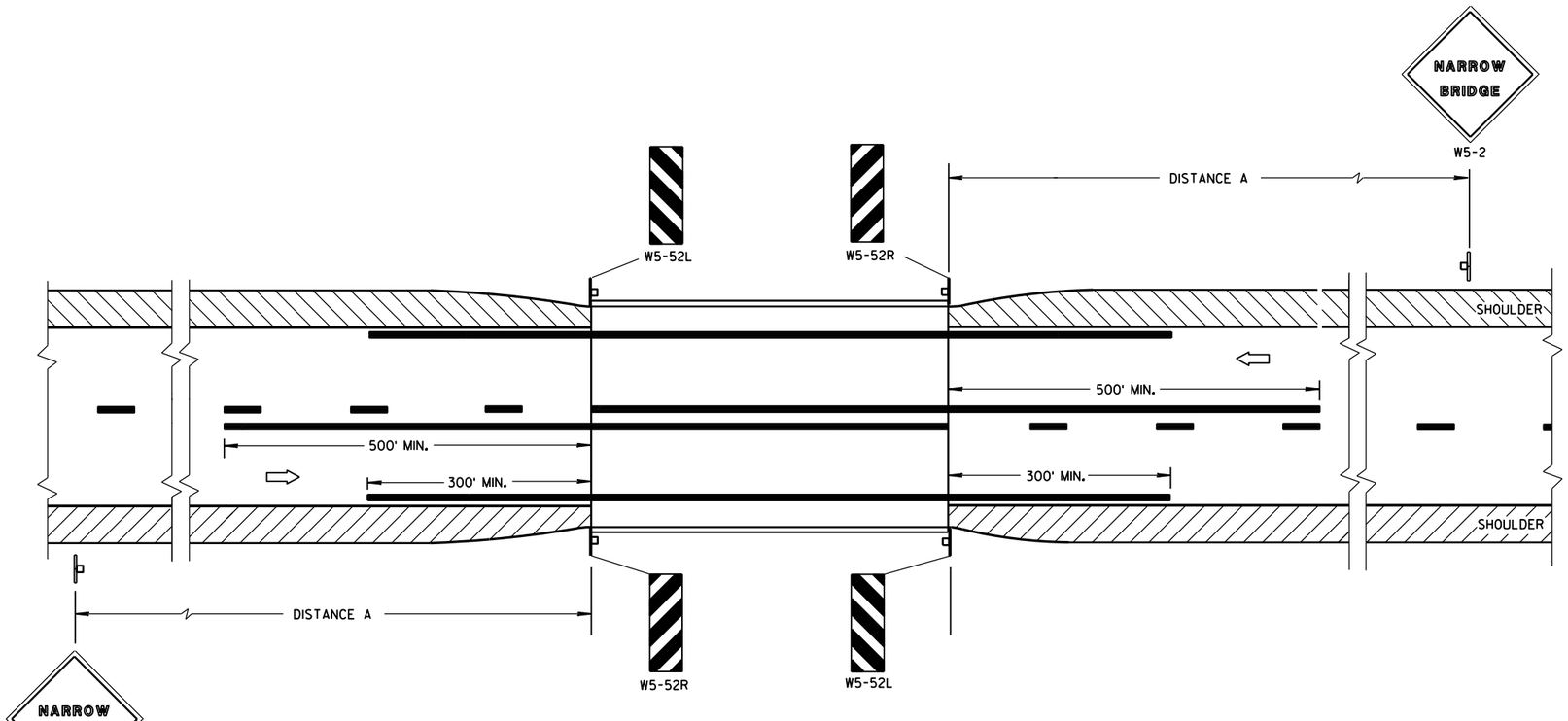
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 08b

6

SDD 15C02 - 08b



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

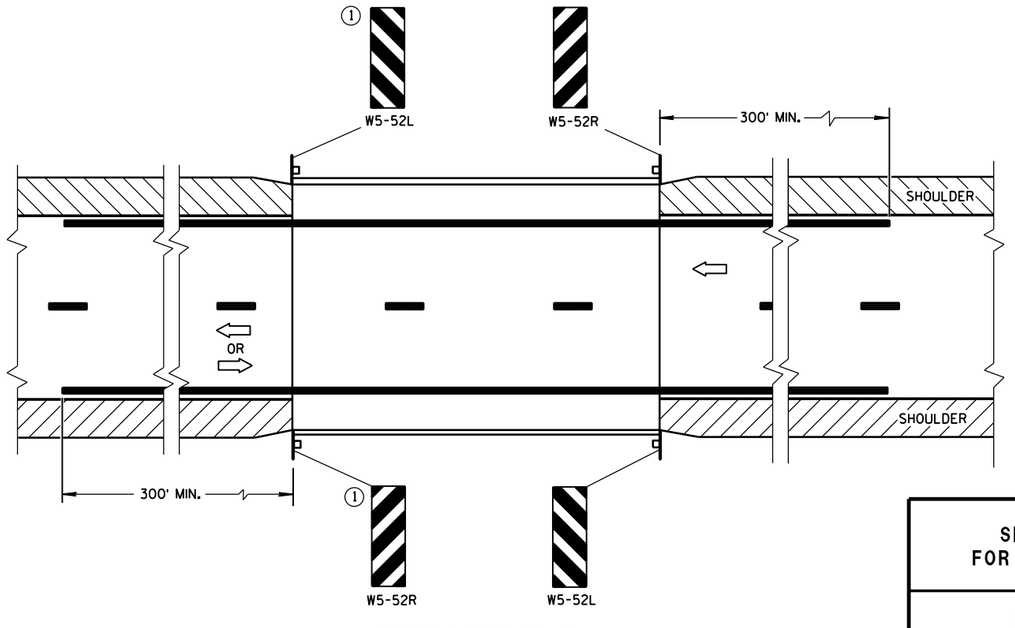
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

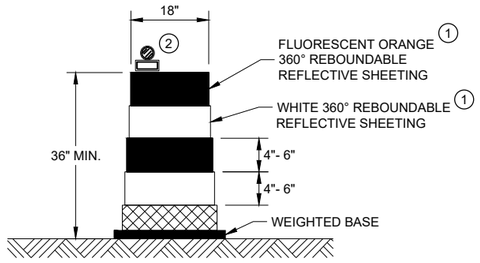
6

S.D.D. 15 C 6-9

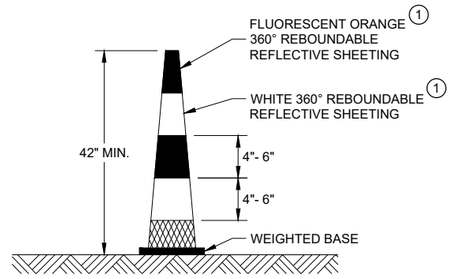
GENERAL NOTES

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

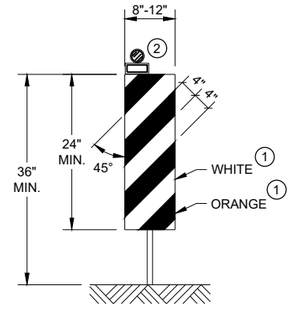


DRUM



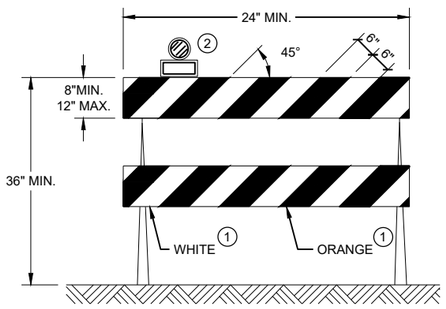
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



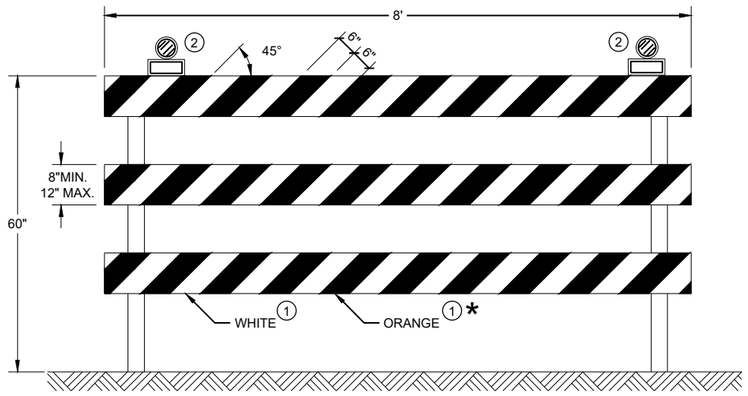
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 07b

6

SDD 15C11 - 07b

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.

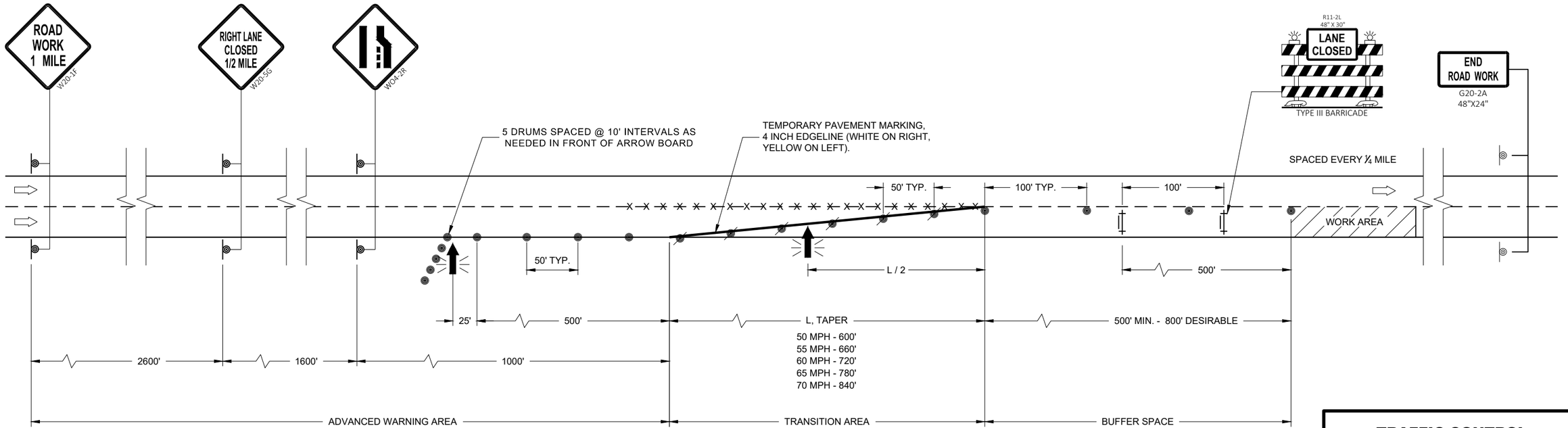
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D12 - 07a

6

SDD 15D12 - 07a

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.

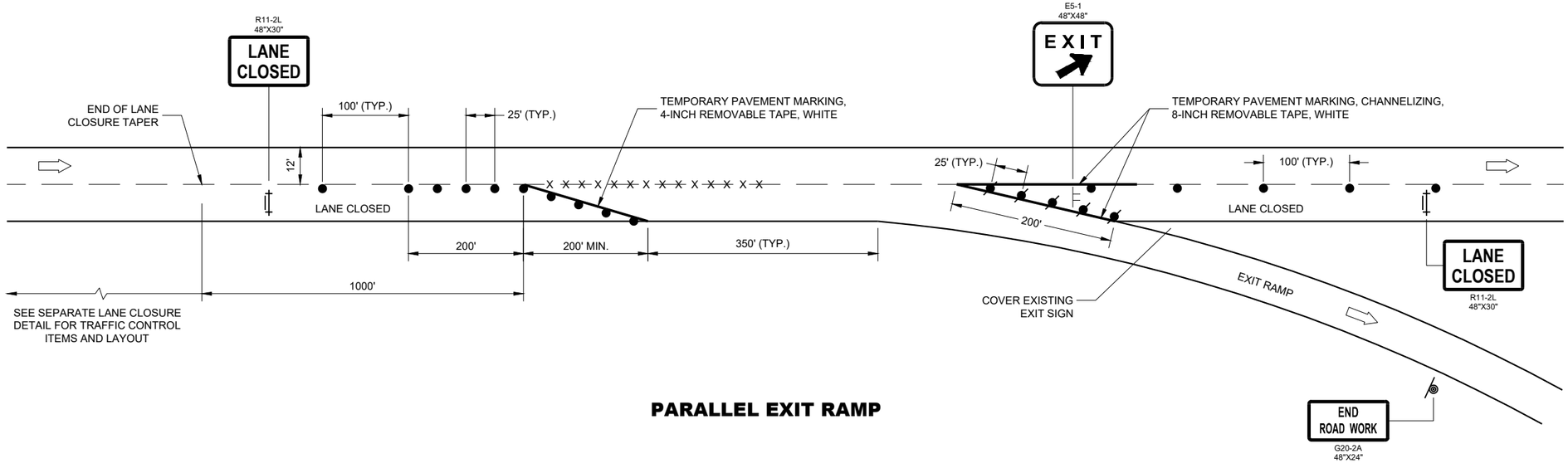
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 ENGINEE

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.

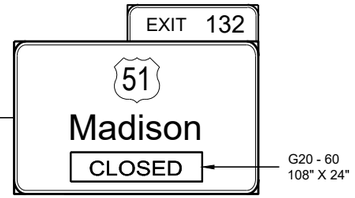
WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

* 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

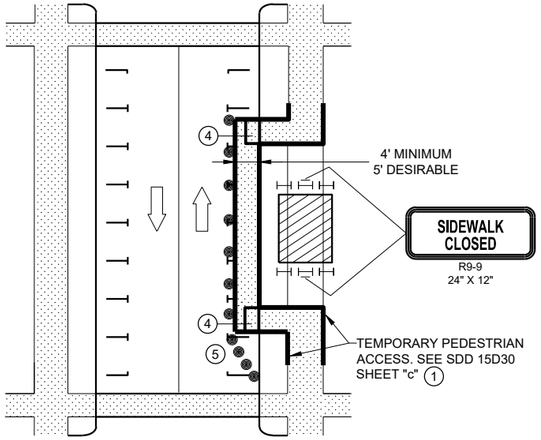
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

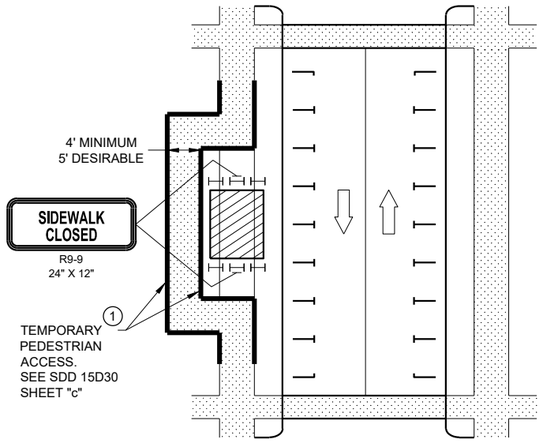
SDD 15D16 - 04

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

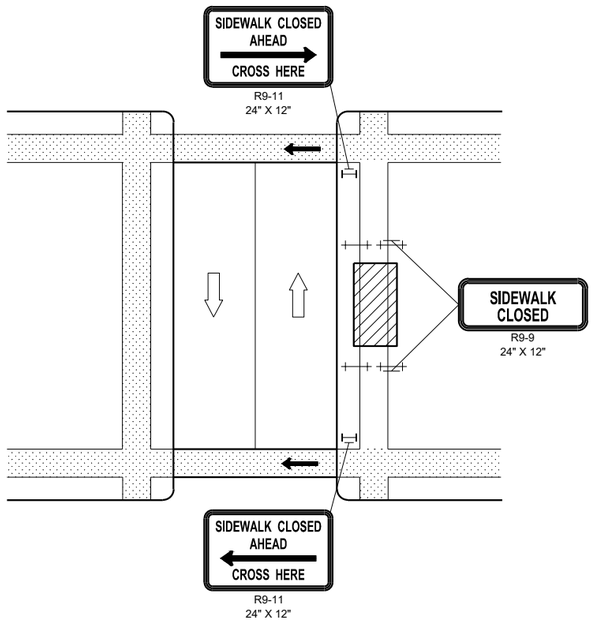


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

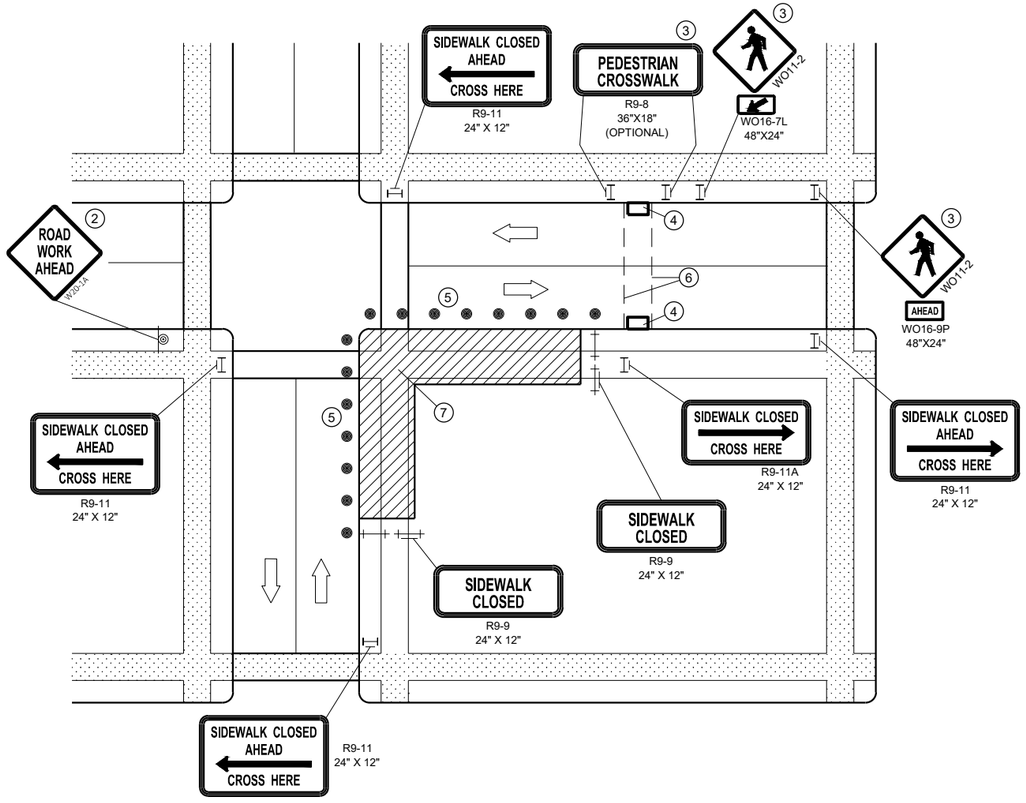
NOTE: LAYOUT SAME AS ABOVE.



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.

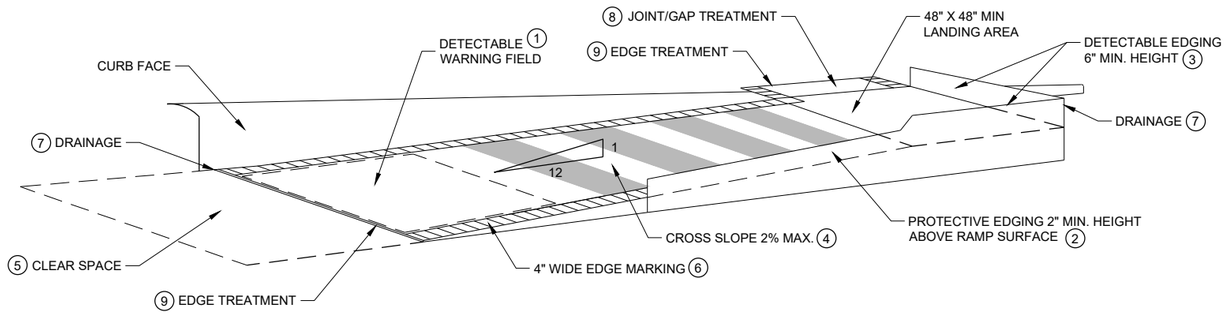
1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR 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

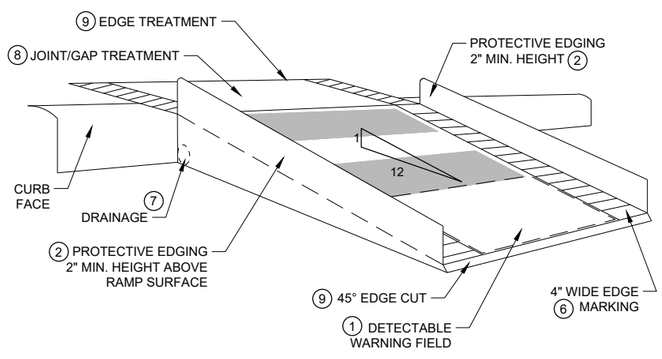
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

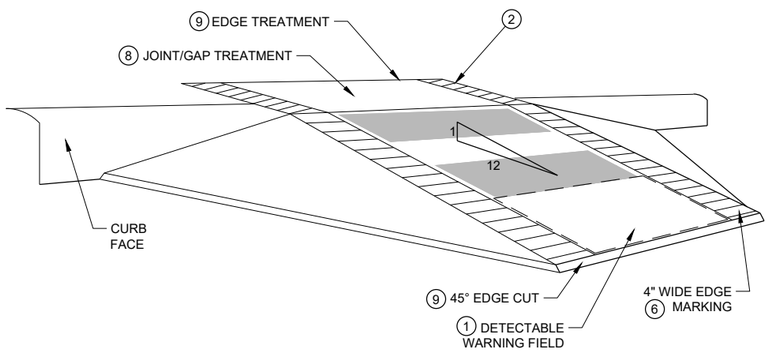
6
SDD15D30 - 06a



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

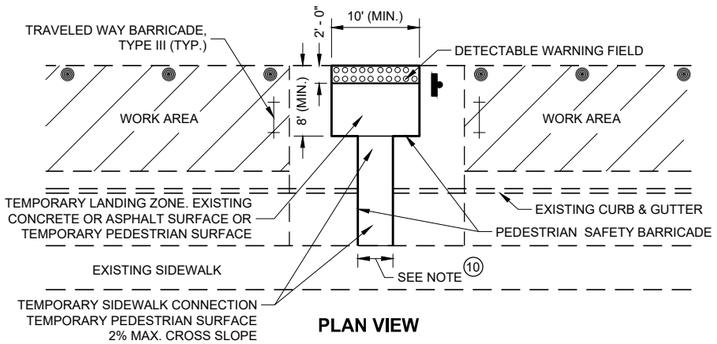
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

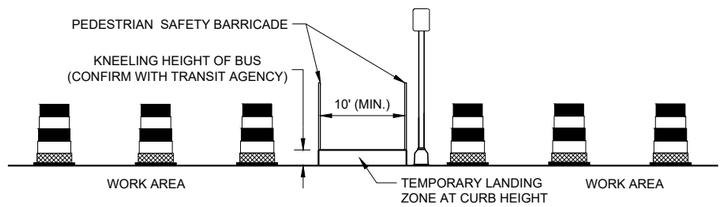
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

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

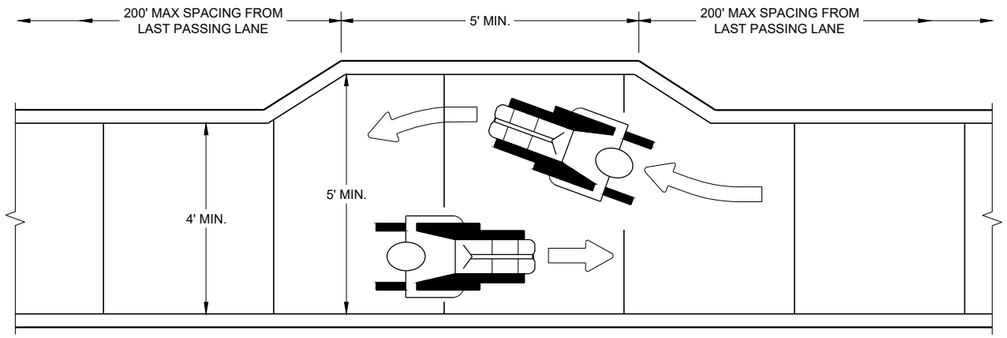
LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

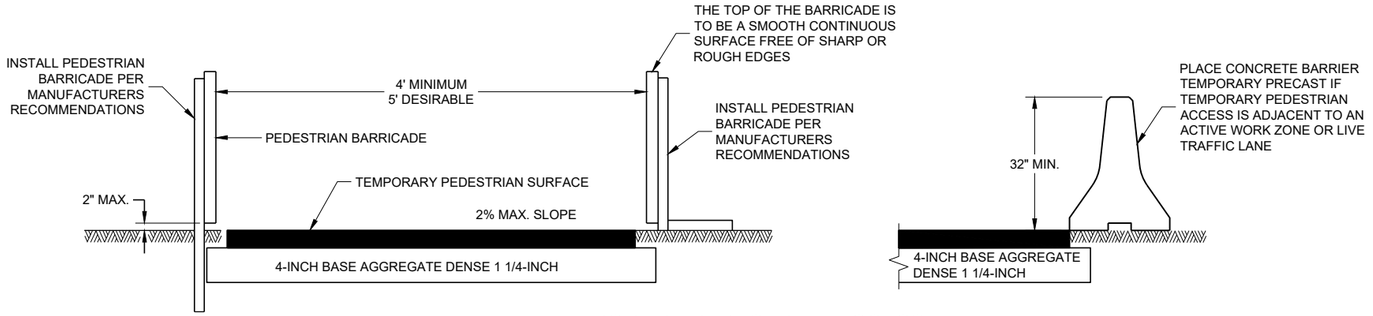
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

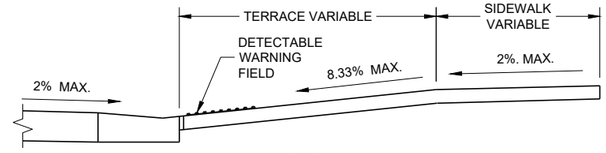
6
SDD 15D30 - 06b



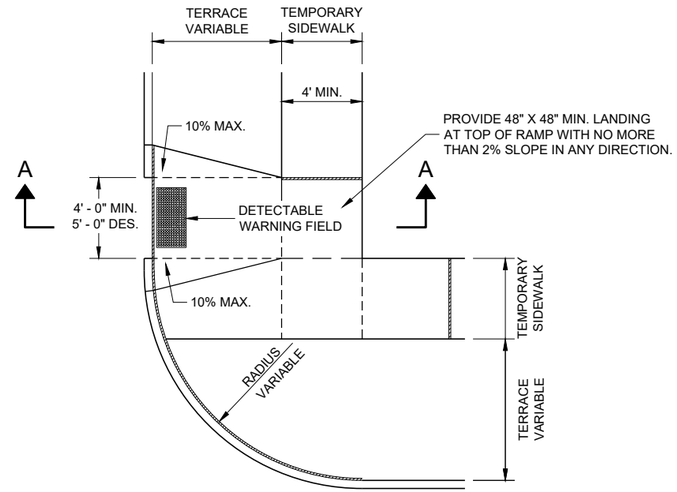
NARROW SIDEWALK PASSING DETAIL



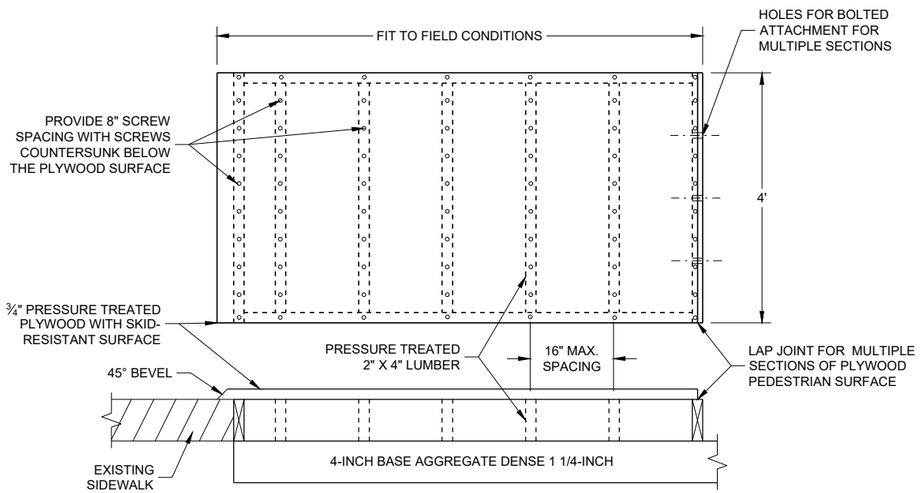
TEMPORARY PEDESTRIAN ACCESS



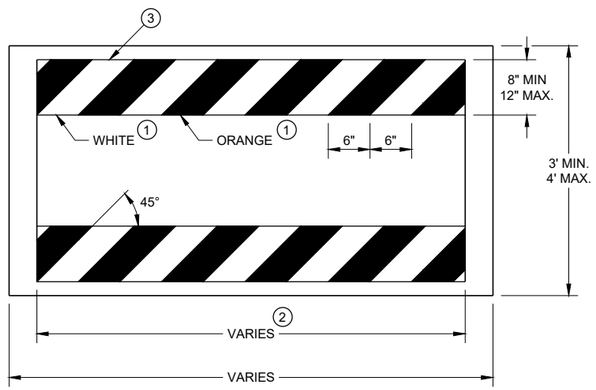
SECTION A - A



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

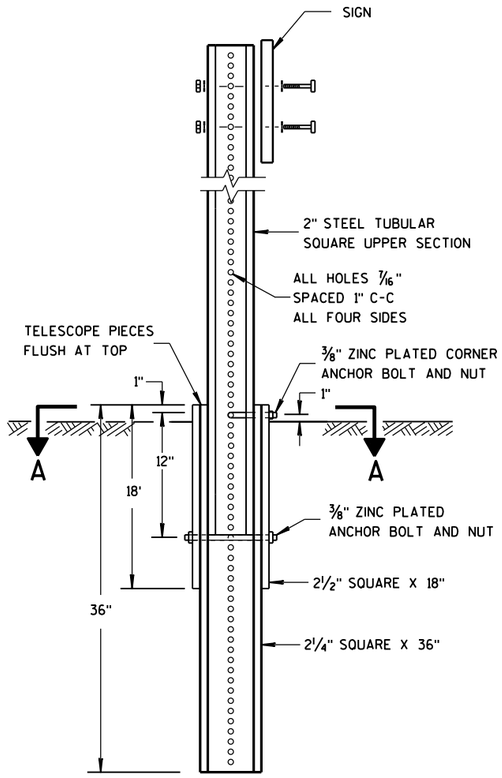
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

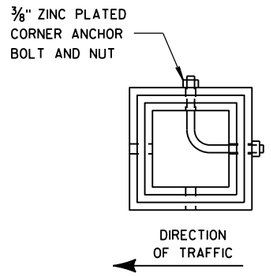
SDD 15D30 - 06c

6

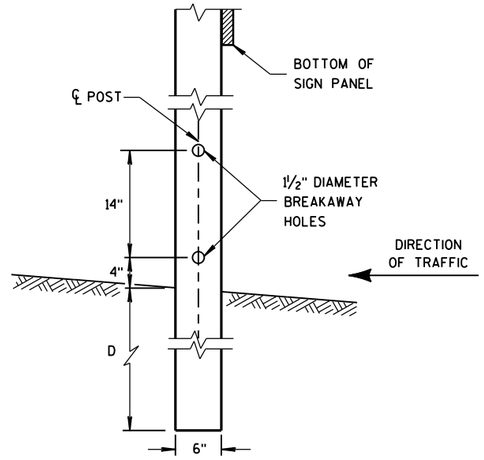
SDD 15D30 - 06c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



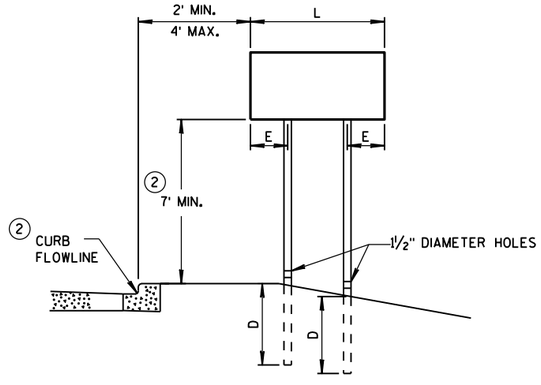
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

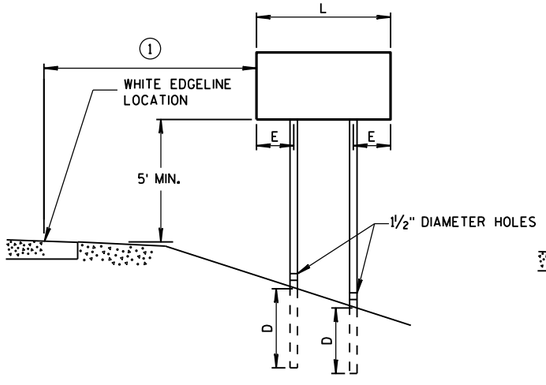
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

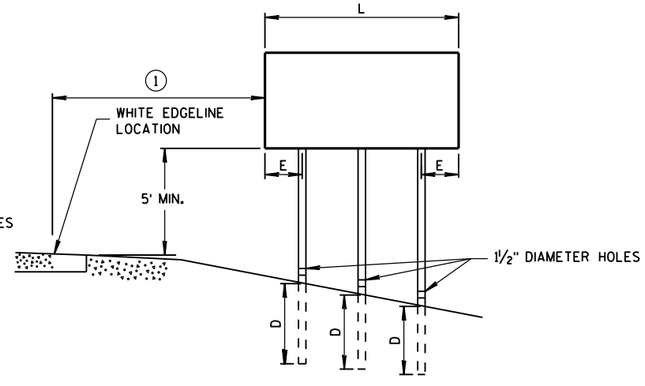
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

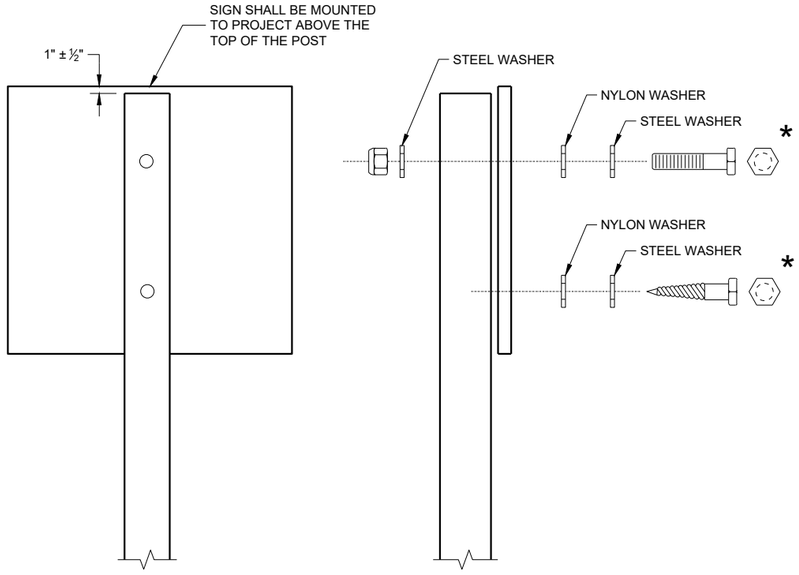
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

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.

6

6

SDD 15D38 - 02b

SDD15D38 - 02b

ATTACHMENT OF SIGNS TO POSTS

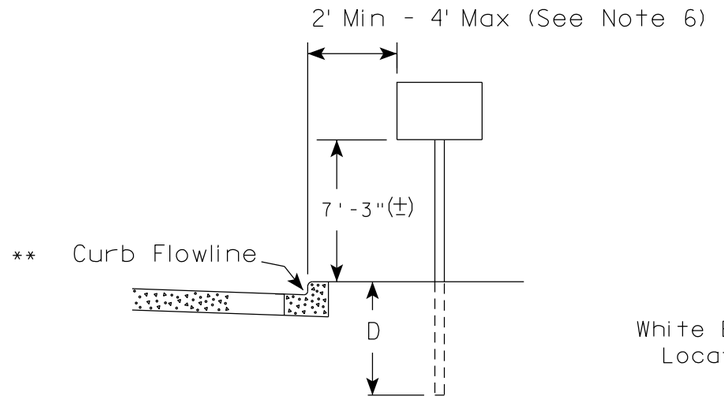
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

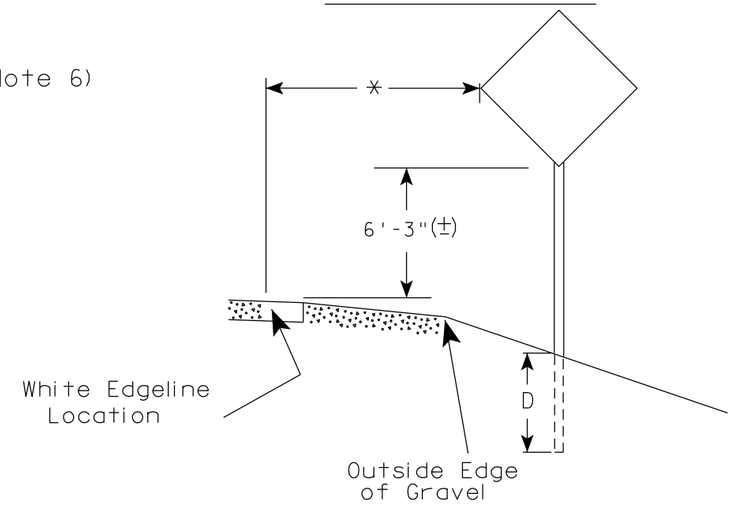
/S/ Andrew Heidtke
WORK ZONE ENGINEE

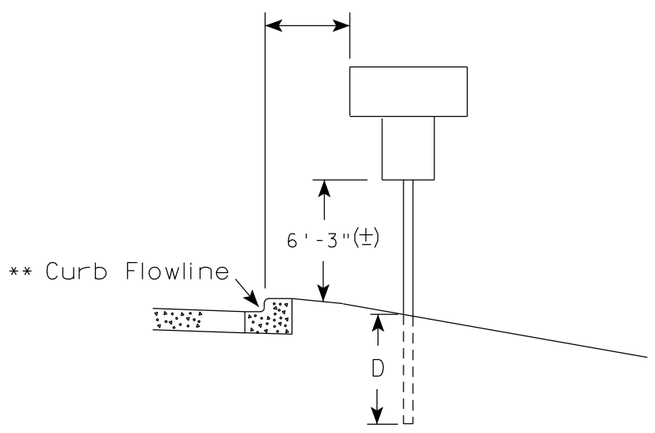
FHWA

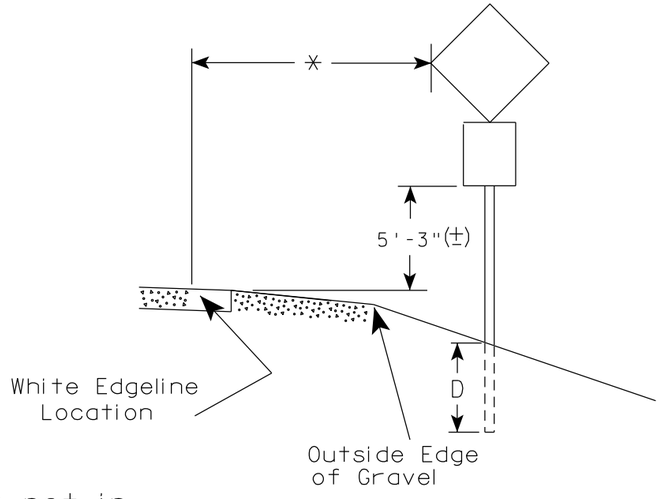
URBAN AREA



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.

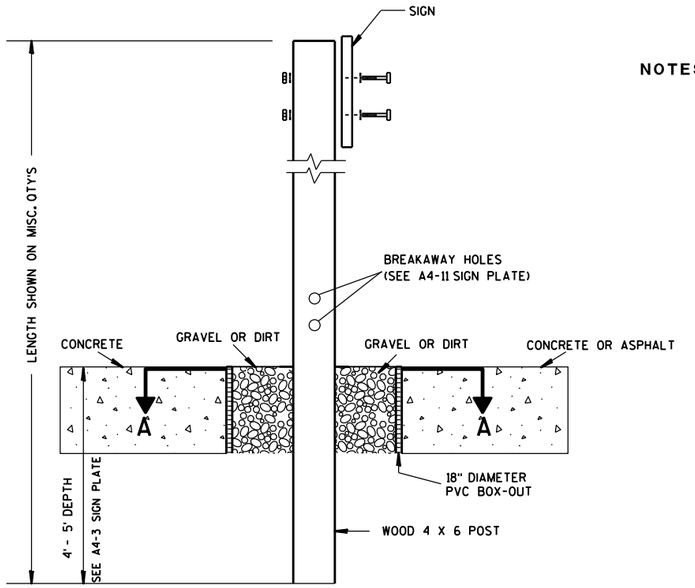
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

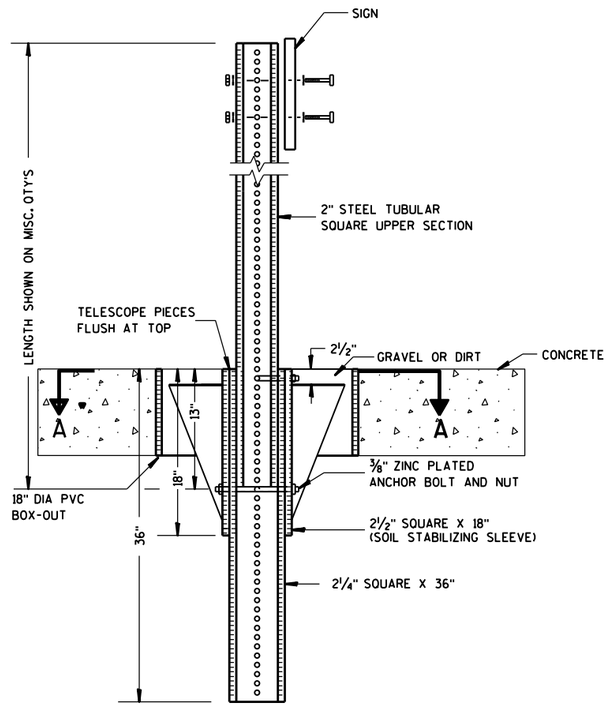
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 57	E



ELEVATION VIEW

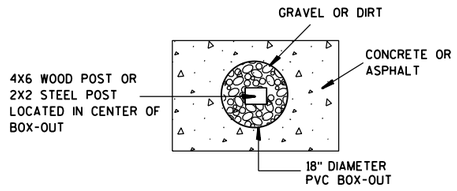
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

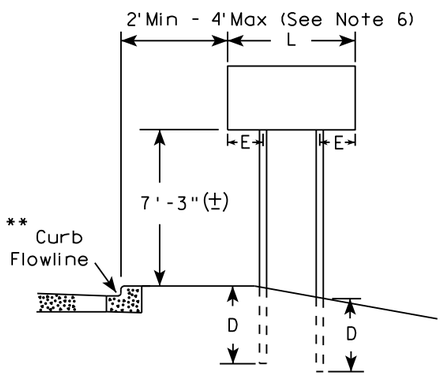
APPROVED Matthew R Rauch
for State Traffic Engineer

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

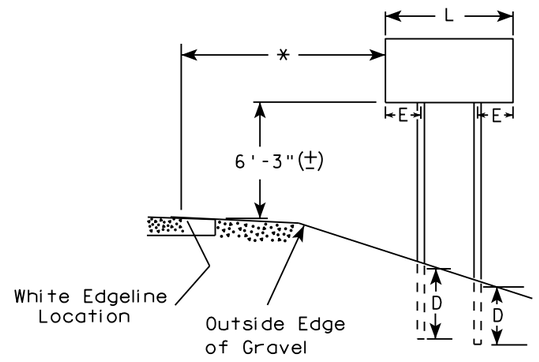
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

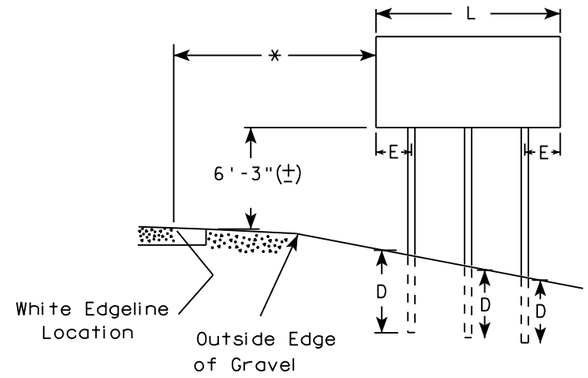
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

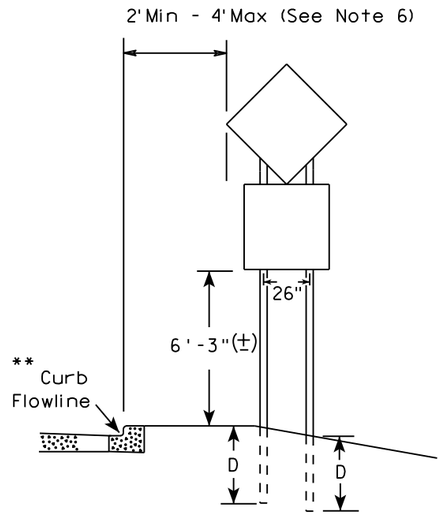
URBAN AREA



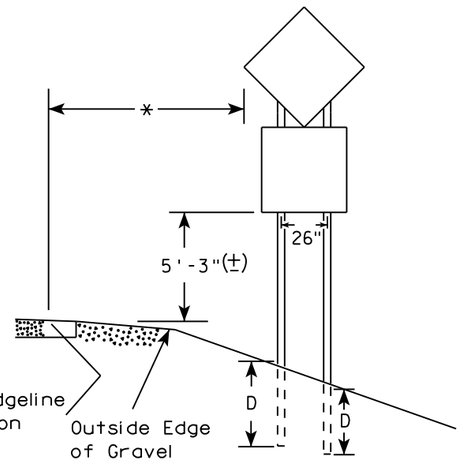
RURAL AREA (See Note 3)







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'

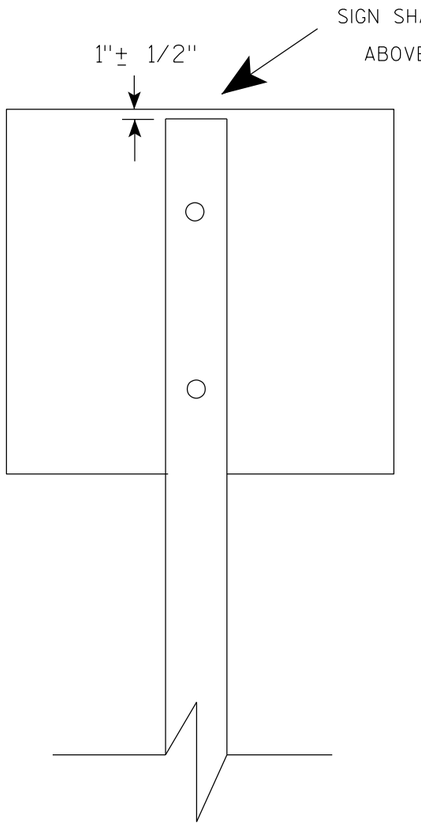
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

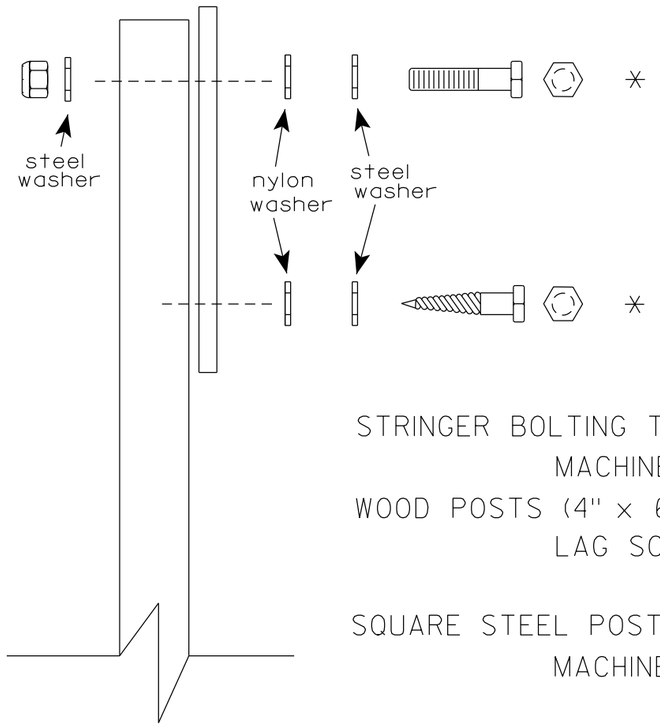
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 59	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

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

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

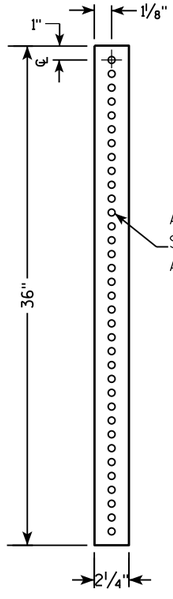
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

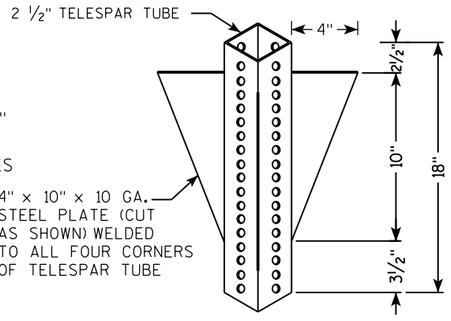
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

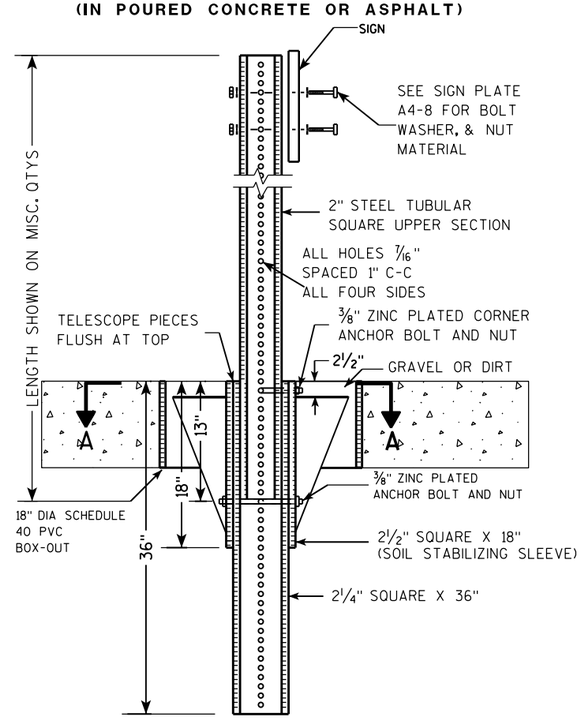
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



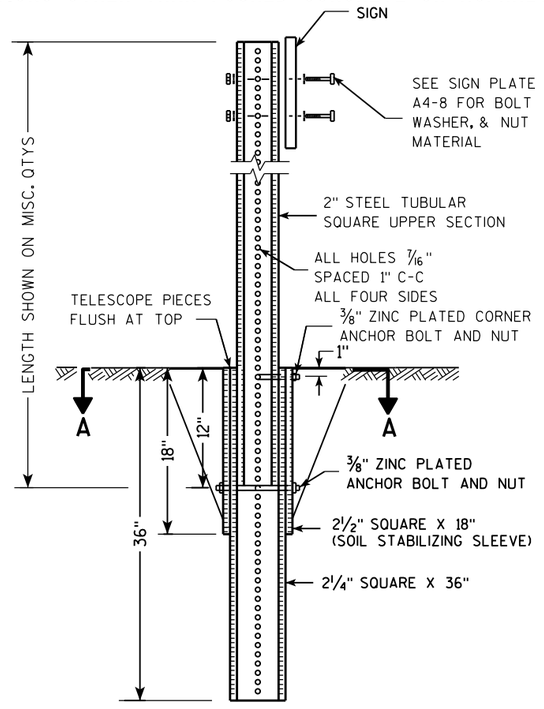
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

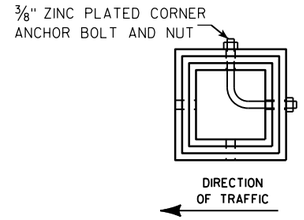


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

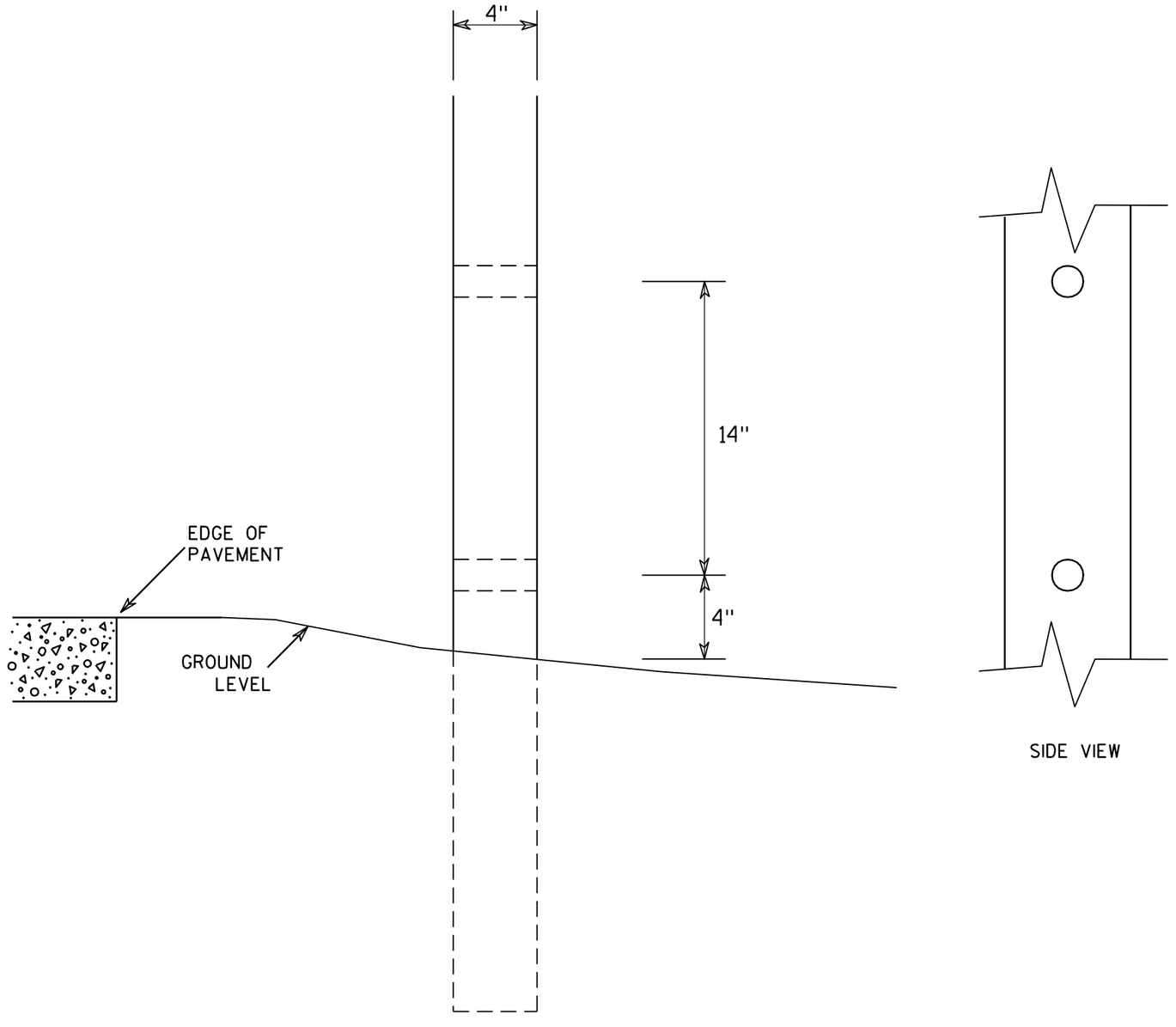
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 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

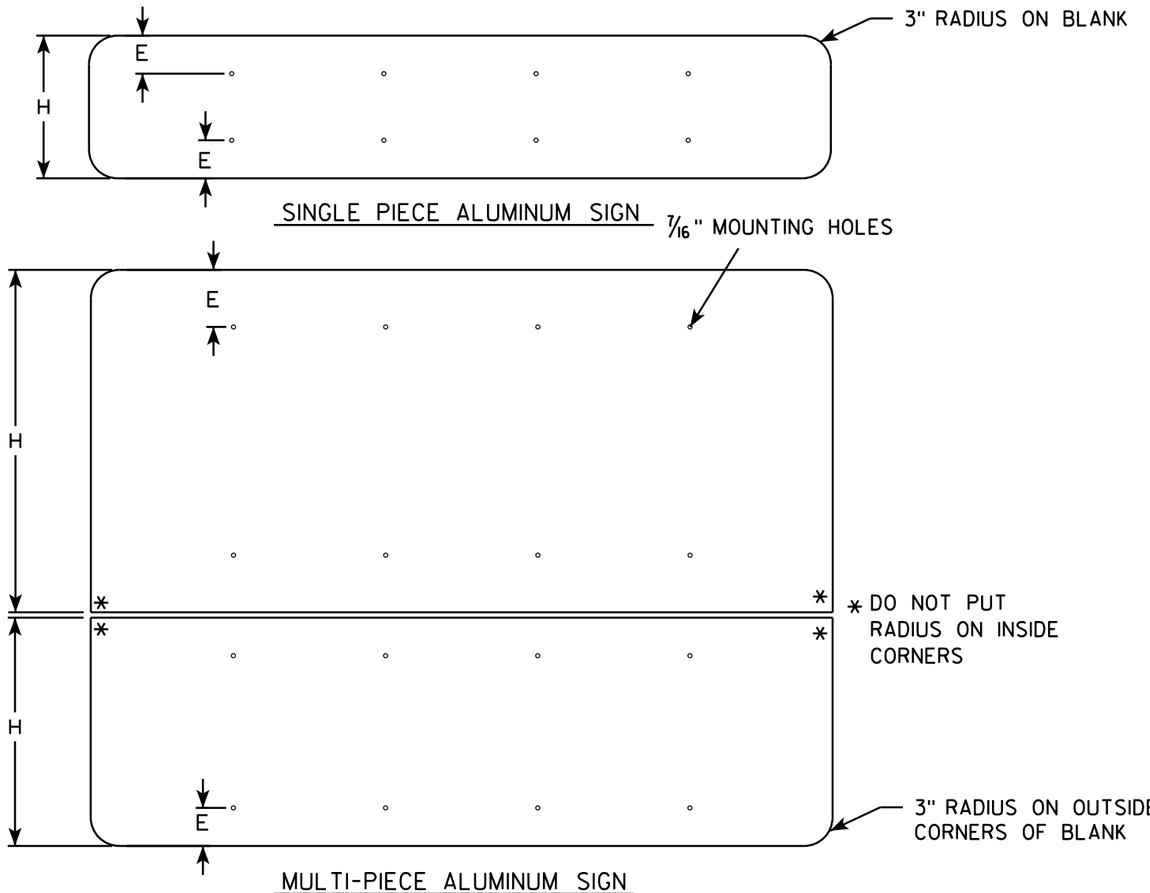
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

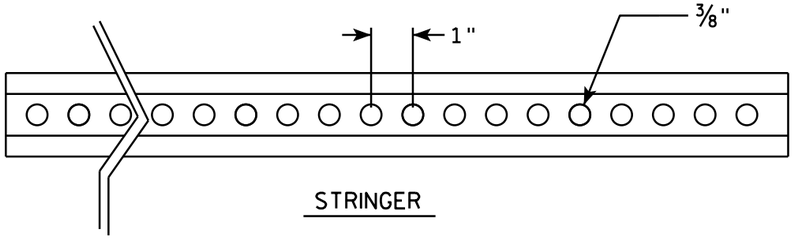
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 62	E



GENERAL NOTES

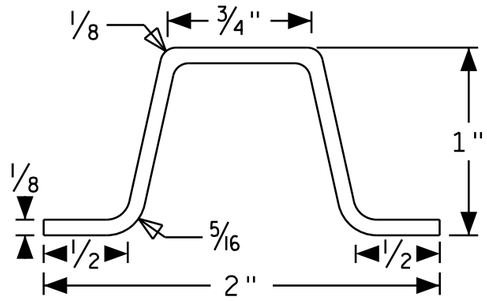
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 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"

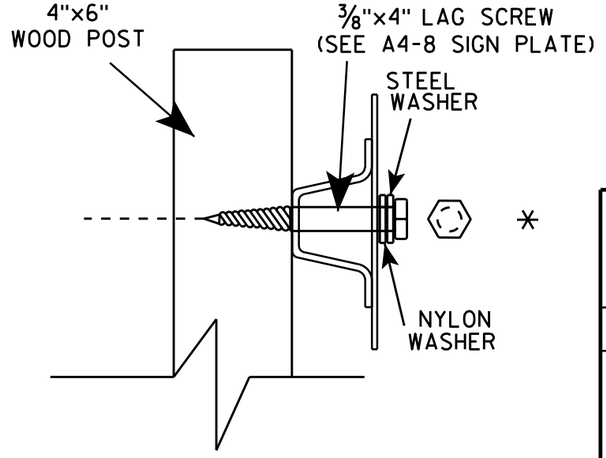


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

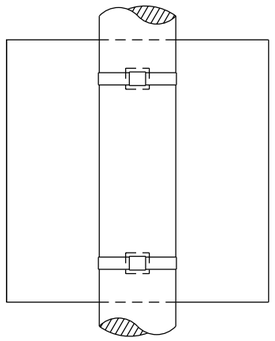
DATE 4/26/16 PLATE NO A4-18.1

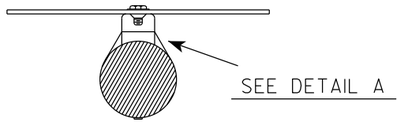
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

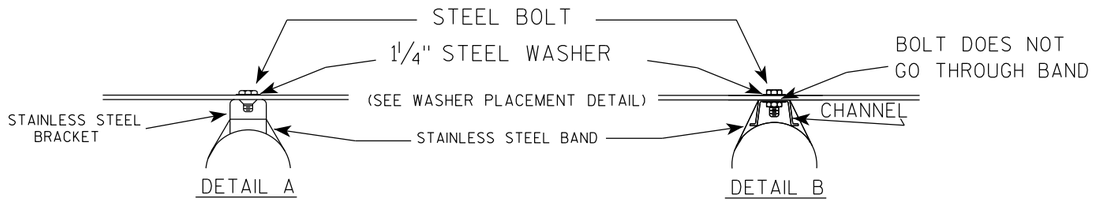
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

SINGLE SIGN



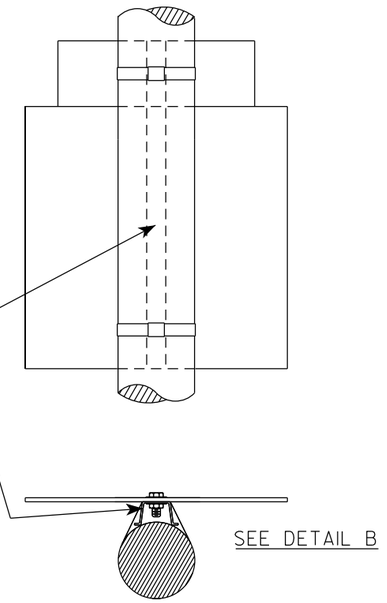




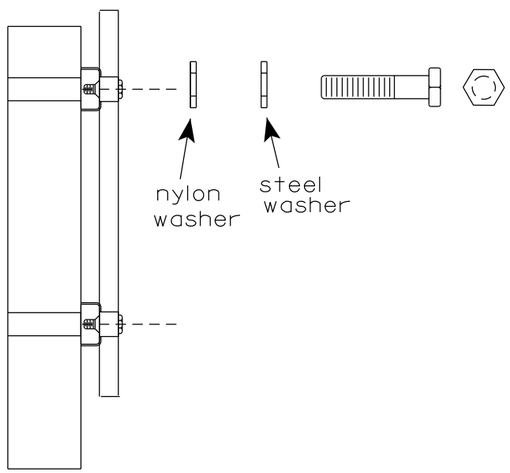
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

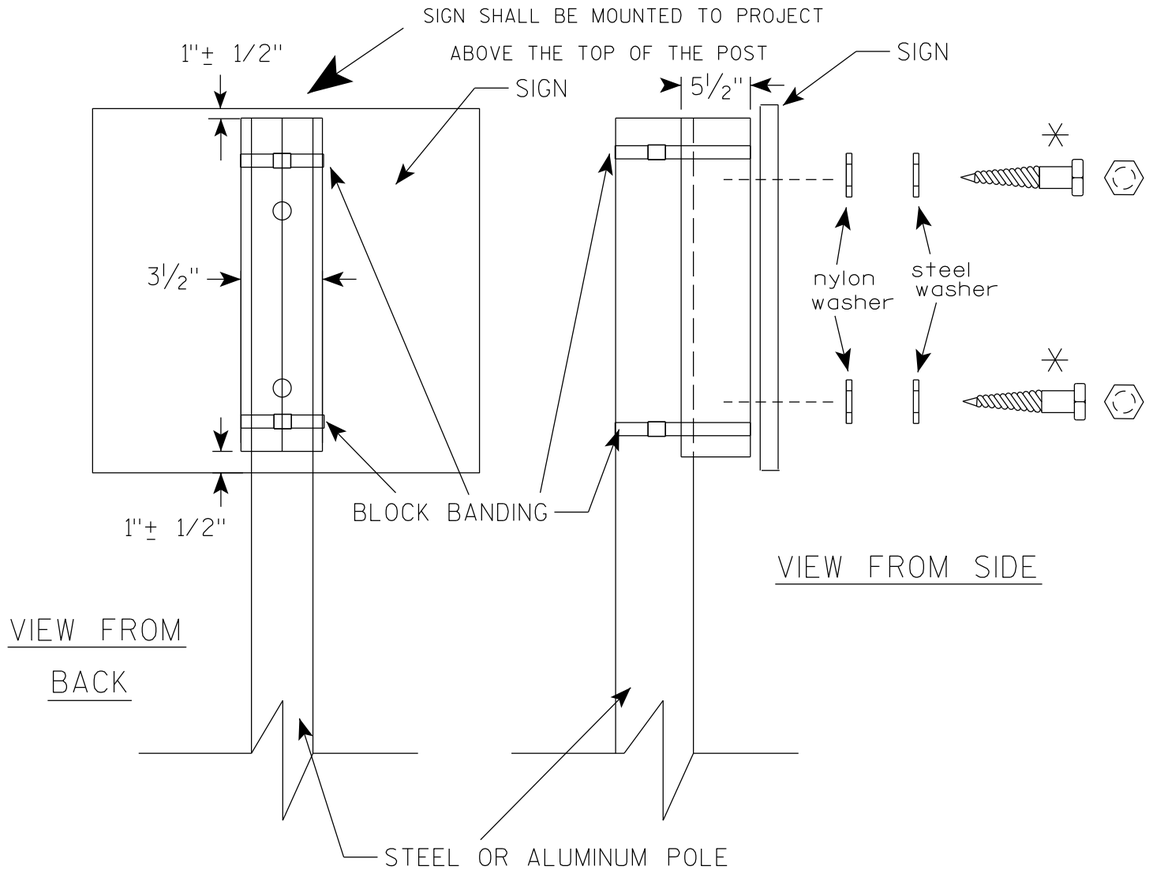
DATE 6/10/19 PLATE NO. A5-9.4

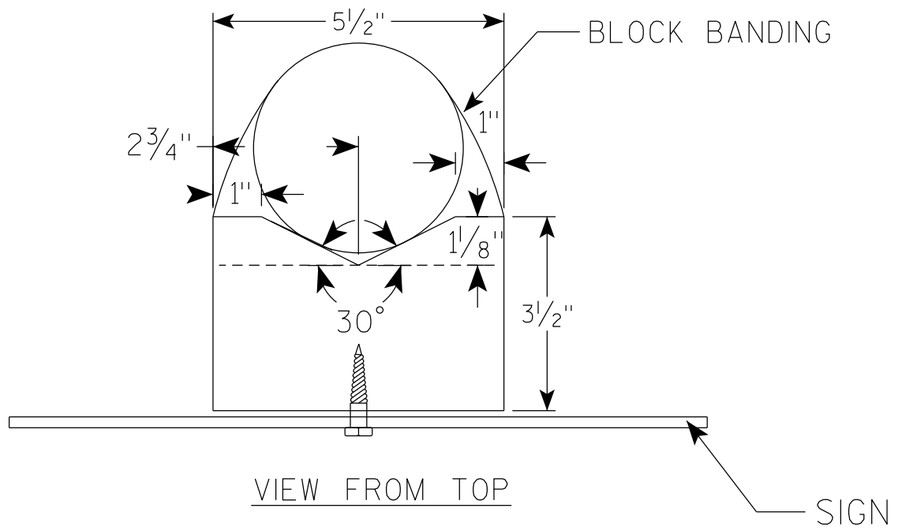
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 64	E

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"

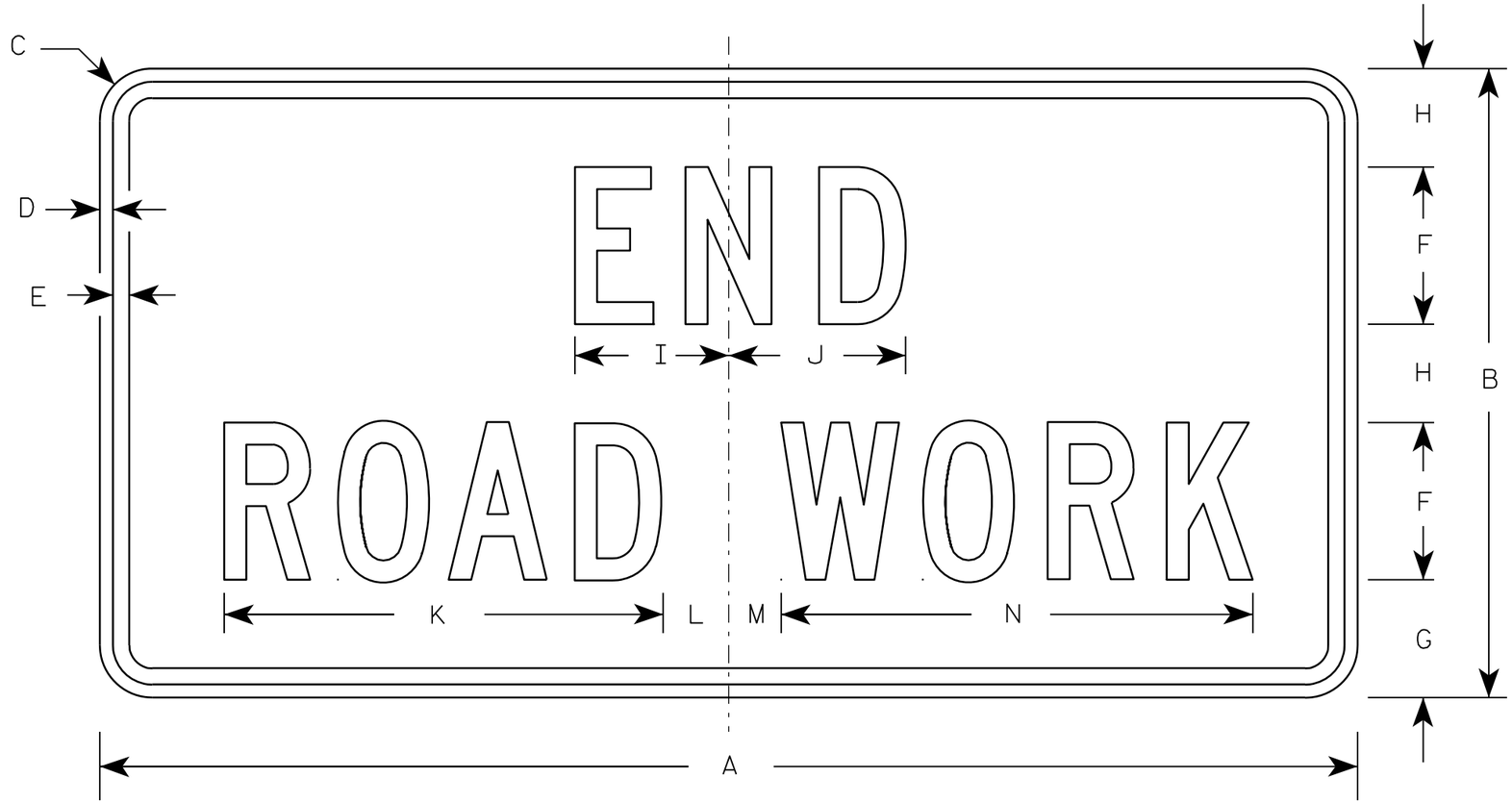
BLOCK BANDING DETAIL (V-BLOCK OPTION)

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: 65 | 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

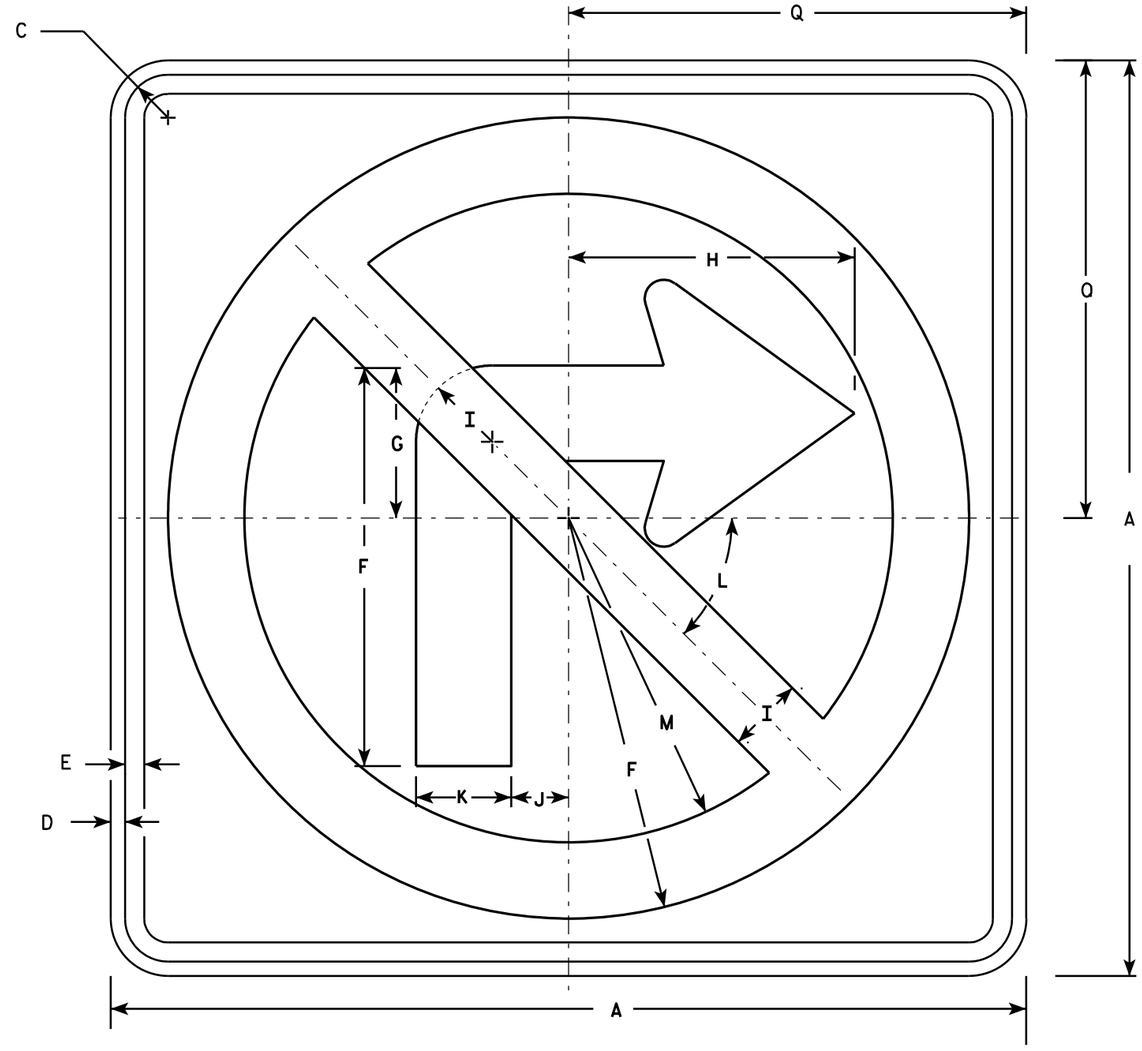
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

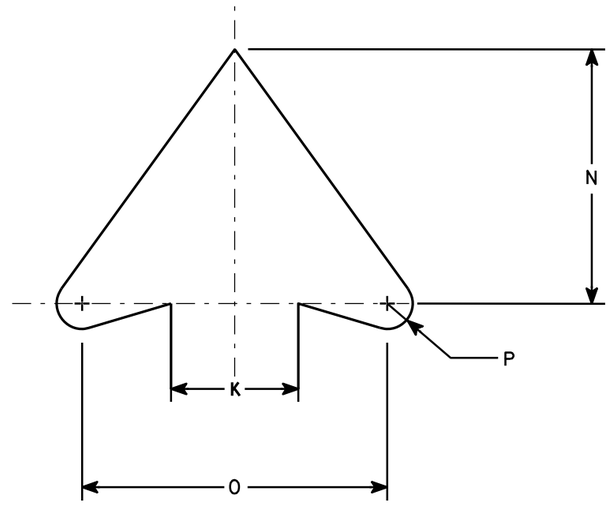
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 66	E



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

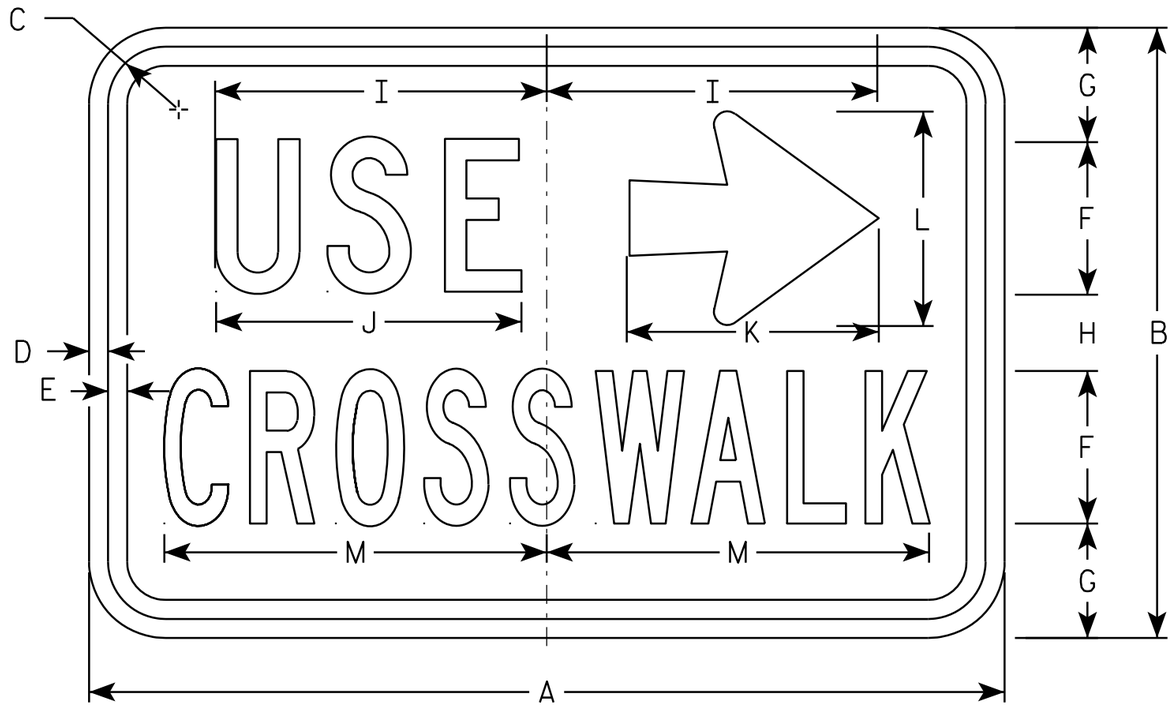
STANDARD SIGN
R3-1

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: 67	E



R9-3BR

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 Line 1, Series B Line 2
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. R9-3BL is the same as R9-3BR except USE and the arrow are switched.

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	18	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	6 1/2	6	5	4 1/4	7 1/2														1.5
2M	18	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	6 1/2	6	5	4 1/4	7 1/2														1.5
3																											
4																											
5																											

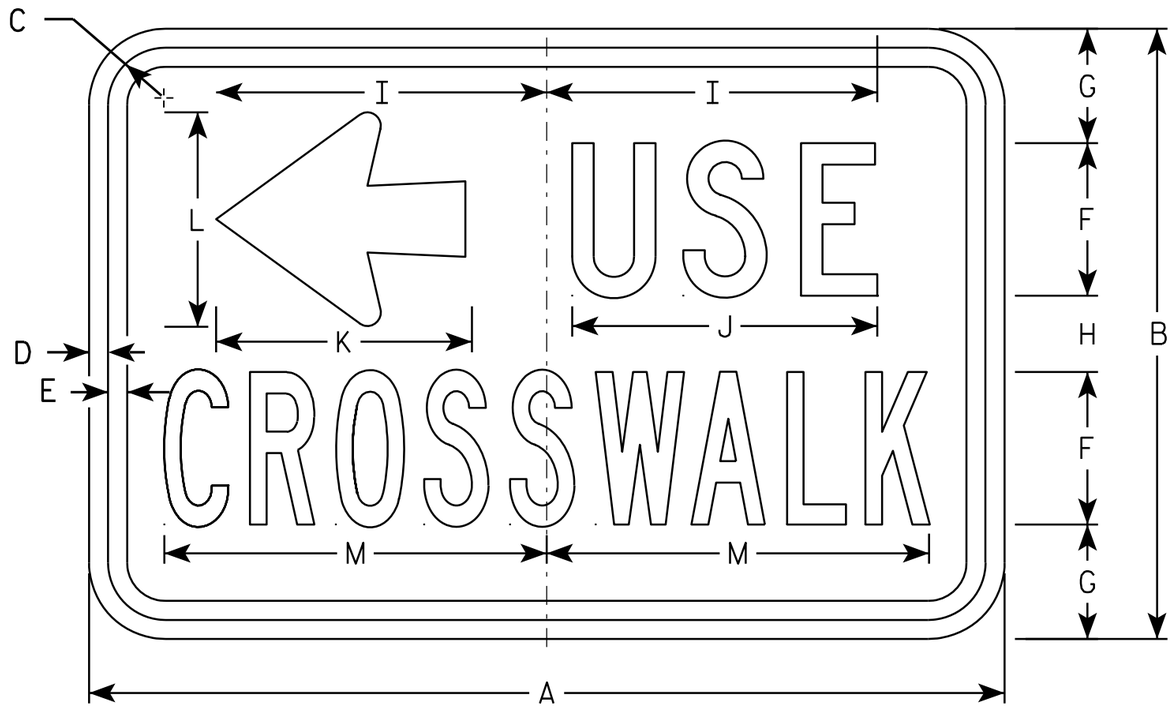
STANDARD SIGN
R9-3BR&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/4/10 PLATE NO. R9-3B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 68 | E



R9-3BL

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 Line 1, Series B Line 2
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	
2	450 mm X 300 mm
3	
4	
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.	Area m2
1																												
2	18	12	1⅛	⅜	⅜	3	2 ¼	1 ½	6 ½	6	5	4 ¼	7 ½														1.5	0.14
3																												
4																												
5																												

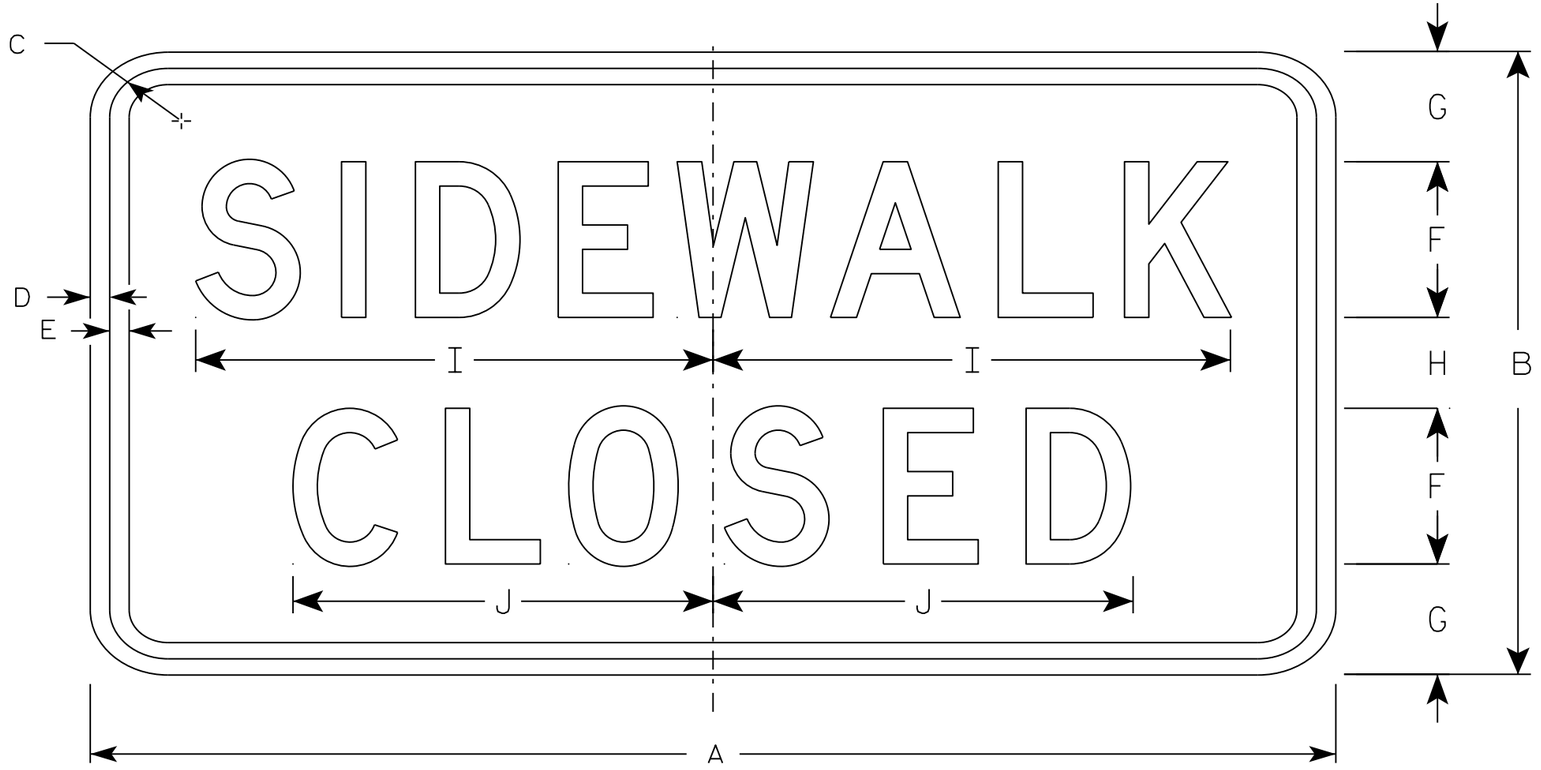
STANDARD SIGN
R9-3BL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/05/09 PLATE NO. R9-3BL.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 69 | 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

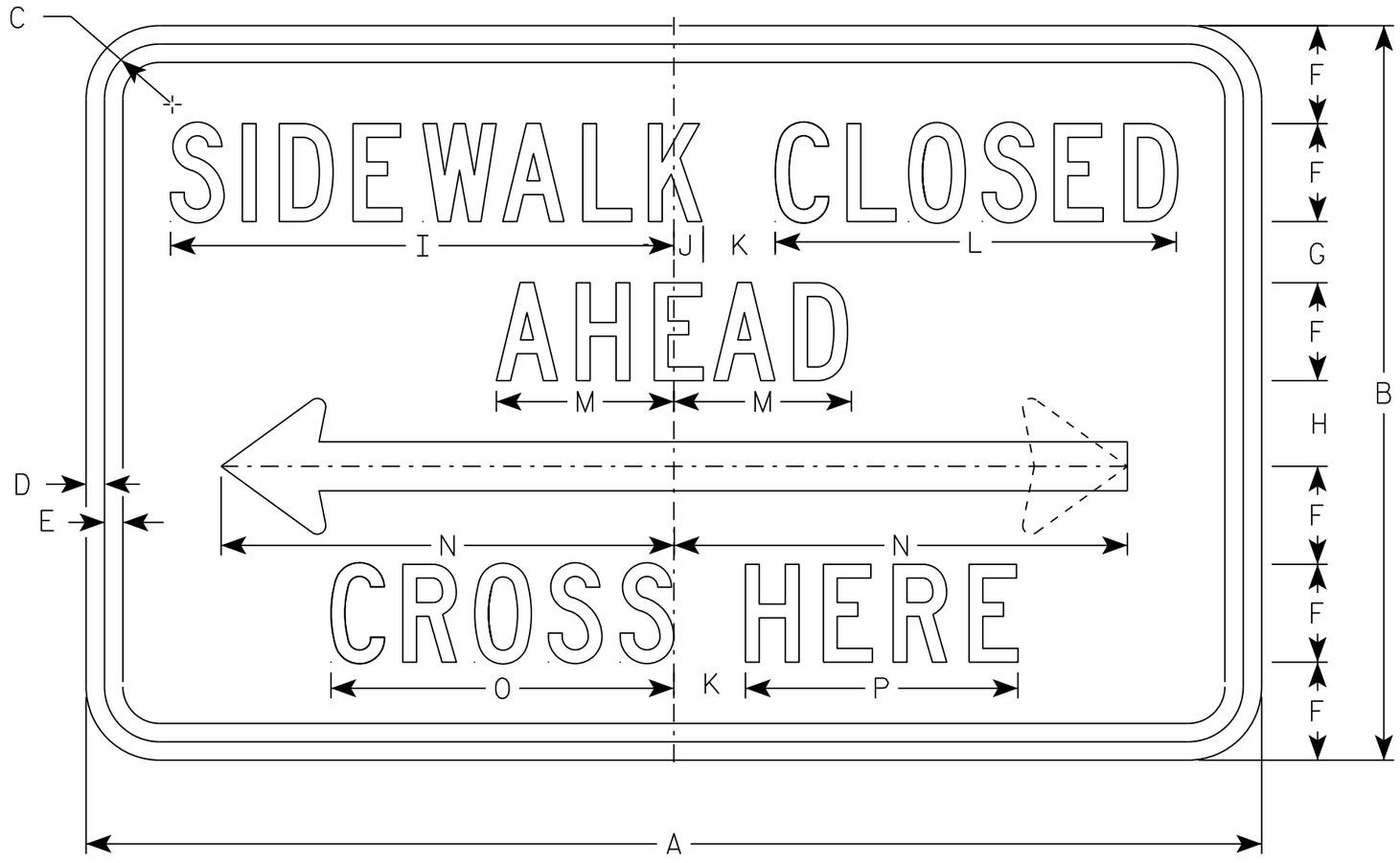
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

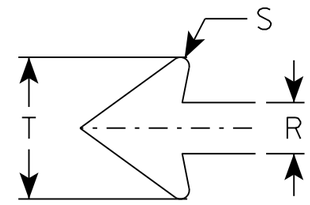
DATE 8/11/16 PLATE 70 R9-9.6

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



R9-11



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is 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. 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 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 7/8	6 7/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

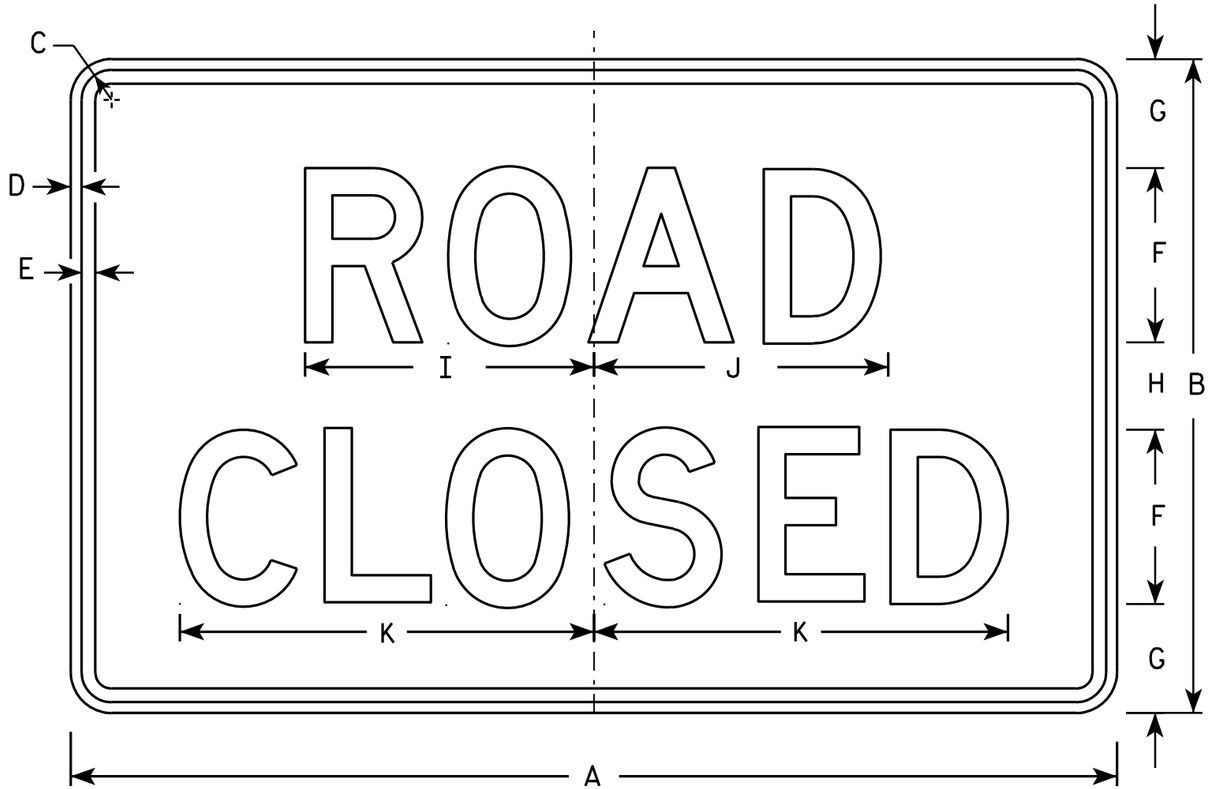
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R9-11.3

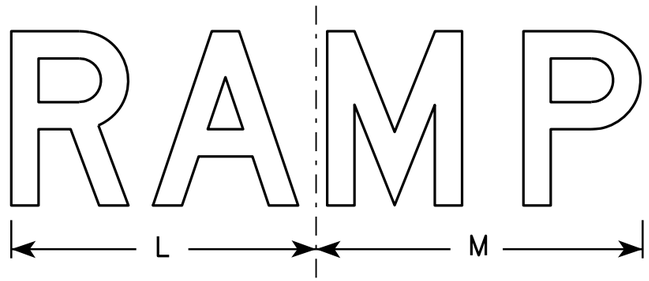
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 71	E



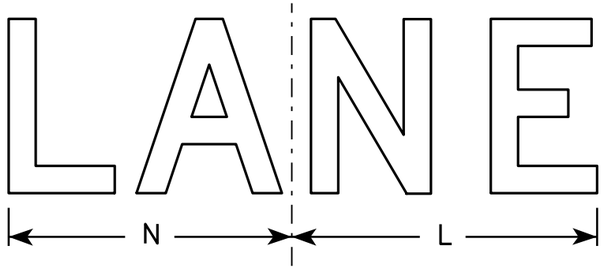
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

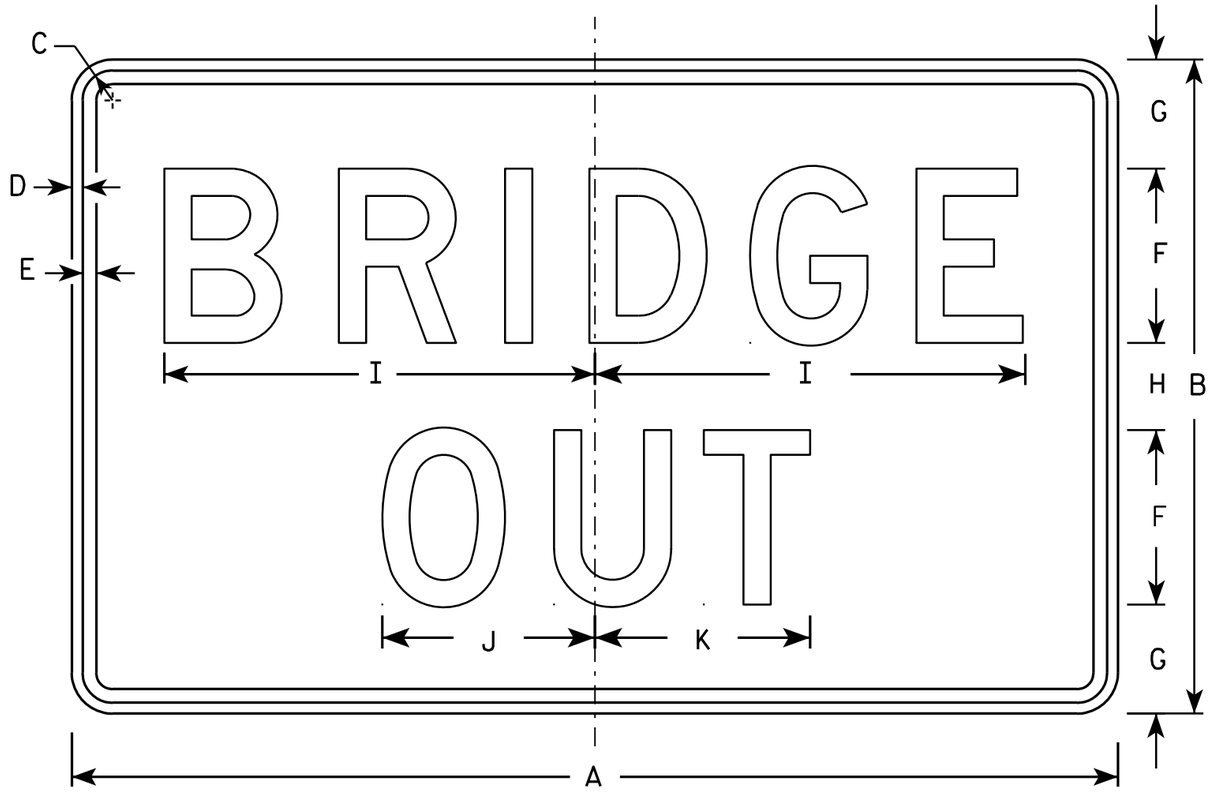
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 72	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

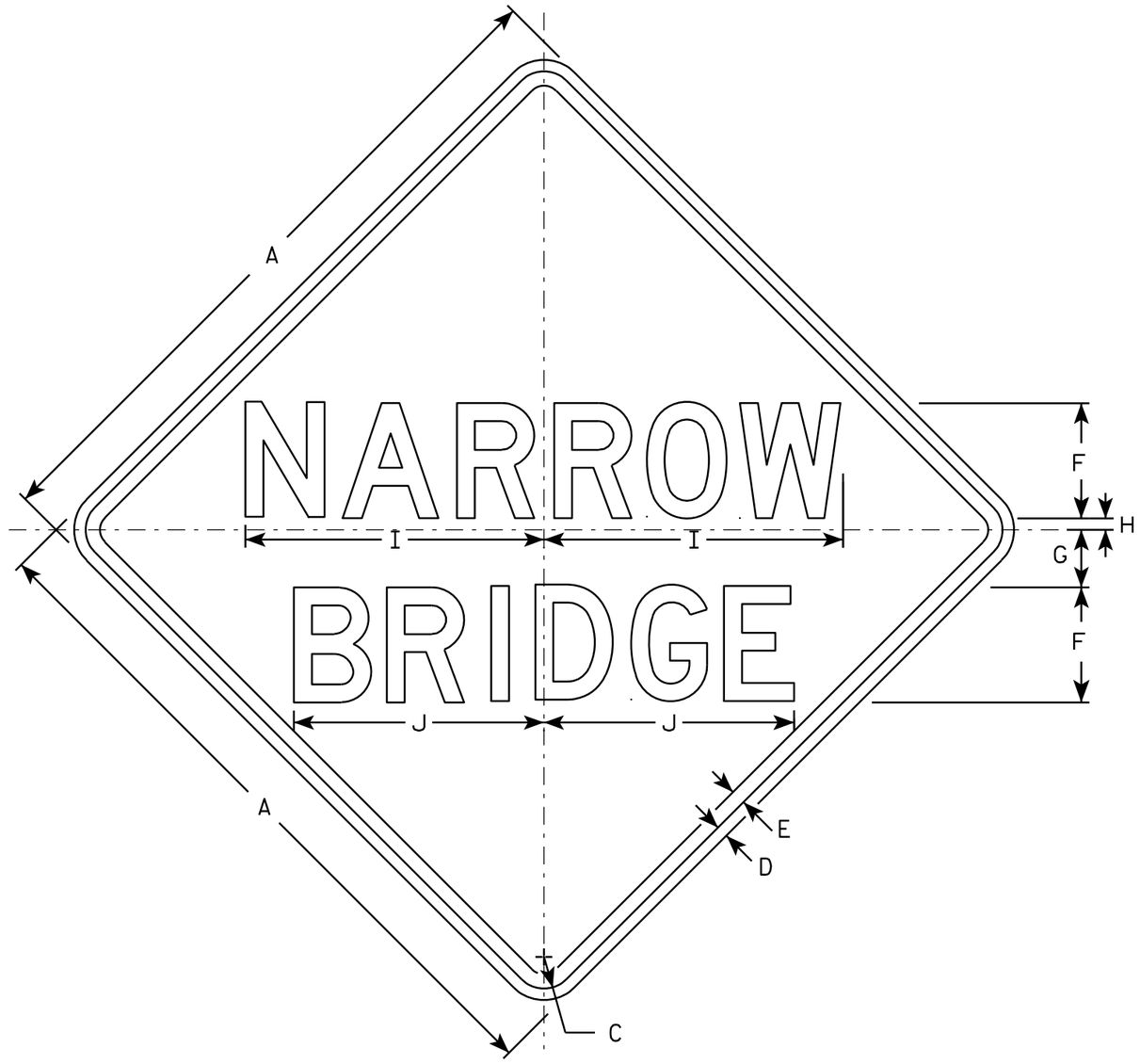
PROJECT NO:

SHEET NO: 73 E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112B.DGN PLOT DATE : 01-APR-2011 14:23 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42



W5-2

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.

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	2 1/2	1/2	13	10 7/8																	6.25
2S	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
2M	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
3	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
4	48		2 1/4	3/4	1	8	4	3/4	20 3/4	17 3/8																	16.0
5																											

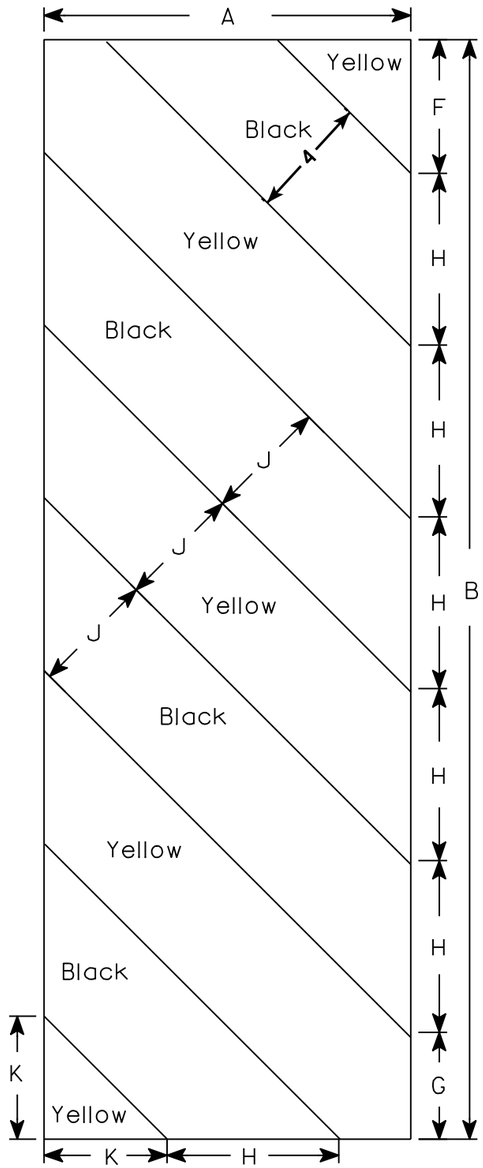
STANDARD SIGN
W5-2

WISCONSIN DEPT OF TRANSPORTATION

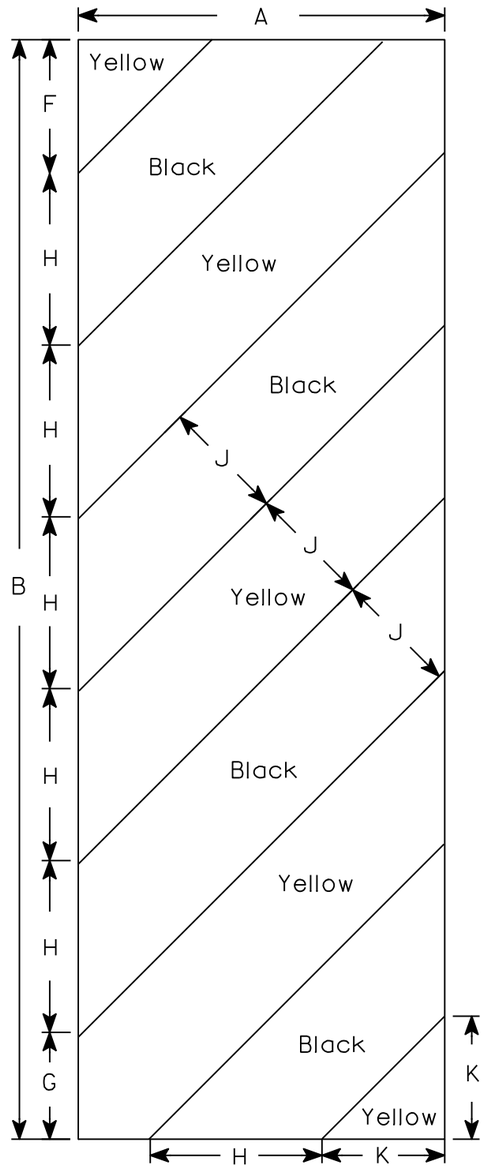
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W5-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 74	E



W5-52L



W5-52R

NOTES

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

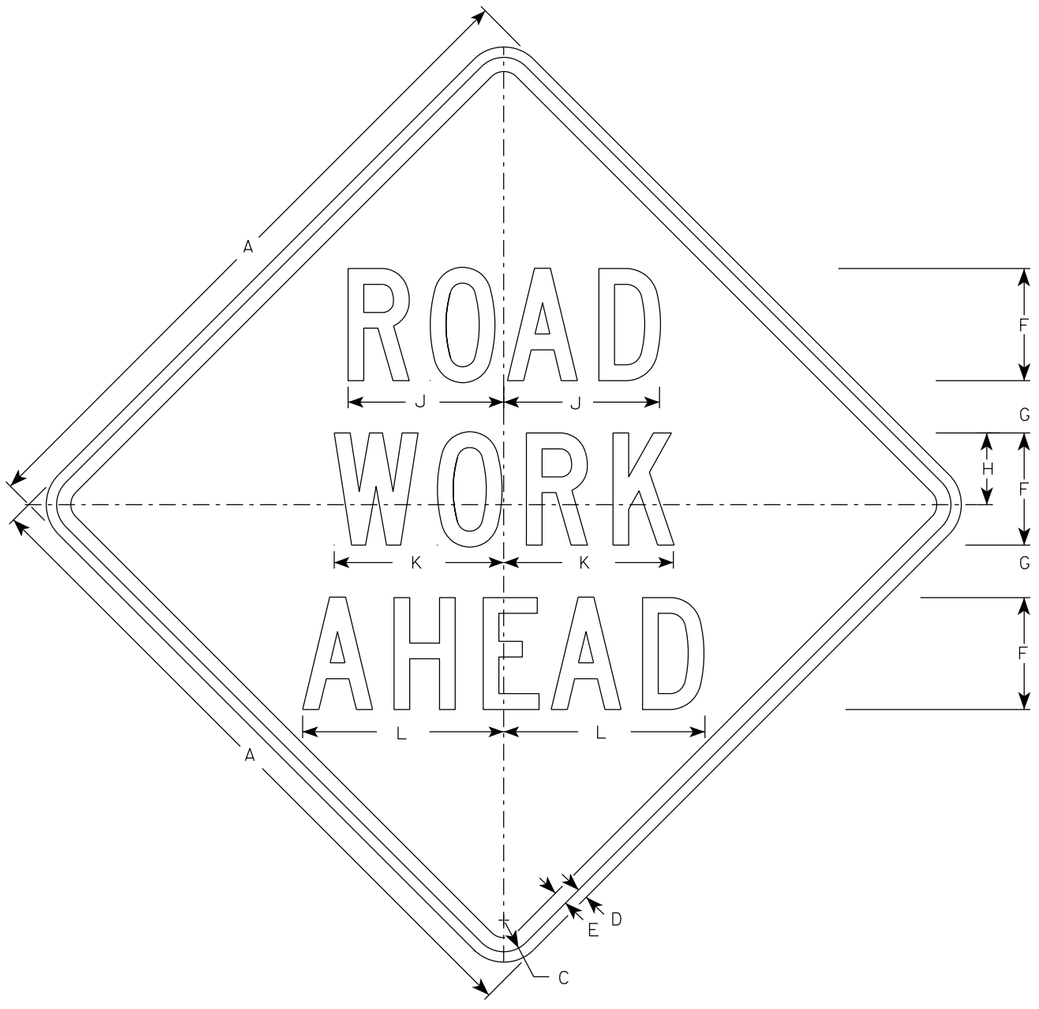
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

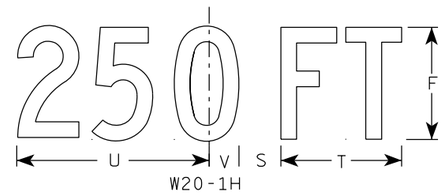
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

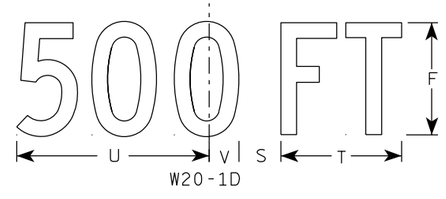
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 75 | E



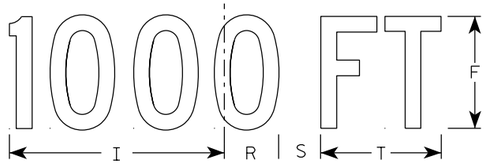
W20-1A



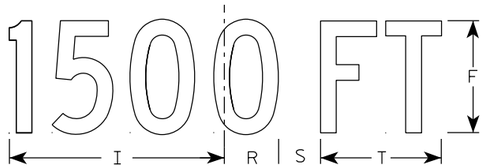
W20-1H



W20-1D



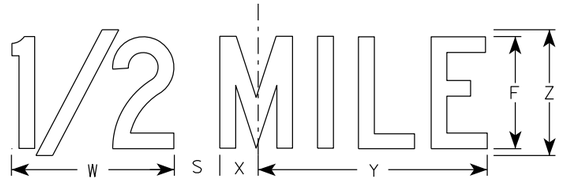
W20-1C



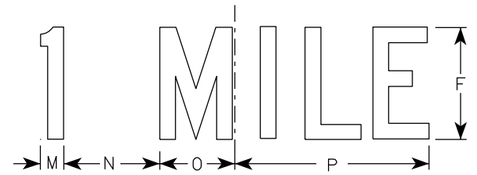
W20-1B

NOTES

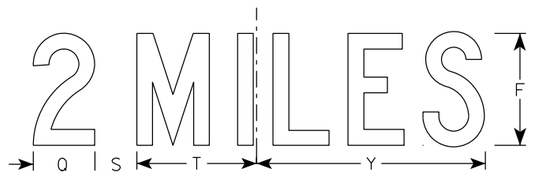
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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:

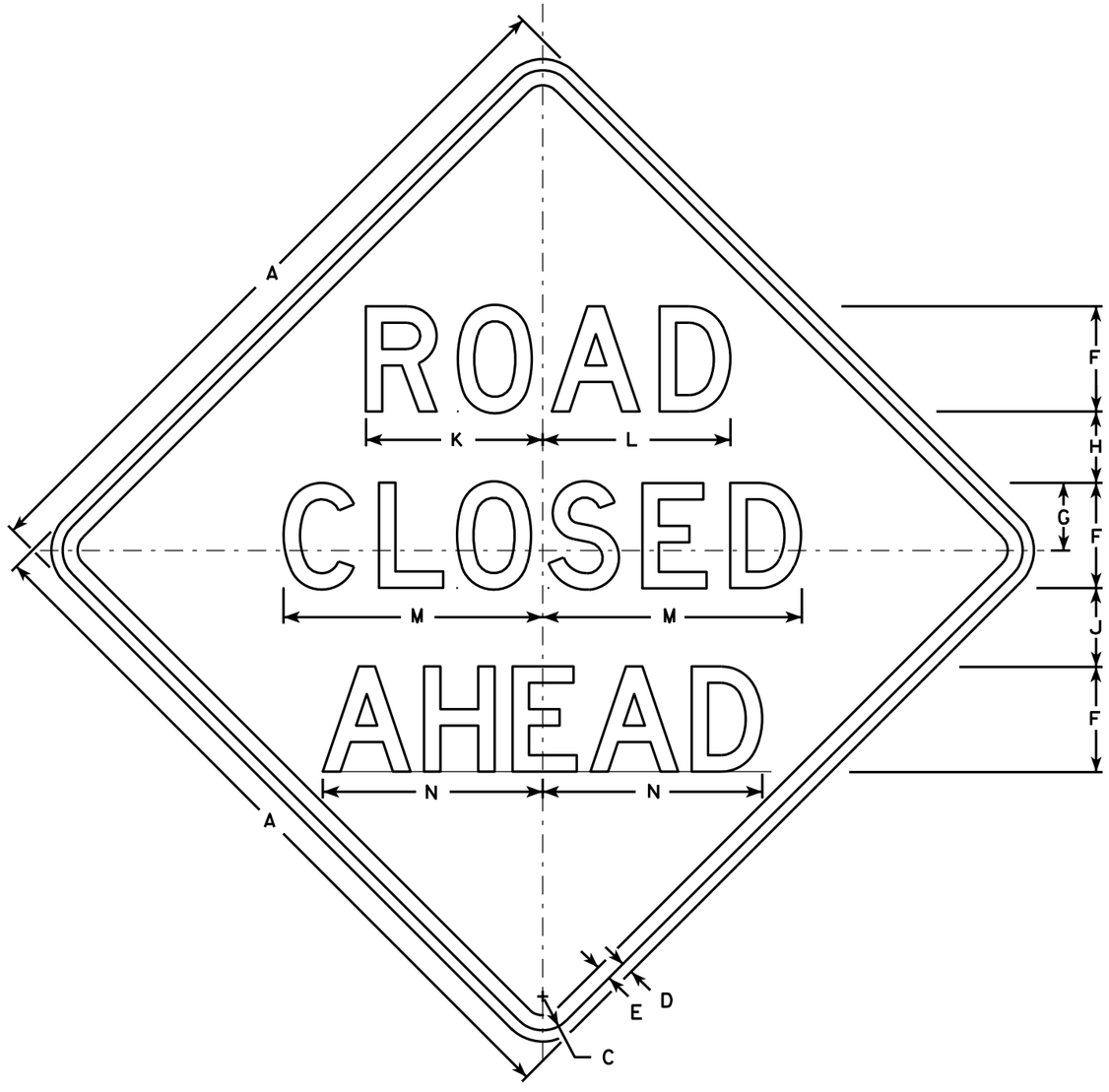
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

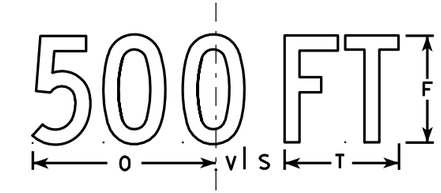
WISDOT/CADDS SHEET 42

7

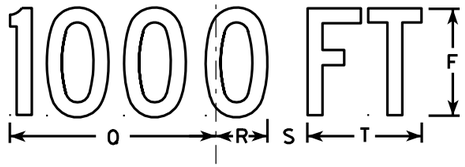
7



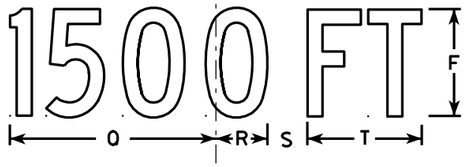
W20-3A



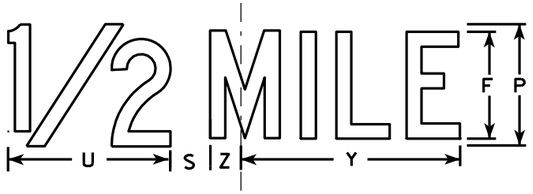
W20-3D



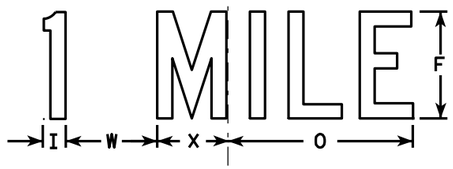
W20-3C



W20-3B



W20-3G



W20-3F

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	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

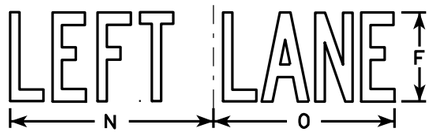
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 77 | E

7

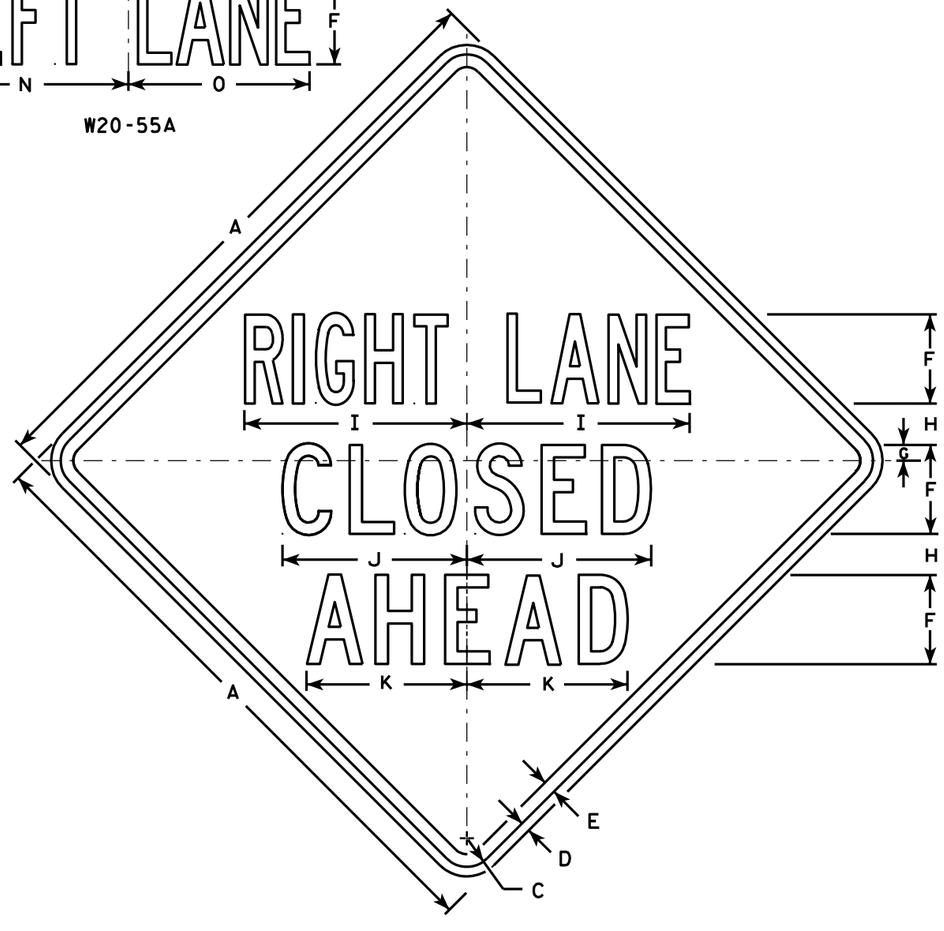
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



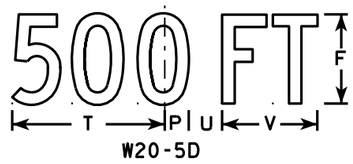
W20-56A



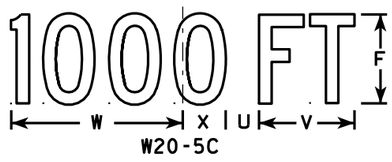
W20-55A



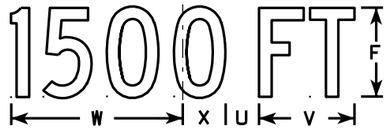
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

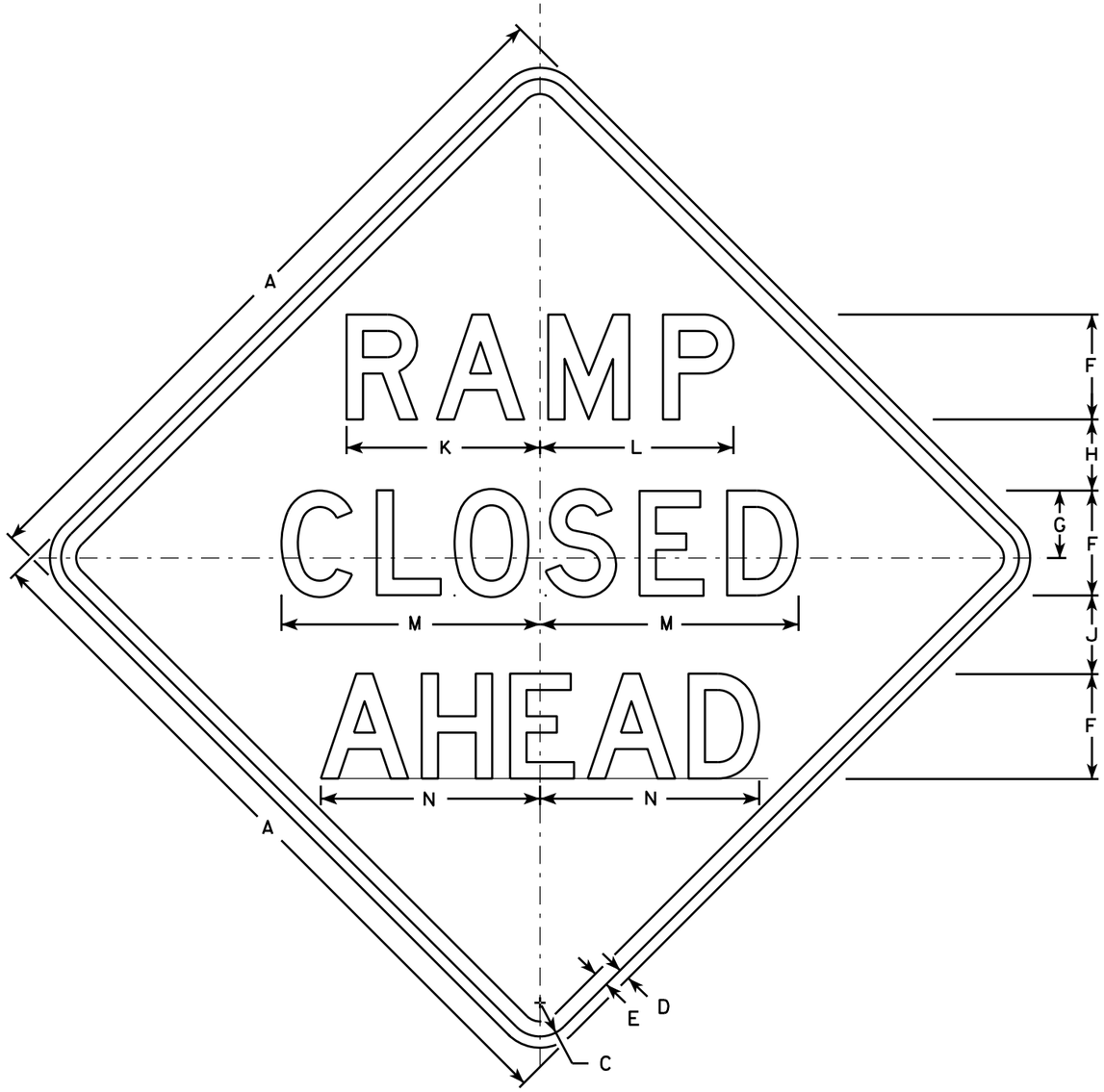
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

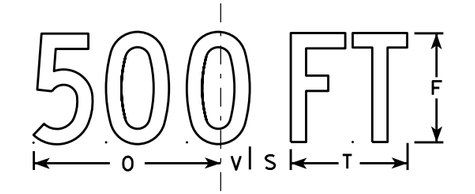
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 78	E

7

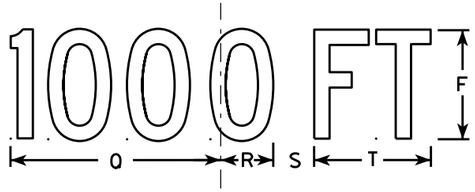
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



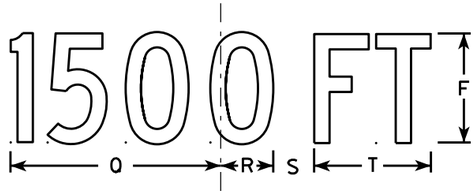
W20-53A



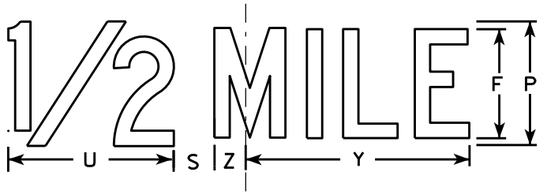
W20-53D



W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

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

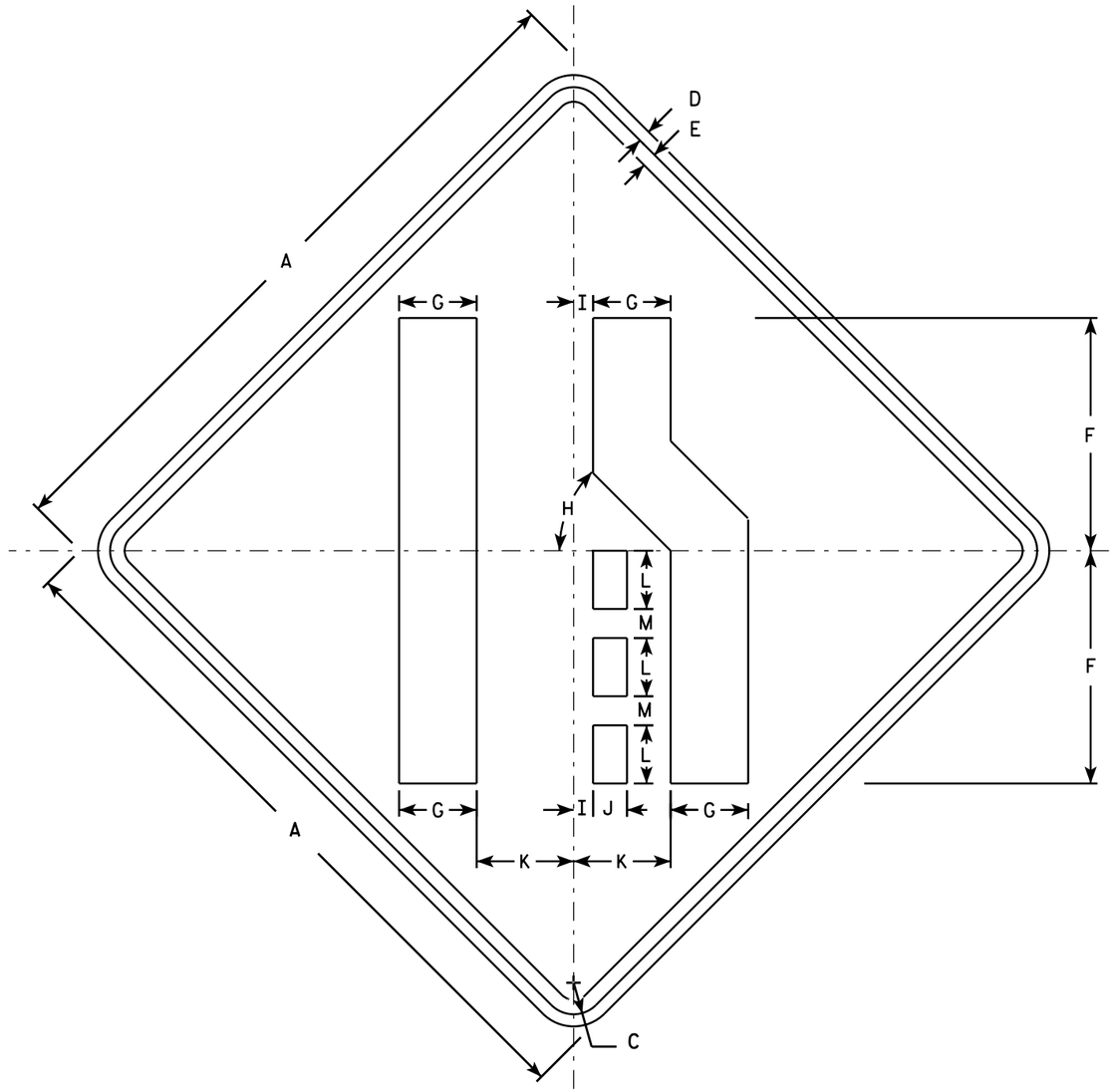
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 27-MAY-2015 19:40 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.729210:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

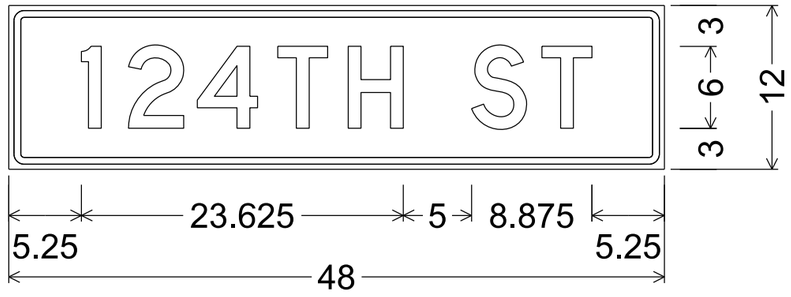
DATE 11/20/13 PLATE 80 "W04-2.1

PROJECT NO:

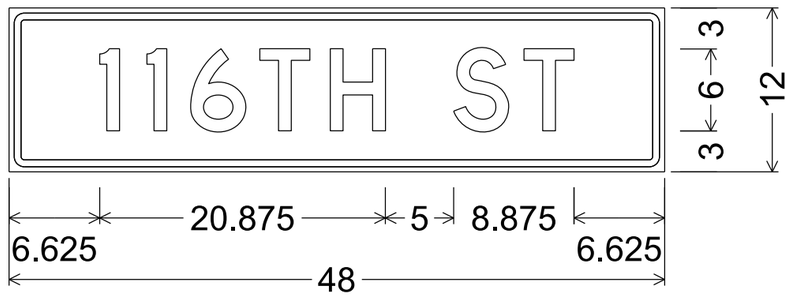
SHEET NO: E

NOTES

1. All Signs Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



1.125" Radius, 0.500" Border, 0.375" Indent

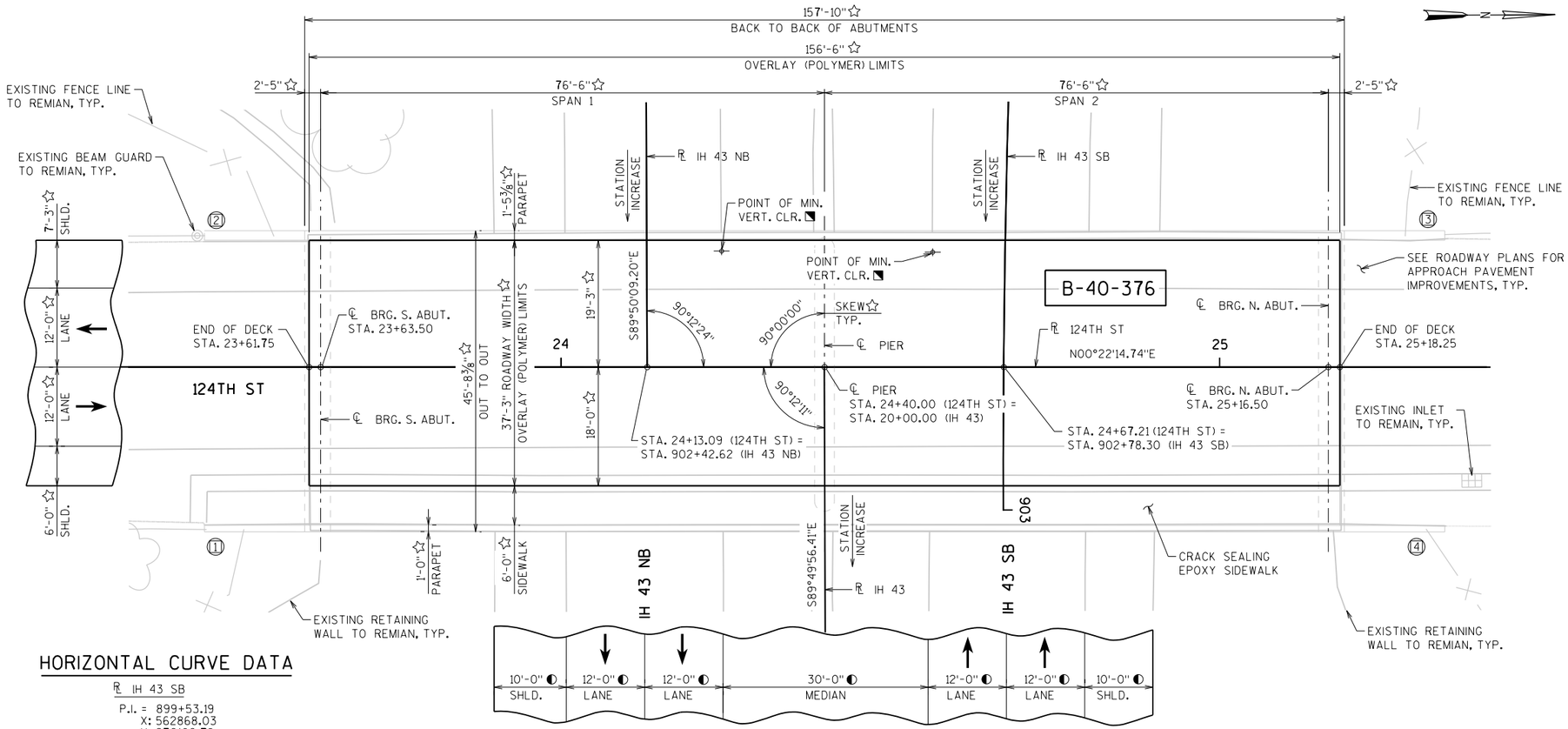


1.125" Radius, 0.500" Border, 0.375" Indent

7

7

STATE PROJECT NUMBER
1090-05-72



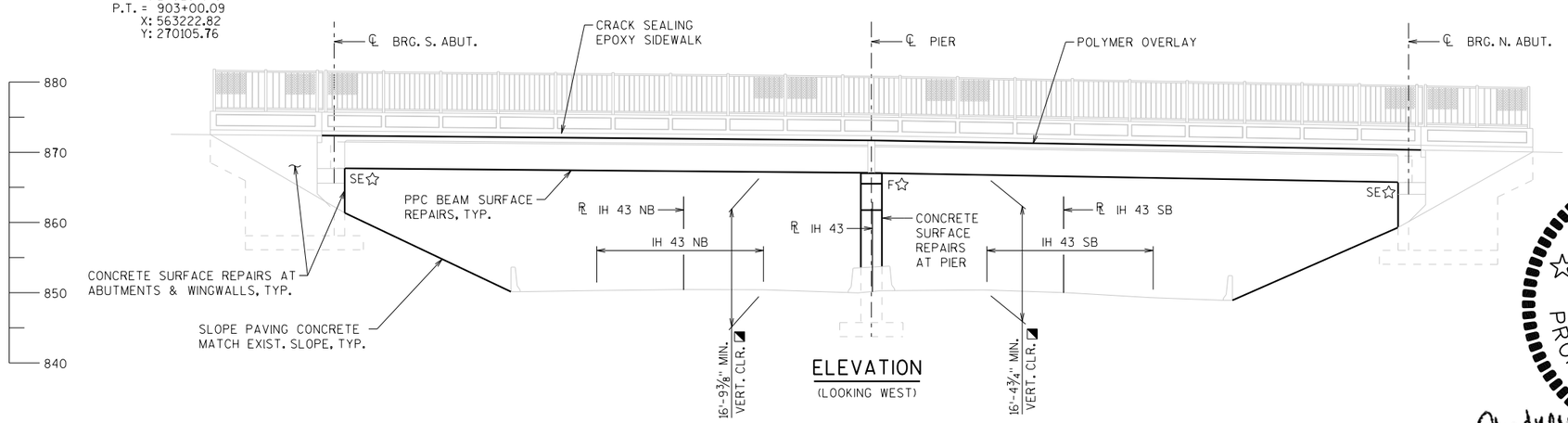
PLAN

(2-SPAN 45" PRESTRESSED CONCRETE GIRDER)
(POLYMER OVERLAY)

HORIZONTAL CURVE DATA

℄ IH 43 SB

P.I. = 899+53.19
X: 562868.03
Y: 270106.78
Δ = 20°55'25.99"
D = 2°58'54.87"
T = 354.80'
L = 701.69'
R = 1921.45'
P.C. = 895+98.39
X: 562536.99
Y: 270234.43
P.T. = 903+00.09
X: 563222.82
Y: 270105.76



ELEVATION

(LOOKING WEST)

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS-20
INVENTORY RATING: HS-14
OPERATING RATING: HS-23
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 200 KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY.....f'c = 4,000 psi

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES
3. REHABILITATION DETAILS

LEGEND

→ DIRECTION OF TRAFFIC
☆ DIMENSIONS TAKEN FROM EXISTING STRUCTURE PLANS
◐ DIMENSIONS TAKEN FROM EXISTING SURVEY
◥ DIMENSION AND LOCATION TAKEN FROM THE INSPECTION REPORT DATED MARCH 28, 2018
(X) WINGWALL NUMBER

TRAFFIC DATA

124TH ST	IH 43
AADT = 7,900 (2014)	AADT = 43,100 (2014)
AADT = 8,800 (2022)	AADT = 46,500 (2022)
AADT = 10,000 (2032)	AADT = 50,800 (2032)
AADT = 11,100 (2042)	AADT = 55,000 (2042)
RDS = 35 MPH	RDS = 55 MPH

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/11/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN
ANDREW J. ASCHENBRENNER
E-45272-6
RACINE
WISCONSIN
PROFESSIONAL ENGINEER

Andrew Aschenbrenner 1/20/2020

STRUCTURE B-40-376

124TH STREET OVER IH 43

COUNTY	CITY
MILWAUKEE	GREENFIELD

DESIGN SPEC. REHABILITATION N/A

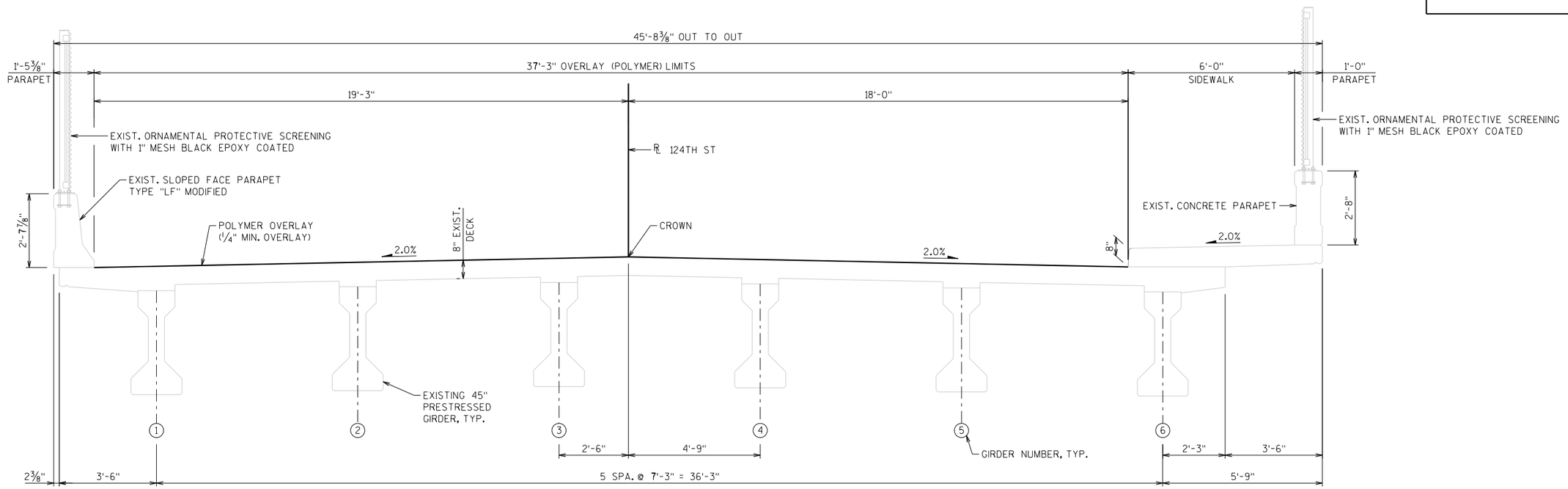
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	AJA	MHZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 3

FILE NAME : S:\DOT\DOT_SE\160285-IH-43 124th and 116th bridge rehabilitation\Structures\B-40-376 (124th St)\cds\B376_080101_gp.dgn PLOT DATE : 1/20/2020 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:20.0016

STATE PROJECT NUMBER
1090-05-72



TYPICAL SECTION

(LOOKING NORTH)
(DIMENSIONS & CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	SOUTH ABUTMENT	PIER	NORTH ABUTMENT	SUPER.	TOTAL
204.0175	REMOVING CONCRETE SLOPE PAVING	SY	30	-	30	-	60
509.1500	CONCRETE SURFACE REPAIR	SF	10	5	10	-	25
509.5100.S	POLYMER OVERLAY	SY	-	-	-	648	648
604.0400	SLOPE PAVING CONCRETE	SY	30	-	30	-	60
SPV.0090.4000	CRACK SEALING EPOXY SIDEWALK	LF	-	-	-	30	30
SPV.0165.4010	PPC BEAM SURFACE REPAIR	SF	-	-	-	5	5

ALL ITEMS ARE CATEGORY 2000

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (2012).

THE UTILITY 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 AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

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

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS IN THE SIDEWALK WITH "CRACK SEALING EPOXY SIDEWALK" AS DIRECTED BY THE FIELD ENGINEER.

BRIDGE TO BE CLOSED DURING CONSTRUCTION, SEE ROADWAY PLANS.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE BID ITEMS ARE APPROXIMATE.
-REMOVING CONCRETE SLOPE PAVING
-CONCRETE SURFACE REPAIR
-SLOPE PAVING CONCRETE
-CRACK SEALING EPOXY SIDEWALK
-PPC BEAM SURFACE REPAIR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-376

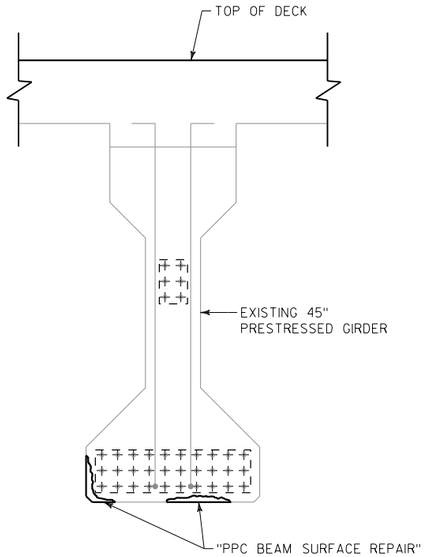
DRAWN BY AJA | PLANS CK'D. MHZ

TYPICAL SECTION, GENERAL NOTES & QUANTITIES

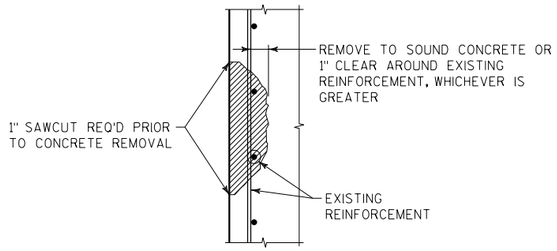
SHEET 2 OF 3

FILE NAME : S:\DOT\DOT_SE\160285-IH-43 124th and 116th bridge rehabilitation\Structures\B-40-376 (124th St)\cds\B376_080102_gn.dgn PLOT DATE : 1/20/2020 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:8

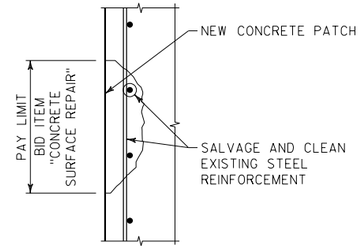
STATE PROJECT NUMBER
1090-05-72



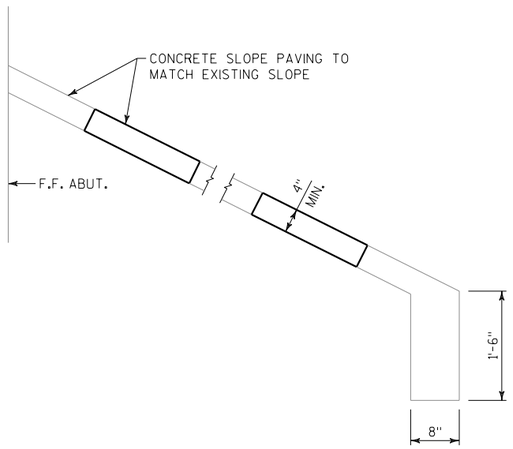
PPC BEAM SURFACE REPAIR DETAIL



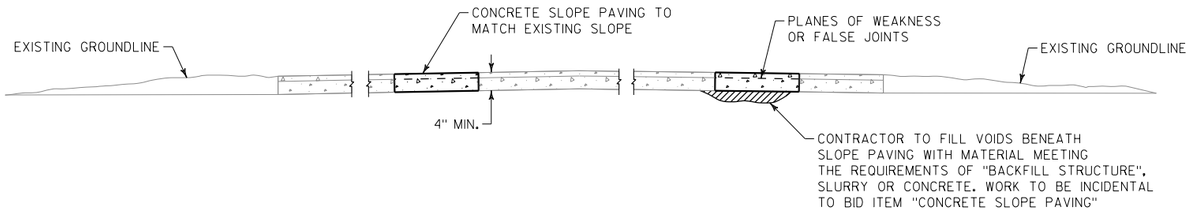
TYPICAL CONCRETE SURFACE REMOVAL DETAIL
(FOR ABUTMENTS AND PIER)



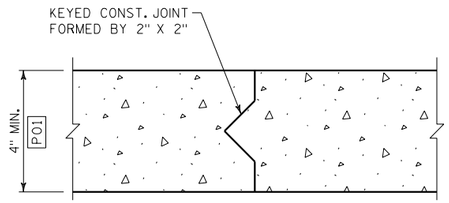
TYPICAL CONCRETE SURFACE REPAIR DETAIL
(FOR ABUTMENTS AND PIER)



SLOPE PAVING TYPICAL SECTION



SECTION THRU SLOPE PAVING



CONSTRUCTION JOINT DETAIL

LEGEND

P01 EXISTING CONSTRUCTION/CONTROL JOINT SPACING AND THICKNESS MAY VARY AT DIFFERENT LOCATIONS

NOTE

BID ITEM SHALL BE "SLOPE PAVING CONCRETE"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-376

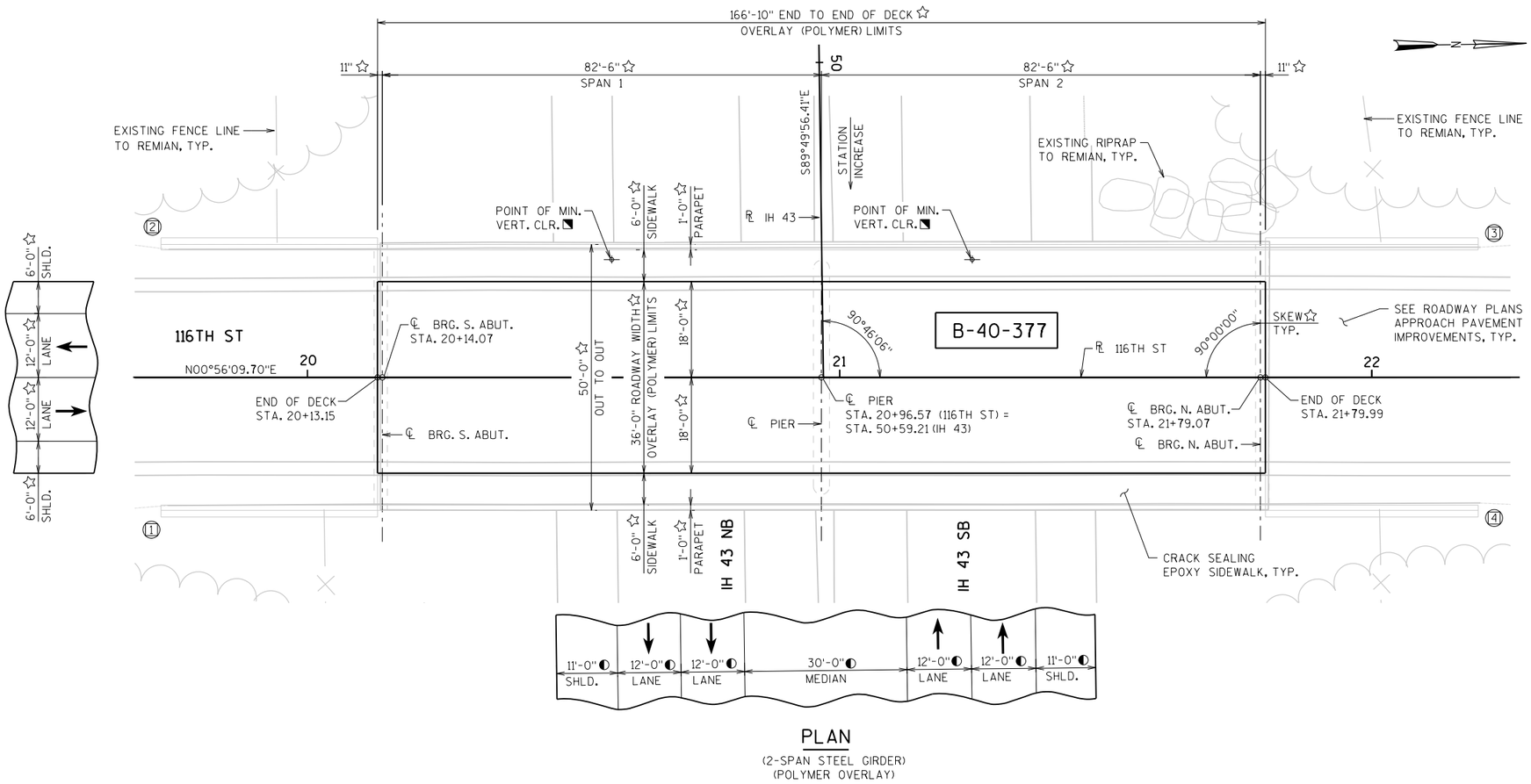
DRAWN BY	AJA	PLANS CK'D.	MHZ

REHABILITATION DETAILS

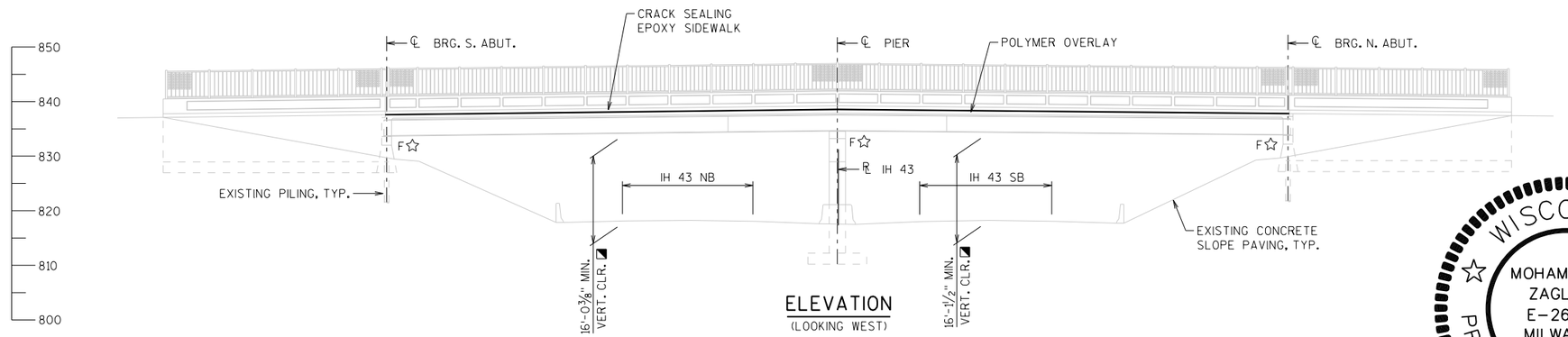
SHEET 3 OF 3

FILE NAME : S:\DOT\DOT_SE\160285-IH-43 124th and 116th bridge rehabilitation\Structures\B-40-376 (124th St)\cds\B376_080501_de.dgn PLOT DATE : 1/20/2020 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:8

STATE PROJECT NUMBER
1090-05-72



PLAN
(2-SPAN STEEL GIRDER)
(POLYMER OVERLAY)



ELEVATION
(LOOKING WEST)

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS-20
INVENTORY RATING: HS-20
OPERATING RATING: HS-33
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

LEGEND

- → DIRECTION OF TRAFFIC
- ☆ DIMENSIONS TAKEN FROM ORIGINAL STRUCTURE PLANS
- ◐ DIMENSIONS TAKEN FROM EXISTING SURVEY
- ◥ DIMENSIONS AND LOCATIONS TAKEN FROM THE INSPECTION REPORT DATED SEPTEMBER 27, 2016
- (X) WINGWALL NUMBER

TRAFFIC DATA

116TH ST	IH 43
AADT = 1,800 (2011)	AADT = 43,100 (2014)
AADT = 1,900 (2022)	AADT = 46,500 (2022)
AADT = 2,000 (2032)	AADT = 50,800 (2032)
AADT = 2,100 (2042)	AADT = 55,000 (2042)
RDS = 25 MPH	RDS = 55 MPH

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/11/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-377

116TH STREET OVER IH 43

COUNTY	CITY
MILWAUKEE	GREENFIELD

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	AJA	MHZ

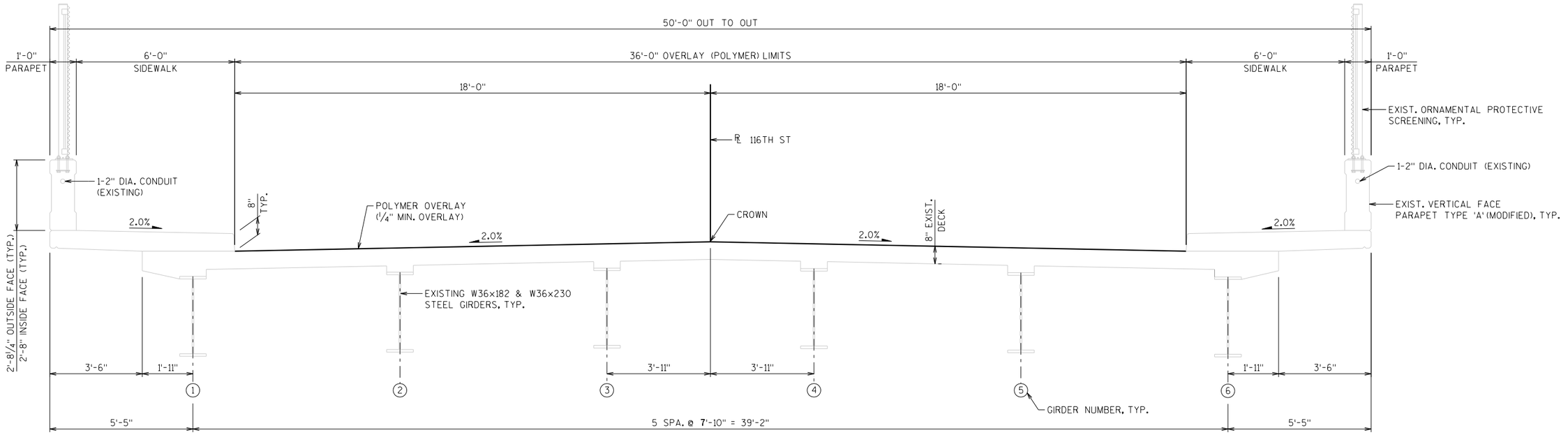
GENERAL PLAN & ELEVATION

SHEET 1 OF 2

WISCONSIN
MOHAMMED H. ZAGLOUL
E-26970
MILWAUKEE
WISCONSIN
PROFESSIONAL ENGINEER
1/20/2020

FILE NAME : S:\DOT\DOT_SE\160285-IH-43 124th and 116th bridge rehabilitation\Structures\B-40-377 (116th St)\cds\B377_080101_gp.dgn PLOT DATE : 1/20/2020
PLOT BY : mmyaskovsky
PLOT NAME : $FILE$
PLOT SCALE : 1:25.002

STATE PROJECT NUMBER
1090-05-72



TYPICAL SECTION

(LOOKING NORTH)
(DIMENSIONS & CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (2012).

THE UTILITY 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 AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

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

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS IN THE SIDEWALKS WITH "CRACK SEALING EPOXY SIDEWALK" AS DIRECTED BY THE FIELD ENGINEER.

BRIDGE TO BE CLOSED DURING CONSTRUCTION, SEE ROADWAY PLANS.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE BID ITEMS ARE APPROXIMATE.
-CRACK SEALING EPOXY SIDEWALK

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	SUPER.	TOTAL
509.5100.S	POLYMER OVERLAY	SY	667	667
SPV.0090.4000	CRACK SEALING EPOXY SIDEWALK	LF	30	30

ALL ITEMS ARE CATEGORY 2010

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-377

DRAWN BY AJA | PLANS CK'D. MHZ

TYPICAL SECTION, GENERAL NOTES & QUANTITIES

SHEET 2 OF 2

FILE NAME : S:\DOT\DOT_SE\160285-IH-43 124th and 116th bridge rehabilitation\Structures\B-40-377 (116th St)\cds\B377_080102_gn.dgn PLOT DATE : 1/20/2020 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:8

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE

Jan 12, 2021

PROJECT ID: **1090-08-72**

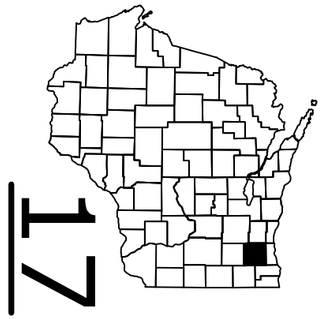
WITH: 1090-05-72, 1090-35-70

COUNTY: **WAUKESHA**

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 = 58



17

N

DESIGN DESIGNATION

A.A.D.T.	2018	=	40,400
A.A.D.T.		=	
D.H.V.		=	
D.D.		=	
T.		=	
DESIGN SPEED		=	70 MPH
ESALS		=	

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

IH 43 ROCK FREEWAY

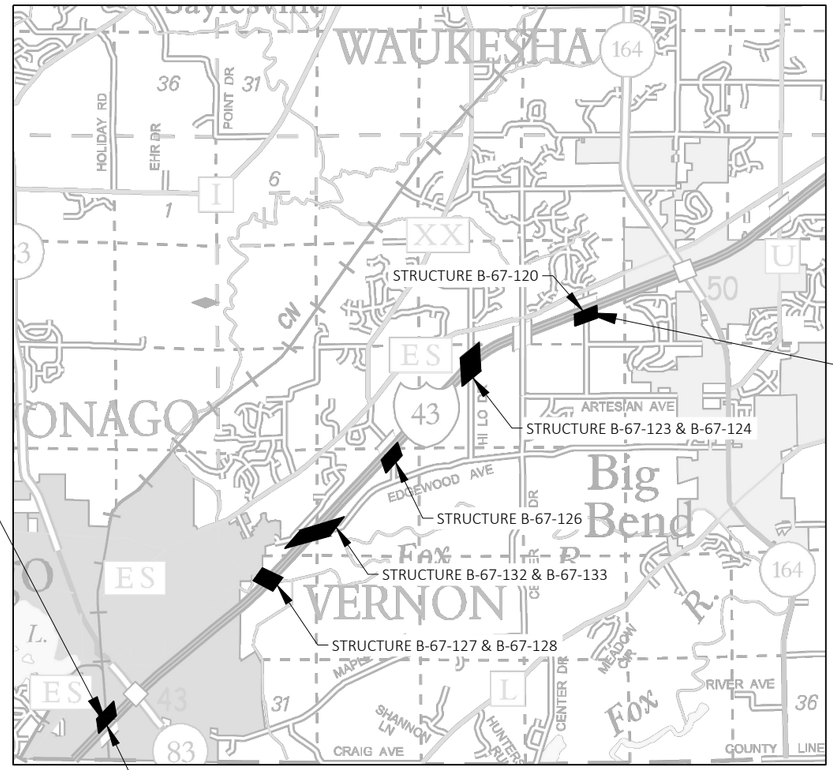
STH 83 TO STH 164

IH 43

WAUKESHA COUNTY

STATE PROJECT NUMBER
1090-08-72

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1090-08-72	WISC 2021057	1



LAYOUT

SCALE 0 — 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.000

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, WAUKESHA COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2007). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	WISDOT
Project Manager	AMANDA JOHANSEN
Regional Examiner	
Regional Supervisor	WAFA ELQAQ

APPROVED FOR THE DEPARTMENT

DATE: 7/6/20 Amanda Johansen (Signature)

E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\010101_TI.DWG PLOT DATE : 7/6/2020 7:19 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

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

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

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES AND UTILITY CONTACTS
PROJECT OVERVIEW
PLAN DETAILS
TRAFFIC CONTROL
ALIGNMENT LAYOUT

OTHER CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION
AMANDA JOHANSEN - PROJECT MANAGER
141 NW BARSTOW ST
WAUKESHA, WI 53187
PHONE: (262) 521-4465
amanda.johansen@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
CRAIG WEBSTER
141 NW BARSTOW ST, ROOM 208
WAUKESHA, WI 53188
PHONE: (262) 574-2141
CELL: (414) 303-3011
craig.webster@wi.gov

WISCONSIN CENTRAL LTD (CN) RAILROAD
JACKIE MACEWICZ - MANAGER PUBLIC WORKS
3912 S POKEGAMA RD
SUPERIOR, WI 54880
PHONE: (715) 345-2503
jackie.macewicz@cn.ca

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

UTILITY CONTACTS

ANR PIPELINE CO - GAS/PETROLEUM
TODD BRISTER
W3925 PIPELINE LANE
EDEN, WI 53019
PHONE: (920) 477-2235
todd_brister@transcanada.com

AT&T WISCONSIN - COMMUNICATION LINE
TOM CROWLEY
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
PHONE: (262) 896-7427
tc1657@att.com

AT&T WISCONSIN - COMMUNICATION LINE
MATTHEW DINNAUER
2005 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 896-7690
md9542@att.com

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
MIKE OLSEN
801 O'KEEFE RD
P.O. BOX 6113
DE PERE, WI 54115-6113
PHONE: (920) 338-6582
molsen@atcllc.com

WISDOT ATR PULL BOXES - ELECTRICITY
CHAD BIGLER
TRAVEL SURVEY SHOP, 3633 PIERSTORFF ST
P.O. BOX 2583
MADISON, WI 53704-2583
PHONE: (608) 535-7413
chad.bigler@dot.wi.gov

CENTURYLINK - COMMUNICATION LINE
KEVIN ZICKERT
224 INDUSTRIAL DR
NORTH PRAIRIE, WI 53153
PHONE: (262) 392-5200
Kevin.Zickert@centurylink.com

CHARTER COMMUNICATIONS - COMMUNICATION LINE
PETE KRUZELA
1320 N DR MARTIN LUTHER KING DR
MILWAUKEE, WI 53212
PHONE: (414) 908-1339
wis.engineering@charter.com

CITY OF MUSKEGO SEWER AND WATER UTILITIES - SEWER
SCOTT KLOSKOWSKI
P.O. BOX 749
MUSKEGO, WI 53150-749
PHONE: (262) 679-4128
skloskowski@ci.muskego.wi.us

CITY OF MUSKEGO SEWER AND WATER UTILITIES - WATER
SCOTT KLOSKOWSKI
P.O. BOX 749
MUSKEGO, WI 53150-749
PHONE: (262) 679-4128
skloskowski@ci.muskego.wi.us

CITY OF NEW BERLIN - ROAD FACILITY
J.P. WALKER
3805 S CASPER DR
NEW BERLIN, WI 53151-5510
PHONE: (262) 797-2453
jwalker@newberlin.org

CITY OF NEW BERLIN - SEWER
J.P. WALKER
3805 S CASPER DR
NEW BERLIN, WI 53151-5510
PHONE: (262) 797-2453
jwalker@newberlin.org

CITY OF NEW BERLIN - WATER
J.P. WALKER
3805 S CASPER DR
NEW BERLIN, WI 53151-5510
PHONE: (262) 797-2453
jwalker@newberlin.org

LEVEL 3 COMMUNICATIONS LLC - COMMUNICATION LINE
NETWORK RELOCATIONS
1025 ELDORADO BLVD
BROOMFIELD, CO 80021
NationalRelo@centurylink.com

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT - SEWER
MICKI KLAPPA-SULLIVAN
260 W SEEBOTH ST
MILWAUKEE, WI 53204
PHONE: (414) 225-2178
MKlappaSullivan@mmsd.com

MUKWONAGO WASTEWATER TREATMENT PLANT - SEWER

PAETEC COMMUNICATIONS, LLC - COMMUNICATION LINE
MARY FISHER
13935 BISHOPS DR
BROOKFIELD, WI 53005
PHONE: (262) 792-7938
Mary.B.Fisher@windstream.com

TOWN OF MUKWONAGO - ROAD FACILITY
KATHERINE KARALEWITZ
W320 S8315 BEULAH RD
MUKWONAGO, WI 53149
PHONE: (262) 363-4555
kkaralewitz@townofmukwonago.us

VILLAGE OF BIG BEND DEPARTMENT OF PUBLIC WORKS - WATER
TOM JOHNSON
P.O. BOX 130
BIG BEND, WI 53103
PHONE: (262) 662-4903

VILLAGE OF MUKWONAGO - ROAD FACILITY
RON BITTNER
440 RIVER CREST CT
P.O. BOX 206
MUKWONAGO, WI 53149
PHONE: (262) 363-6447
rbittner@villageofmukwonago.com

VILLAGE OF MUKWONAGO - SEWER
DEAN FALKNER
440 RIVER CREST CT
P.O. BOX 206
MUKWONAGO, WI 53149
PHONE: (262) 363-6416
dfalkner@villageofmukwonago.com

VILLAGE OF MUKWONAGO - WATER
IVAN ZAREMBA
440 RIVER CREST CT
P.O. BOX 206
MUKWONAGO, WI 53149
PHONE: (262) 363-6416
waterdept@villageofmukwonago.com

WISCONSIN DEPARTMENT OF TRANSPORTATION - STREET LIGHTING
ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 574-5422
Eric.Perea@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION - WISCONSIN SIGNAL
DERRIN WOLFORD
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 521-4409
derrin.wolford@dot.wi.gov

WATERFORD SANITARY DISTRICT #1 - SEWER
EUGENE WEIHERT
415 N. MILWAUKEE STREET
WATERFORD, WI 53185
PHONE: (262) 534-4646
wsd@tds.net

WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS - ROAD FACILITY
CAROLYNN GELLINGS
1320 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 548-7740
cgellings@waukeshacounty.gov

WE ENERGIES - ELECTRICITY
NICOLE SMULLEN
A299
333 W EVERETT ST
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
Nicole.Smullen@wecenergygroup.com

WE ENERGIES - GAS/PETROLEUM
NICOLE SMULLEN
A299
333 W EVERETT ST
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
Nicole.Smullen@wecenergygroup.com

2

2

2

N

END PROJECT
STA 403+28.77

BEGIN PROJECT 1090-08-72
STA 75+27.69

B-67-334
B-67-133
B-67-132
B-67-127
B-67-128
B-67-123
B-67-124
B-67-126
B-67-120

60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
440
460

IH 43
STH 83
CTH ES
OAKDALE DR
EDGEWOOD DR
HILO DR
CENTER DR
EVERGREEN RD
STH 164
CN RR
FOX RIVER

VILLAGE OF MUKWONAGO
TOWN OF VERNON

THE SCOPE OF THIS PROJECT CONSISTS OF THIN POLYMER OVERLAYS ON NINE (9) BRIDGES.

PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - PROJECT OVERVIEW

PLOT DATE : 8/27/2019 8:09 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDS SHEET 42

2

2

N

CN RR

B-67-334 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS)

1

IH 43 SB

2

3

73+00 74+00 75+00 76+00 77+00 78+00

IH 43 NB

LEGEND

- INLET PROTECTION TYPE B
- (1) MARKING LINE EPOXY 4-INCH (WHITE)
- (2) MARKING LINE EPOXY 4-INCH (YELLOW)
- (3) MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS: B-67-334	SHEET 4	E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021201_pd
PLOT DATE : 11/13/2019 8:52 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

FOX RIVER

N

B-67-127 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS)

1

3

IH 43 SB

4

2

186+00

187+00

188+00

189+00

190+00

191+00

100' TYP

2

4

IH 43 NB

3

1

B-67-128 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS)

LEGEND

- INLET PROTECTION TYPE B
- (1) MARKING LINE EPOXY 4-INCH (WHITE)
- (2) MARKING LINE EPOXY 4-INCH (YELLOW)
- (3) MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (4) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS: B-67-127/128	SHEET 5	E

2

B-67-133 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS)

IH 43 SB

215+00 216+00 217+00 218+00 219+00 220+00 221+00

100' TYP

IH 43 NB

B-67-132 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS)

EDGEWOOD AVE

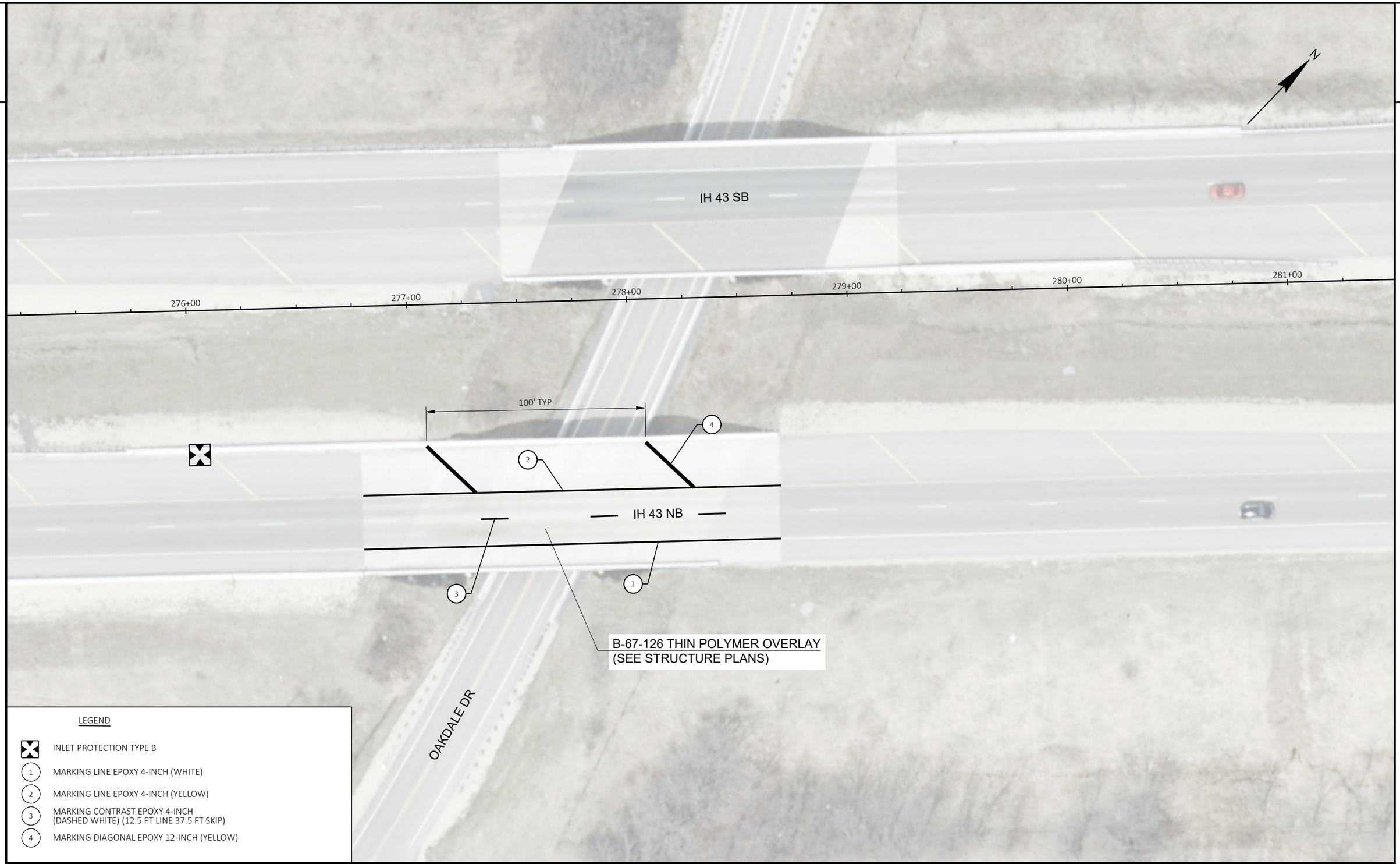
LEGEND

- INLET PROTECTION TYPE B
- (1) MARKING LINE EPOXY 4-INCH (WHITE)
- (2) MARKING LINE EPOXY 4-INCH (YELLOW)
- (3) MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (4) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS: B-67-132/133	SHEET 6	E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021203_pd
PLOT DATE : 11/13/2019 8:55 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

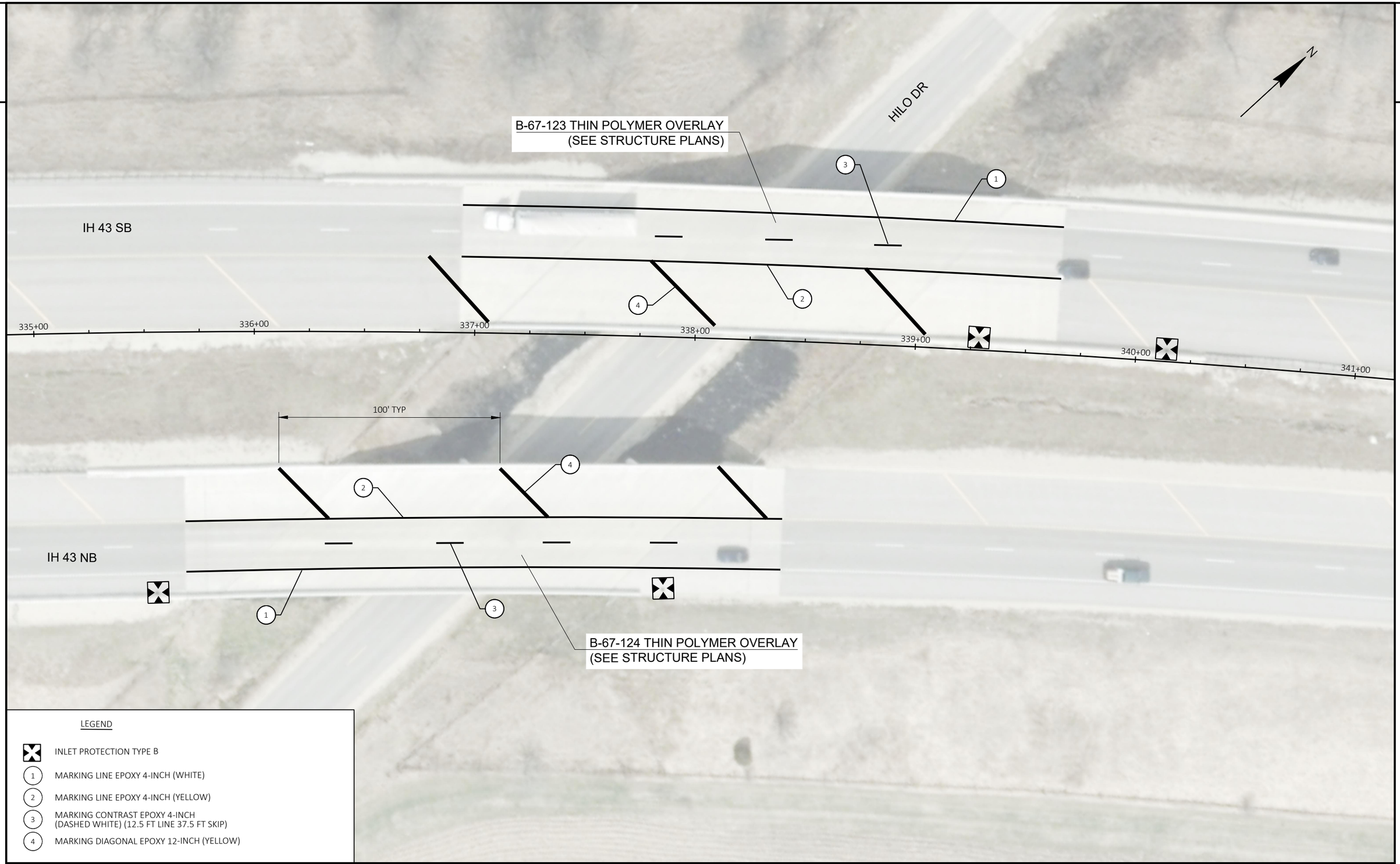
2



PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS: B-67-126	SHEET 7	E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021204_pd
PLOT DATE : 11/13/2019 8:55 AM
PLOT BY : JOHANSEN, AMANDA A
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- INLET PROTECTION TYPE B
- (1) MARKING LINE EPOXY 4-INCH (WHITE)
- (2) MARKING LINE EPOXY 4-INCH (YELLOW)
- (3) MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (4) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS: B-67-123/124	SHEET 8	E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021205_pd
PLOT DATE : 11/13/2019 8:56 AM
PLOT BY : JOHANSEN, AMANDA A
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

EVERGREEN RD

N

IH 43 SB

100' TYP

401+00 402+00 403+00 404+00 405+00 406+00 407+

4

2

IH 43 NB

3

1

B-67-120 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS)

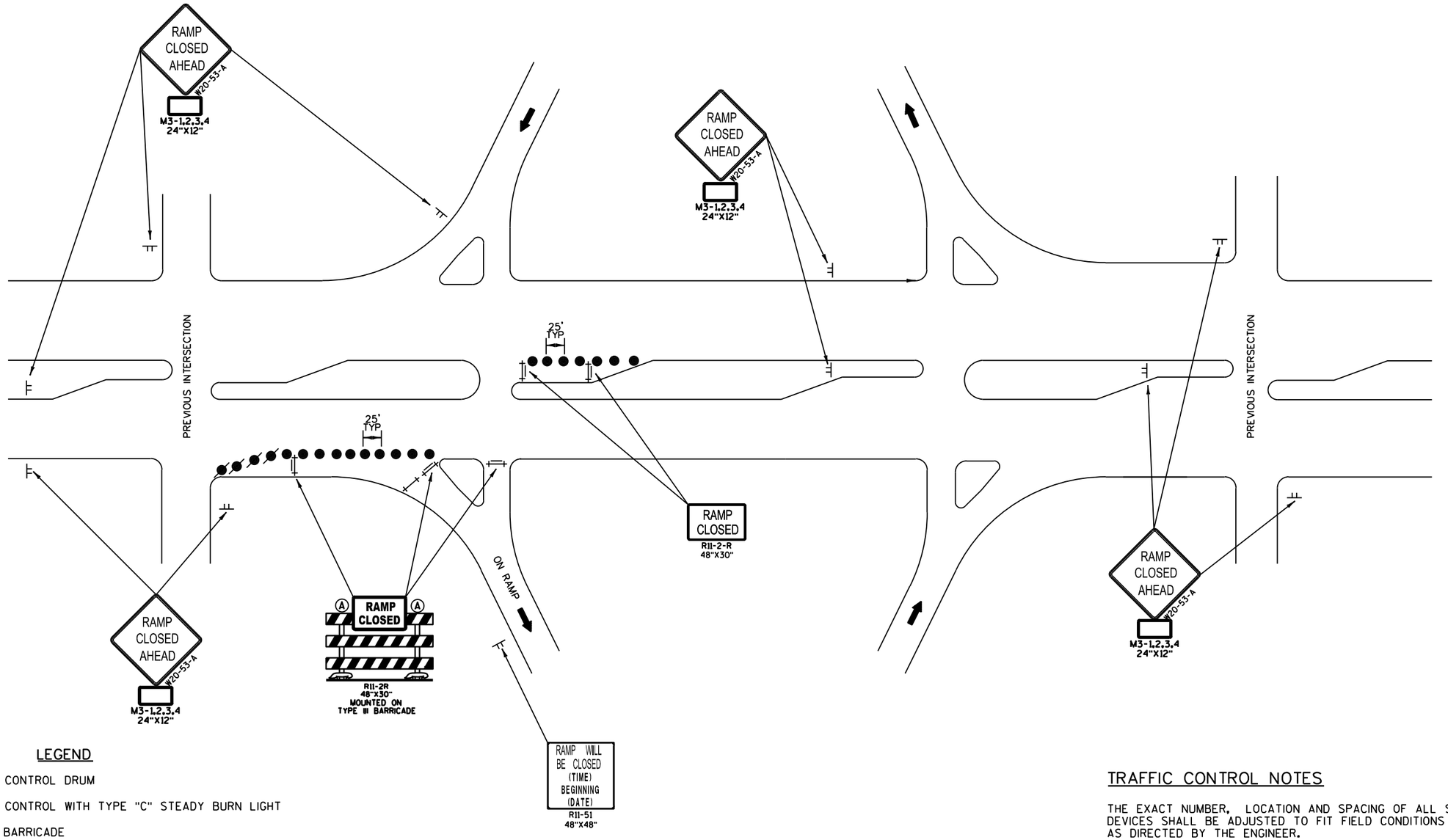
LEGEND

- INLET PROTECTION TYPE B
- 1 MARKING LINE EPOXY 4-INCH (WHITE)
- 2 MARKING LINE EPOXY 4-INCH (YELLOW)
- 3 MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- 4 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS: B-67-120	SHEET 9	E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021206_pd
PLOT DATE : 11/13/2019 8:57 AM
PLOT BY : JOHANSEN, AMANDA A
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

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

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
SHORT TERM ONLY

TRAFFIC CONTROL NOTES

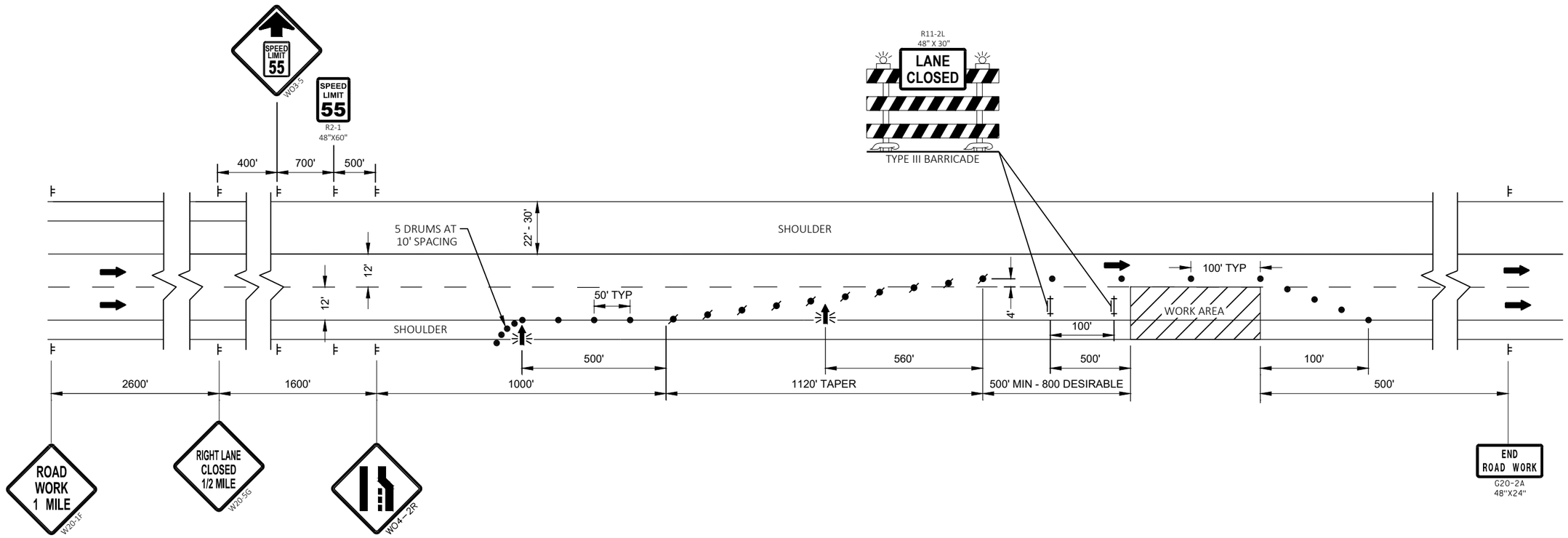
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

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

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

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

2



LEGEND

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

NIGHT TIME LANE CLOSURE AT BRIDGE(S)

STAGE 1:	STAGE 2:
B-67-334	B-67-334 & B-67-127
B-67-127	B-67-128 & B-67-132
B-67-128	B-67-133 & B-67-123
B-67-132	B-67-126, B-67-124 & B-67-120
B-67-133	
B-67-126	
B-67-123	
B-67-124 & B-67-120	

TRAFFIC CONTROL NOTES

THIS LANE CLOSURE IS TYPICAL FOR CLOSING THE 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 DIRECTED BY THE ENGINEER.

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

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS.

2

GENERAL NOTES:

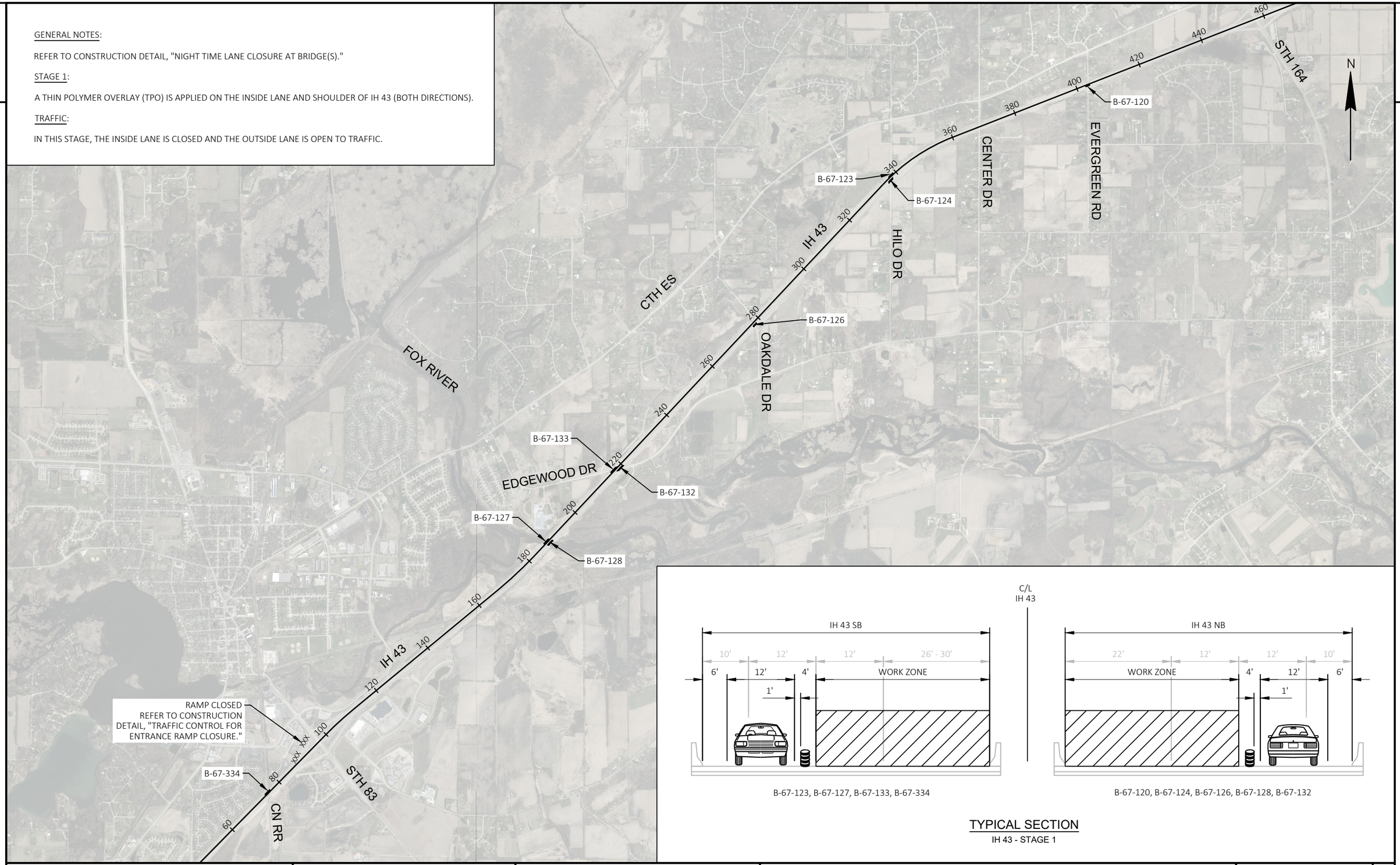
REFER TO CONSTRUCTION DETAIL, "NIGHT TIME LANE CLOSURE AT BRIDGE(S)."

STAGE 1:

A THIN POLYMER OVERLAY (TPO) IS APPLIED ON THE INSIDE LANE AND SHOULDER OF IH 43 (BOTH DIRECTIONS).

TRAFFIC:

IN THIS STAGE, THE INSIDE LANE IS CLOSED AND THE OUTSIDE LANE IS OPEN TO TRAFFIC.



B-67-123, B-67-127, B-67-133, B-67-334

B-67-120, B-67-124, B-67-126, B-67-128, B-67-132

TYPICAL SECTION
IH 43 - STAGE 1

PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1 OVERVIEW	SHEET 12	E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\025001_TC-STAGE 1 - OVERVIEW.DWG
LAYOUT NAME - Stage 1 Overview

PLOT DATE : 12/18/2019 9:52 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDS SHEET 42

2

GENERAL NOTES:

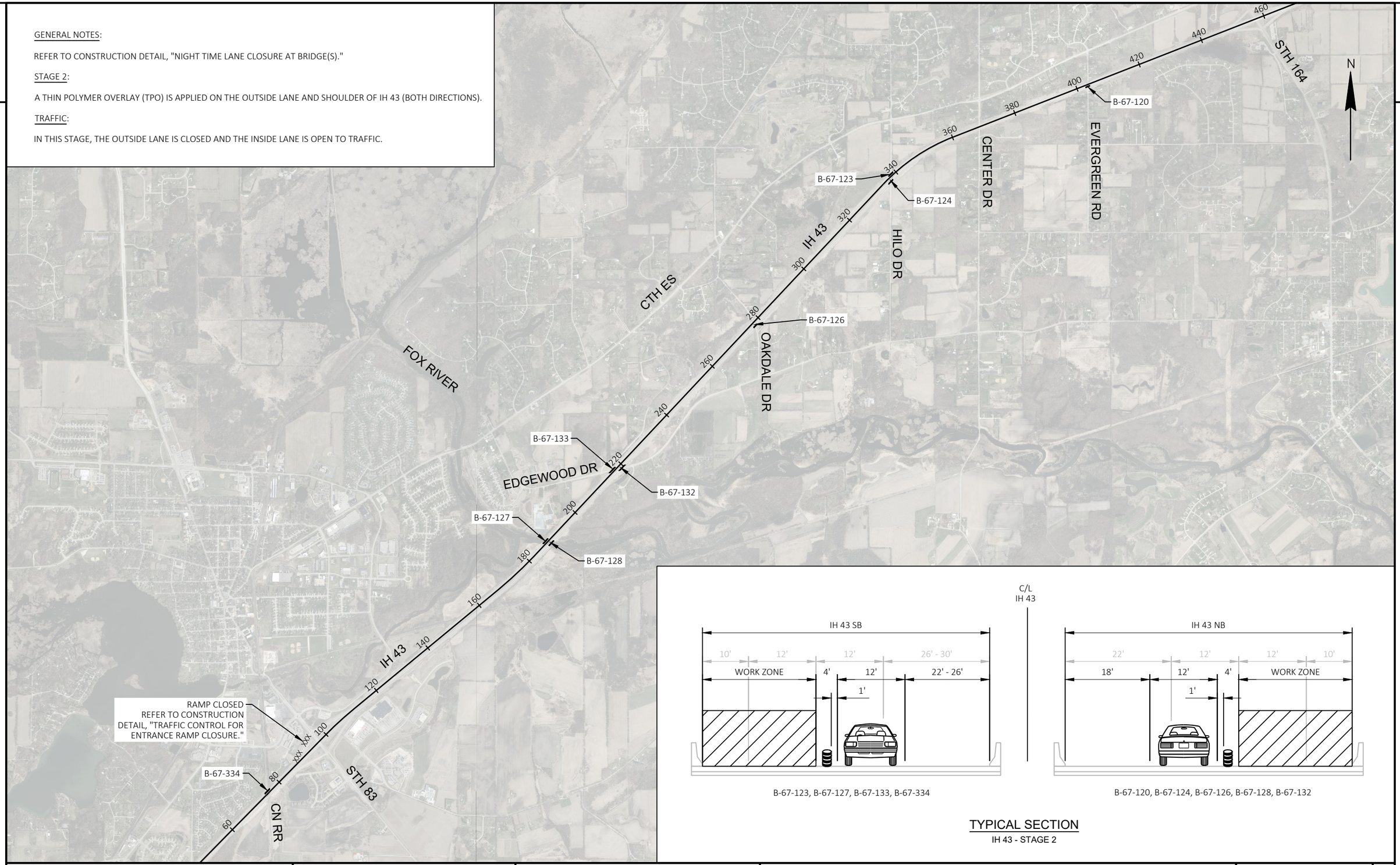
REFER TO CONSTRUCTION DETAIL, "NIGHT TIME LANE CLOSURE AT BRIDGE(S)."

STAGE 2:

A THIN POLYMER OVERLAY (TPO) IS APPLIED ON THE OUTSIDE LANE AND SHOULDER OF IH 43 (BOTH DIRECTIONS).

TRAFFIC:

IN THIS STAGE, THE OUTSIDE LANE IS CLOSED AND THE INSIDE LANE IS OPEN TO TRAFFIC.



B-67-123, B-67-127, B-67-133, B-67-334

B-67-120, B-67-124, B-67-126, B-67-128, B-67-132

TYPICAL SECTION

IH 43 - STAGE 2

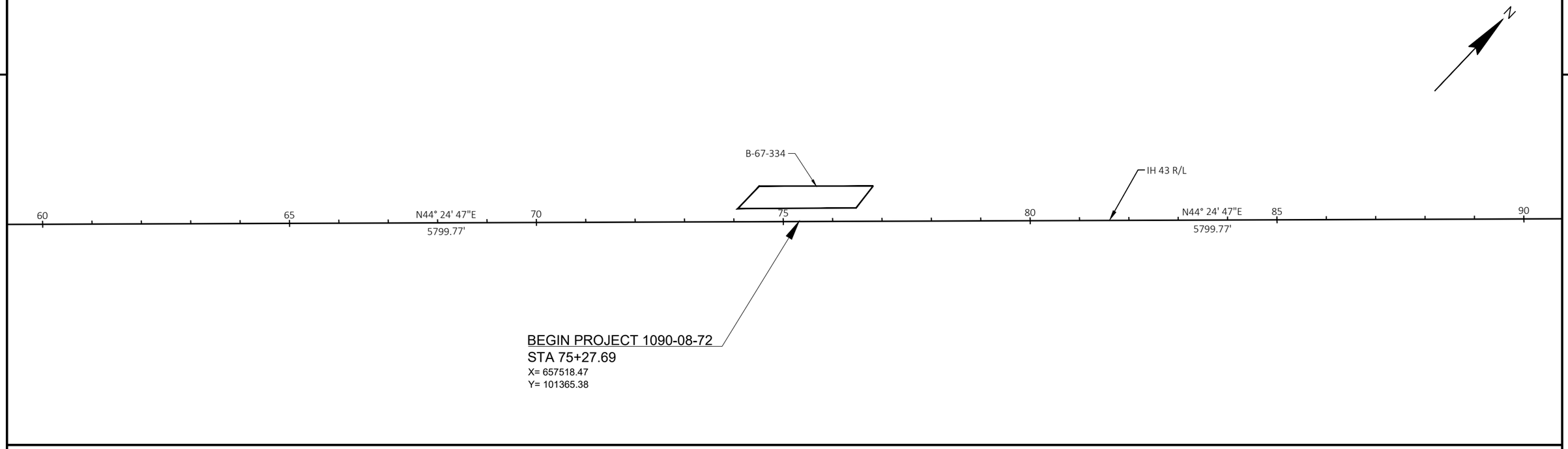
PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2 OVERVIEW	SHEET 13	E

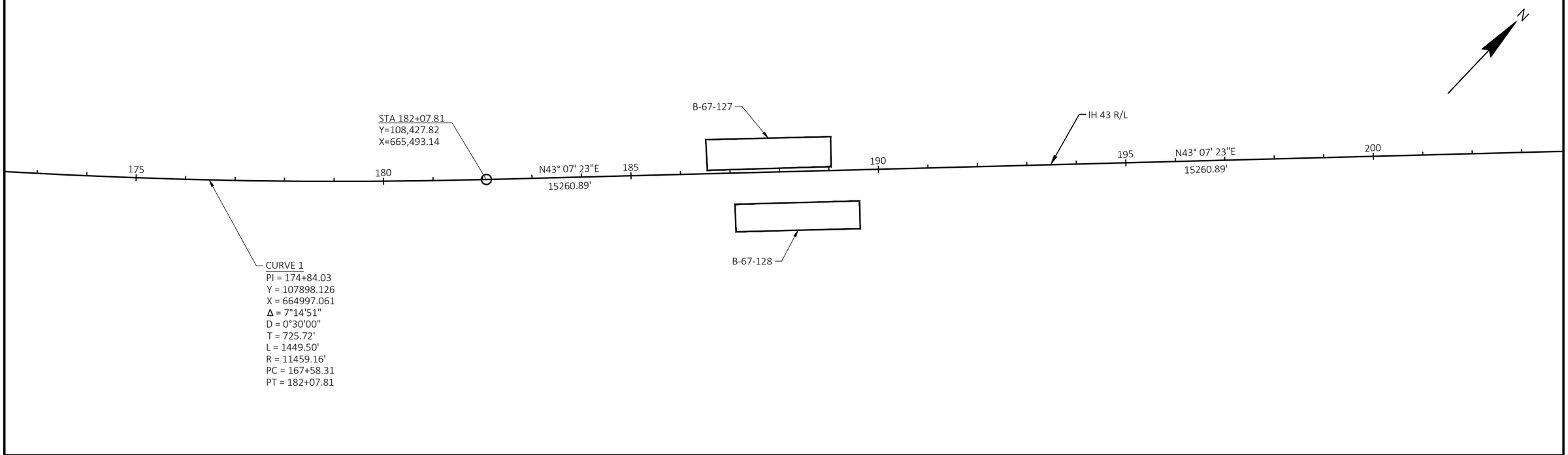
FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\025002_TC-STAGE 2 - OVERVIEW.DWG
LAYOUT NAME - Stage 2 Overview

PLOT DATE : 12/18/2019 9:55 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDS SHEET 42

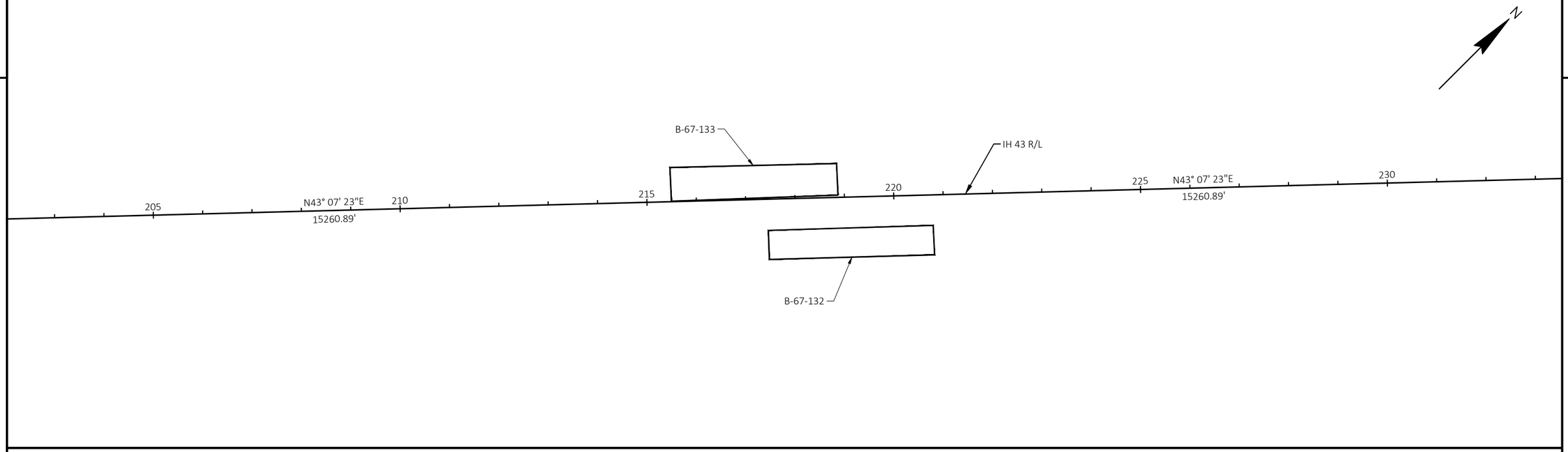
2

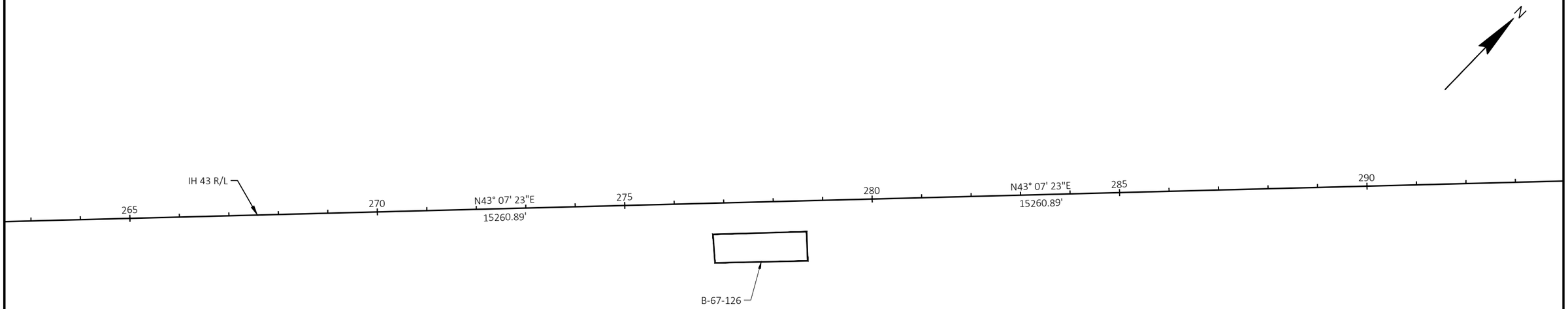




PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 14	E

2

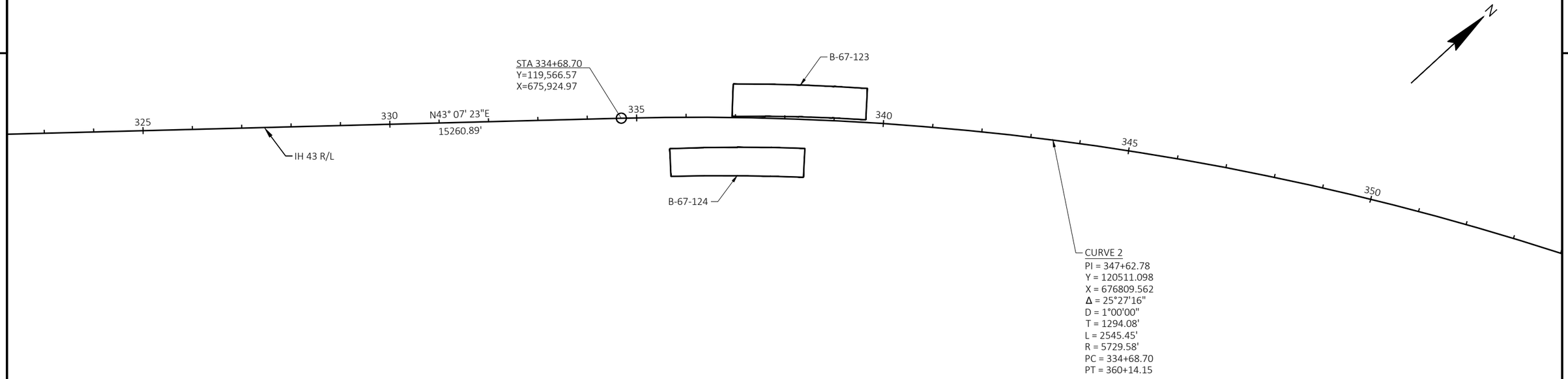


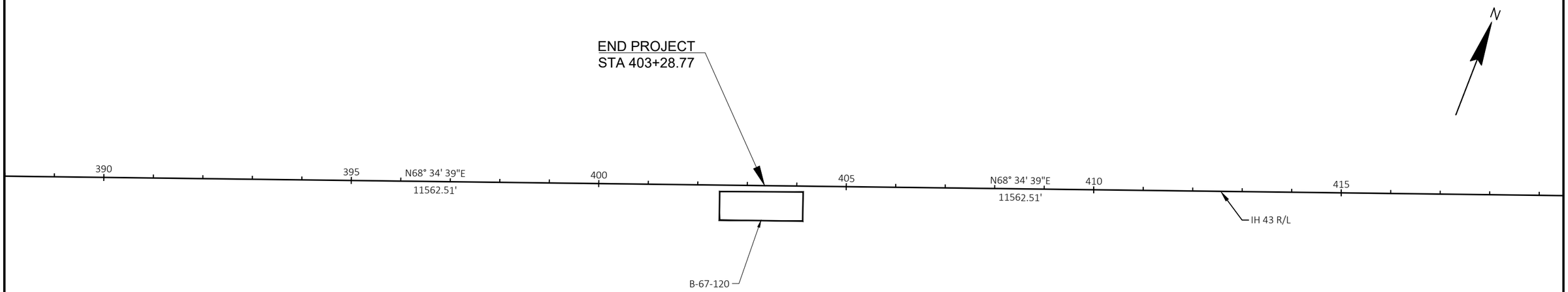


PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 15	E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027202_ad
PLOT DATE : 8/27/2019 2:58 PM
PLOT BY : JOHANSEN, AMANDA A
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2





PROJECT NO: 1090-08-72	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 16	E

FILE NAME : N:\PDS\C3D\10900802\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027203_ad

PLOT DATE : 8/27/2019 2:59 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:200 FT

1090-08-72

Line	Item	Item Description	Unit	Total	Qty
0012	213.0100	Finishing Roadway (project) 0002. 1090-08-72	EACH	1.000	1.000
0028	509.5100.S	Polymer Overlay	SY	10,525.000	10,525.000
0038	619.1000	Mobilization	EACH	0.400	0.400
0040	628.7010	Inlet Protection Type B	EACH	20.000	20.000
0042	642.5401	Field Office Type D	EACH	0.400	0.400
0044	643.0300	Traffic Control Drums	DAY	4,064.000	4,064.000
0046	643.0420	Traffic Control Barricades Type III	DAY	254.000	254.000
0048	643.0705	Traffic Control Warning Lights Type A	DAY	508.000	508.000
0050	643.0715	Traffic Control Warning Lights Type C	DAY	978.000	978.000
0052	643.0800	Traffic Control Arrow Boards	DAY	85.000	85.000
0054	643.0900	Traffic Control Signs	DAY	858.000	858.000
0060	643.4100.S	Traffic Control Interim Lane Closure	EACH	22.000	22.000
0062	643.5000	Traffic Control	EACH	0.400	0.400
0066	646.1020	Marking Line Epoxy 4-Inch	LF	4,735.000	4,735.000
0068	646.7120	Marking Diagonal Epoxy 12-Inch	LF	780.000	780.000
0070	646.9000	Marking Removal Line 4-Inch	LF	3,790.000	3,790.000
0072	646.9200	Marking Removal Line Wide	LF	506.000	506.000
0074	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	4,735.000	4,735.000
0076	649.0155	Temporary Marking Line Removable Contrast Tape 4-Inch	LF	425.000	425.000
0086	SPV.0060	Special 0001. Traffic Control Close-Open Freeway Entrance Ramp	EACH	3.000	3.000
0090	SPV.0090	Special 0001. Marking Contrast Epoxy 4-Inch	LF	425.000	425.000

3

INLET PROTECTION

CATEGORY	LOCATION	STATION	TO	STATION	OFFSET	628.7010 INLET PROTECTION TYPE B EACH
1000	B-67-127	189+40	-	189+55	LT	2
	B-67-128	185+55	-	189+70	RT	3
	B-67-133	218+30	-	219+23	LT	2
	B-67-132	216+05			RT	2
	B-67-126	276+05			RT	1
	B-67-123	339+28	-	340+14	LT	2
	B-67-124	335+55	-	337+85	RT	2
	B-67-120	401+75	-	404+20	RT	2
	UNDISTRIBUTED					4
	TOTALS					20

PAVEMENT MARKING

CATEGORY	LOCATION	STATION	TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF	SPV.0090.0001 MARKING CONTRAST EPOXY 4-INCH (12.5 FT LINE 37.5 FT SKIP) LF
1000	B-67-334	74+00	-	77+00	291	291	--	526	--	50
	B-67-127	186+50	-	189+05	251	251	104	452	68	50
	B-67-128	187+00	-	189+75	251	251	91	454	61	50
	B-67-133	215+50	-	218+87	338	338	121	478	79	63
	B-67-132	217+40	-	220+80	335	335	125	491	82	50
	B-67-126	276+75	-	278+65	189	189	61	305	52	38
	B-67-123	336+75	-	339+65	272	273	122	383	69	38
	B-67-124	335+65	-	338+40	270	270	95	398	49	50
	B-67-120	402+45	-	404+15	170	170	61	303	46	38
	SUBTOTAL				2367	2368	780	3790	506	425
	TOTAL				4735		780	3790	506	425

3

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100.0002 FINISHING ROADWAY EACH
1000	1090-08-72	1

MOBILIZATION

CATEGORY	PROJECT	619.1000 MOBILIZATION EACH
1000	1090-08-72	0.40

FIELD FACILITIES OFFICE SPACE

CATEGORY	PROJECT	642.5401 FIELD OFFICE TYPE D EACH
1000	1090-08-72	0.40

TRAFFIC CONTROL

CATEGORY	STAGE	LOCATION	DAYS	643.0300 TRAFFIC CONTROL DRUMS *EACH	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III *EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A *EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C *EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS *EACH	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS *EACH	643.0900 TRAFFIC CONTROL SIGNS DAY
1000	1	B-67-334	1	49	49	2	2	4	4	23	23	2	2	14	14
		B-67-127	2	49	98	2	4	4	8	23	46	2	4	14	28
		B-67-128	2	64	128	3	6	6	12	23	46	2	4	15	30
		B-67-132	2	49	98	2	4	4	8	23	46	2	4	14	28
		B-67-133	2	49	98	2	4	4	8	23	46	2	4	14	28
		B-67-126	1	48	48	2	2	4	4	23	23	2	2	14	14
		B-67-123	2	65	130	3	6	6	12	23	46	2	4	15	30
		B-67-124 & B-67-120	2	114	228	8	16	16	32	23	46	2	4	20	40
		IH 43 ENTRANCE RAMP OFF STH 83	1	14	14	7	7	14	14	--	--	--	--	28	28
		PAVEMENT MARKING PLACEMENT	1	487	487	24	24	48	48	184	184	16	16	120	120
		SUBTOTAL			1378		75		150		506		44		360
	2	B-67-334 & B-67-127	2	161	322	11	22	22	44	23	46	2	4	23	46
		B-67-128 & B-67-132	2	95	190	4	8	8	16	23	46	2	4	18	36
		B-67-133 & B-67-123	2	186	372	11	22	22	44	23	46	2	4	25	50
		B-67-126, B-67-124 & B-67-120	2	173	346	12	24	24	48	23	46	2	4	24	48
		IH 43 ENTRANCE RAMP OFF STH 83	2	14	28	7	14	14	28	--	--	--	--	28	56
		PAVEMENT MARKING PLACEMENT	1	615	615	38	38	76	76	92	92	8	8	90	90
		SUBTOTAL			1873		128		256		276		24		326
		UNDISTRIBUTED			813		51		102		196		17		172
		TOTAL			4064		254		508		978		85		858

TEMPORARY PAVEMENT MARKING

CATEGORY	LOCATION	STATION	TO	STATION	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	649.0155 TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (12.5 FT LINE 37.5 FT SKIP) LF
1000	B-67-334	74+00	-	77+00	291	291	50
	B-67-127	186+50	-	189+05	251	251	50
	B-67-128	187+00	-	189+75	251	251	50
	B-67-133	215+50	-	218+87	338	338	63
	B-67-132	217+40	-	220+80	335	335	50
	B-67-126	276+75	-	278+65	189	189	38
	B-67-123	336+75	-	339+65	272	273	38
	B-67-124	335+65	-	338+40	270	270	50
	B-67-120	402+45	-	404+15	170	170	38
	SUBTOTAL				2367	2368	425
	TOTAL				4735		425

TRAFFIC CONTROL

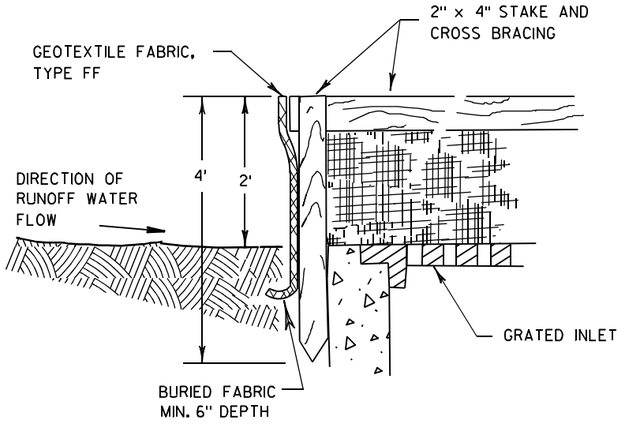
CATEGORY	PROJECT	643.5000 TRAFFIC CONTROL EACH	643.4100.S TRAFFIC CONTROL INTERIM LANE CLOSURE EACH	SPV.0060.0001 TRAFFIC CONTROL CLOSE-OPEN FREEWAY ENTRANCE RAMP EACH
1000	1090-08-72	0.40	22	--
	STH 83 ENTRANCE RAMP	--	--	3
	TOTAL	0.40	22	3

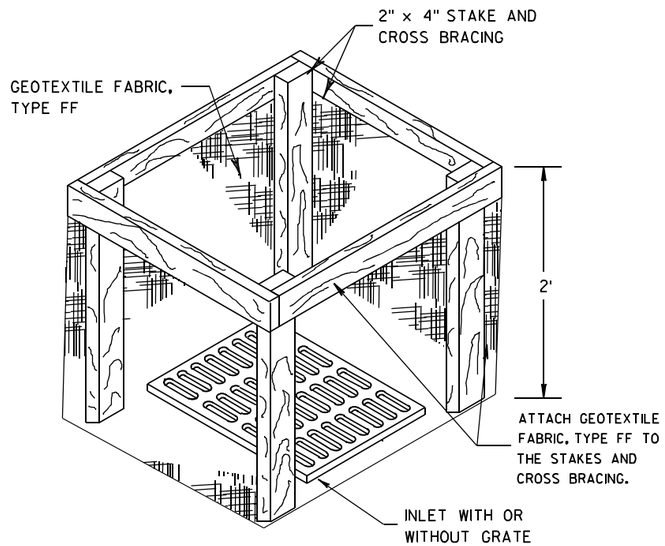
Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D12-07A	TRAFFIC CONTROL, LANE CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

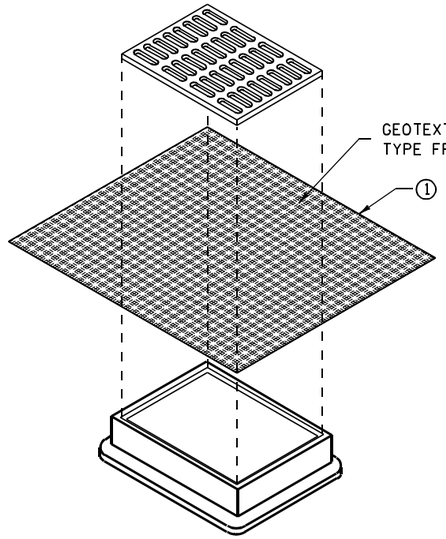
6

6



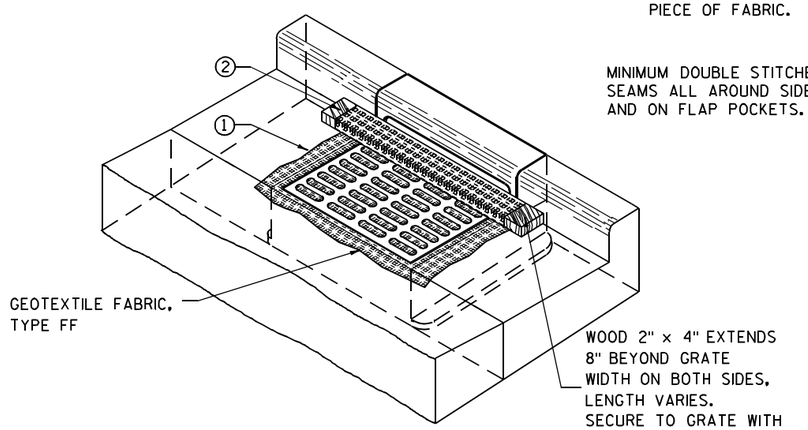


INLET PROTECTION, TYPE A

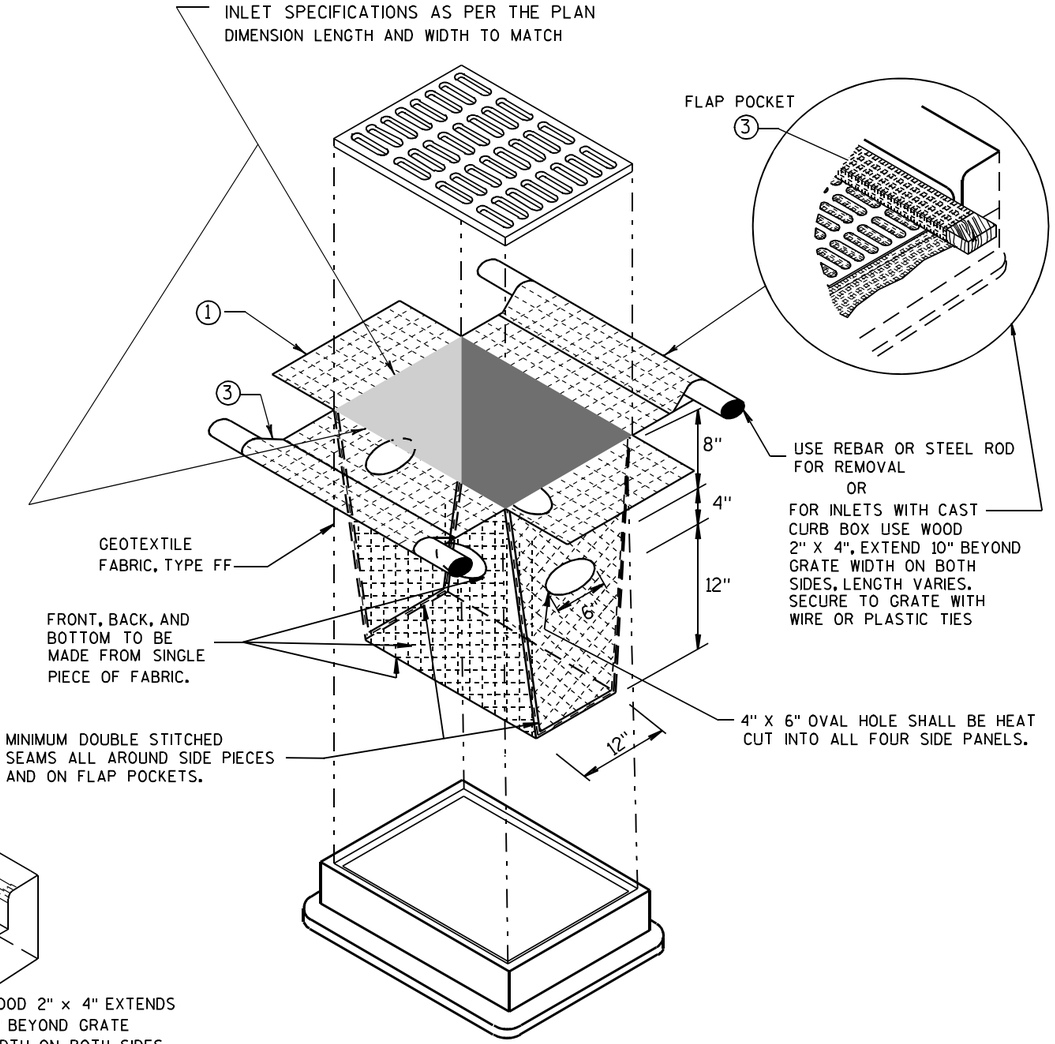


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

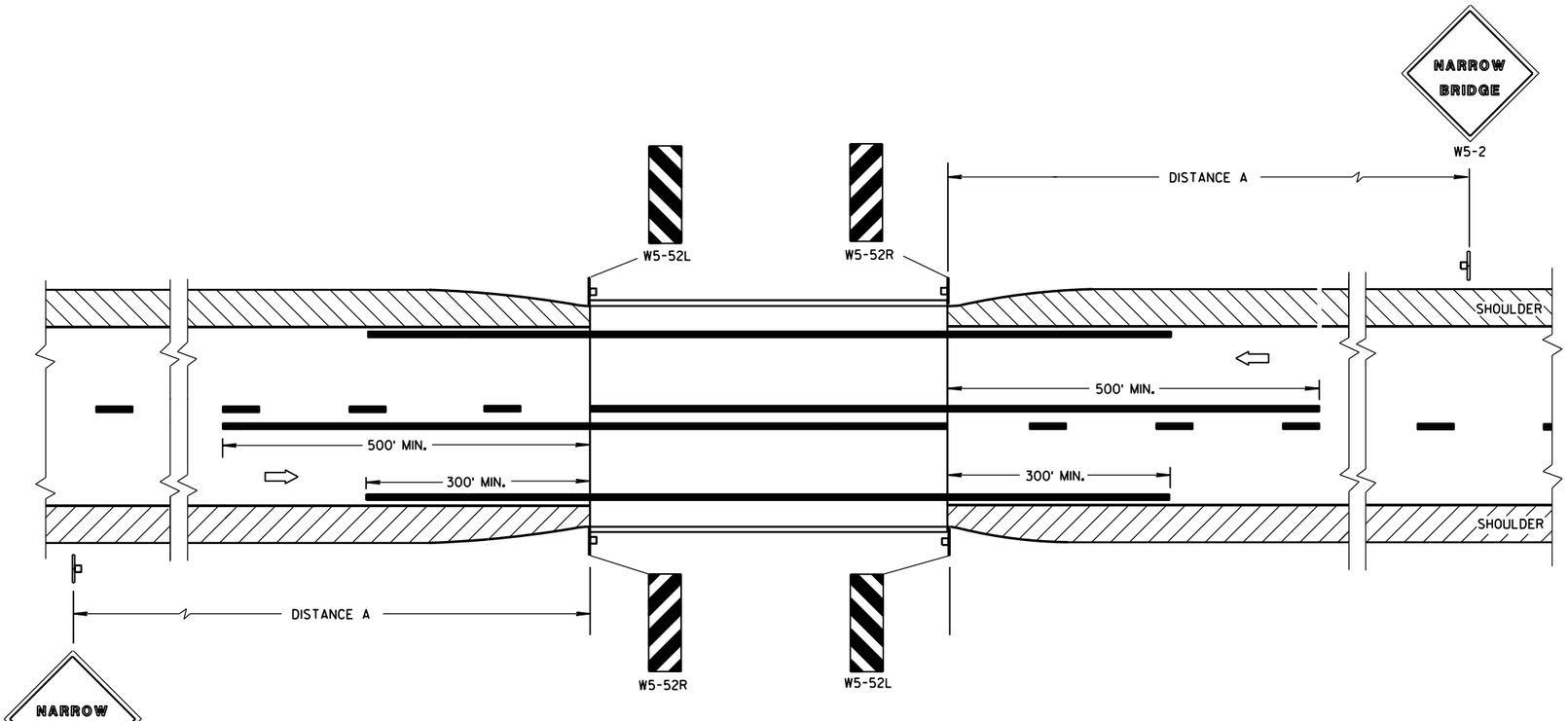
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

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.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

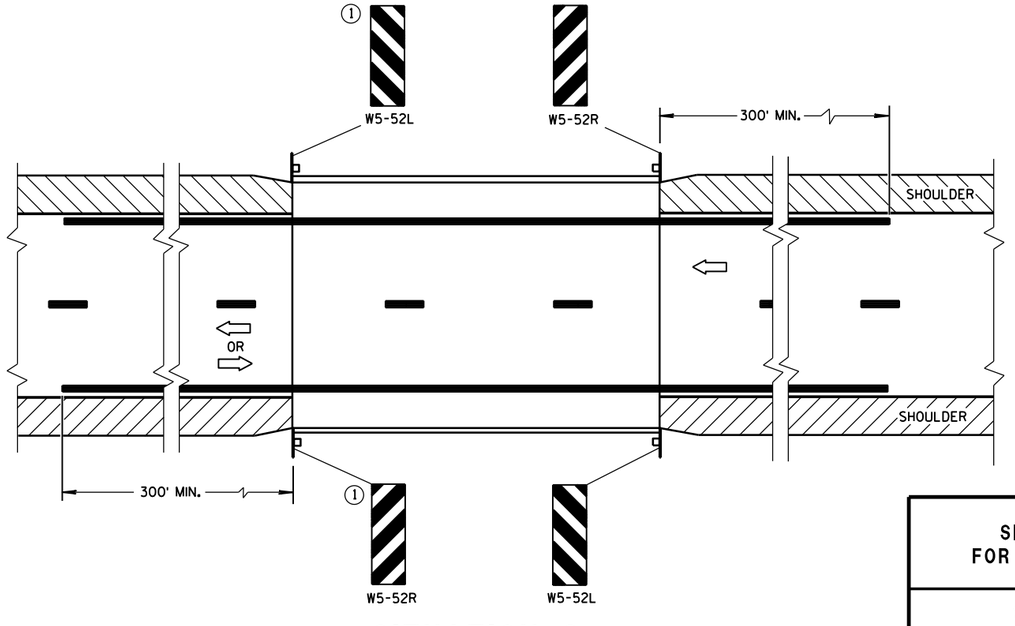
PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

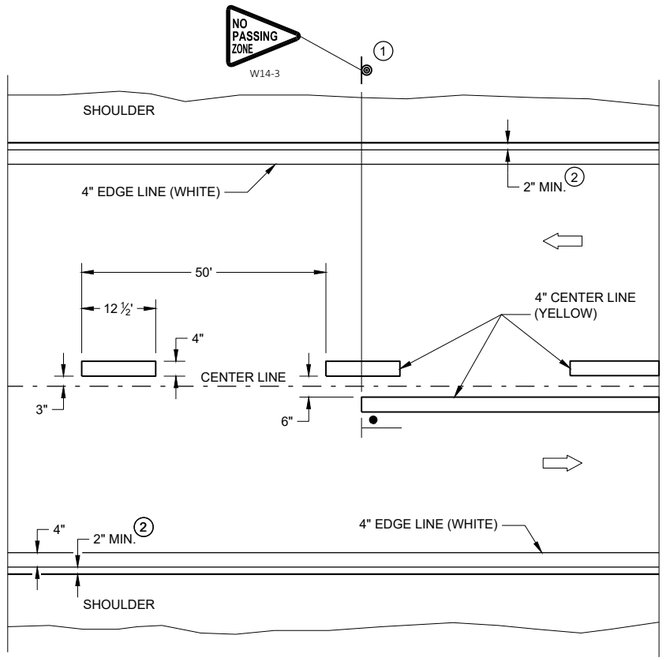
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

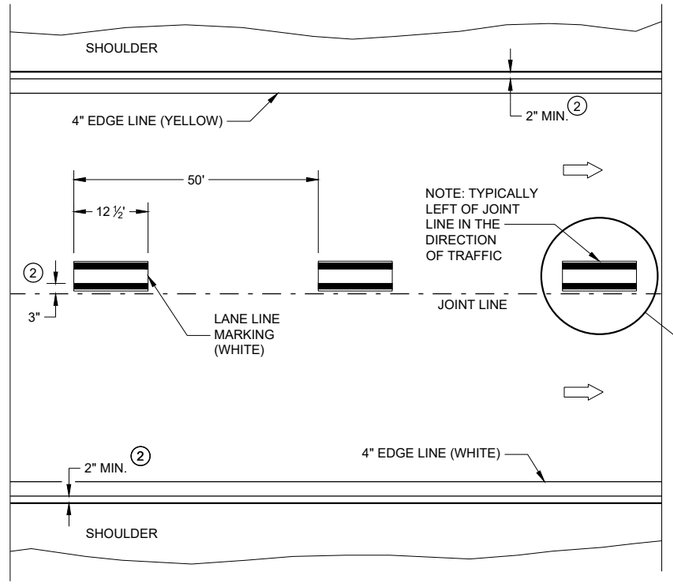
S.D.D. 15 C 6-9

6

S.D.D. 15 C 6-9

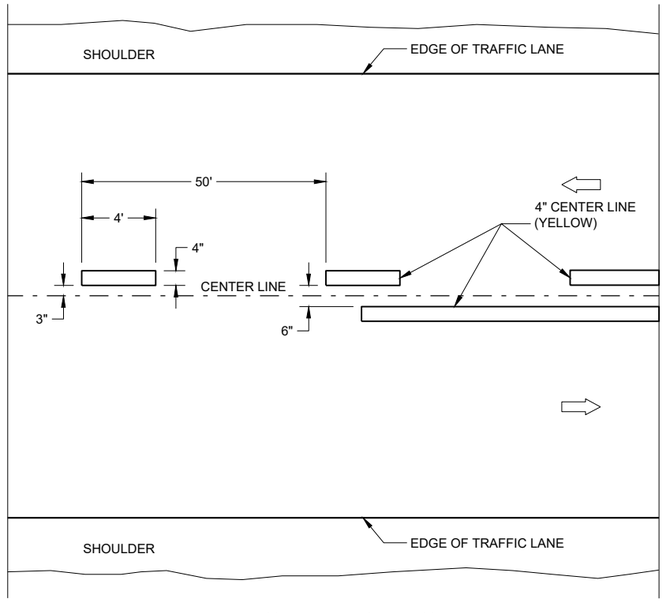


TWO WAY TRAFFIC

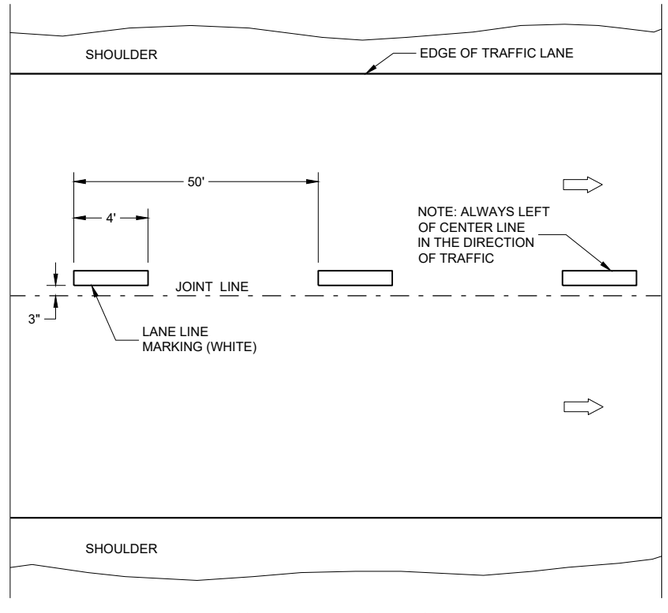


ONE WAY TRAFFIC

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.

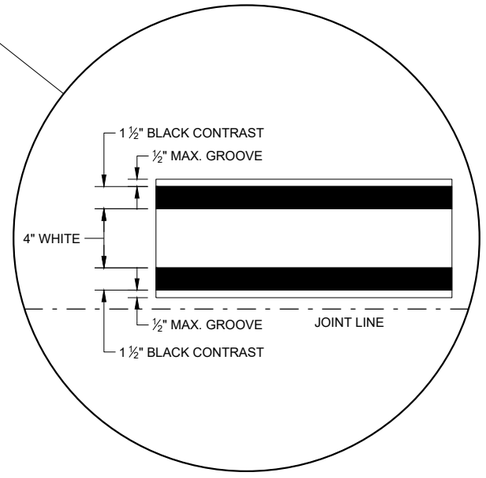
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

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

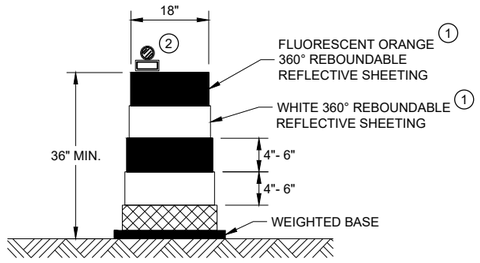
FHWA

SDD 15C08 - 20a

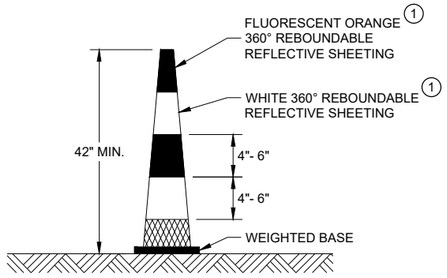
SDD 15C08 - 20a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

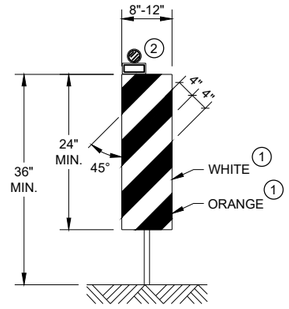


DRUM



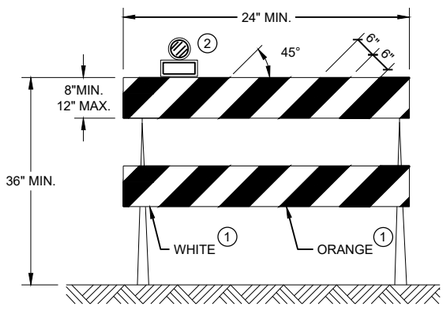
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



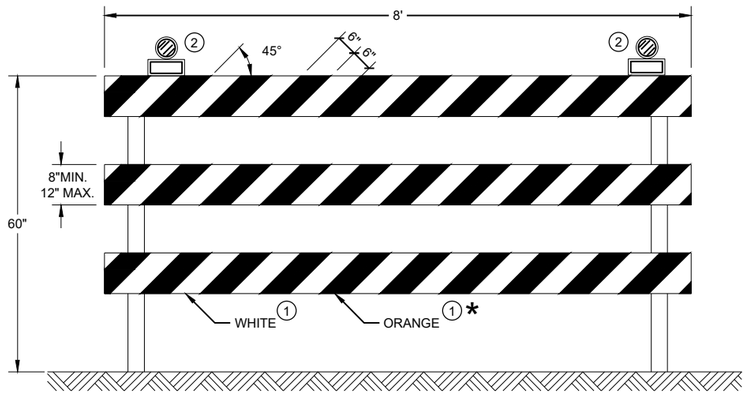
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 07b

6

SDD 15C11 - 07b

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.

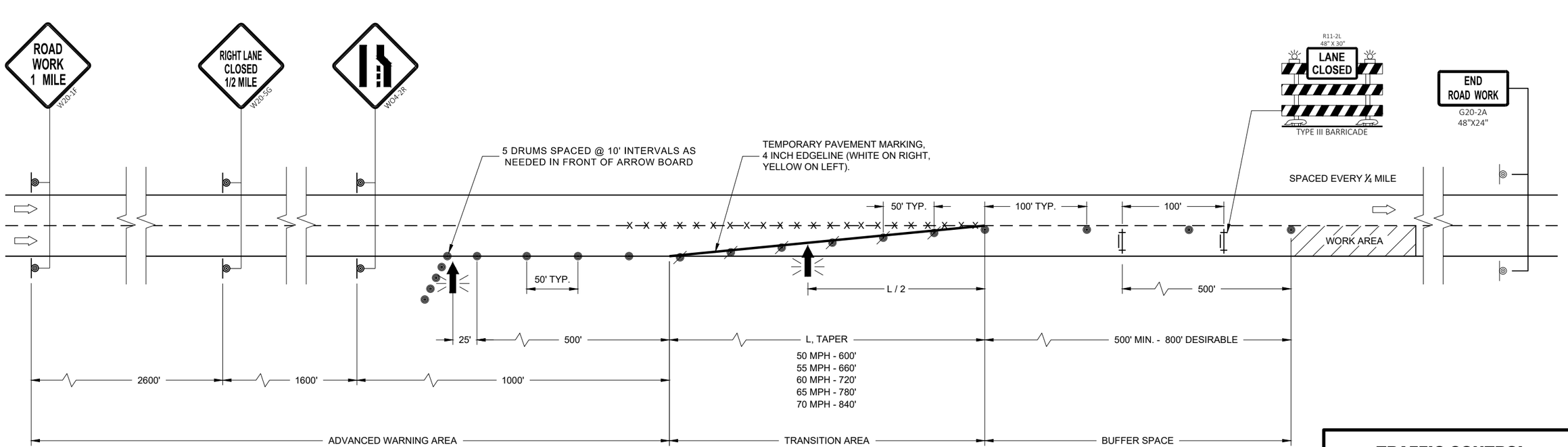
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

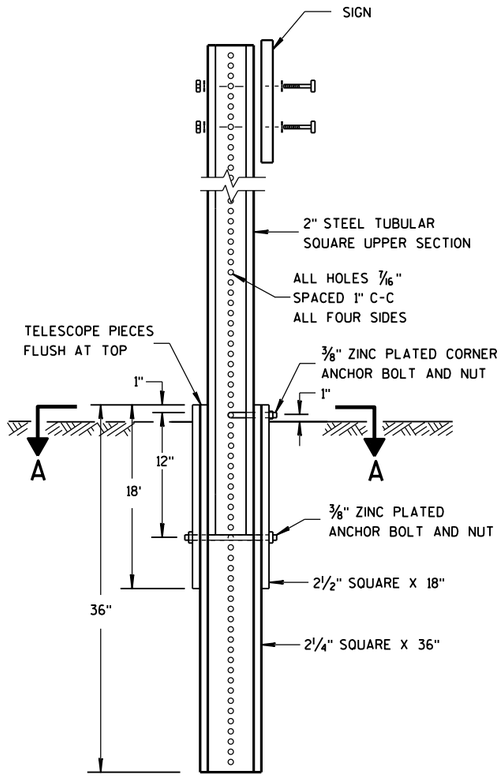
FHWA

6

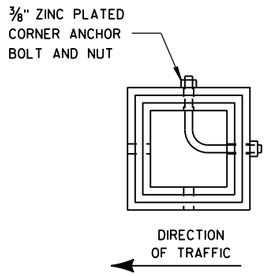
SDD 15D12 - 07a

6

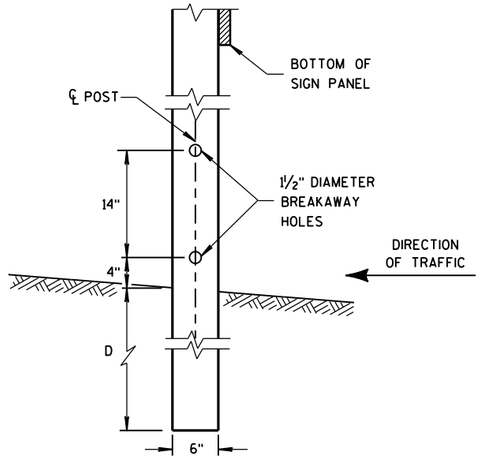
SDD 15D12 - 07a



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



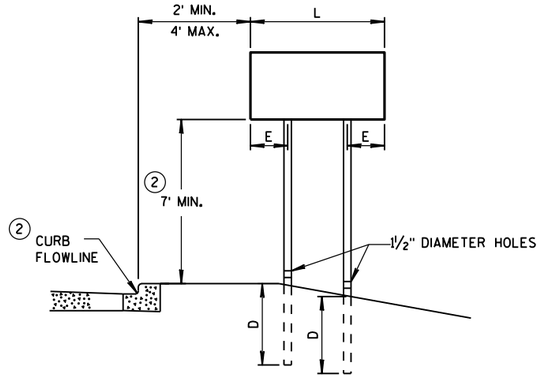
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

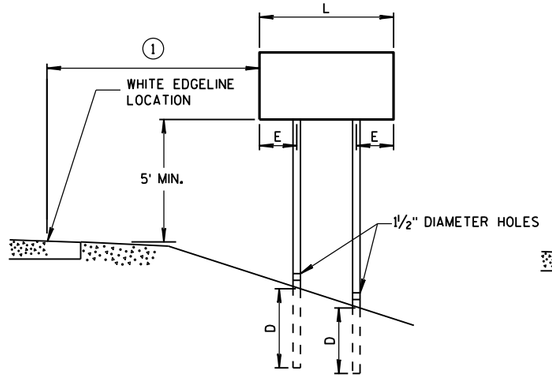
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

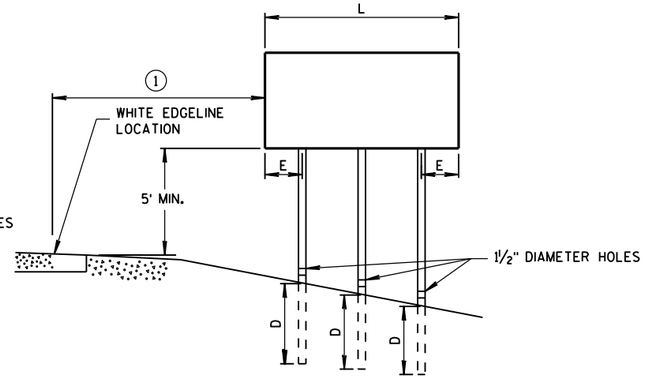
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

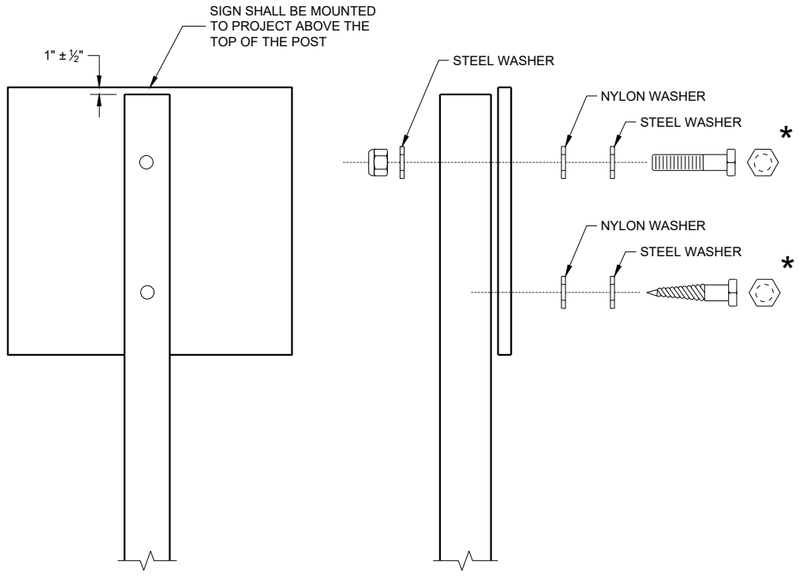
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

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.

6

6

SDD 15D38 - 02b

SDD 15D38 - 02b

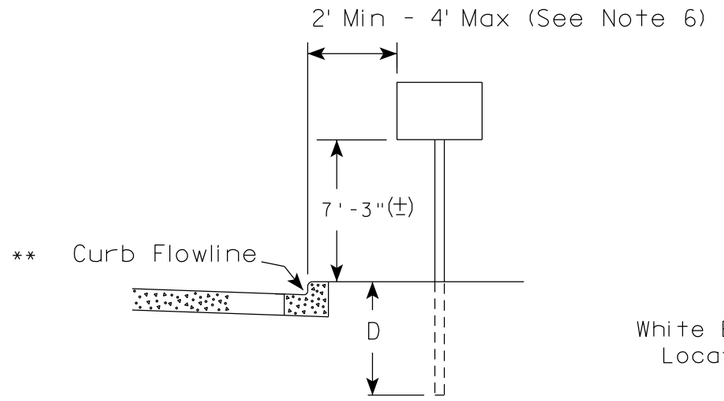
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

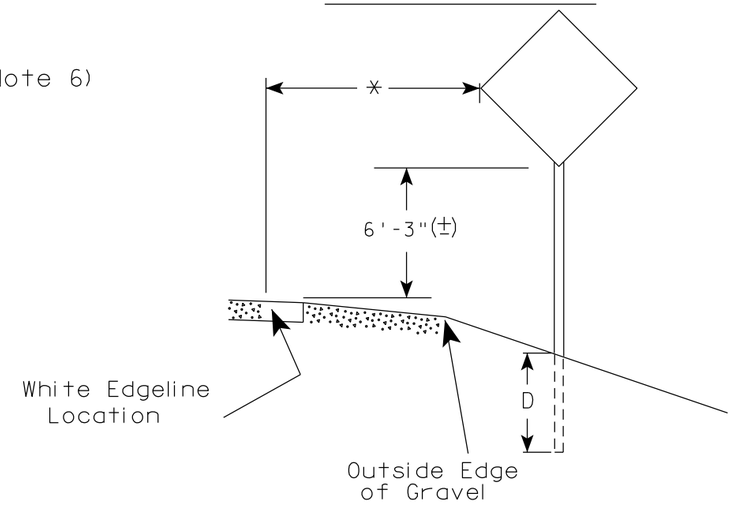
APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

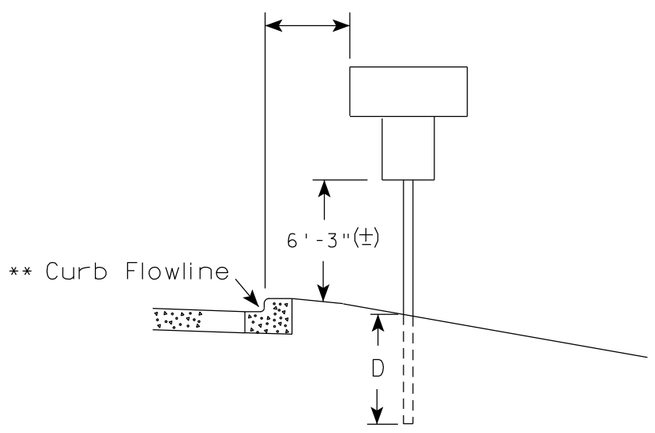
FHWA

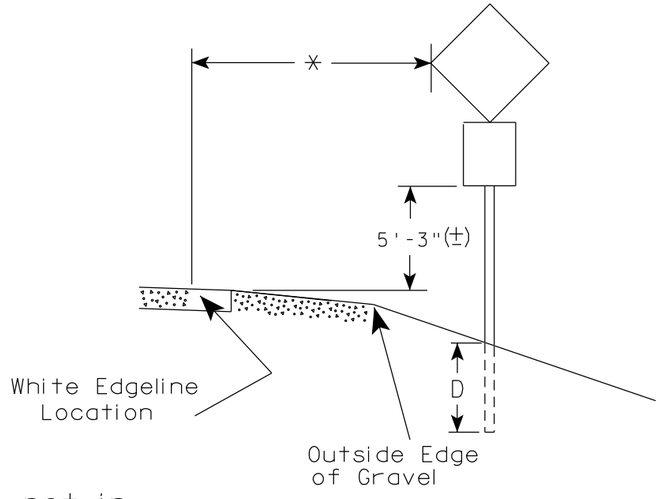
URBAN AREA



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.

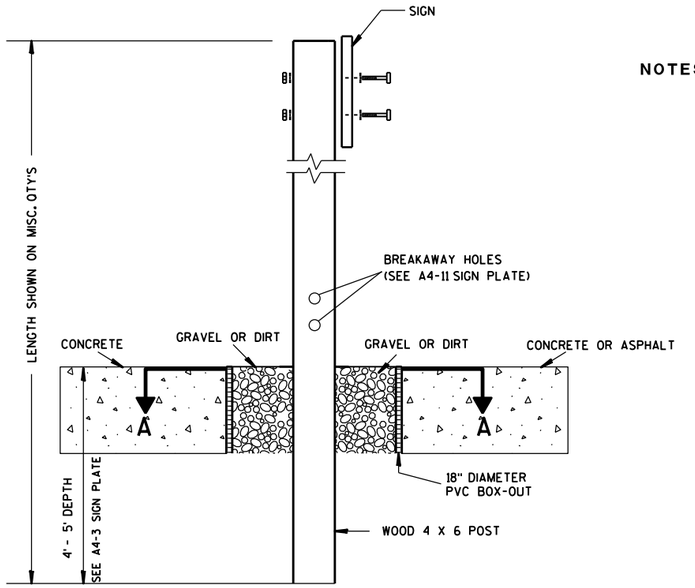
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

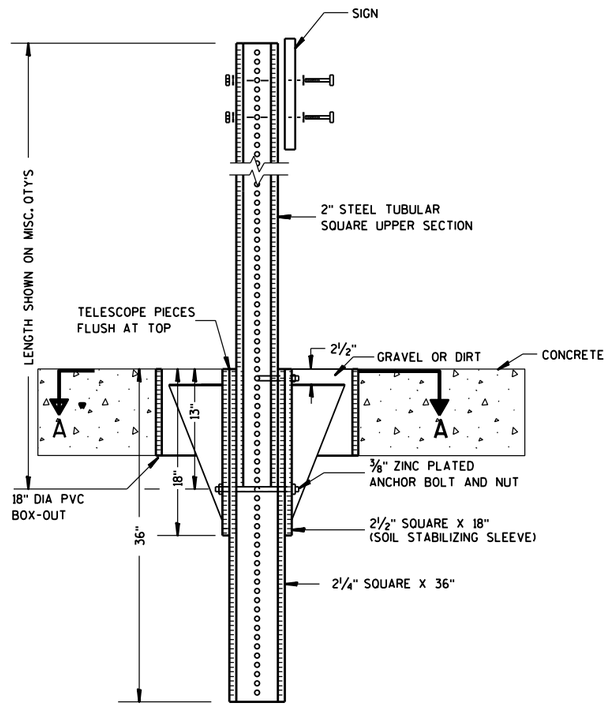
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 28	E



ELEVATION VIEW

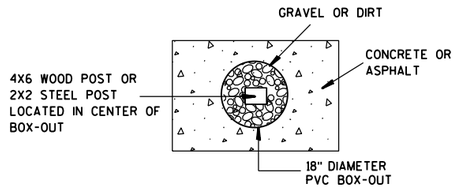
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

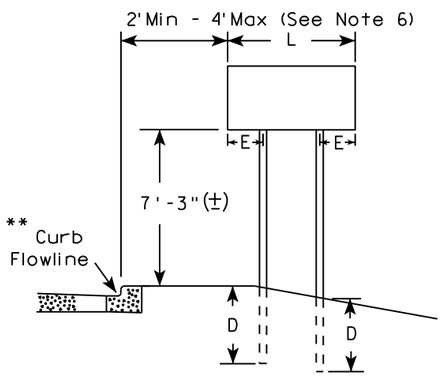
APPROVED Matthew R Rauch
for State Traffic Engineer

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

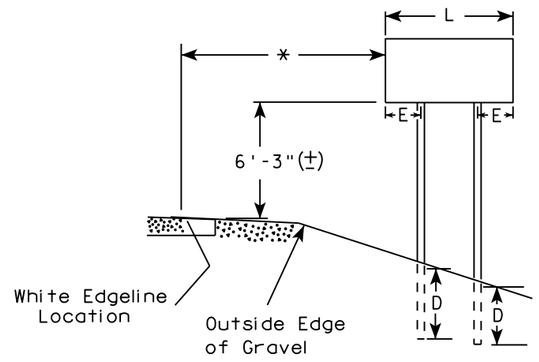
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

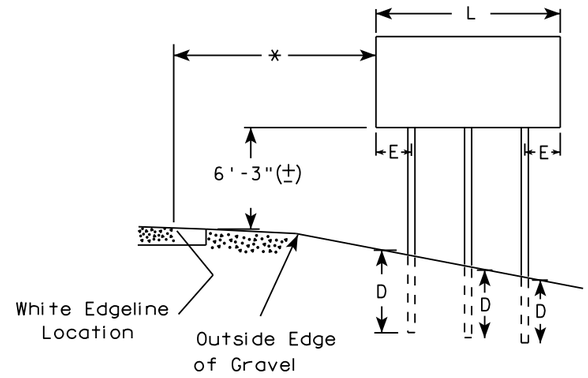
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

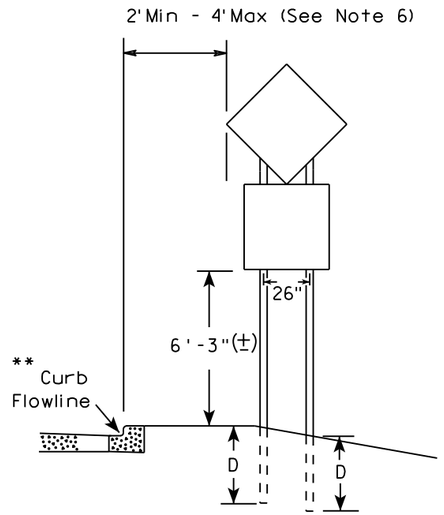
URBAN AREA



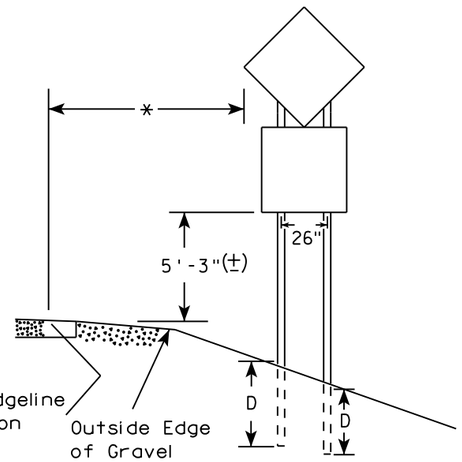
RURAL AREA (See Note 3)







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'

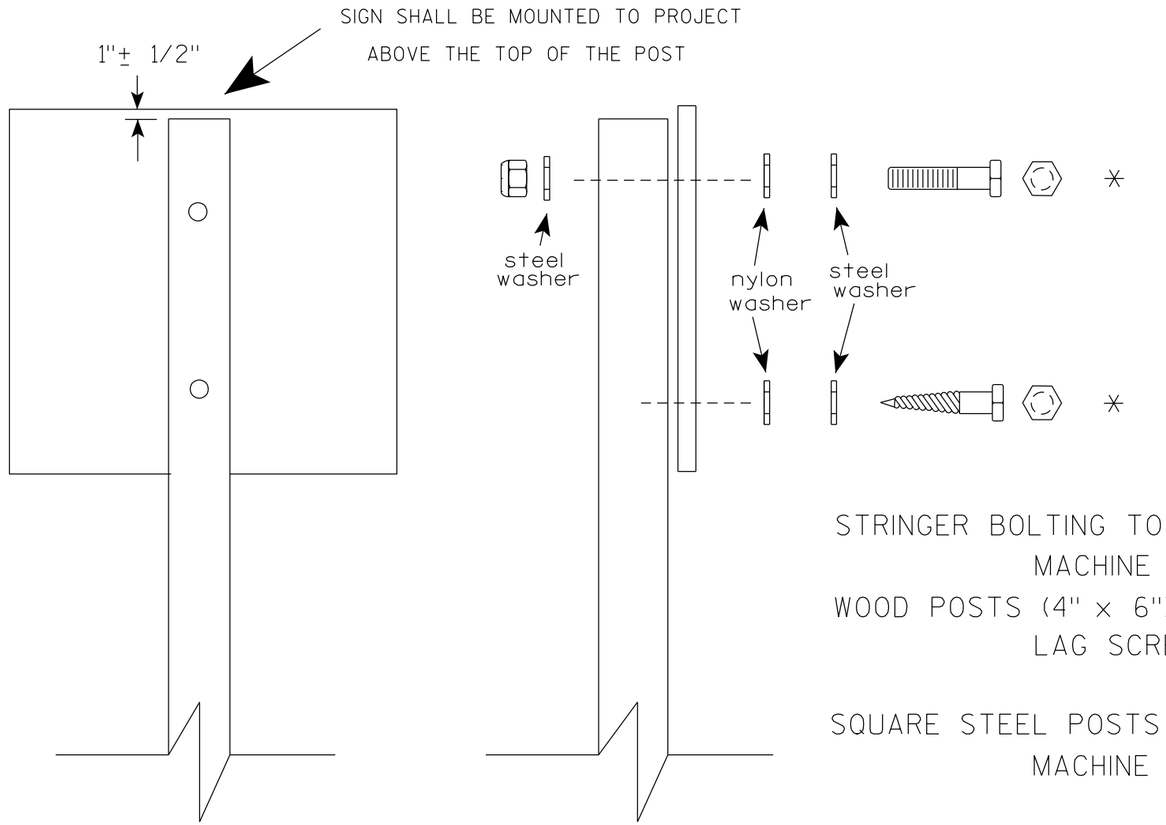
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 30	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

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

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

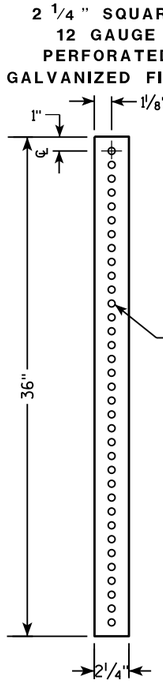
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

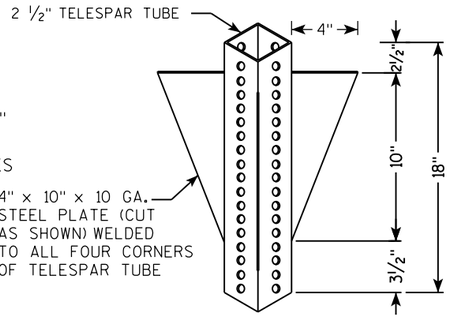
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

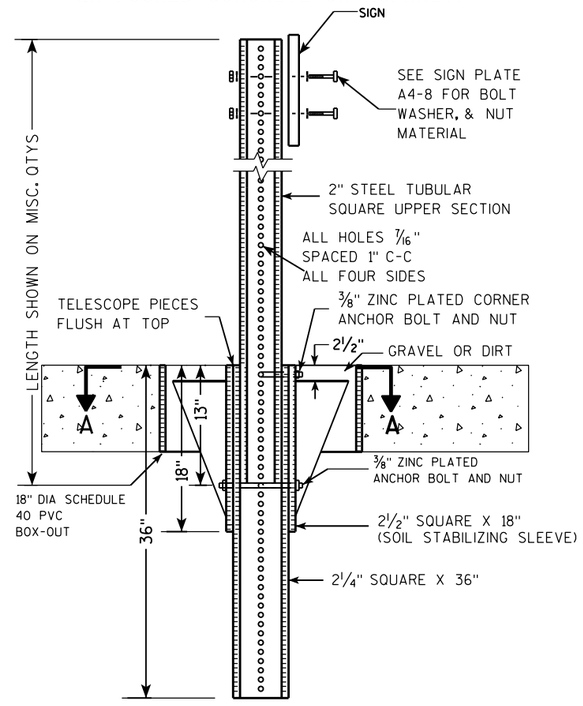
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



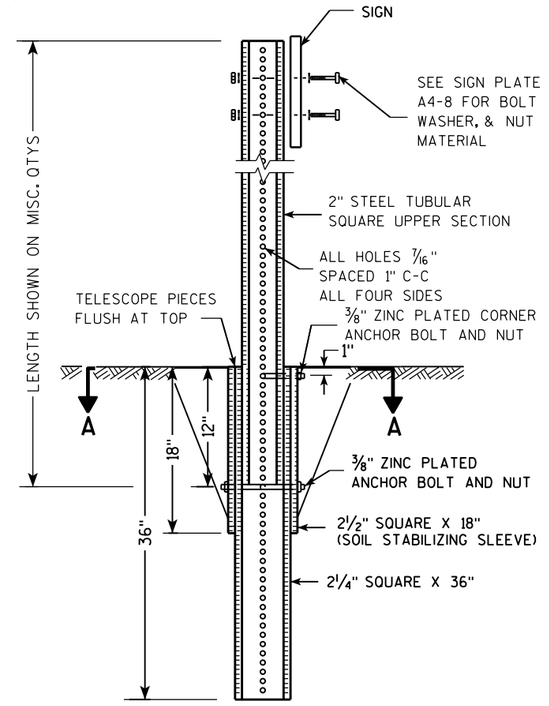
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

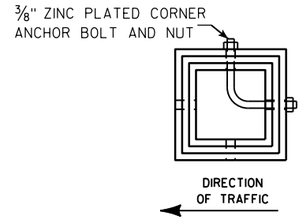


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

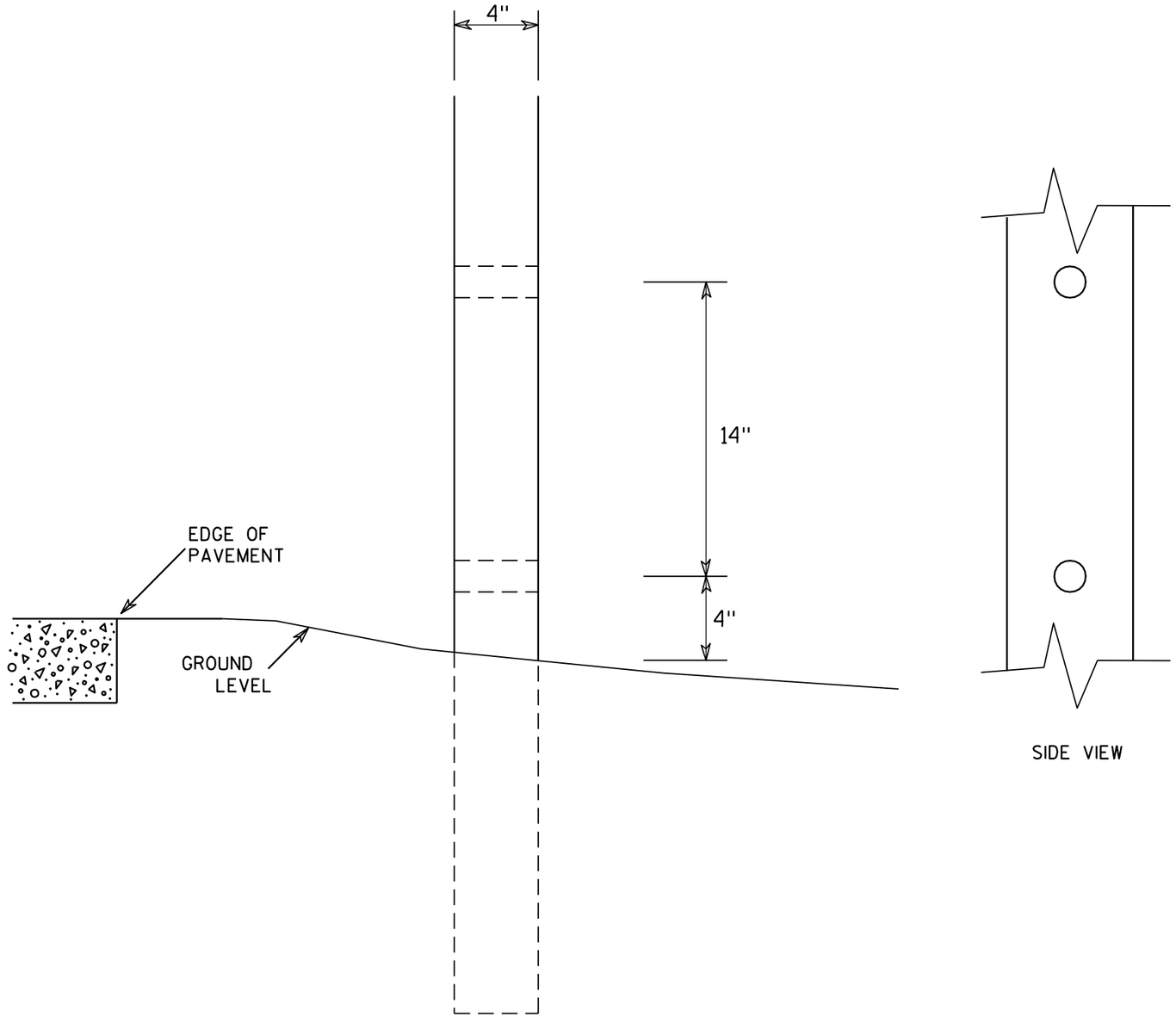
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 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

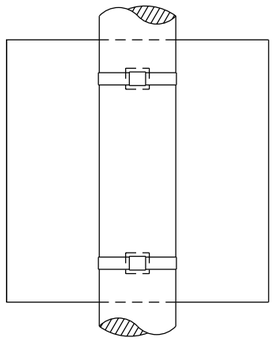
APPROVED Chester J Spang
for State Traffic Engineer

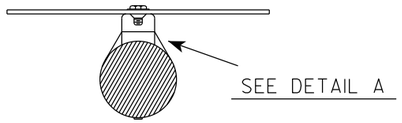
DATE 3/27/97 PLATE NO. A4-11.2

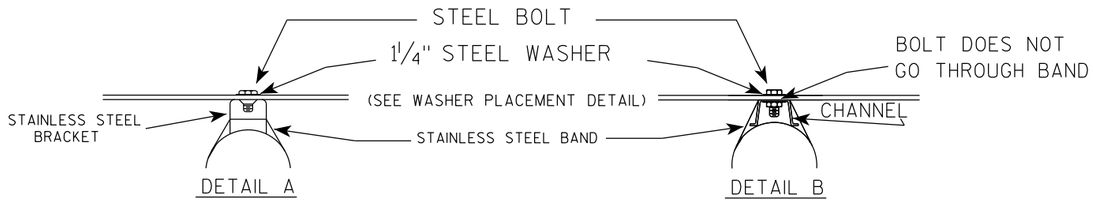
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 33	E

BANDING

SINGLE SIGN



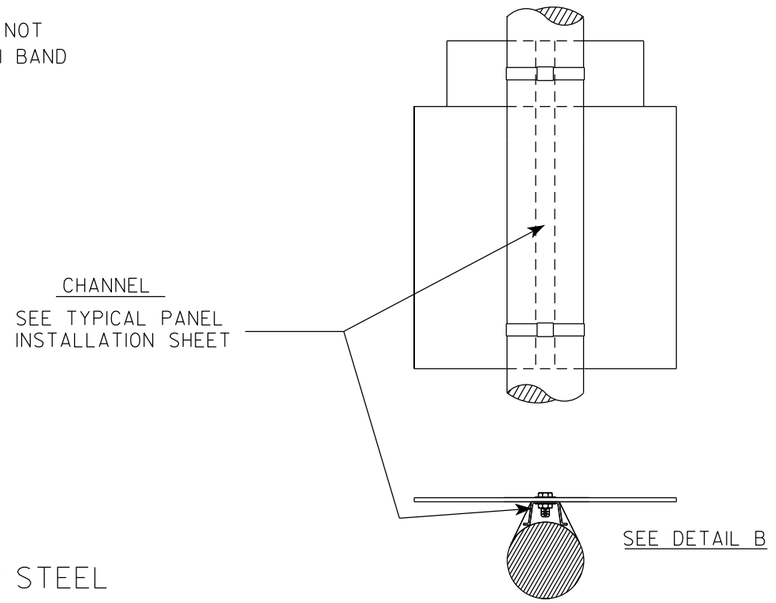




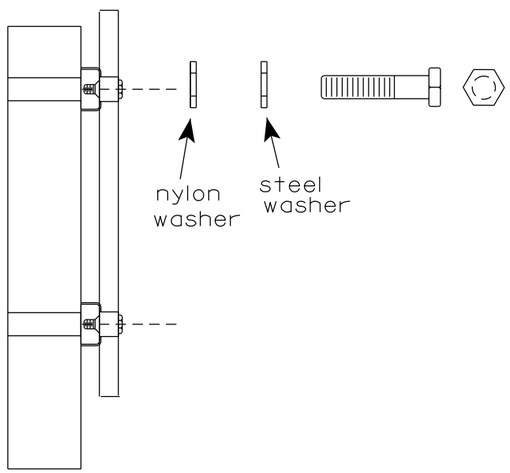
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

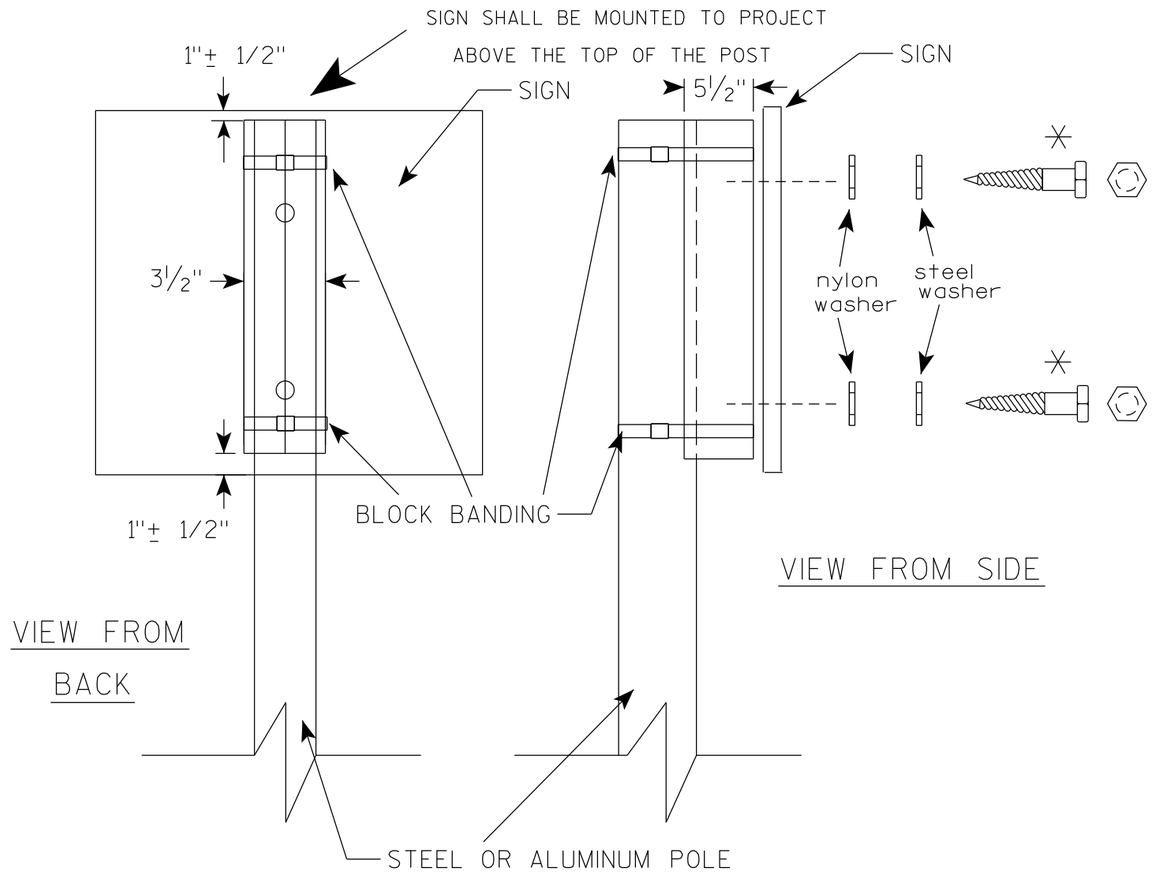
DATE 6/10/19 PLATE NO. A5-9.4

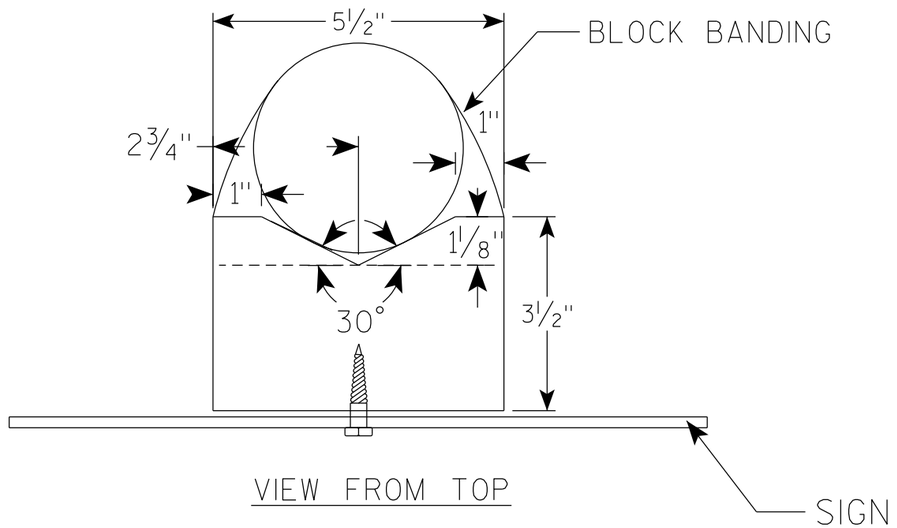
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 34	E

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"

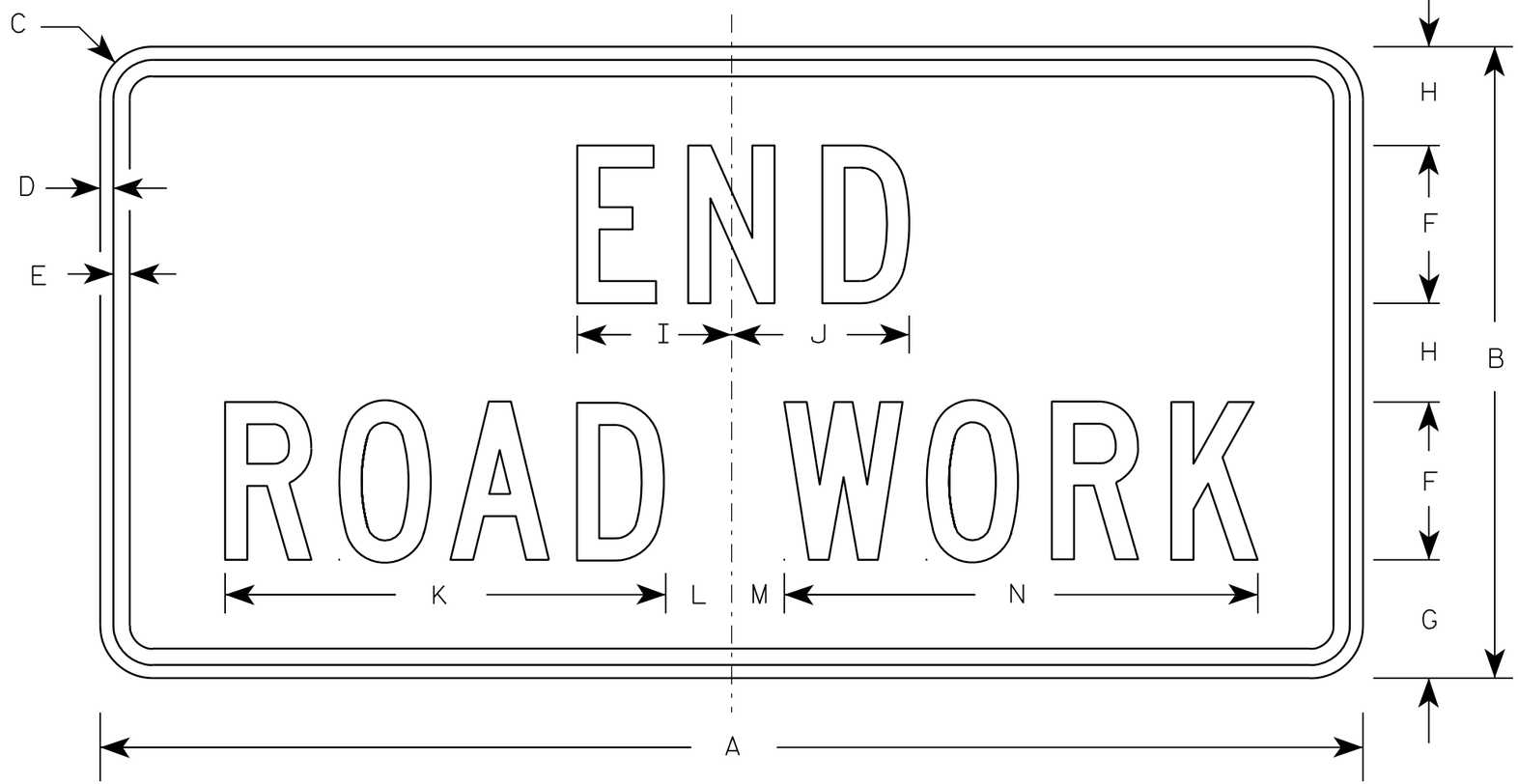
BLOCK BANDING DETAIL (V-BLOCK OPTION)

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: 35	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

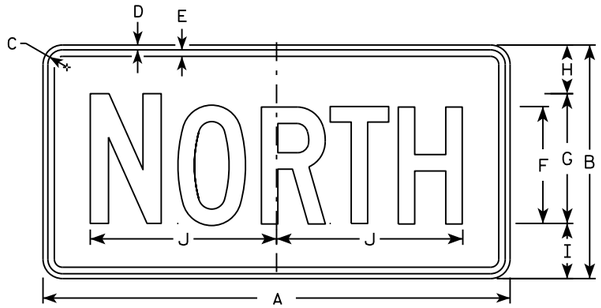
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

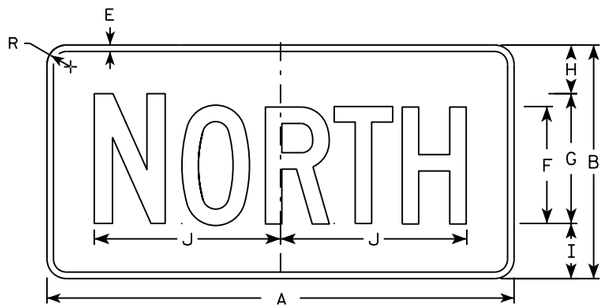
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 36	E



M3-1
MM3-1
MP3-1



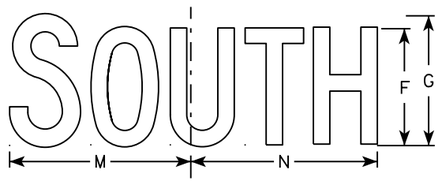
MB3-1
MK3-1
MN3-1



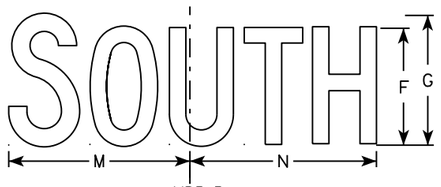
M3-2
MM3-2
MP3-2



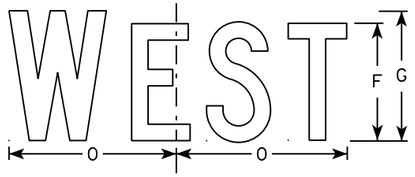
MB3-2
MK3-2
MN3-2



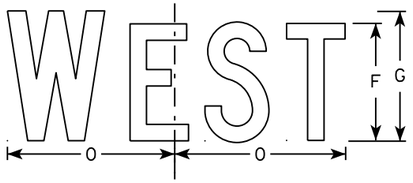
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

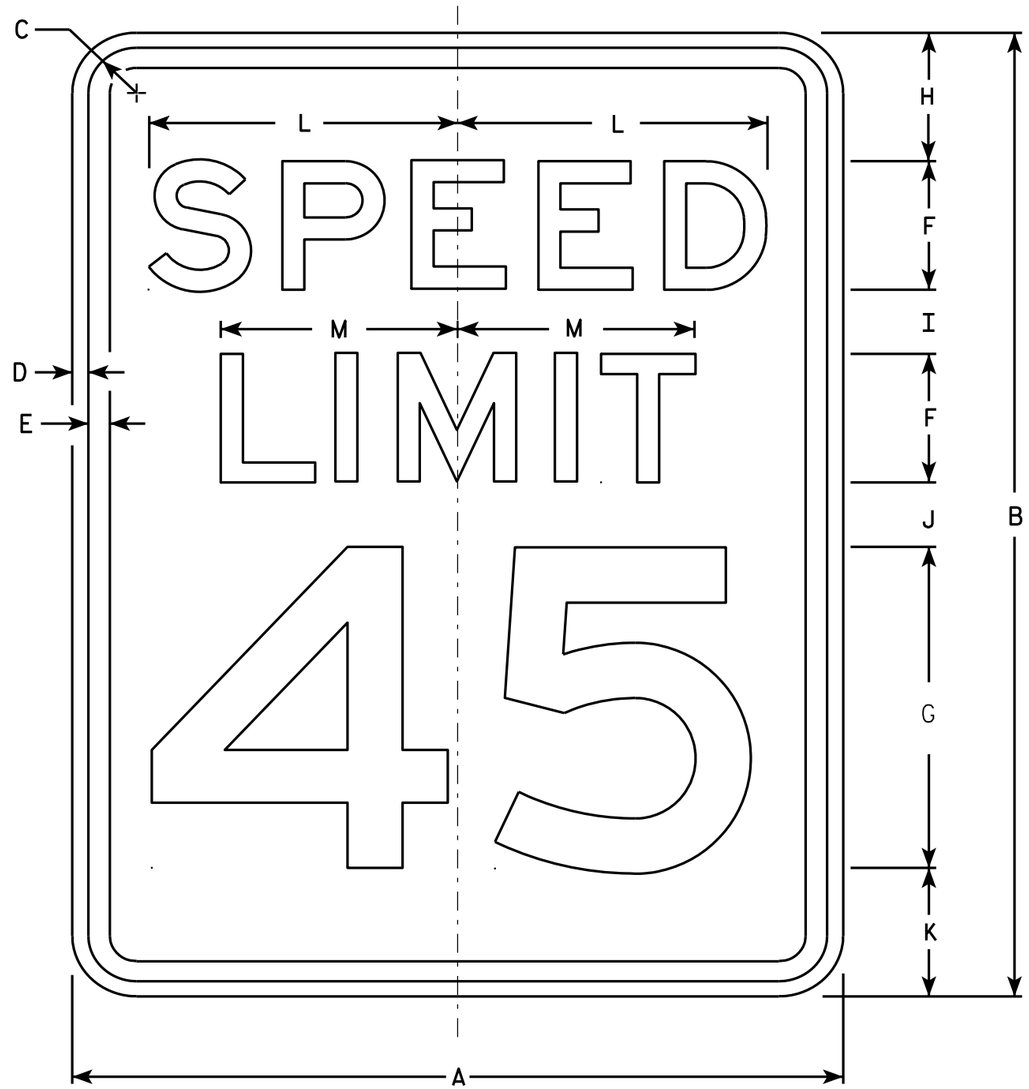
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R2-1

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 - 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.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

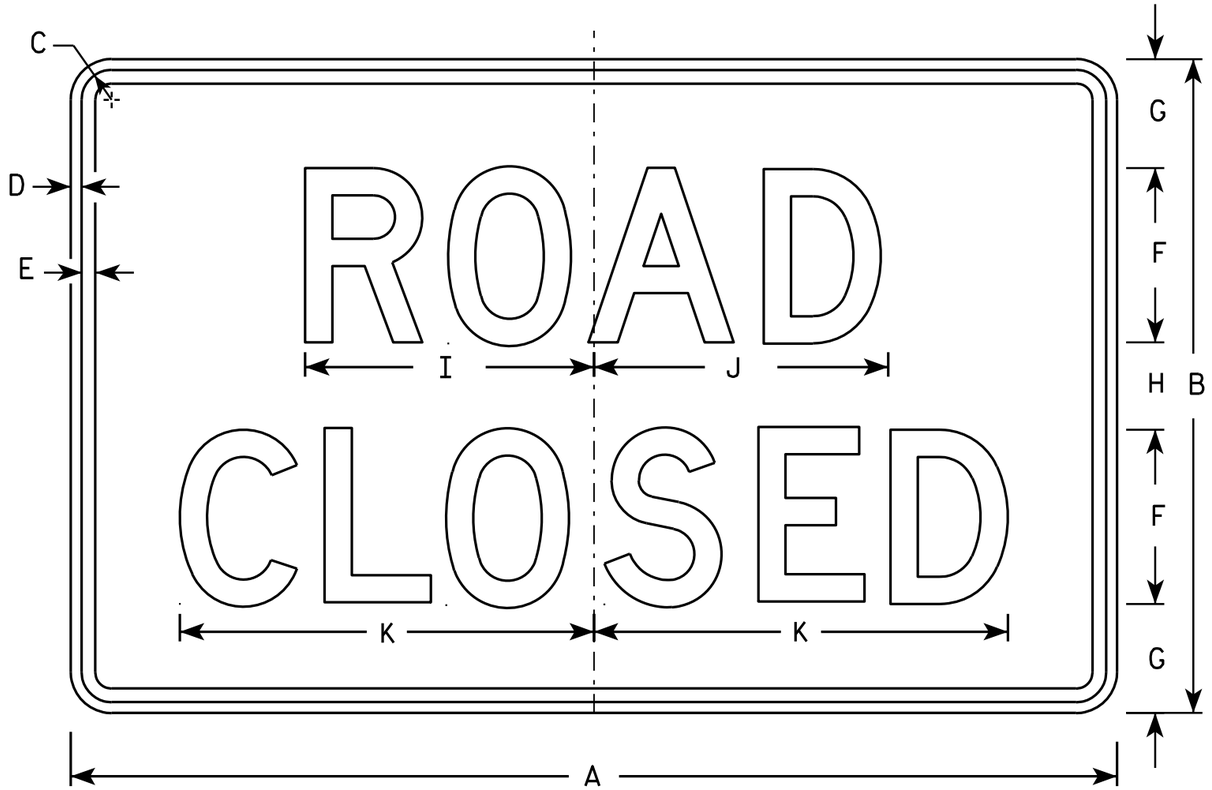
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

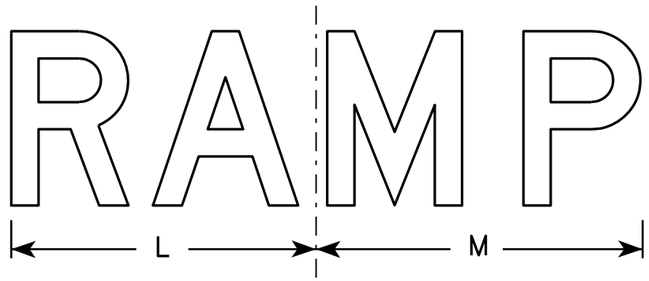
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 38	E



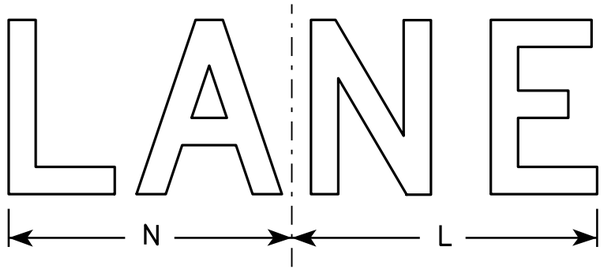
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

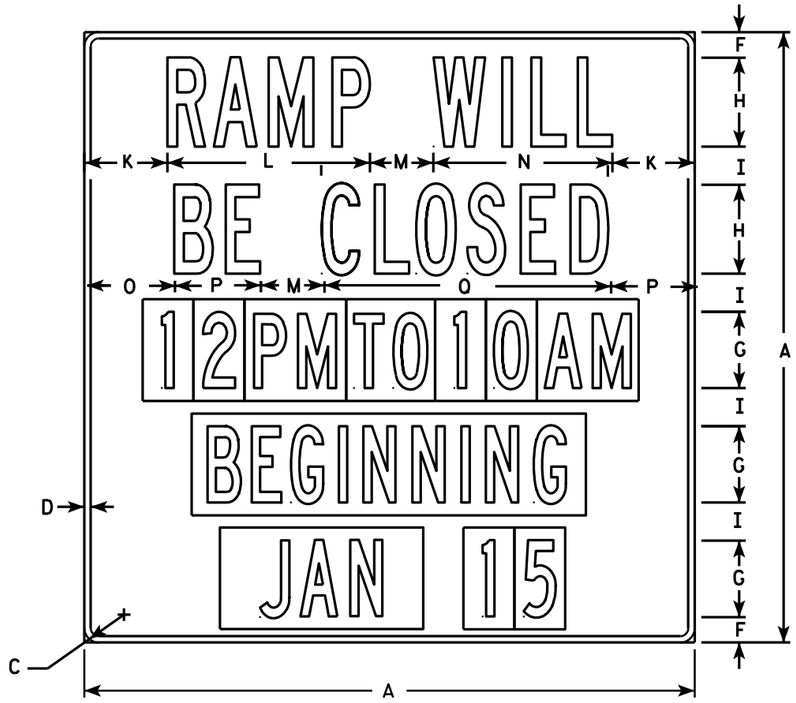
STANDARD SIGN
R11-2

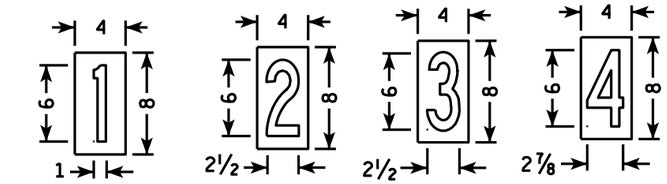
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

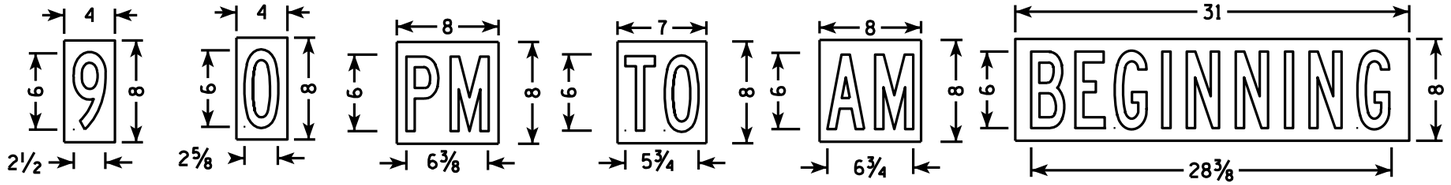
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 39 | E

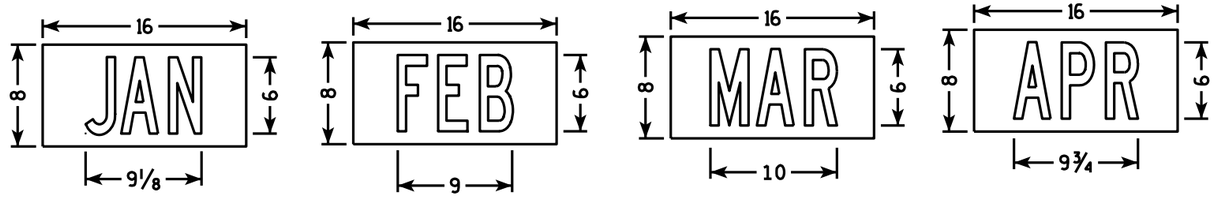


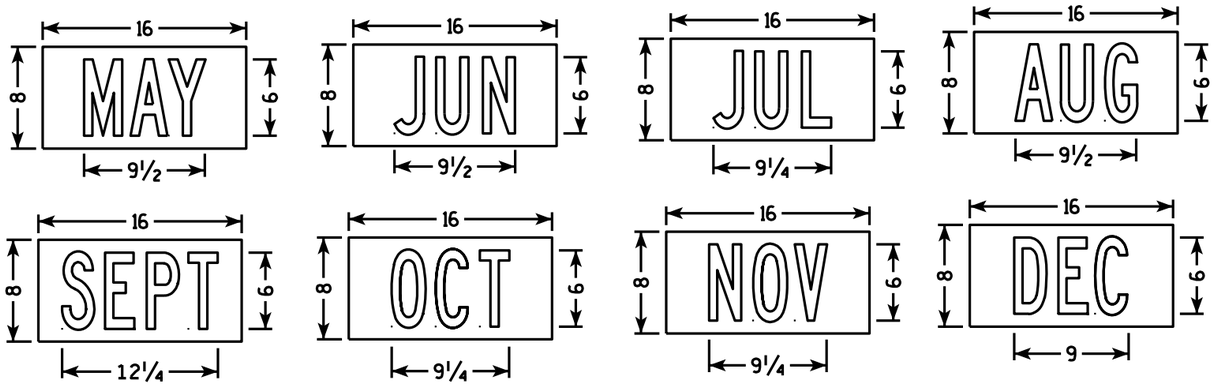


NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B
4. Message plaques consist of Type H Reflective sheeting with the appropriate non-reflective black message applied to .040 aluminum and screwed to the base sign.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
2M	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
3																											
4																											
5																											

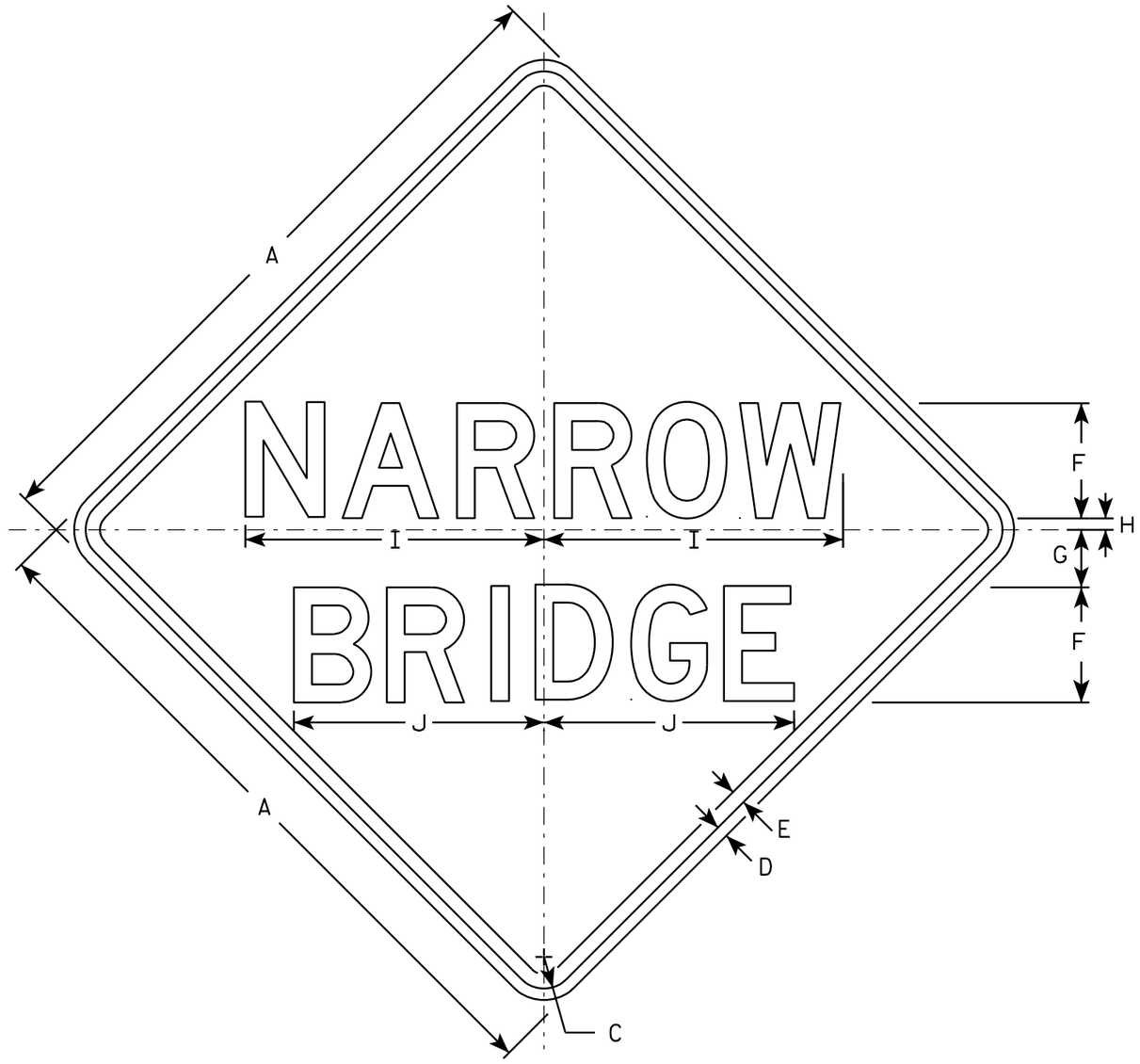
STANDARD SIGN
R11-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-51.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 40	E



W5-2

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.

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	2 1/2	1/2	13	10 7/8																	6.25
2S	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
2M	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
3	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
4	48		2 1/4	3/4	1	8	4	3/4	20 3/4	17 3/8																	16.0
5																											

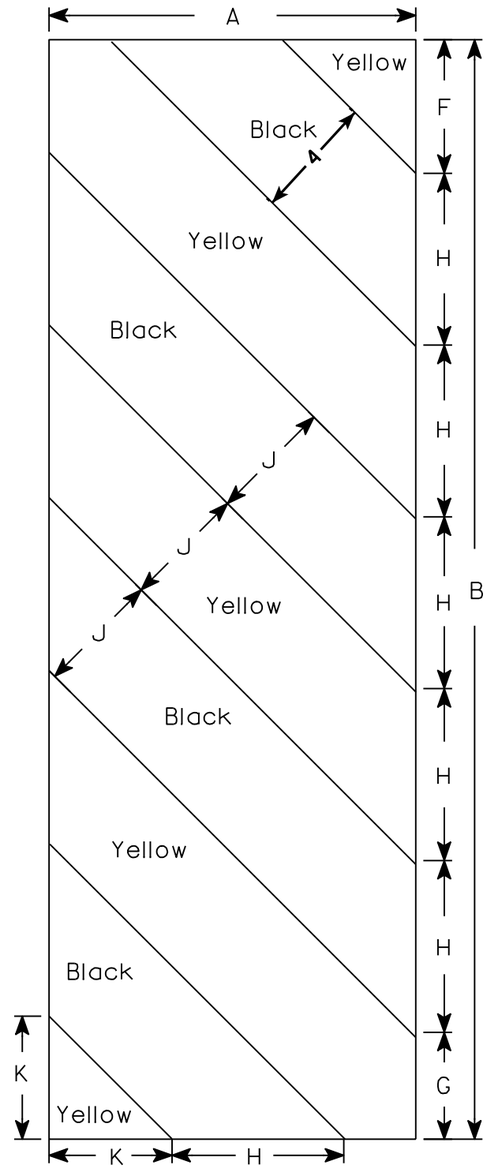
STANDARD SIGN
W5-2

WISCONSIN DEPT OF TRANSPORTATION

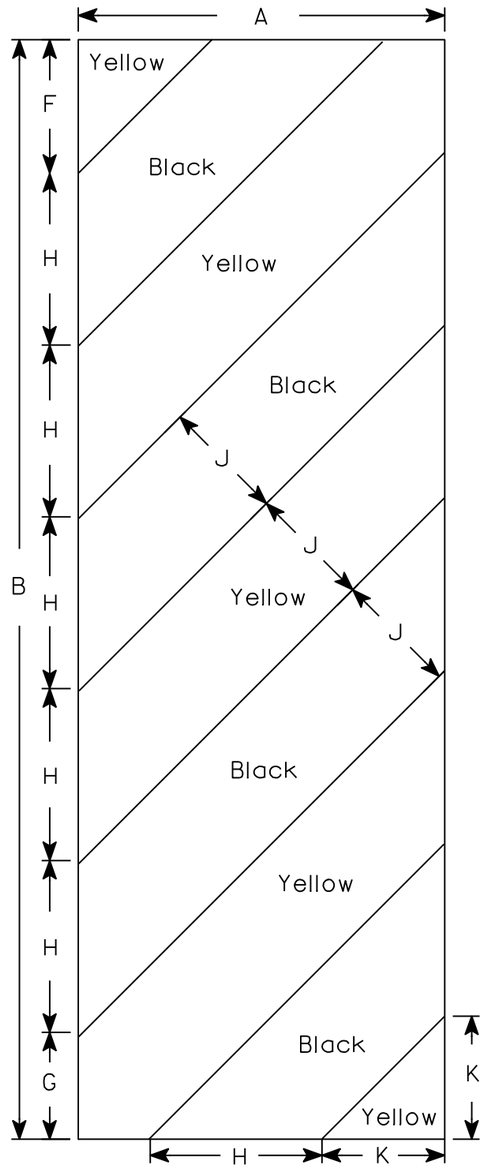
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W5-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 41	E



W5-52L



W5-52R

NOTES

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

W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

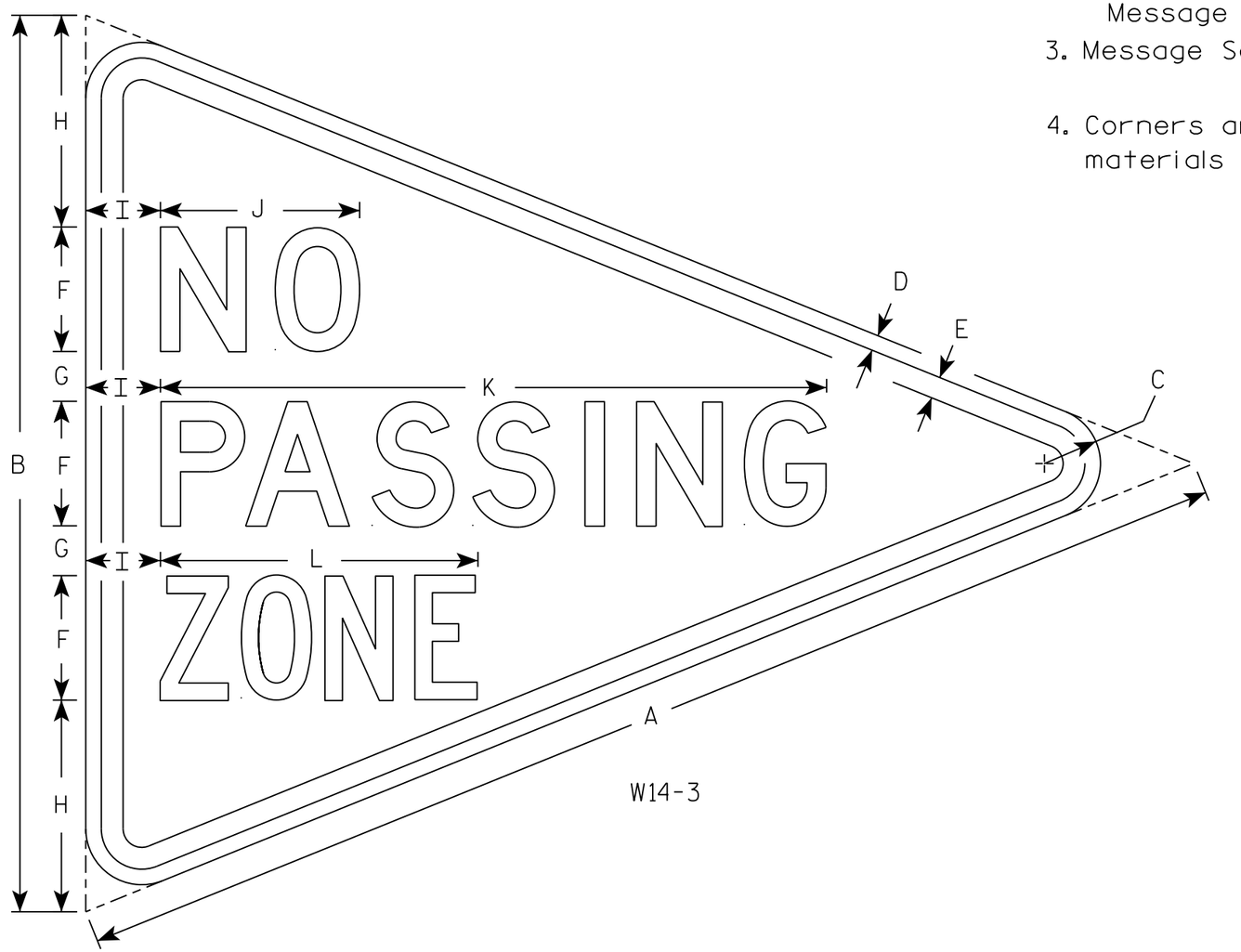
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 42	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

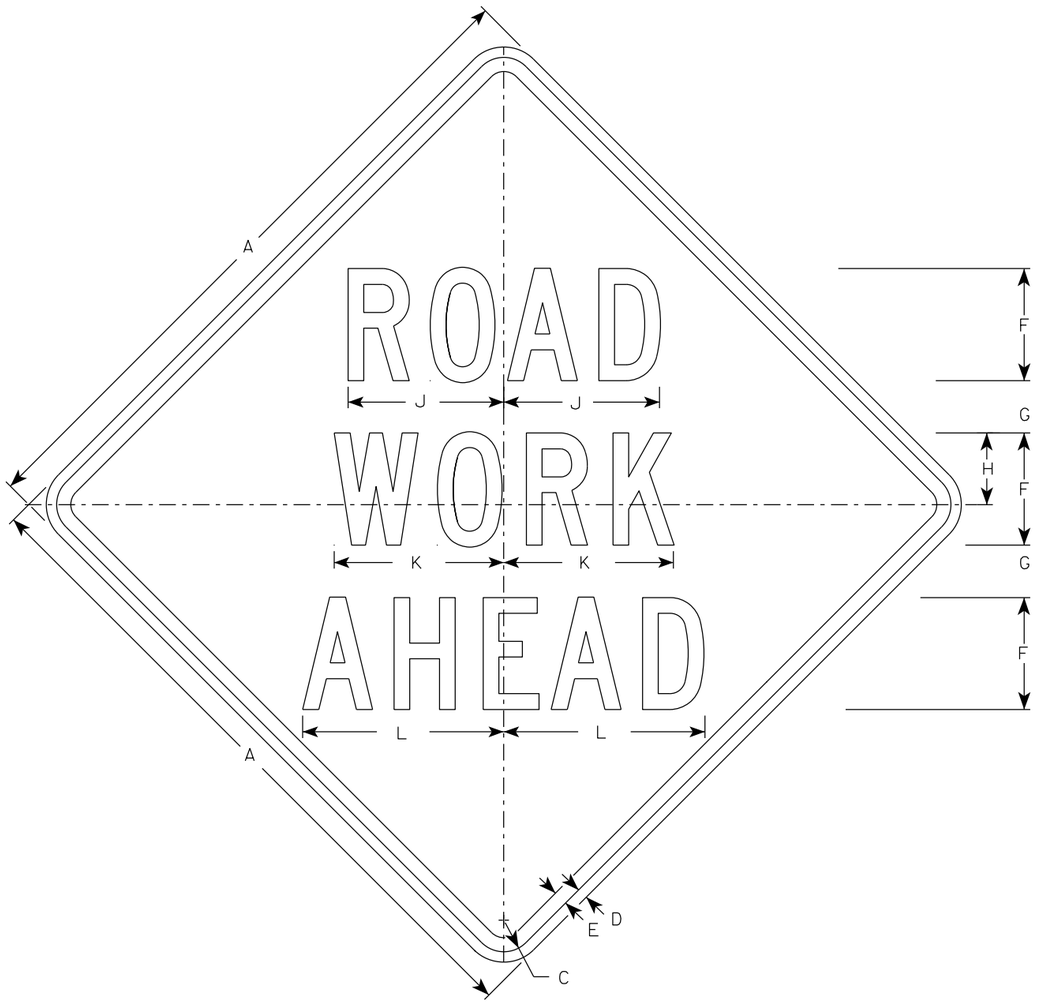
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

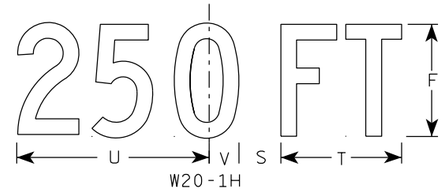
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 43 | E

NOTES

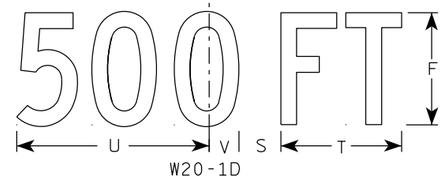
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



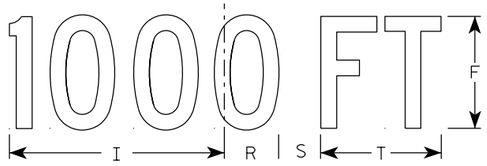
W20-1A



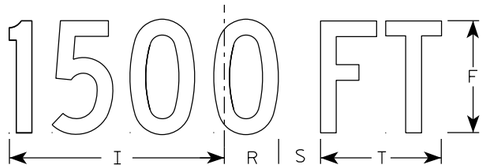
W20-1H



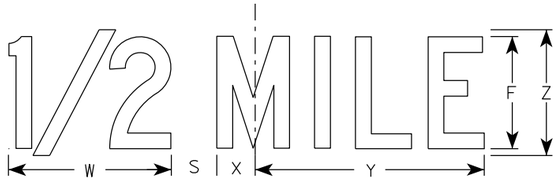
W20-1D



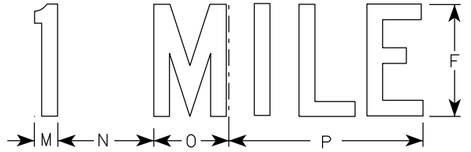
W20-1C



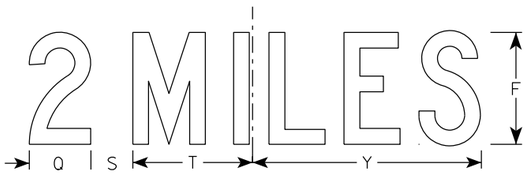
W20-1B



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

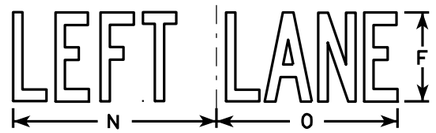
DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

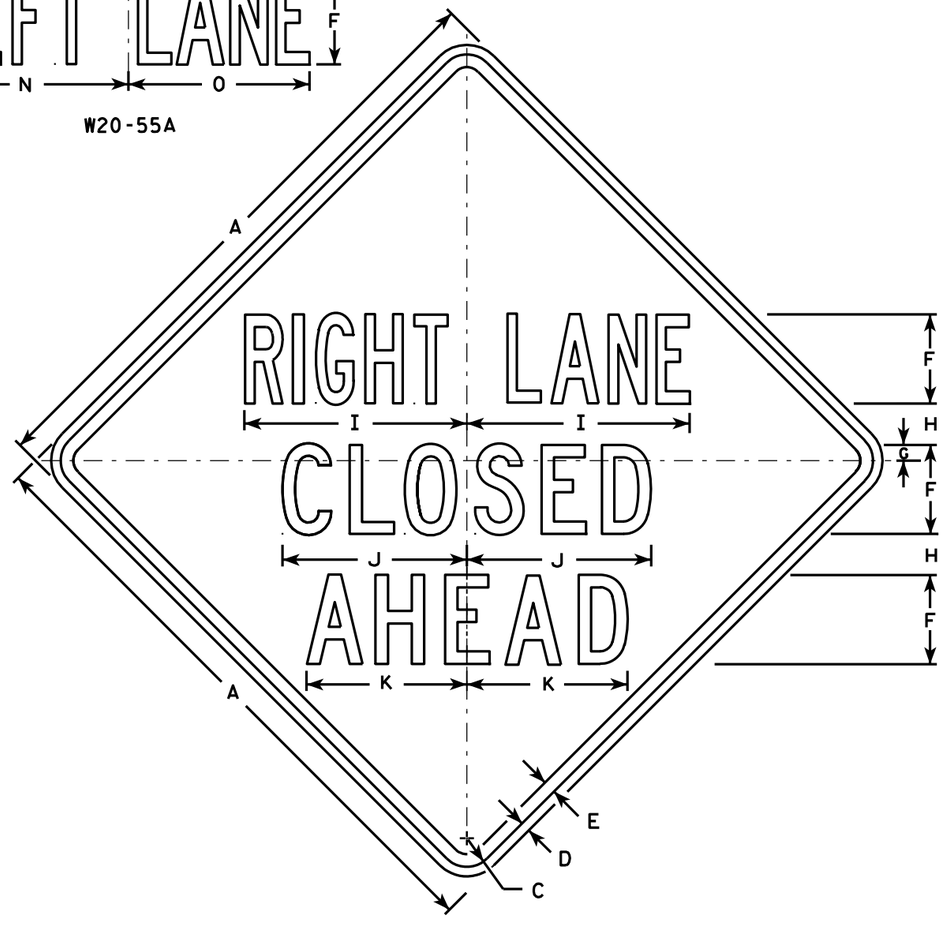
SHEET NO: 44 E



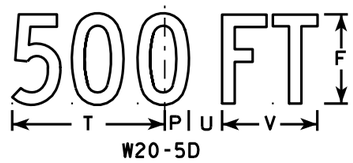
W20-56A



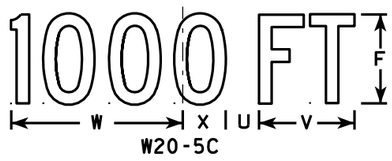
W20-55A



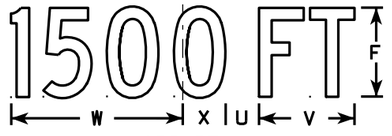
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

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

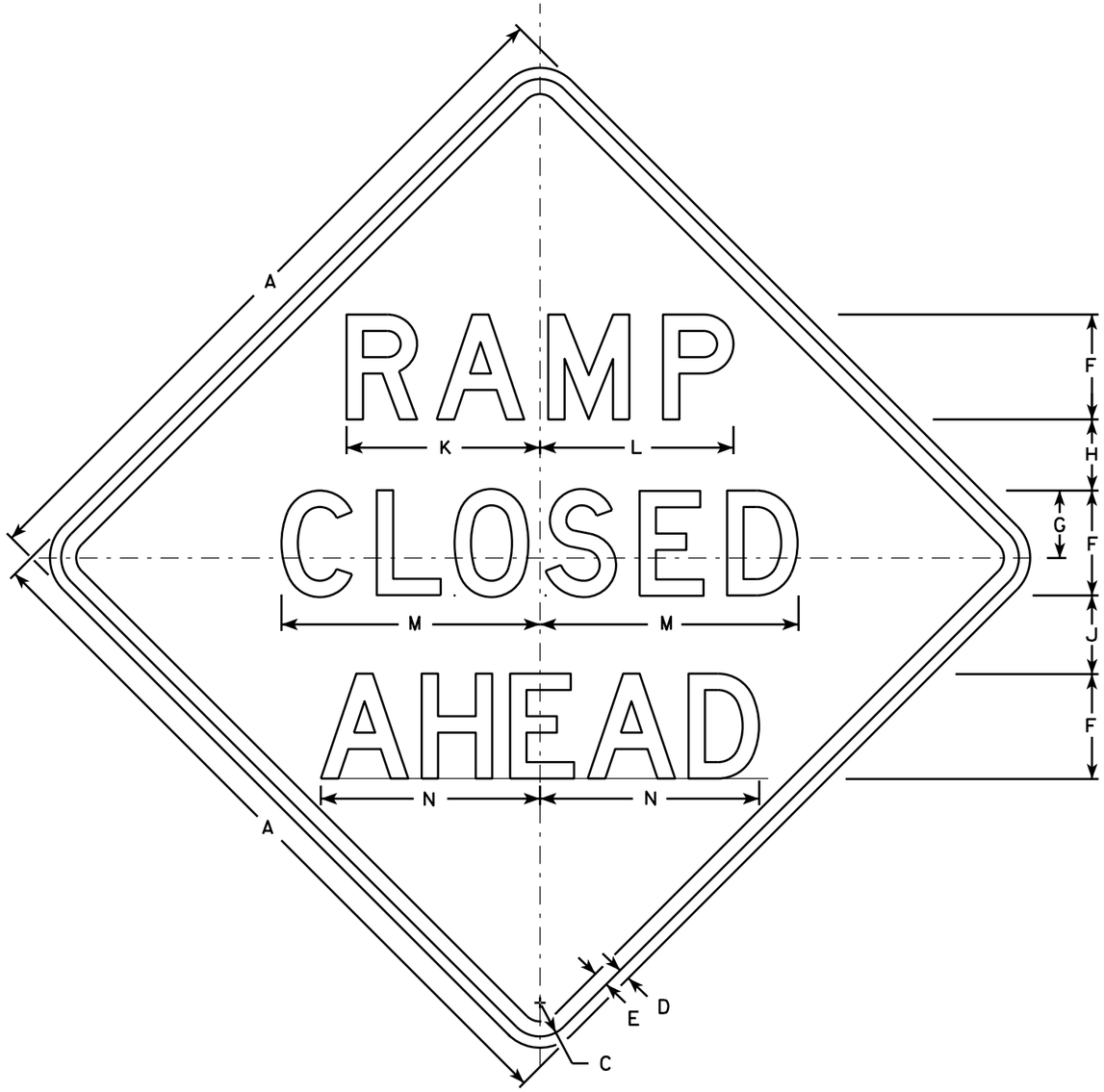
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

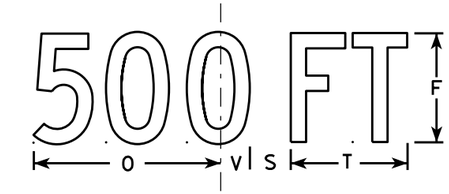
DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 45 | E

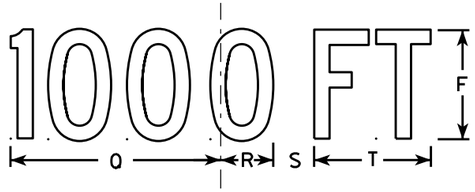
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



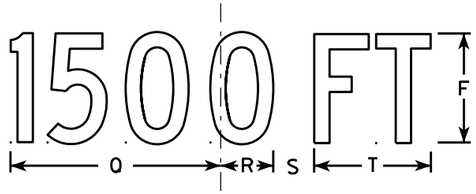
W20-53A



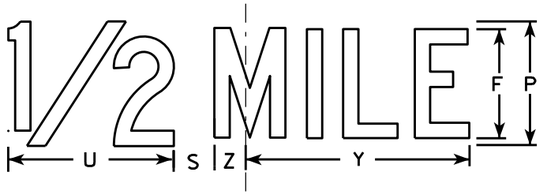
W20-53D



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

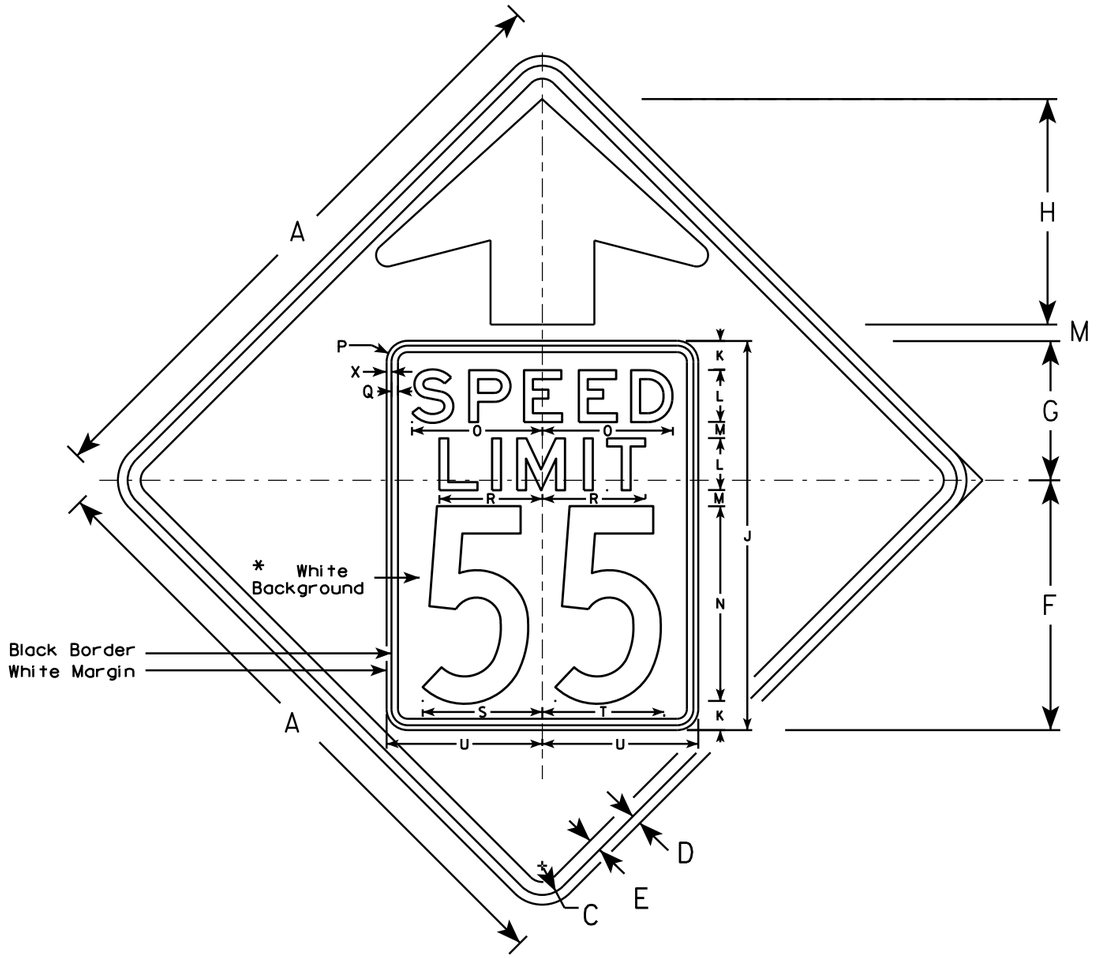
WISCONSIN DEPT OF TRANSPORTATION

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

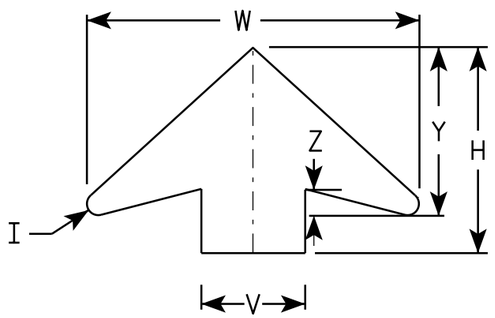


W03-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - ORANGE*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



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	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

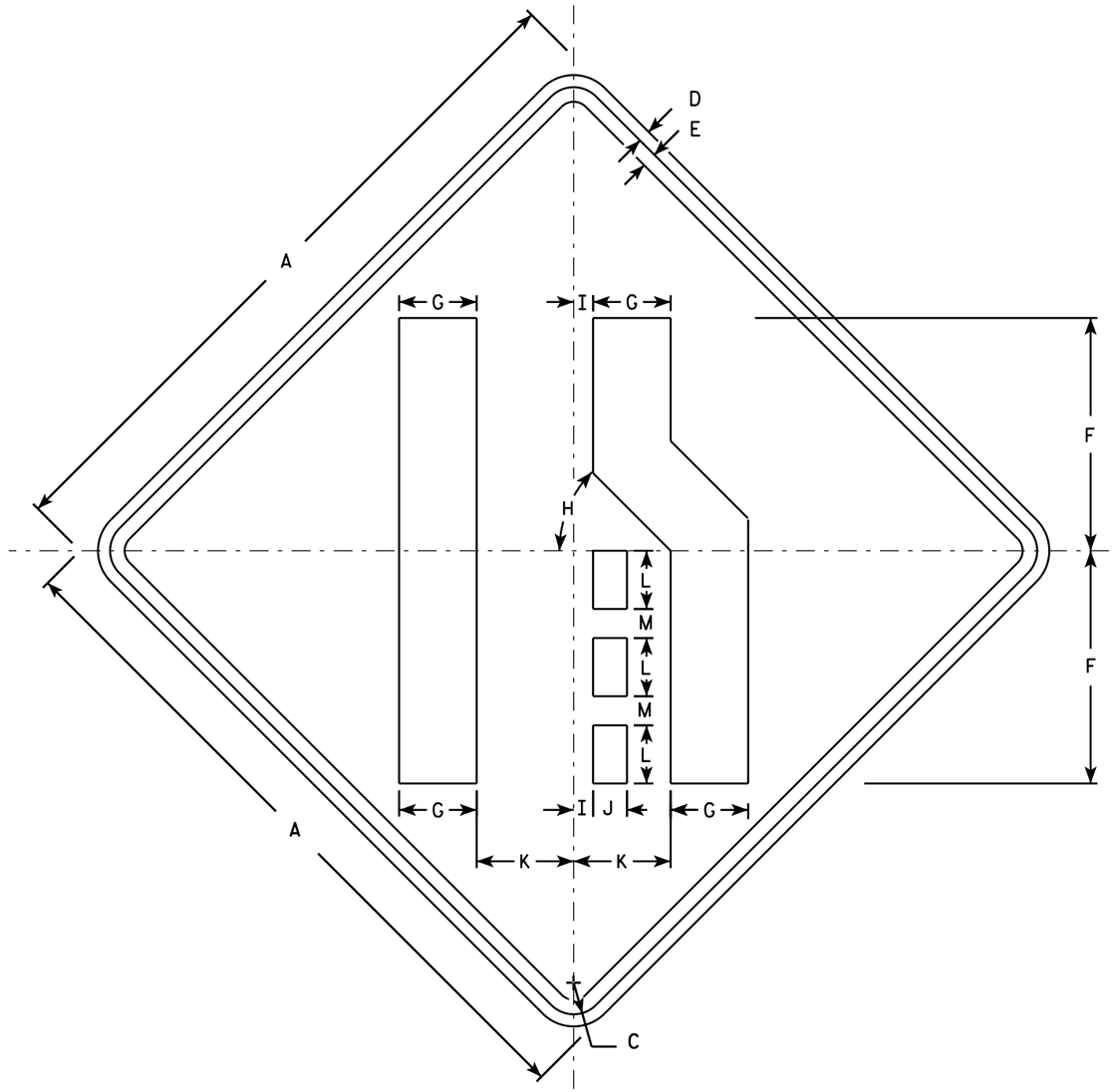
STANDARD SIGN
W03-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 47 W03-5.1

PROJECT NO: | SHEET NO: E



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

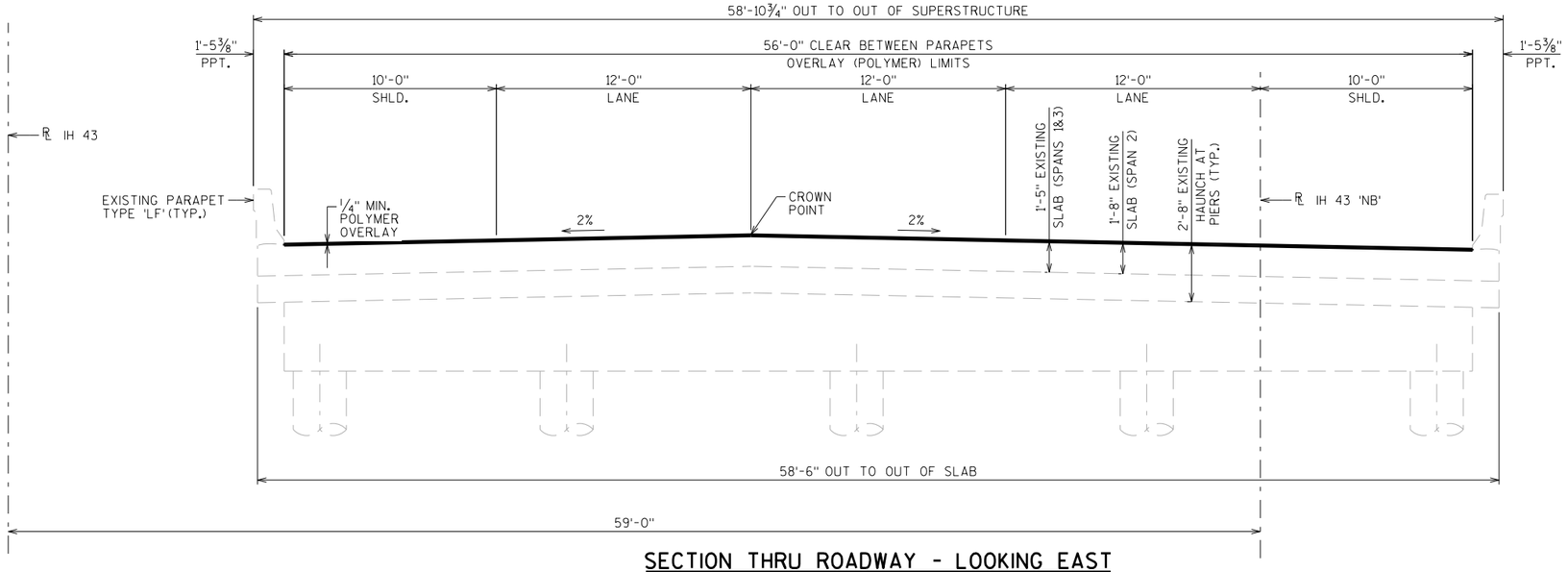
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 48 W04-2.1

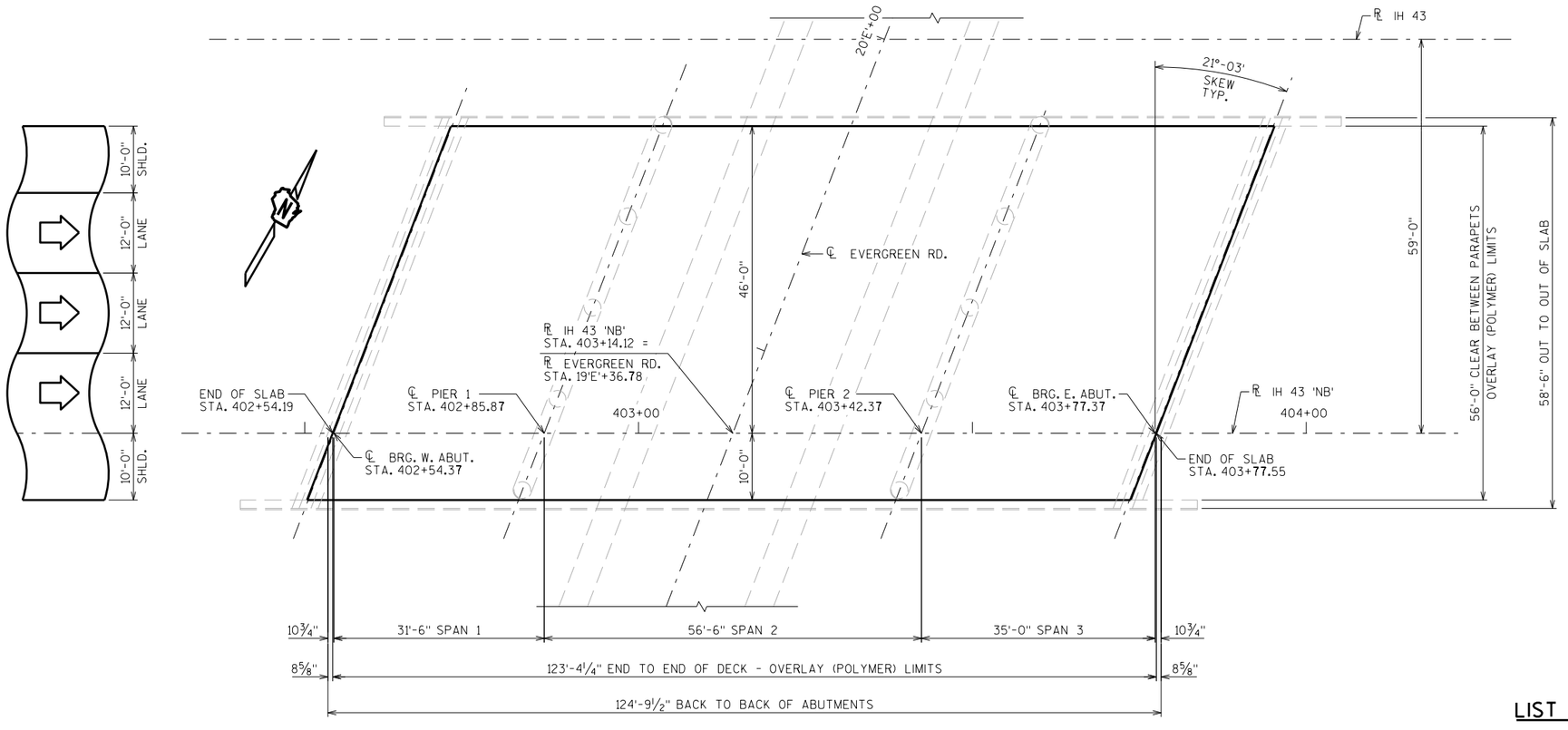
PROJECT NO: | SHEET NO: E

STATE PROJECT NUMBER

1090-08-72



SECTION THRU ROADWAY - LOOKING EAST



PLAN

DESIGN DATA

LIVE LOAD:

INVENTORY RATING FACTOR: RF = 0.70
OPERATING RATING FACTOR: RF = 0.90
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 240 (KIPS)

STRUCTURE IS DESIGNED FOR FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
509.5100.S	POLYMER OVERLAY	SY	768

LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS:
STACIE WEIS (608) 261-6109
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 2/10/20
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-67-120

IH 43 NB OVER EVERGREEN RD.

COUNTY	TOWN
WAUKESHA	VERNON

DESIGN SPEC. REHABILATATION N/A

DESIGNED BY	DESIGNED CK'D.RATINGS	DRAWN BY	PLANS CK'D.
SEW		DDS	SEW

POLYMER OVERLAY

SHEET 1 OF 1

49

I.D. 1090-08-02B

DATE: SEPT. 2019

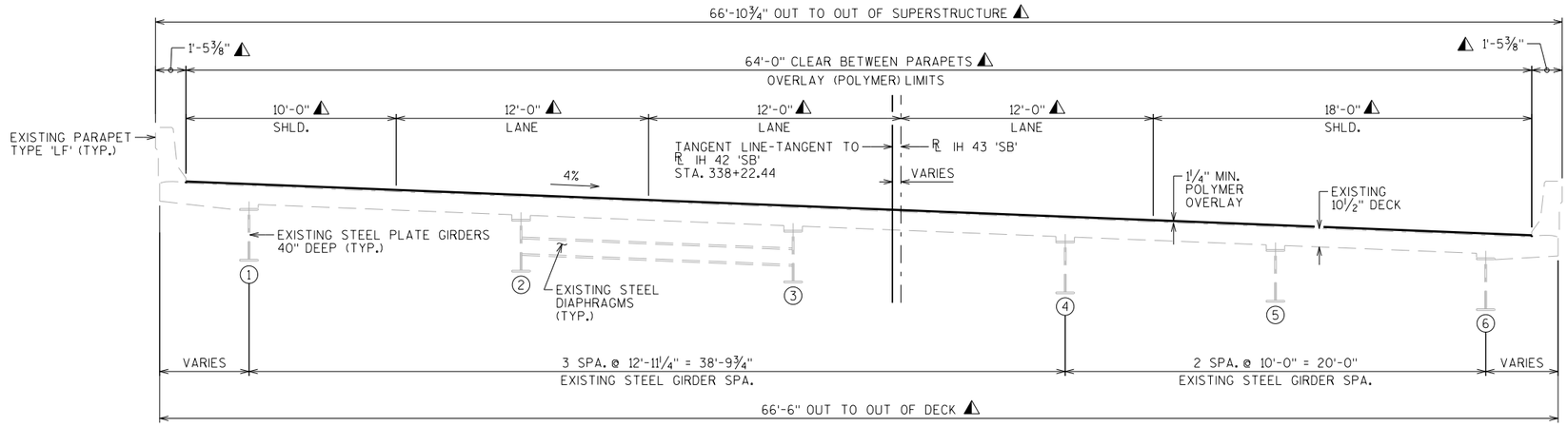
SCALE = 10.00

8

8

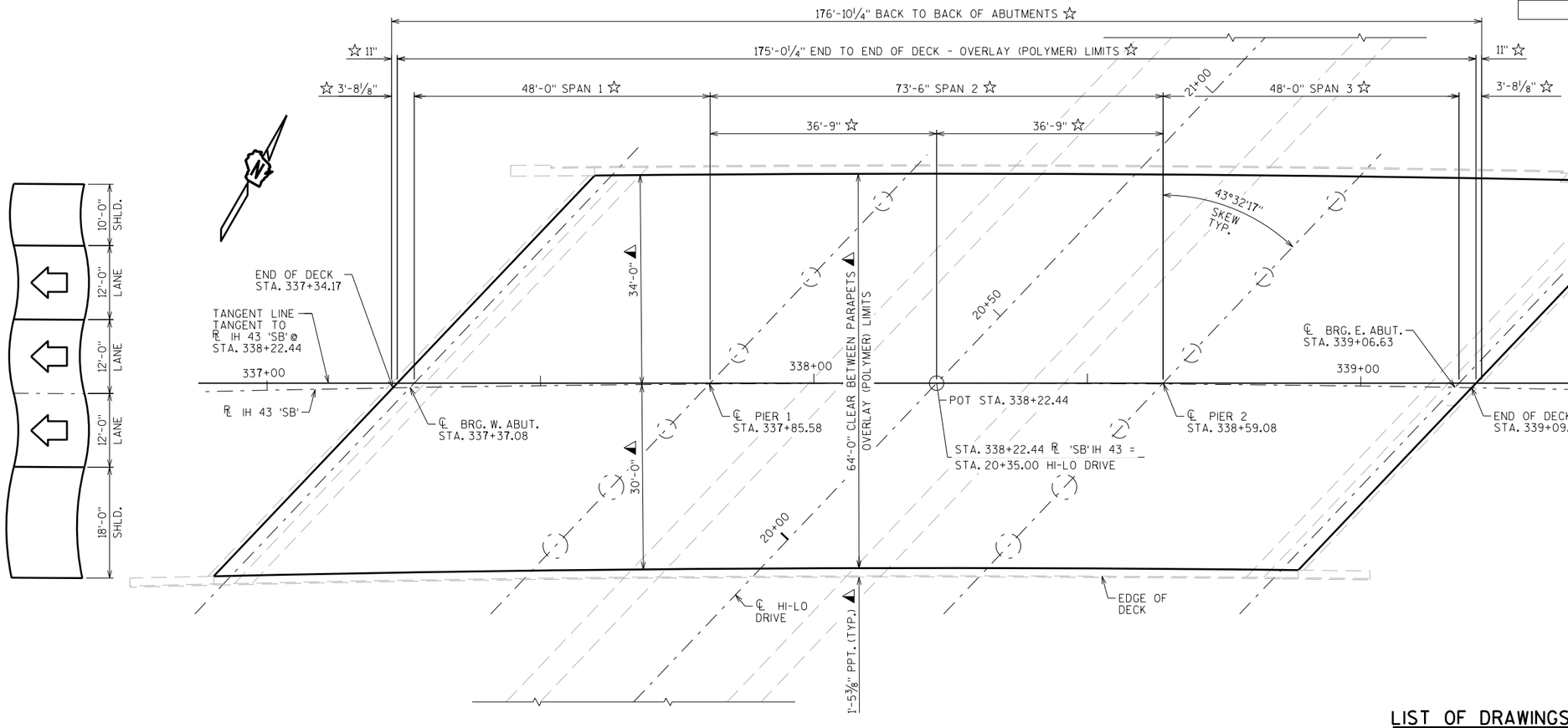
STATE PROJECT NUMBER

1090-08-72



SECTION THRU ROADWAY - LOOKING EAST

◯ INDICATES GIRDER NUMBER
◭ MEASURED NORMAL TO ℄ IH 43 'SB'
☆ MEASURED ALONG TANGENT LINE



PLAN

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-20
OPERATING RATING: HS-33
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

CURVE DATA

℄ IH 43 'SB'

P.I. = STA. 343+89.52
△ = 18°15'18"
D = 0°59'38"
T = 926.17
L = 1836.65'
R = 5764.58'
S.E. = 4%

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
509.5100.S	POLYMER OVERLAY	SY	1,245

LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher AMB 2/10/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-123

IH 43 SB OVER HI-LO DRIVE

COUNTY	TOWN
WAUKESHA	VERNON

DESIGN SPEC.
REHABILATATION N/A

DESIGNED BY	DESIGNED CK'D.RATINGS	DRAWN BY	PLANS CK'D.
SEW		DDS	SEW

POLYMER OVERLAY

SHEET 1 OF 1

50

I.D. 1090-08-02C

DATE: SEPT. 2019

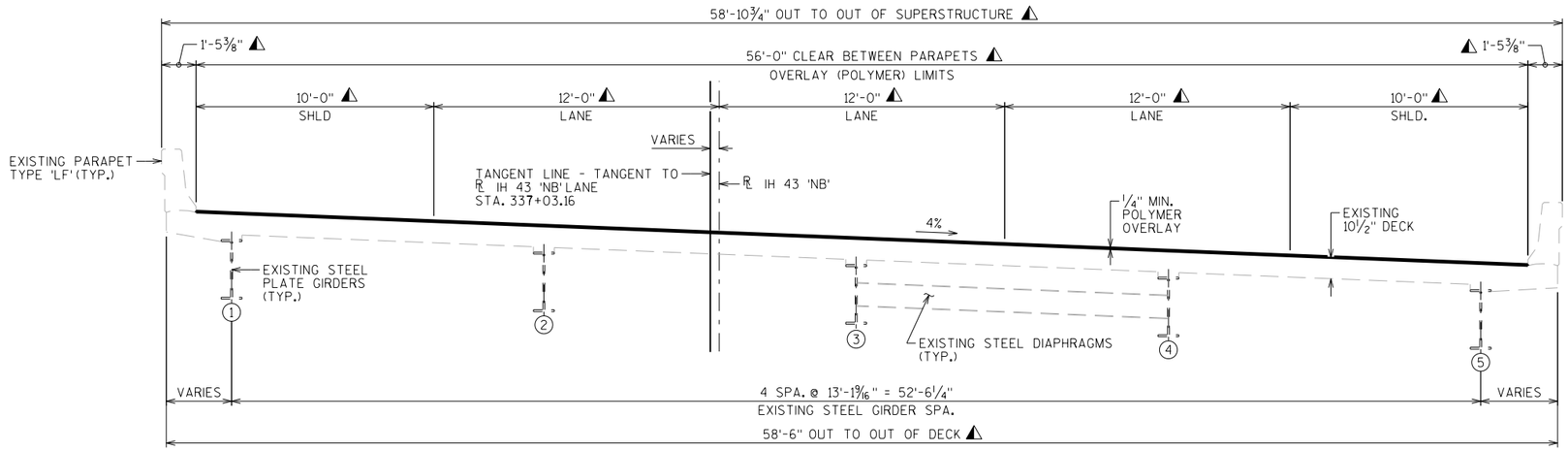
SCALE = 10.00

8

8

STATE PROJECT NUMBER

1090-08-72

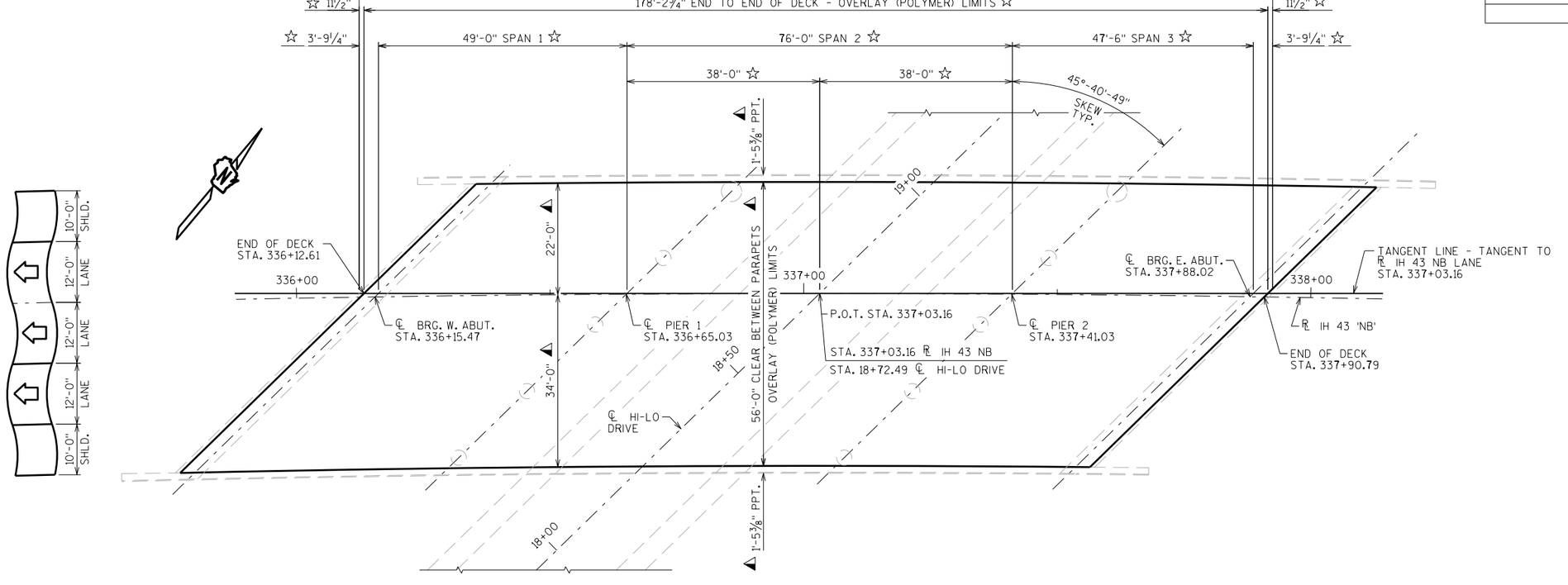


◯ INDICATES GIRDER NUMBER

◭ MEASURED NORMAL TO ℄ IH 43 'NB'

☆ MEASURED ALONG TANGENT LINE

SECTION THRU ROADWAY - LOOKING EAST



PLAN

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-18
OPERATING RATING: HS- 30
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

CURVE DATA

℄ 'NB' LANE IH 43

P.I. = STA. 348+54.79
△ = 25°27'33"
D = 1°00'00"
T = 1,294.33'
L = 2,545.93'
R = 5,729.58'
S.E. = 4%

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
509.5100.S	POLYMER OVERLAY	SY	1,109

LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher AMB 2/10/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-124

IH 43 NB OVER HI-LO DRIVE

COUNTY	TOWN
WAUKESHA	VERNON

DESIGN SPEC.
REHABILATATION N/A

DESIGNED BY	DESIGNED CK'D.RATINGS	DRAWN BY	PLANS CK'D.
SEW		DDS	SEW

POLYMER OVERLAY

SHEET 1 OF 1

51

I.D. 1090-08-02D

DATE: SEPT. 2019

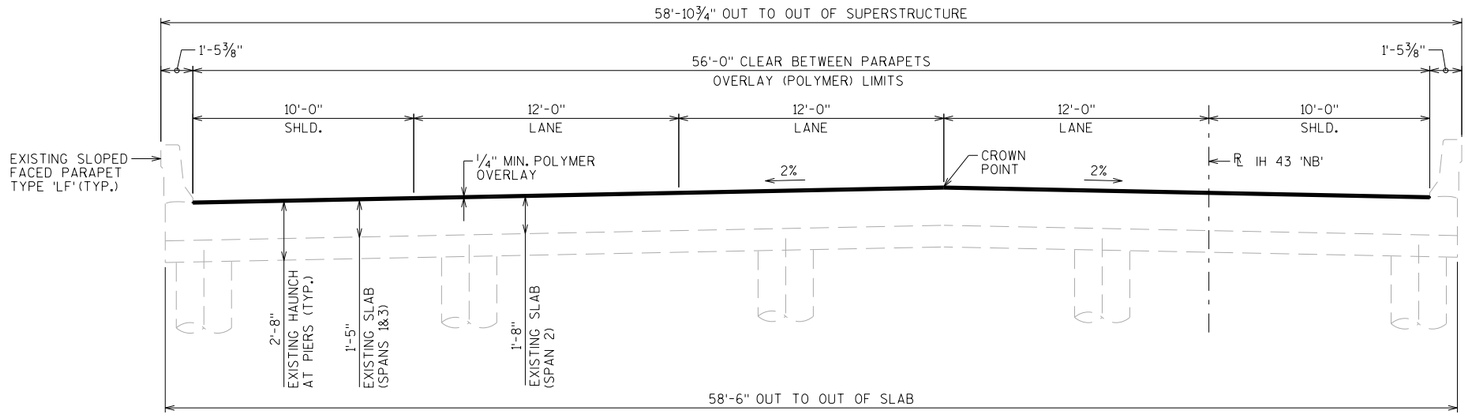
SCALE = 12.00

8

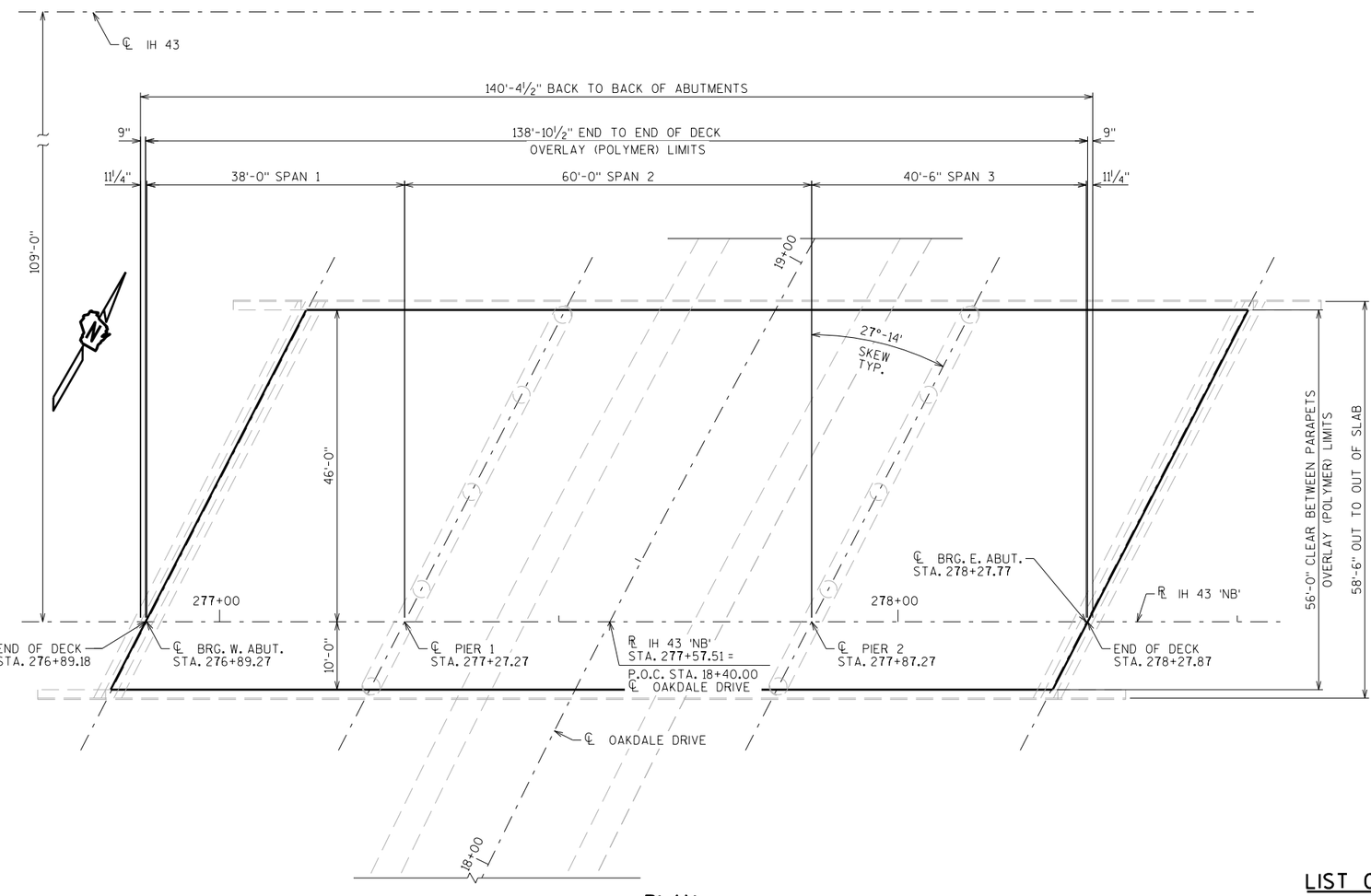
8

STATE PROJECT NUMBER

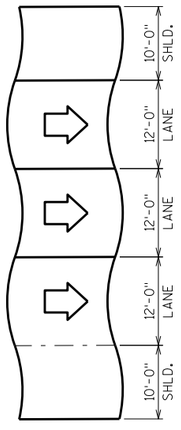
1090-08-72



SECTION THRU ROADWAY - LOOKING EAST



PLAN



DESIGN DATA

LIVE LOAD:

INVENTORY RATING FACTOR: RF = 1.0
OPERATING RATING FACTOR: RF = 1.29
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

CURVE DATA

℄ OAKDALE DRIVE (UNDER)

P.I. = STA. 12+22.73
△ = 41°57'14"
D = 3°-00'
T = 732.25'
L = 1398.46'
R = 1909.86'

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
509.5100.S	POLYMER OVERLAY	SY	865

LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 2/10/20
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-67-126

IH 43 NB OVER OAKDALE DRIVE

COUNTY	TOWN
WAUKESHA	VERNON

DESIGN SPEC. REHABILATATION N/A

DESIGNED BY	DESIGNED CK'D. RATINGS	DRAWN BY	PLANS CK'D.
SEW		DDS	SEW

POLYMER OVERLAY

SHEET 1 OF 1

52

I.D. 1090-08-02E

DATE: SEPT. 2019

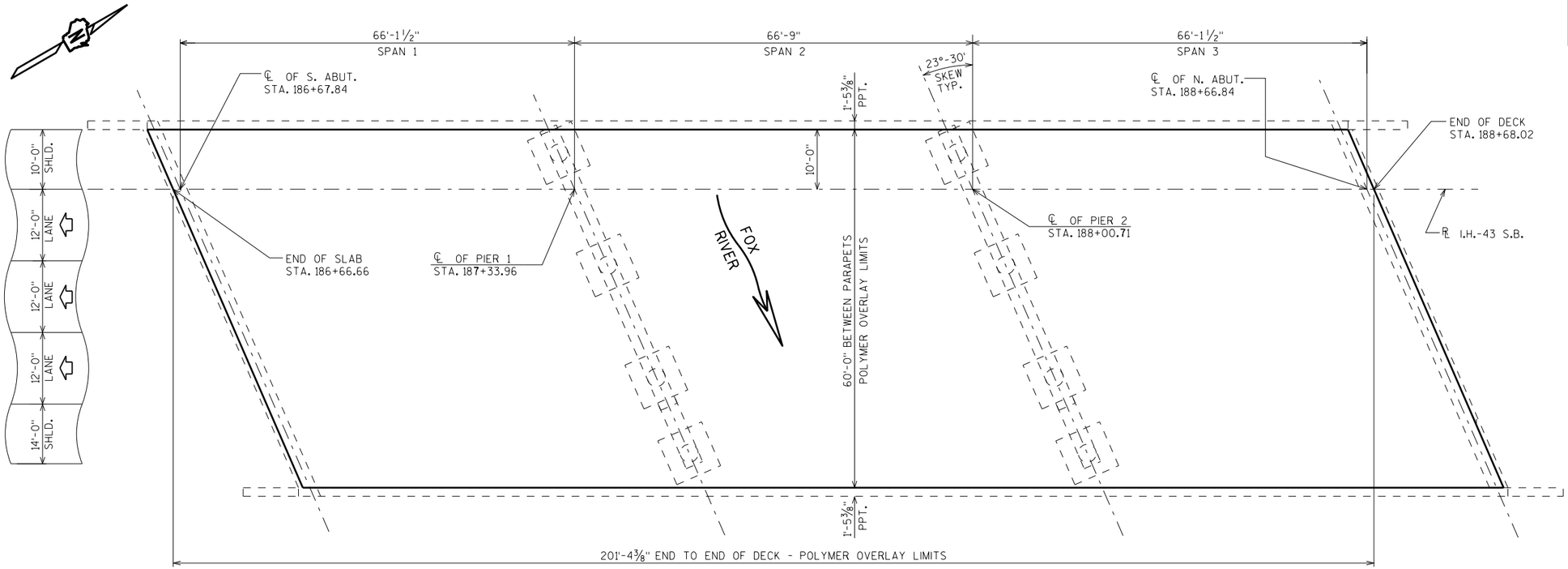
SCALE = 10.00

8

8

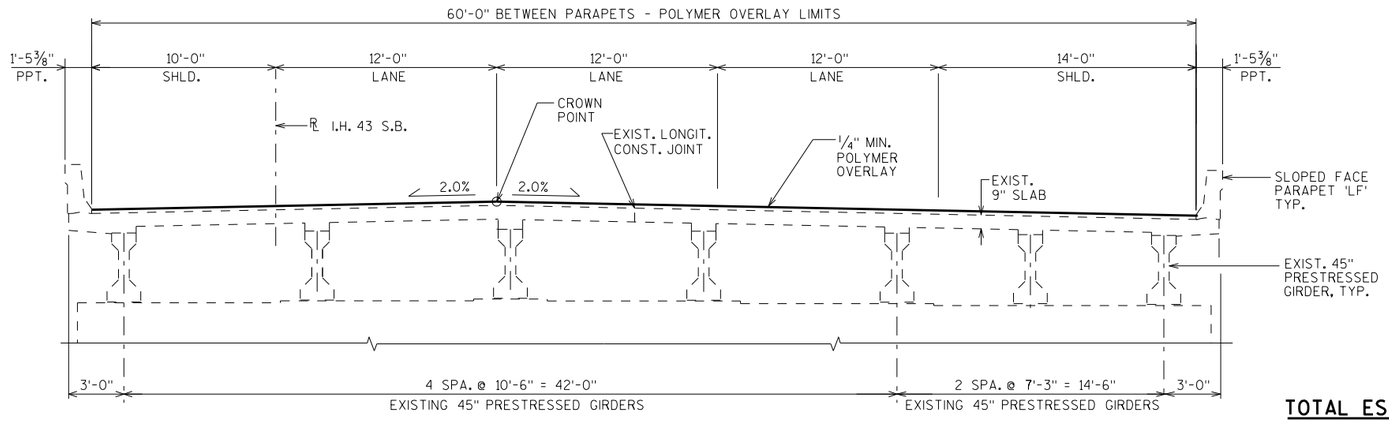
STATE PROJECT NUMBER

1090-08-72



PLAN

3 SPAN - 45" PRESTRESSED GIRDER BRIDGE



TYPICAL SECTION THRU ROADWAY

(LOOKING NORTH)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

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

STAGING FOR CONSTRUCTION TO BE DETERMINED BY CONTRACTOR, BASED ON PROVIDED ALLOWABLE LANE CLOSURE TIMES & INFORMATION. ALL OPTIONAL LONGIT. CONST. JOINTS USED ARE TO BE LOCATED AT A LANE LINE.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-20
OPERATING RATING: HS-40
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 250 KIPS

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	1343

LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS:

JOEL MAAS (608) 267-0273
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 2/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-127

IH 43 SB OVER FOX RIVER

COUNTY WAUKESHA | TOWN ~~CITY/VILLAGE~~ VERNON

DESIGN SPEC. REHABILITATION-N/A

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JDM	JLR	WWR	JDM

POLYMER OVERLAY

SHEET 1 OF 1

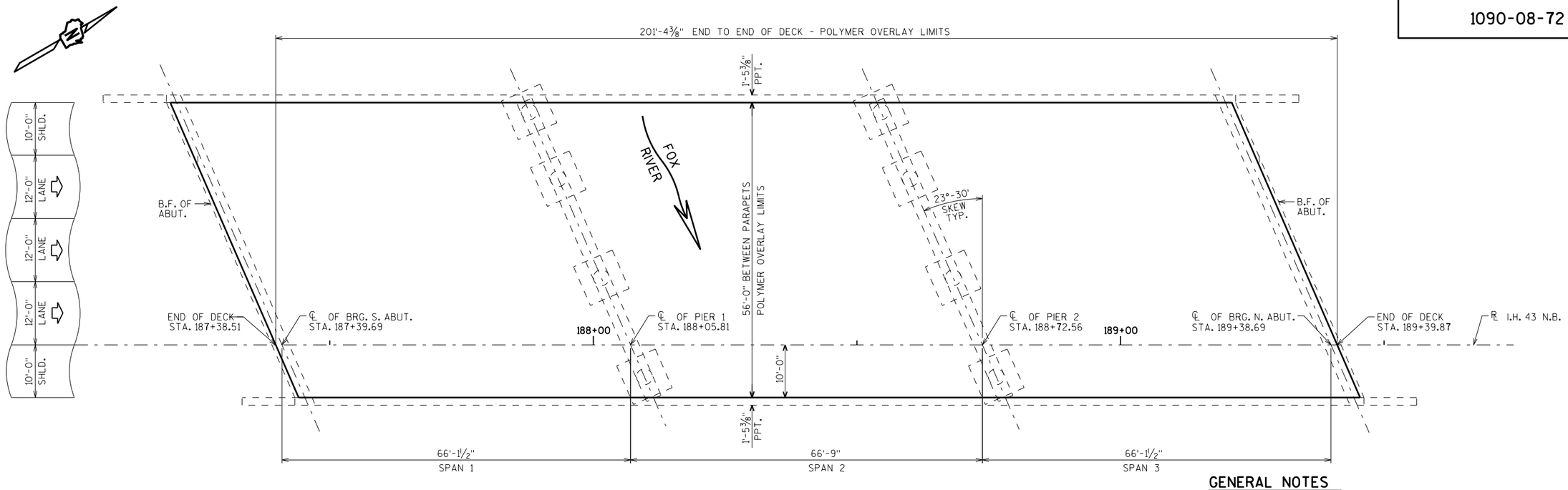
53

I.D. 1090-08-02F DATE: OCT 2019

SCALE = 10.00

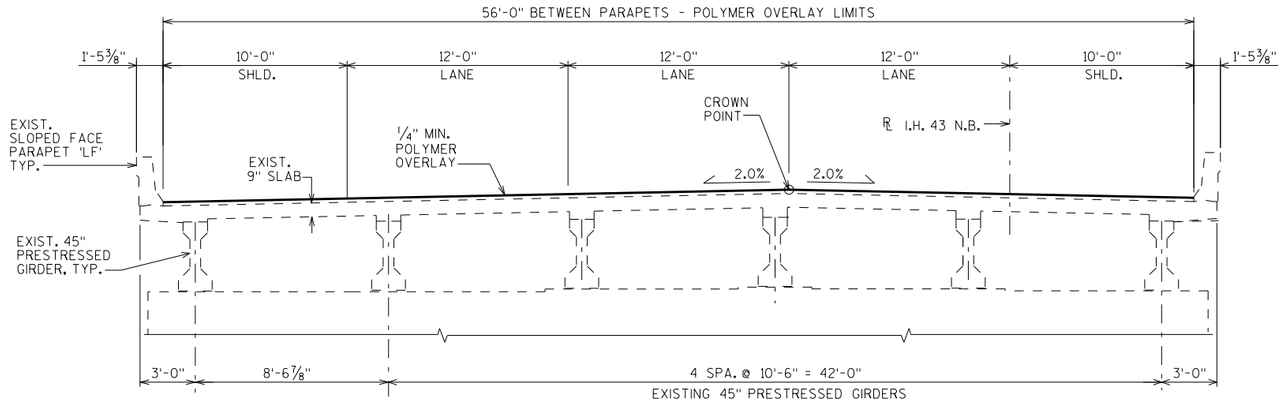
STATE PROJECT NUMBER

1090-08-72



PLAN

3 SPAN - 45" PRESTRESSED GIRDER BRIDGE



TYPICAL SECTION THRU ROADWAY

(LOOKING NORTH)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

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

STAGING FOR CONSTRUCTION TO BE DETERMINED BY CONTRACTOR, BASED ON PROVIDED ALLOWABLE LANE CLOSURE TIMES & INFORMATION. ALL OPTIONAL LONGIT. CONST. JOINTS USED ARE TO BE LOCATED AT A LANE LINE.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20

INVENTORY RATING: HS-20

OPERATING RATING: HS-40

MAXIMUM STANDARD PERMIT VEHICLE LOAD: 250 KIPS

STRUCTURE DESIGN CONTACTS:

JOEL MAAS (608) 267-0273

LAURA SHADEWALD (608) 267-9592

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	1253

LIST OF DRAWINGS

1. POLYMER OVERLAY

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 2/20/20

CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-67-128

IH 43 NB OVER FOX RIVER

COUNTY: WAKESHA — TOWN ~~CITY/VILLAGE~~: VERNON

DESIGN SPEC. REHABILITATION-N/A

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JDM	JLR	WWR	JDM

POLYMER OVERLAY

SHEET 1 OF 1

54

I.D. 1090-08-02G

DATE: OCT 2019

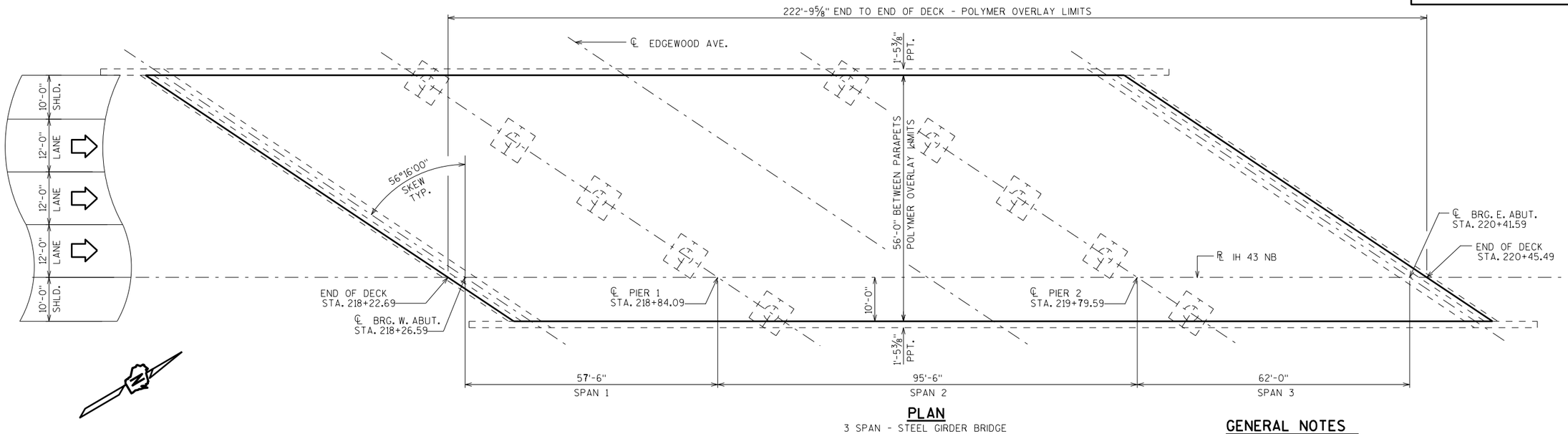
SCALE = 10.00

8

8

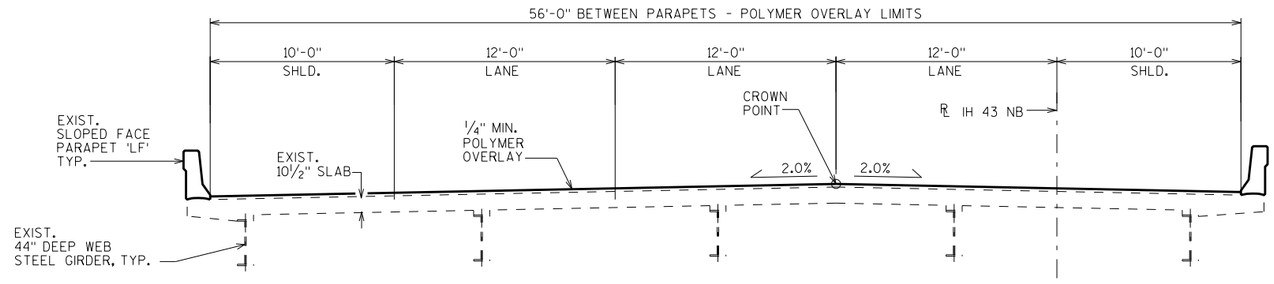
STATE PROJECT NUMBER

1090-08-72



PLAN

3 SPAN - STEEL GIRDER BRIDGE



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

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

STAGING FOR CONSTRUCTION TO BE DETERMINED BY CONTRACTOR, BASED ON PROVIDED ALLOWABLE LANE CLOSURE TIMES & INFORMATION. ALL OPTIONAL LONGIT. CONST. JOINTS USED ARE TO BE LOCATED AT A LANE LINE.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20

INVENTORY RATING: HS-14

OPERATING RATING: HS-24

MAXIMUM STANDARD PERMIT VEHICLE LOAD: 170 KIPS

STRUCTURE DESIGN CONTACTS:

JOEL MAAS	(608) 267-0273
LAURA SHADEWALD	(608) 267-9592

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	1387

LIST OF DRAWINGS

1. POLYMER OVERLAY

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LES 2/20/20

CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-67-132

IH 43 NB OVER EDGEWOOD AVE.

COUNTY	TOWN ~~CITY/VILLAGE~~
WAUKESHA	VERNON

DESIGN SPEC. REHABILITATION-N/A

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JDM	JLR	WWR	JDM

POLYMER OVERLAY

SHEET 1 OF 1

55

I.D. 1090-08-02H

DATE: OCT 2019

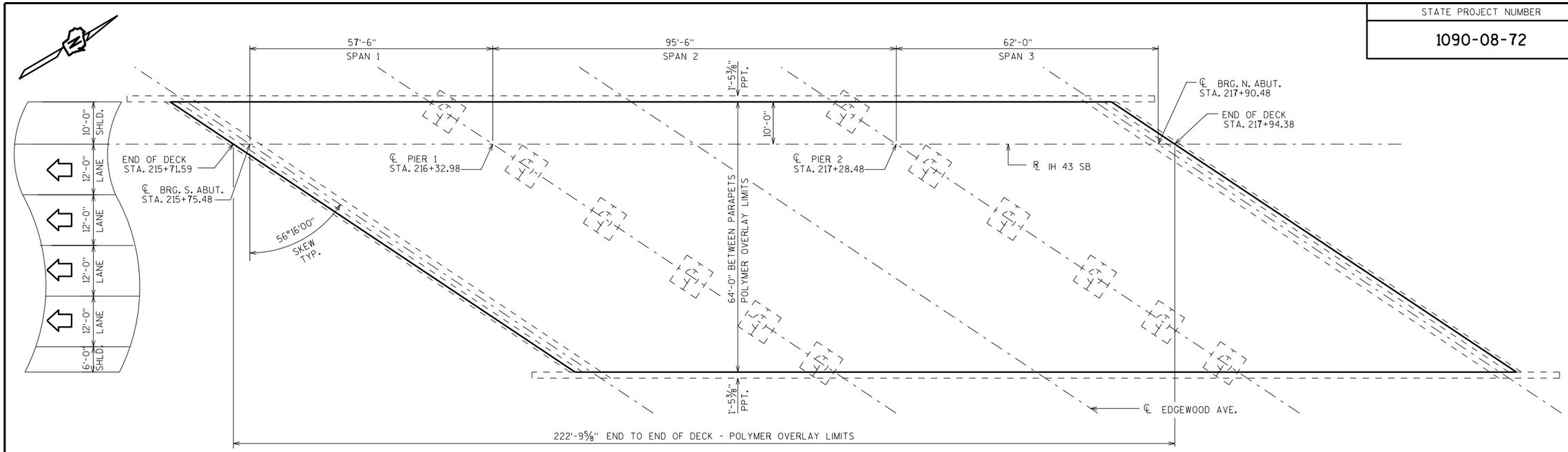
SCALE = 12.00

8

8

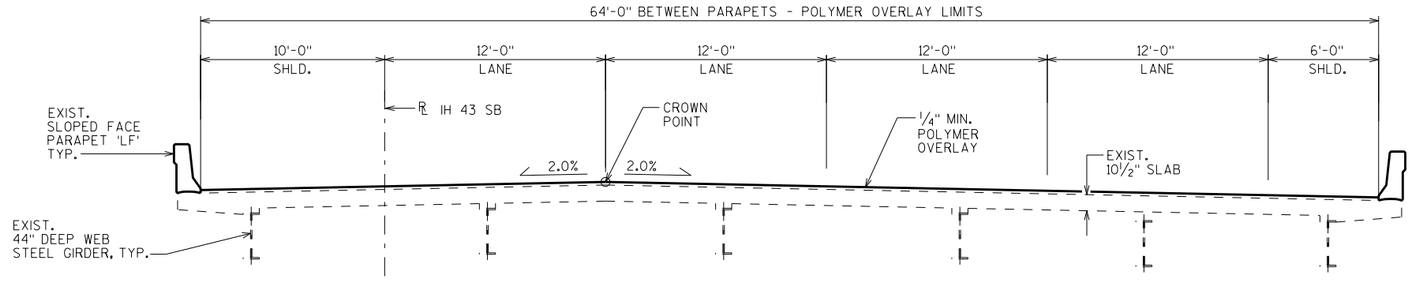
STATE PROJECT NUMBER

1090-08-72



PLAN

3 SPAN - STEEL GIRDER BRIDGE



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

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

STAGING FOR CONSTRUCTION TO BE DETERMINED BY CONTRACTOR, BASED ON PROVIDED ALLOWABLE LANE CLOSURE TIMES & INFORMATION. ALL OPTIONAL LONGIT. CONST. JOINTS USED ARE TO BE LOCATED AT A LANE LINE.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-14
OPERATING RATING: HS-24
MAXIMUM STANDARD PERMIT VEHICLE LOAD: 170 KIPS

STRUCTURE DESIGN CONTACTS:

JOEL MAAS (608) 267-0273
LAURA SHADEWALD (608) 267-9592

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	1585

LIST OF DRAWINGS

1. POLYMER OVERLAY

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 2/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-133

IH 43 SB OVER EDGEWOOD AVE.

COUNTY WAUKESHA | TOWN ~~CITY/VILLAGE~~ VERNON

DESIGN SPEC. REHABILITATION-N/A

DESIGNED BY JDM | DESIGNED CK'D. JLR | DRAWN BY WWR | PLANS CK'D. JDM

POLYMER OVERLAY

SHEET 1 OF 1

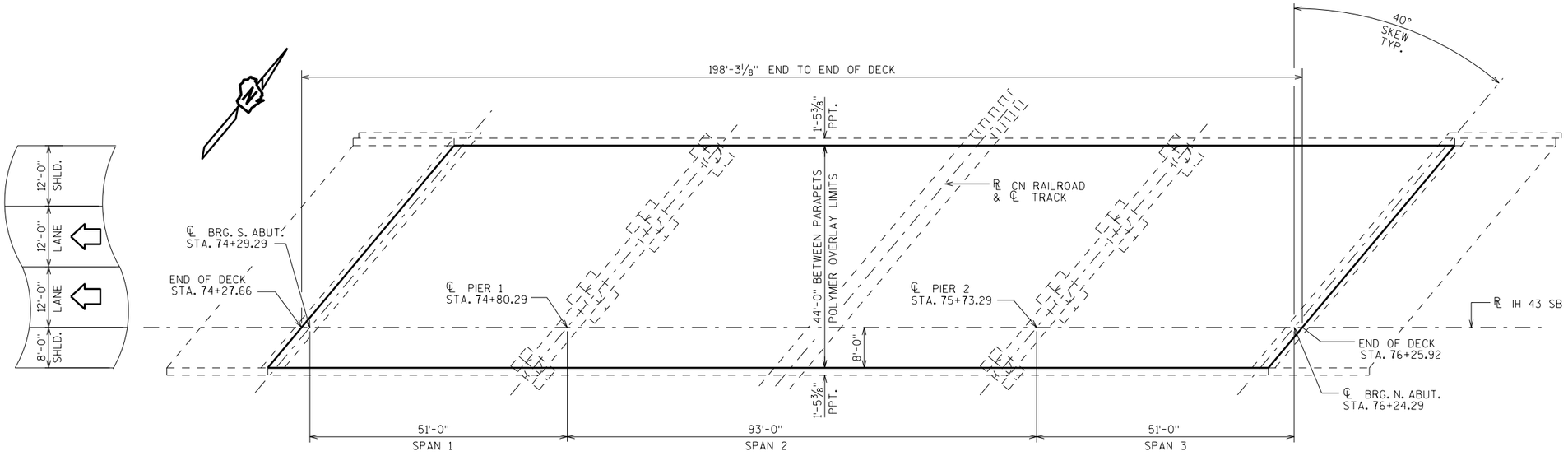
56

I.D. 1090-08-021 DATE: OCT 2019

SCALE = 12.00

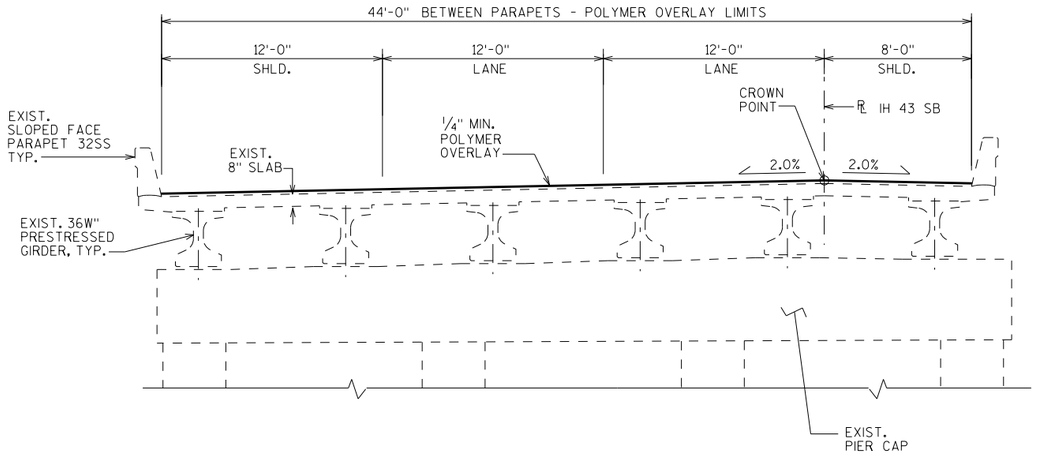
STATE PROJECT NUMBER

1090-08-72



PLAN

3 SPAN - 36W" PRESTRESSED GIRDER BRIDGE



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

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

STAGING FOR CONSTRUCTION TO BE DETERMINED BY CONTRACTOR, BASED ON PROVIDED ALLOWABLE LANE CLOSURE TIMES & INFORMATION. ALL OPTIONAL LONGIT. CONST. JOINTS USED ARE TO BE LOCATED AT A LANE LINE.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93

INVENTORY RATING: HL-1.35

OPERATING RATING: HL-1.78

MAXIMUM STANDARD PERMIT VEHICLE LOAD: 250 KIPS

STRUCTURE DESIGN CONTACTS:

JOEL MAAS (608) 267-0273

LAURA SHADEWALD (608) 267-9592

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	970

LIST OF DRAWINGS

1. POLYMER OVERLAY

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 2/20/20

CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-334

IH 43 SB OVER CN RAIL ROAD

COUNTY WAUKESHA

TOWN ~~CITY/VILLAGE~~ MUKWANAGO

DESIGN SPEC. REHABILITATION-N/A

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JDM	JLR	WWR	JDM

POLYMER OVERLAY

SHEET 1 OF 1

57

I.D. 1090-08-02J DATE: OCT 2019

SCALE = 12.00

8

8

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE

JAN 12, 2021

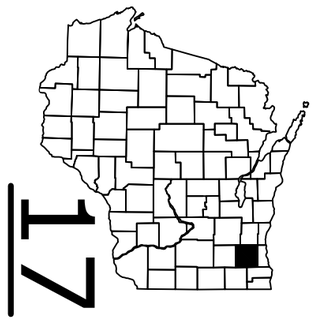
PROJECT ID: 1090-35-70

COUNTY: WAUKESHA COUNTY

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 = 108



N

DESIGN DESIGNATION IH 43

A.A.D.T. 2020	=	43900
A.A.D.T. 2040	=	53100
D.H.V. 2040	=	3558
D.D.	=	56-44
T.	=	8.2%
DESIGN SPEED	=	75 MPH
ESALS	=	16,500,000

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

IH 43 ROCK FREEWAY

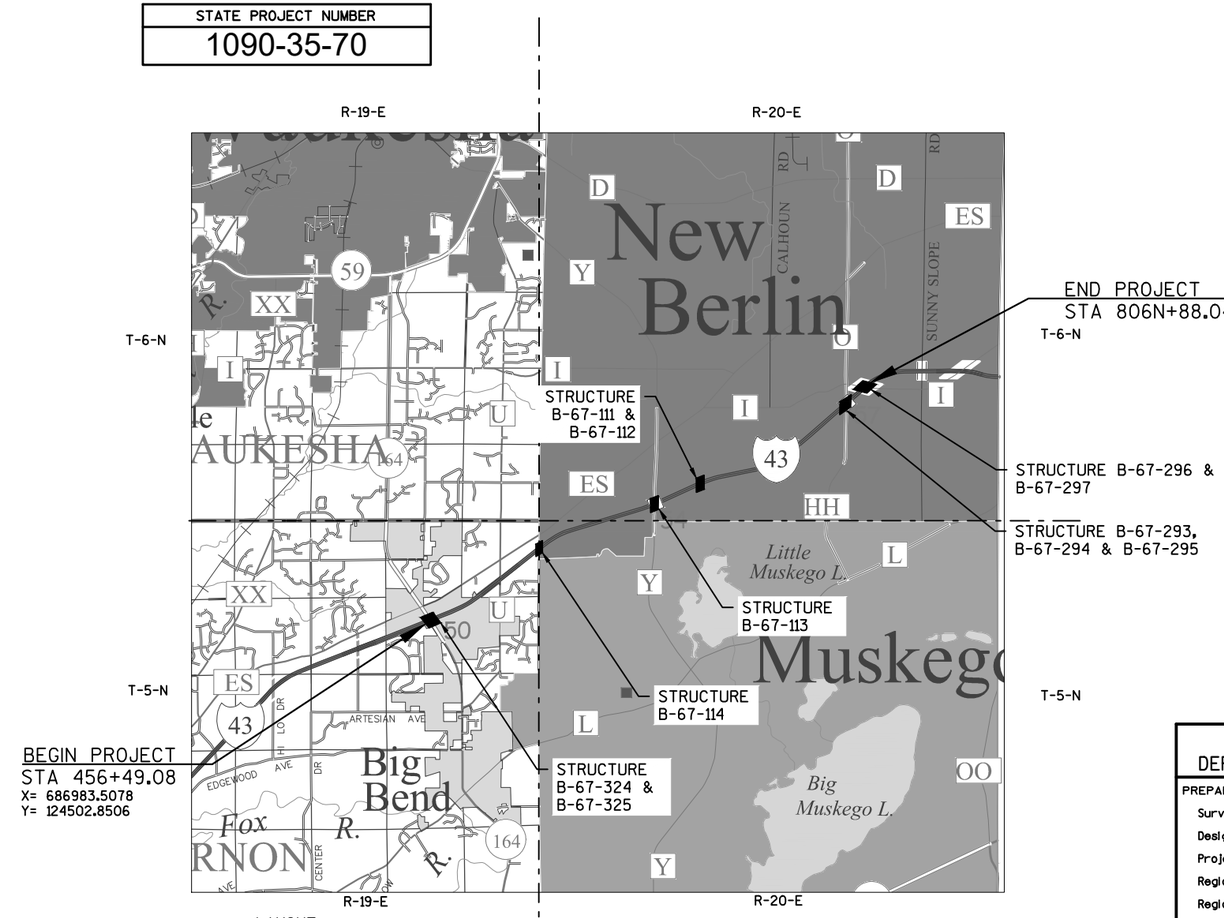
STH 164 TO BELOIT RD

IH 43

WAUKESHA COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1090-35-70	WISC 2021056	1

STATE PROJECT NUMBER
1090-35-70



LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE, WISCONSIN COUNTY COORDINATES, 'WAUKESHA' COUNTY, NAD83 (2007), IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	WISDOT
Project Manager	AMANDA JOHANSEN
Regional Examiner	
Regional Supervisor	WAFA ELQAQ, PE
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 7/29/20 Amanda Johansen (Signature)

E

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

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

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

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES AND UTILITY CONTACTS
PROJECT OVERVIEW
PLAN DETAILS
TRAFFIC CONTROL
ALIGNMENT LAYOUT

OTHER CONTACTS

WISCONSIN DEPT OF TRANSPORTATION

AMANDA JOHANSEN - PROJECT MANAGER
141 NW BARSTOW ST
WAUKESHA, WI 53187
PHONE: (262) 521-4465
amanda.johansen@dot.wi.gov

WISCONSIN DEPT OF NATURAL RESOURCES

CRAIG WEBSTER
141 NW BARSTOW ST, RM 208
WAUKESHA, WI 53188
PHONE: (262) 574-2141
CELL: (414) 303-3011
craig.webster@wi.gov

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

UTILITY CONTACTS

ANR PIPELINE CO - GAS / PETROLEUM

TODD BRISTER
W3925 PIPELINE LN
EDEN, WI 53019
PHONE: (920) 477-2235
todd_brister@transcanada.com

AT&T DISTRIBUTION - COMMUNICATIONS

TOM CROWLEY
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
PHONE: (262) 896-7427
tc1657@att.com

AT&T DISTRIBUTION - COMMUNICATIONS

MATTHEW DINNAUER
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
PHONE: (262) 896-7690
md9542@att.com

MCI - COMMUNICATIONS

TELECOM CONSTRUCTION - COMMUNICATIONS

TIME WARNER CABLE - COMMUNICATIONS

TW CABLE ENGINEERING
1320 N MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
wis.engineering@twcable.com

WE ENERGIES - ELECTRICAL

NICOLE SMULLEN
A299
333 W EVERETT ST
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
Nicole.Smullen@wecenergygroup.com

WE ENERGIES - GAS/PETROLEUM

NICOLE SMULLEN
A299
333 W EVERETT ST
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
Nicole.Smullen@wecenergygroup.com

CITY OF NEW BERLIN - ROAD / SEWER / WATER

J.P. WALKER
3805 S CASPER DR
NEW BERLIN, WI 53151-5510
PHONE: (262) 797-2453
jwalker@newberlin.org

CITY OF MUSKEGO - ROAD / SEWER / WATER

SCOTT KLOSKOWSKI
P.O. BOX 749
MUSKEGO, WI 53150-749
PHONE: (262) 679-4128
skloskowski@ci.muskego.wi.us

TOWN OF VERNON - DEPT. OF PUBLIC WORKS - ROAD

JOHN HENNEBERRY
W249 S8910 CENTER DR
BIG BEND, WI 53103
PHONE: (262) 662-7785
jhenneberry@townofvernon.org

VILLAGE OF BIG BEND DEPT. OF PUBLIC WORKS - ROAD

ERIC PEDERSEN
W230 S9185 NEVINS ST
BIG BEND, WI 53103
(262) 662-4903
publicworks@villageofbigbend.com

WAUKESHA COUNTY DEPT. OF PUBLIC WORKS - ROAD

CAROLYNN GELLINGS
1320 PEWAUKEE RD
WAUKESHA, WI 53188
PHONE: (262) 548-7740
cgellings@waukeshacounty.gov

WISCONSIN DEPT OF TRANSPORTATION - STREET LIGHTING

ERIC PEREA
141 NW BARSTOW ST
WAUKESHA, WI 53188
PHONE: (262) 574-5422
Eric.Perea@dot.wi.gov

WISCONSIN DEPT OF TRANSPORTATION - SIGNALS

DERRIN WOLFORD
141 NW BARSTOW ST
WAUKESHA, WI 53188
PHONE: (262) 521-4409
derrin.wolford@dot.wi.gov

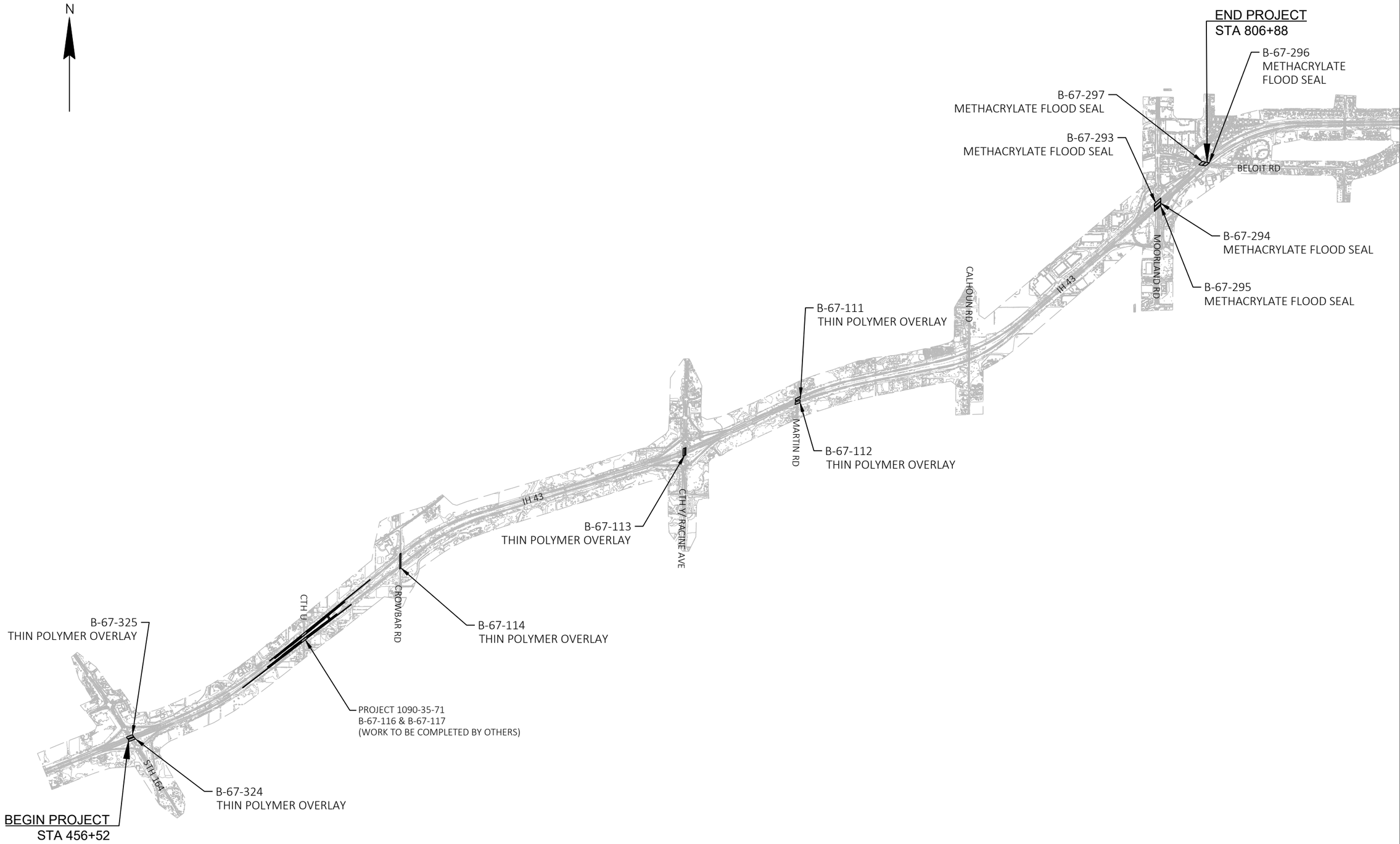
WISCONSIN DEPT OF TRANSPORTATION - ITS

JEFF MADSON
433 W ST PAUL AVE
WAUKESHA, WI 53188
PHONE: (262) 521-4409
derrin.wolford@dot.wi.gov

WISDOT ATR PULL BOXES - ELECTRICAL

CHAD BIGLER
TRAVEL SURVEY SHOP, 3633 PIERSTORFF ST
P.O. BOX 2583
MADISON, WI 53704-2583
PHONE: (608) 535-7413
chad.bigler@dot.wi.gov

2



PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	PROJECT OVERVIEW	SHEET 3	E

2

N

RIPRAP

POST

POST

SIGN

STH 164 SB

STH 164 NB

HW

STRUCTURE B-67-325 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS)

INL

IH 43 SB

1

3

2

455+00

456+00

457+00

458+00

459+00

460+00

4

IH 43 NB

2

3

1

INL

POST

SIGN

STRUCTURE B-67-324 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS)

POST

POST

RIPRAP

LEGEND

- INLET PROTECTION TYPE B
- 1 MARKING LINE EPOXY 4-INCH (WHITE)
- 2 MARKING LINE EPOXY 4-INCH (YELLOW)
- 3 MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- 4 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 4	E

FILE NAME : N:\PDS\C3D\10903500\70\021201_PD.DWG
LAYOUT NAME - 021201_pd

PLOT DATE : 1/26/2020 2:36 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

546N

547N

547S

548S

549S

548N

549N

550S

551S

IH 43 NB

IH 43 SB

N

RIPRAP

SIGN

SIGN

2
DOUBLE

CROWBAR RD

4C 5C 6C 7C 8C 9C 10C

INL

INL

INL

INL

INL

STRUCTURE B-67-114 THIN POLYMER OVERLAY
(SEE STRUCTURE PLANS)

LEGEND

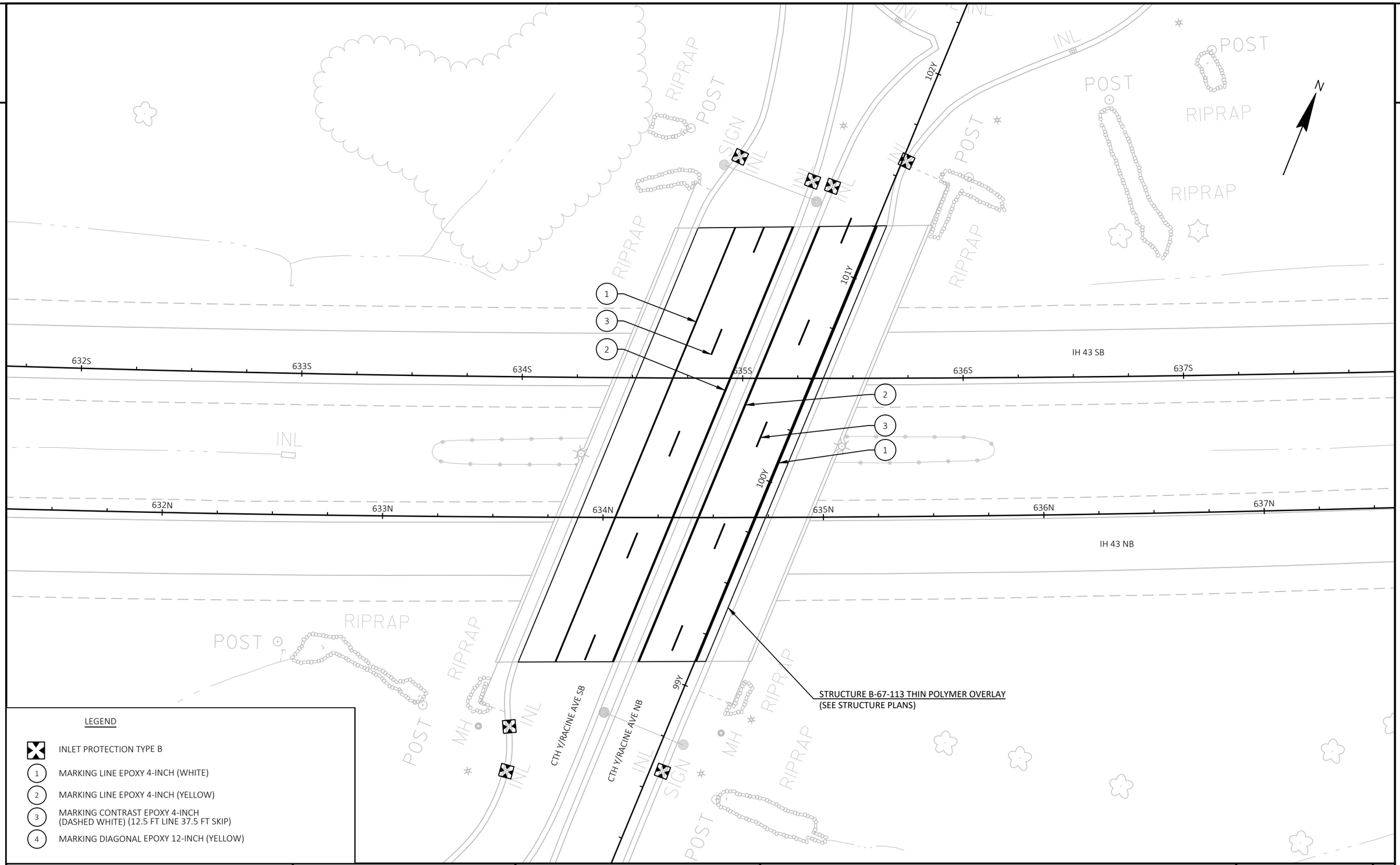
- INLET PROTECTION TYPE B
- 1 MARKING LINE EPOXY 4-INCH (WHITE)
- 2 MARKING LINE EPOXY 4-INCH (YELLOW)
- 3 MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- 4 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 5	E

FILE NAME : N:\PDS\C3D\10903500\70\021201_PD.DWG
LAYOUT NAME - 021203_pd

PLOT DATE : 1/26/2020 2:37 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

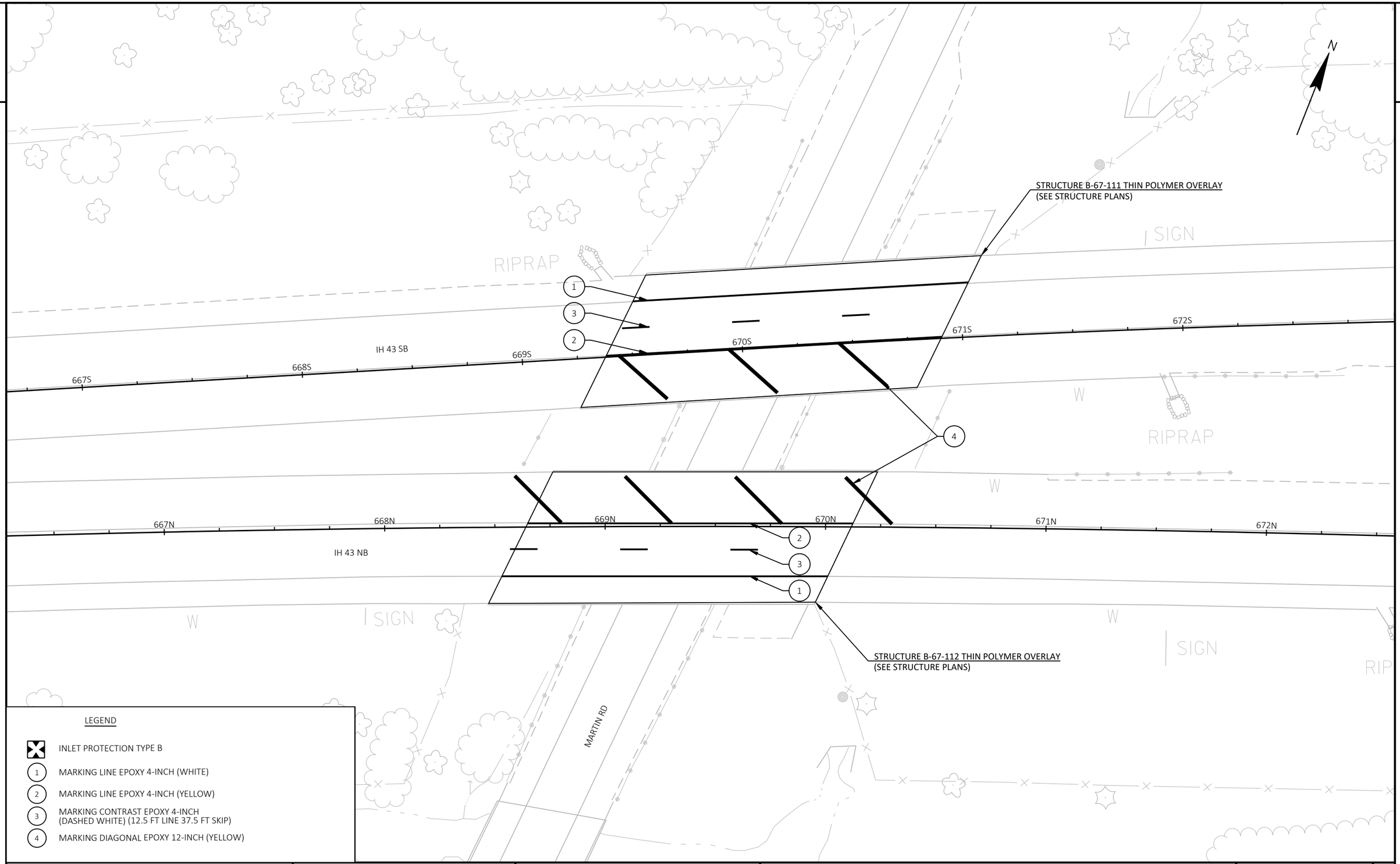
- INLET PROTECTION TYPE B
- (1) MARKING LINE EPOXY 4-INCH (WHITE)
- (2) MARKING LINE EPOXY 4-INCH (YELLOW)
- (3) MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (4) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 6	E

FILE NAME : N:\PDS\C3D\10903500\70\021201_PD.DWG
LAYOUT NAME - 021204_pd

PLOT DATE : 1/26/2020 2:37 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 7	E

2

LEGEND

- INLET PROTECTION TYPE B
- (1) MARKING LINE EPOXY 4-INCH (WHITE)
- (2) MARKING LINE EPOXY 4-INCH (YELLOW)
- (3) MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (4) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

STRUCTURE B-67-293 METHACRYLATE FLOOD SEAL
(SEE STRUCTURE PLANS)

IH 43 SB

786S 787S 788S 789S 790S 791S

786N 787N 788N 789N 790N 791N

IH 43 NB

MOORLAND RD/NB IH 43 ENTRANCE RAMP

STRUCTURE B-67-294 METHACRYLATE FLOOD SEAL
(SEE STRUCTURE PLANS)

STRUCTURE B-67-295 METHACRYLATE FLOOD SEAL
(SEE STRUCTURE PLANS)

MOORLAND RD SB

MOORLAND RD NB

RIPRAP

I SIGN

INL W MH R

2

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 8	E

FILE NAME : N:\PDS\C3D\10903500\70\021201_PD.DWG
LAYOUT NAME - 021206_pd

PLOT DATE : 1/26/2020 2:38 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

STRUCTURE B-67-297 METHACRYLATE FLOOD SEAL
(SEE STRUCTURE PLANS)

IH 43 SB

803S 804S 805S 806S 807S 808S 809

1
3
2
4

803N 804N 805N 806N 807N 808N 809N

IH 43 NB

2
3
1

STRUCTURE B-67-296 METHACRYLATE FLOOD SEAL
(SEE STRUCTURE PLANS)

RIPRAP
INL
MH
W
BELOIT RD

LEGEND

- INLET PROTECTION TYPE B
- 1 MARKING LINE EPOXY 4-INCH (WHITE)
- 2 MARKING LINE EPOXY 4-INCH (YELLOW)
- 3 MARKING CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- 4 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 9	E

FILE NAME : N:\PDS\C3D\10903500\70\021201_PD.DWG
LAYOUT NAME - 021207_pd

PLOT DATE : 1/26/2020 2:39 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE III BARRICADE WITH TWO TYPE A LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN WITH TWO TYPE A LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- Ⓐ TYPE A WARNING LIGHT (FLASHING)
- Ⓑ TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- Ⓒ TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- TEMPORARY PORTABLE RUMBLE STRIP ARRAY

TRAFFIC CONTROL 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

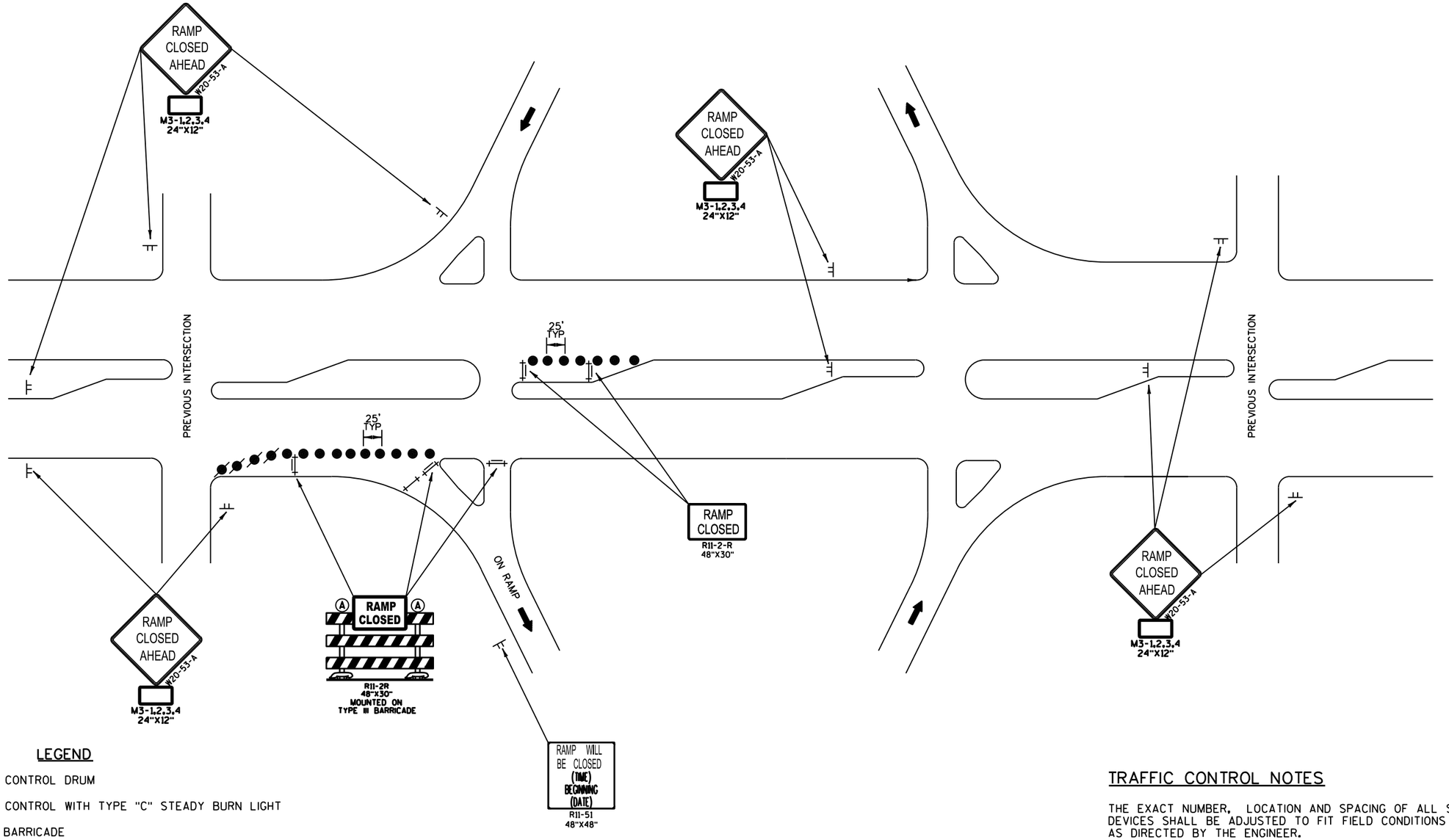
THE EXACT NUMBER, LOCATIONS AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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.

LANE CLOSURES ARE SHORT TERM AND NIGHT TIME OPERATIONS. SHORT TERM DEFINED AS 7 DAYS/NIGHTS OR LESS. TYPE C (STEADY BURN) MAY BE APPLIED TO ARTERIALS OR LOCAL ROADS. FOR SINGLE LANE CLOSURE WITH RAMP, USE TRAFFIC CONTROL DEVICES SPECIFIED ON PLAN.

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - LEGEND	SHEET 10	E

2



LEGEND

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

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
SHORT TERM ONLY

TRAFFIC CONTROL NOTES

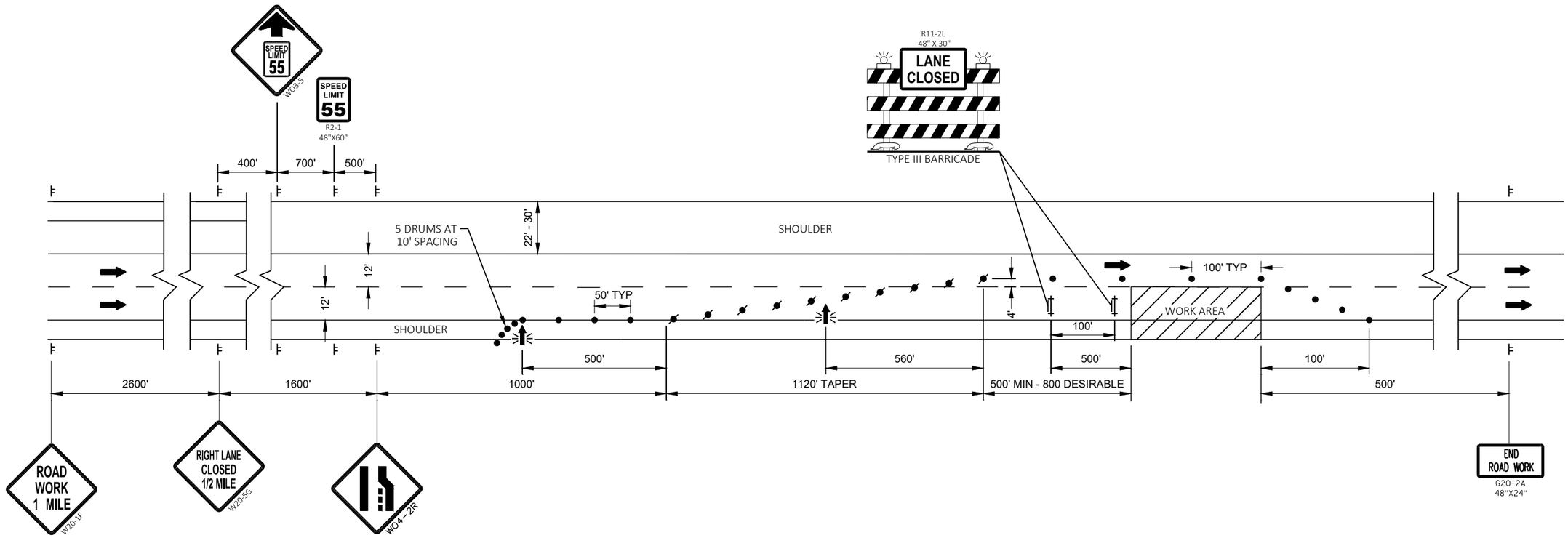
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

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

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

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

2



LEGEND

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

NIGHT TIME LANE CLOSURE AT BRIDGE(S)

STAGE 1:	STAGE 2:
B-67-324	B-67-324
B-67-325	B-67-325
B-67-111	B-67-111
B-67-112	B-67-112
B-67-293	B-67-293
B-67-294	B-67-294
B-67-295	B-67-296
B-67-296	B-67-297
B-67-297	

TRAFFIC CONTROL NOTES

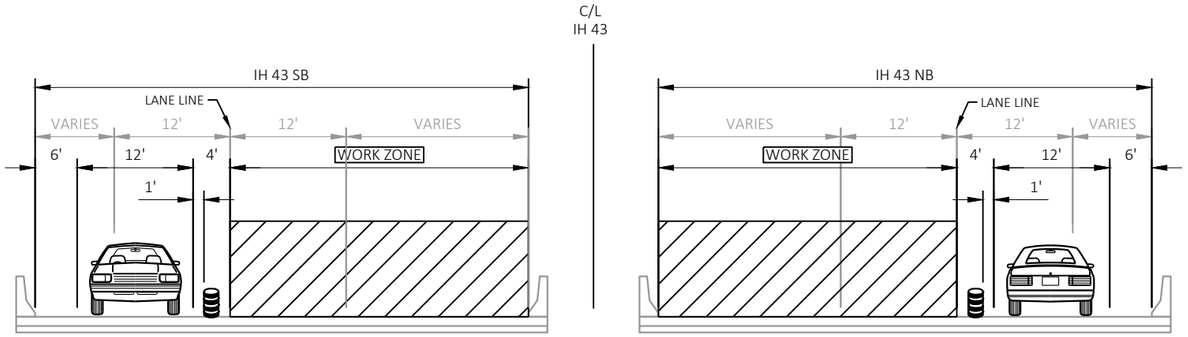
THIS LANE CLOSURE IS TYPICAL FOR CLOSING THE RIGHT LANE. REVERSE FOR CLOSING LEFT LANE.

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

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

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

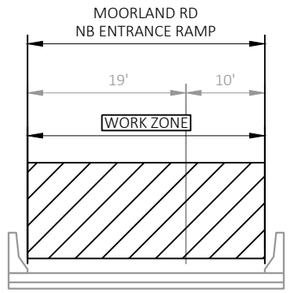
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS.



B-67-325, B-67-111, B-67-293, B-67-297

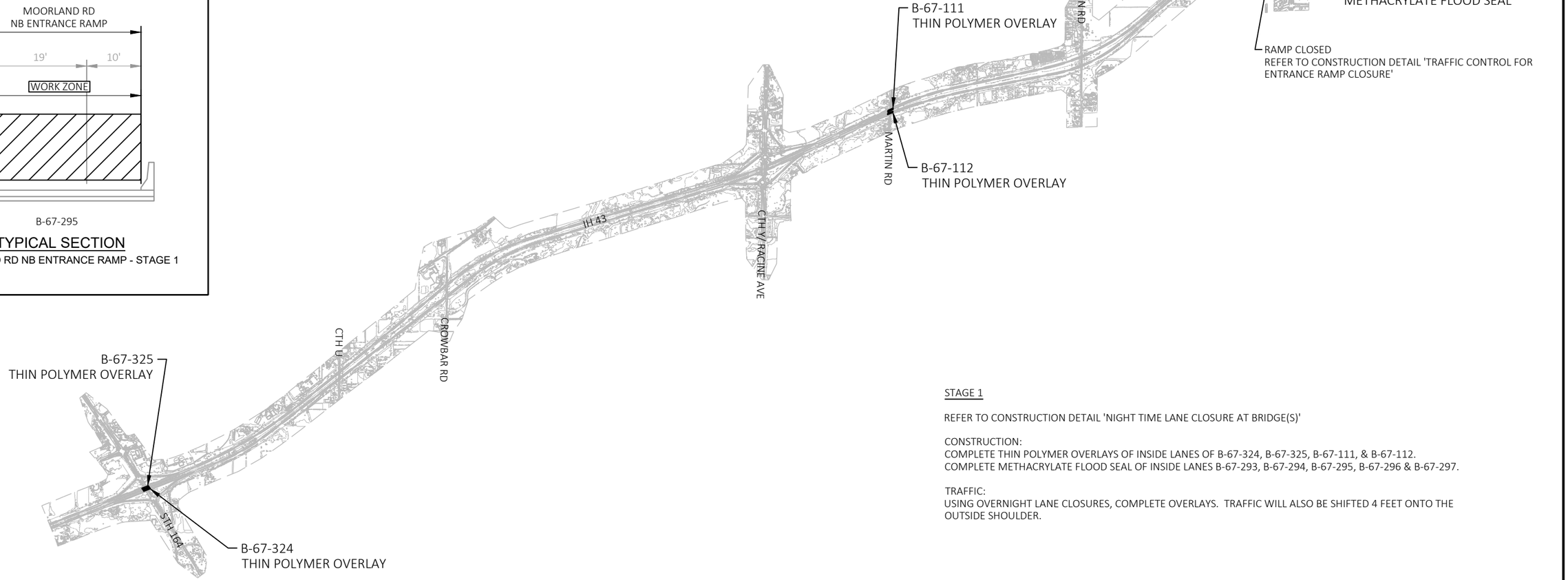
B-67-324, B-67-112, B-67-294, B-67-296

TYPICAL SECTION
IH 43 - STAGE 1



B-67-295

TYPICAL SECTION
MOORLAND RD NB ENTRANCE RAMP - STAGE 1



STAGE 1

REFER TO CONSTRUCTION DETAIL 'NIGHT TIME LANE CLOSURE AT BRIDGE(S)'

CONSTRUCTION:
COMPLETE THIN POLYMER OVERLAYS OF INSIDE LANES OF B-67-324, B-67-325, B-67-111, & B-67-112.
COMPLETE METHACRYLATE FLOOD SEAL OF INSIDE LANES B-67-293, B-67-294, B-67-295, B-67-296 & B-67-297.

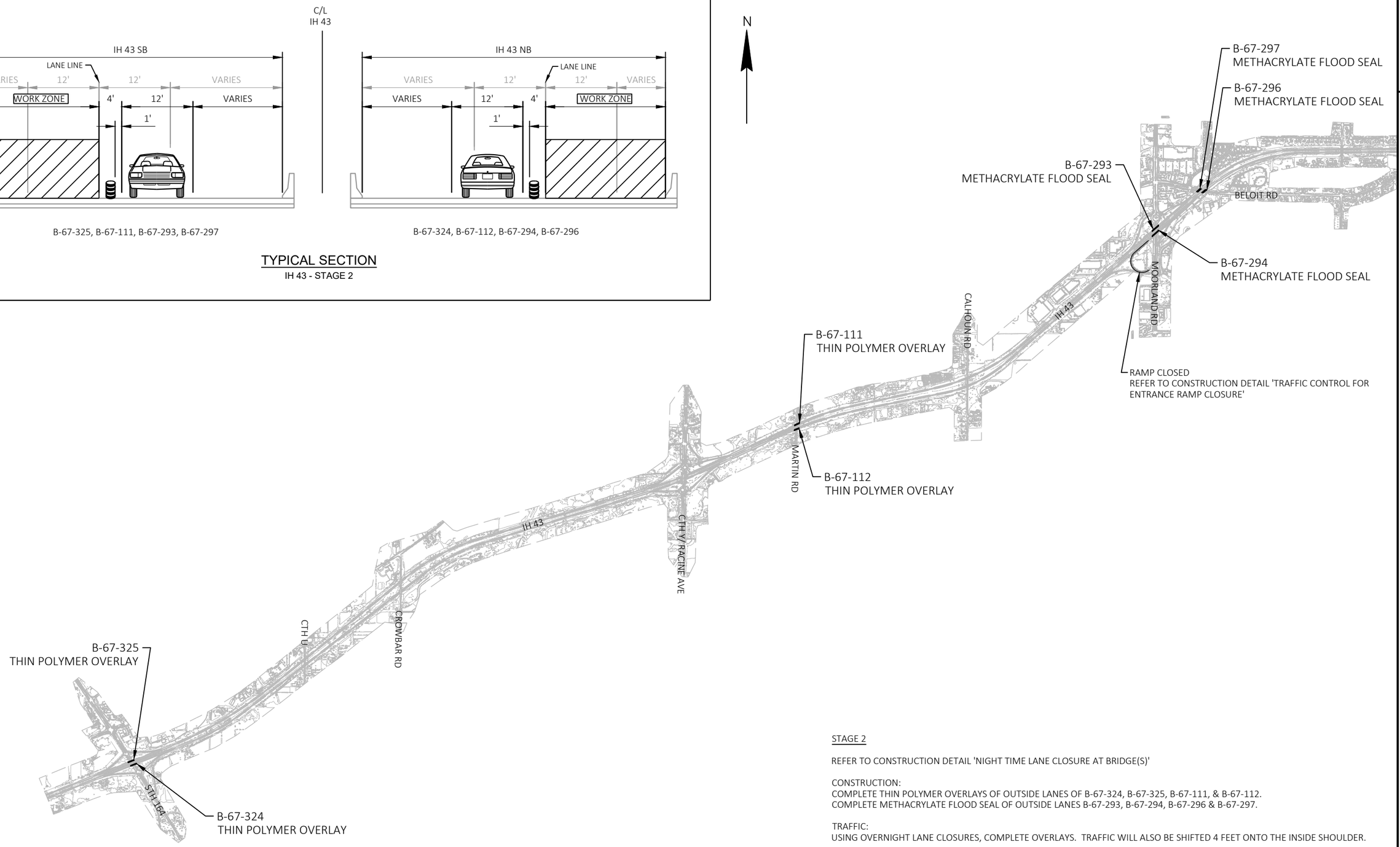
TRAFFIC:
USING OVERNIGHT LANE CLOSURES, COMPLETE OVERLAYS. TRAFFIC WILL ALSO BE SHIFTED 4 FEET ONTO THE OUTSIDE SHOULDER.

B-67-325, B-67-111, B-67-293, B-67-297

B-67-324, B-67-112, B-67-294, B-67-296

TYPICAL SECTION

IH 43 - STAGE 2



STAGE 2

REFER TO CONSTRUCTION DETAIL 'NIGHT TIME LANE CLOSURE AT BRIDGE(S)'

CONSTRUCTION:
COMPLETE THIN POLYMER OVERLAYS OF OUTSIDE LANES OF B-67-324, B-67-325, B-67-111, & B-67-112.
COMPLETE METHACRYLATE FLOOD SEAL OF OUTSIDE LANES B-67-293, B-67-294, B-67-296 & B-67-297.

TRAFFIC:
USING OVERNIGHT LANE CLOSURES, COMPLETE OVERLAYS. TRAFFIC WILL ALSO BE SHIFTED 4 FEET ONTO THE INSIDE SHOULDER.

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 2	SHEET 14	E

2

STAGE 1 & 2 - MARTIN ROAD UNDER IH 43

REFER TO SDD 'TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY' FOR ADDITIONAL DETAILS.

CONSTRUCTION:
COMPLETE CONCRETE SURFACE REPAIR OF PIER CAPS OF B-67-112.

TRAFFIC:
SHOULDER CLOSURE ON MARTIN ROAD TO COMPLETE WORK ON THE PIER CAPS.

N

END ROAD WORK
G20-2A
48"X24"

SHOULDER WORK
W21-5

ROAD WORK AHEAD
W20-1A

350'

700'

10' (TYP)

25' (TYP)

20'

MARTIN RD

S MARTIN RD

IH 43 NB

IH 43 SB

RIPRAP

POST

SIGN

MH

SEPC

SEPV

SEPTIC

FLAG

FOOTBRIDGE

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 1 & 2 - MARTIN RD	SHEET 15	E

FILE NAME : N:\PDS\C3D\10903500\70\025125_TC.DWG
LAYOUT NAME - 025125_tc

PLOT DATE : 1/26/2020 2:42 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

STAGE 3A

REFER TO SDD 'TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION' FOR ADDITIONAL DETAILS AND GUIDANCE.

CONSTRUCTION:
COMPLETE THIN POLYMER OVERLAY OF EAST HALF OF B-67-114.

TRAFFIC:
USING FLAGGING OPERATIONS, COMPLETE OVERLAY.

IH 43 SB
IH 43 NB
NATIONAL AVE
CTH ES
CROWBAR DR
TANS DR

540S
540N
545S
545N
550S
550N
555S
555N
560S

BP: 0+00.00
EP: 26+38.51

5C
10C
15C
20C
25C

25' (TYP)

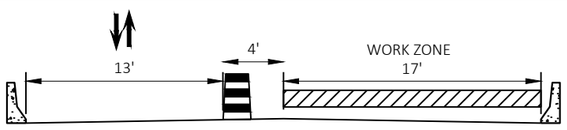
200'

SEE 'ADVANCED WARNING SIGNS' DETAIL.

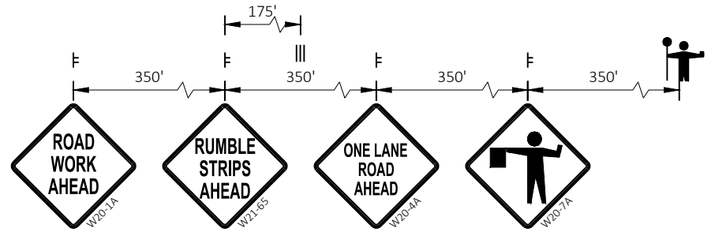
B-67-114
THIN POLYMER OVERLAY

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"



TYPICAL SECTION
STAGE 3A - B-67-114
(LOOKING NORTH)



ADVANCED WARNING SIGNS

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3A - CROWBAR RD	SHEET 16	E

FILE NAME : N:\PDS\C3D\10903500\70\025131_TC.DWG
LAYOUT NAME - 025131_tc
PLOT DATE : 1/26/2020 2:42 PM
PLOT BY : SPAETH, MICHELE L
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

N

STAGE 3A

REFER TO SDD 'TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION' FOR ADDITIONAL DETAILS AND GUIDANCE.

CONSTRUCTION:
COMPLETE THIN POLYMER OVERLAY OF WEST HALF OF B-67-114.

TRAFFIC:
USING FLAGGING OPERATIONS, COMPLETE OVERLAY.

IH 43 SB
IH 43 NB
NATIONAL AVE
CTH ES
CROWBAR RD
CROWBAR DR
TANS DR
B-67-114
THIN POLYMER OVERLAY
SEE 'ADVANCED WARNING SIGNS' DETAIL.
SEE 'ADVANCED WARNING SIGNS' DETAIL.

END ROAD WORK
G20-2A
48"X24"

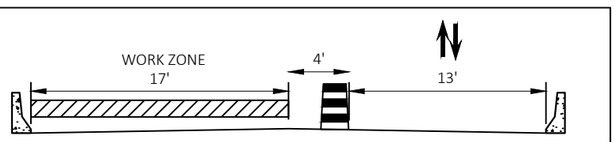
ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

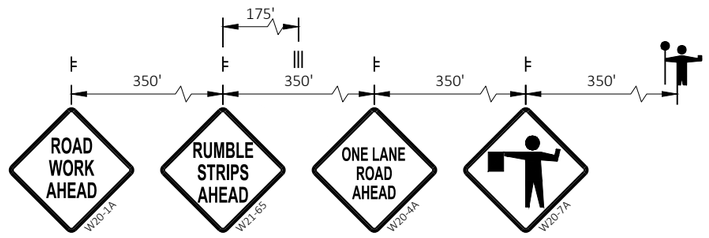
ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

END ROAD WORK
G20-2A
48"X24"



TYPICAL SECTION
STAGE 3B - B-67-114
(LOOKING NORTH)



ADVANCED WARNING SIGNS

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 3B - CROWBAR RD	SHEET 17	E

FILE NAME : N:\PDS\C3D\10903500\70\025141_TC.DWG
LAYOUT NAME - 025141_tc
PLOT DATE : 1/26/2020 2:43 PM
PLOT BY : SPAETH, MICHELE L
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2

2

N

BP: 74+06.92

MATCHLINE STA 88+00

CTH Y

SIGN

POST

SCALE

RIPRAP

INL

76Y

78Y

80Y

82Y

84Y

86Y

50' (TYP)

10' (TYP)

LANE CLOSED
R11-2L
48"X30"

W04-1R

W COLLEGE AVE

500'

ROAD WORK AHEAD
W20-1A

ROAD CLOSED AHEAD
W20-3A

RIGHT LANE CLOSED AHEAD
W20-5A

W04-2R

NORTH
M3-1
24"X12"

COUNTY Y
M1-5A
24"X24"

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 4 - CTH Y	SHEET 18	E

FILE NAME : N:\PDS\C3D\10903500\70\025151_TC.DWG
LAYOUT NAME - 025151_tc

PLOT DATE : 1/26/2020 2:44 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

STAGE 4

REFER TO SDD 'BARRICADES FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION' FOR ADDITIONAL GUIDANCE AND TRAFFIC CONTROL DEVICES.

SEE 'DETOUR PLAN - CTH Y' FOR ADDITIONAL INFORMATION.

CONSTRUCTION:
COMPLETE THIN POLYMER OVERLAY OF B-67-113.

TRAFFIC:
TRAFFIC WILL BE DETOURED OVERNIGHT TO COMPLETE THE OVERLAY. SEE DETOUR PLAN.

2

N

NB IH 43 EXIT RAMP

ROAD CLOSED AHEAD
W20-3A

NORTH
M3-1
24"X12"

COUNTY Y
M1-5A
24"X24"

500'

END ROAD WORK
G20-2A
48"X24"

500'

PI: 88+06.92

MATCHLINE STA 88+00

SB CTH Y/RACINE AVE

CTH Y

NB CTH Y/RACINE AVE

90Y 92Y 94Y 96Y 98Y 100Y

50' (TYP)

25' (TYP)

10' (TYP)

LANE CLOSED
R11-2L
48"X30"

RIGHT LANE MUST TURN RIGHT
R3-7R
30"X30"

W12-2D
48"X48"

LANE CLOSED
R11-2L
48"X30"

ROAD CLOSED
R11-2
48"X30"

630N 632N 634N 634S 632S 630S

MATCHLINE STA 101+50

636S 636N 638S 638N 640S 640N

ROAD CLOSED AHEAD
W20-3A

NORTH
M3-1
24"X12"

COUNTY Y
M1-5A
24"X24"

500'

END ROAD WORK
G20-2A
48"X24"

W COLLEGE AVE

END ROAD WORK
G20-2A
48"X24"

NB IH 43 ENTRANCE RAMP

SB IH 43

NB IH 43

POST RIPRAP SIGN INL MH FOOTBRIDGE

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 4 - CTH Y	SHEET 19	E

2

N

END ROAD WORK
G20-2A
48"X24"

SB IH 43 ENTRANCE RAMP

500'

ROAD CLOSED
R11-2
48"X30"

10' (TYP)

LANE CLOSED
R11-2L
48"X30"

25' (TYP)

RIGHT LANE MUST TURN RIGHT
R3-7R
30"X30"

50' (TYP)

LANE CLOSED
R11-2L
48"X30"

ROAD CLOSED AHEAD
W20-3A

SOUTH
M3-3
36"X18"

COUNTY Y
M1-5A
24"X24"

500'

JULIUS HEIL DR

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

10' (TYP)

50' (TYP)

SB CTH Y/RACINE AVE

PI: 114+60.31

MATCHLINE STA 101+50

102Y 104Y 106Y 108Y NB CTH Y/RACINE AVE 110Y 112Y 114Y

MATCHLINE STA 115+25

CEMETERY

S RACINE CT

W TERRACE DR

END ROAD WORK
G20-2A
48"X24"

500'

LANE CLOSED
R11-2L
48"X30"

25' (TYP)

SB IH 43 EXIT RAMP

638S

638N

640S

642S

1000'

LEFT LANE CLOSED AHEAD
W20-5A

ROAD CLOSED AHEAD
W20-3A

SOUTH
M3-3
36"X18"

COUNTY Y
M1-5A
24"X24"

500'

END ROAD WORK
G20-2A
48"X24"

ROAD CLOSED AHEAD
W20-3A

SOUTH
M3-3
36"X18"

COUNTY Y
M1-5A
24"X24"

STAGE 4

REFER TO SDD 'BARRICADES FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION' FOR ADDITIONAL GUIDANCE AND TRAFFIC CONTROL DEVICES.

SEE 'DETOUR PLAN - CTH Y' FOR ADDITIONAL INFORMATION.

CONSTRUCTION:
COMPLETE THIN POLYMER OVERLAY OF B-67-113.

TRAFFIC:
TRAFFIC WILL BE DETOURED OVERNIGHT TO COMPLETE THE OVERLAY. SEE DETOUR PLAN.

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 4 - CTH Y	SHEET 20	E

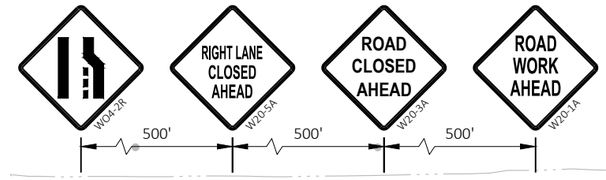
FILE NAME : N:\PDS\C3D\10903500\70\025151_TC.DWG
LAYOUT NAME - 025153_tc

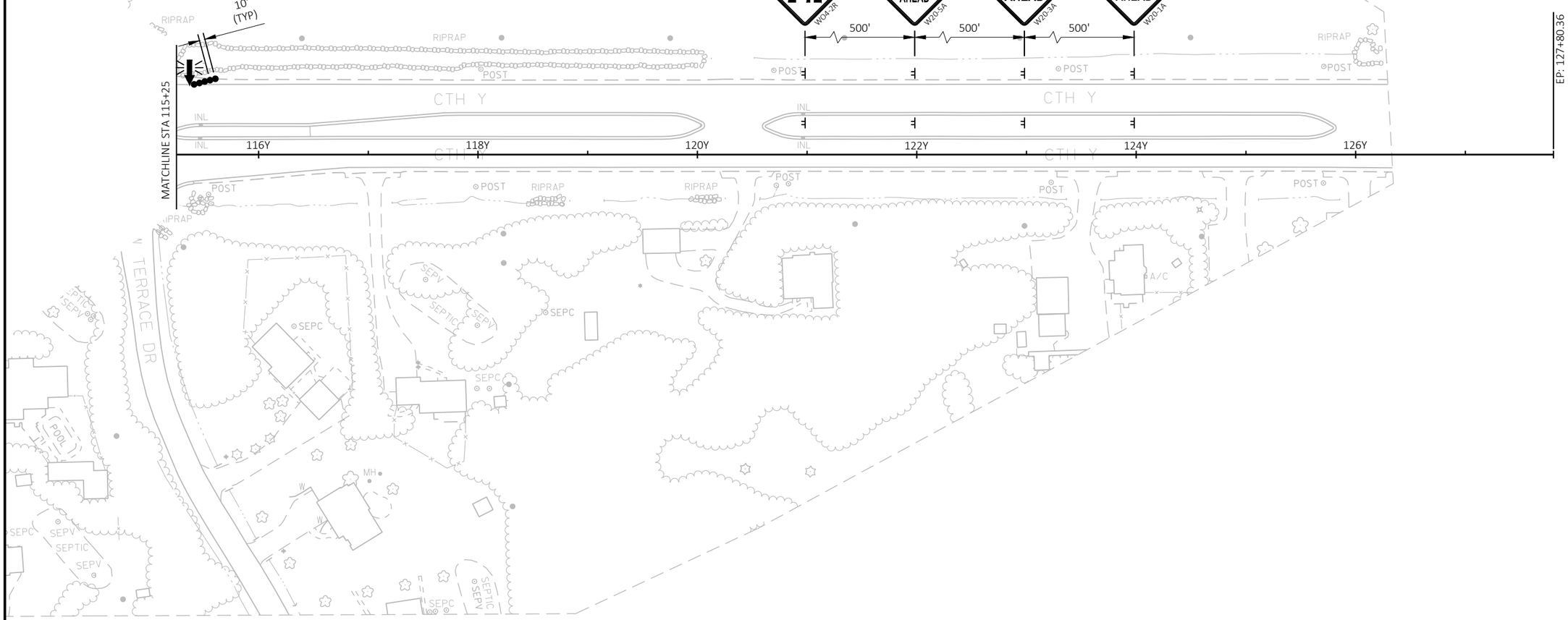
PLOT DATE : 1/26/2020 2:45 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N





PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	TRAFFIC CONTROL - STAGE 4 - CTH Y	SHEET 21	E

FILE NAME : N:\PDS\C3D\10903500\70\025151_TC.DWG
LAYOUT NAME - 025154_tc

PLOT DATE : 1/26/2020 2:46 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

1 — NORTH M3-1 36"X18" — COUNTY Y M1-5A 24"X24" — DETOUR AHEAD W20-2A

2 — DETOUR M4-8 36"X18" — NORTH M3-1 36"X18" — COUNTY Y M1-5A 24"X24" — MO5-2R 21"X21"

3 — DETOUR M4-8 36"X18" — NORTH M3-1 36"X18" — COUNTY Y M1-5A 24"X24" — MO6-2 21"X21"

4 — DETOUR M4-8 24"X12" — NORTH M3-1 24"X12" — COUNTY Y M1-5A 24"X24"

5 — DETOUR M4-8 24"X12" — NORTH M3-1 24"X12" — COUNTY Y M1-5A 24"X24" — MO5-1L 21"X21"

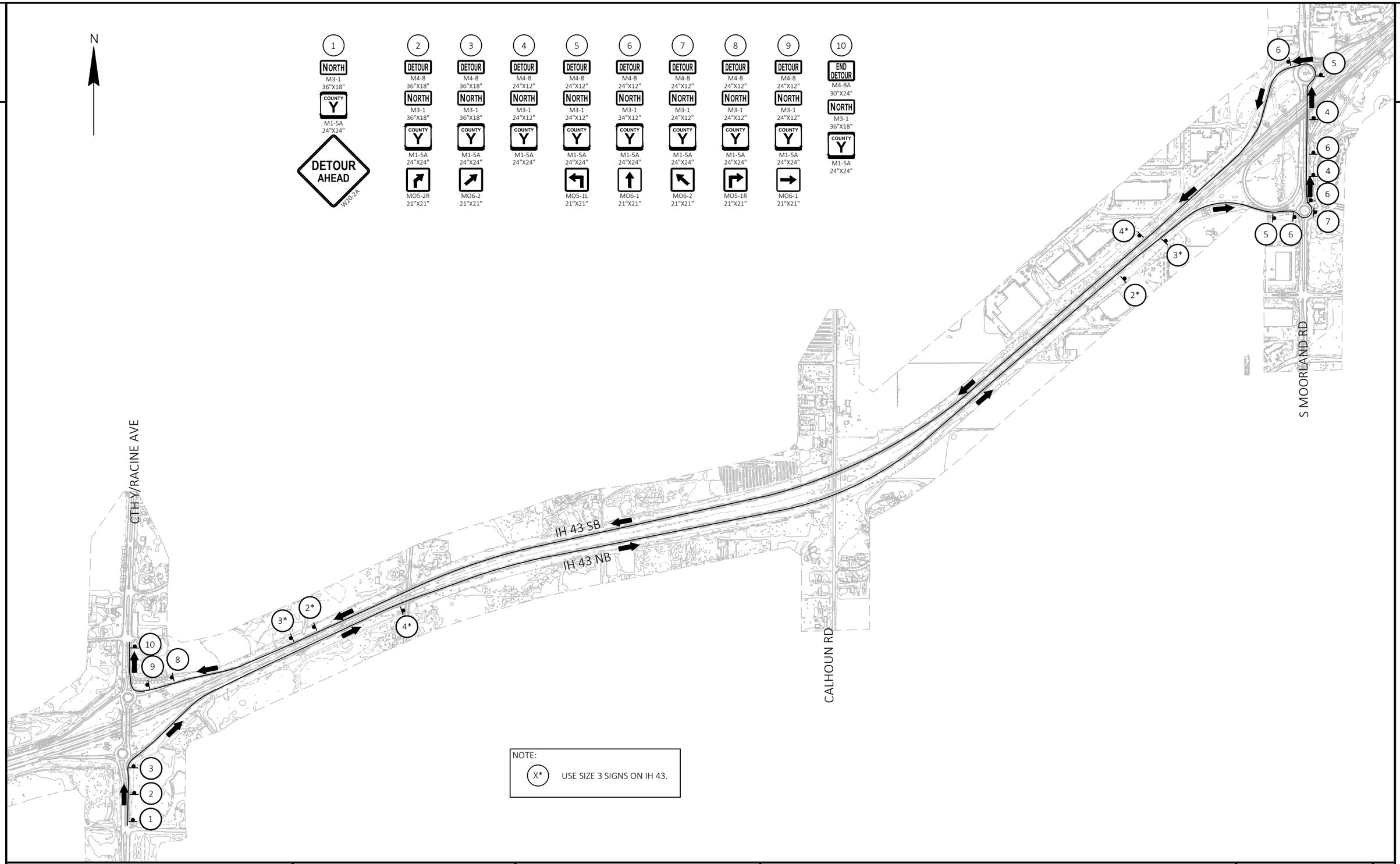
6 — DETOUR M4-8 24"X12" — NORTH M3-1 24"X12" — COUNTY Y M1-5A 24"X24" — MO6-1 21"X21"

7 — DETOUR M4-8 24"X12" — NORTH M3-1 24"X12" — COUNTY Y M1-5A 24"X24" — MO6-2 21"X21"

8 — DETOUR M4-8 24"X12" — NORTH M3-1 24"X12" — COUNTY Y M1-5A 24"X24" — MO5-1R 21"X21"

9 — DETOUR M4-8 24"X12" — NORTH M3-1 24"X12" — COUNTY Y M1-5A 24"X24" — MO6-1 21"X21"

10 — END DETOUR M4-8A 30"X24" — NORTH M3-1 36"X18" — COUNTY Y M1-5A 24"X24"



NOTE:
(X*) USE SIZE 3 SIGNS ON IH 43.

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	DETOUR PLAN - CTH Y	SHEET 22	E

FILE NAME : N:\PDS\C3D\10903500\70\027001_DT.DWG
LAYOUT NAME - 027001_dt

PLOT DATE : 1/26/2020 2:46 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:1000 FT

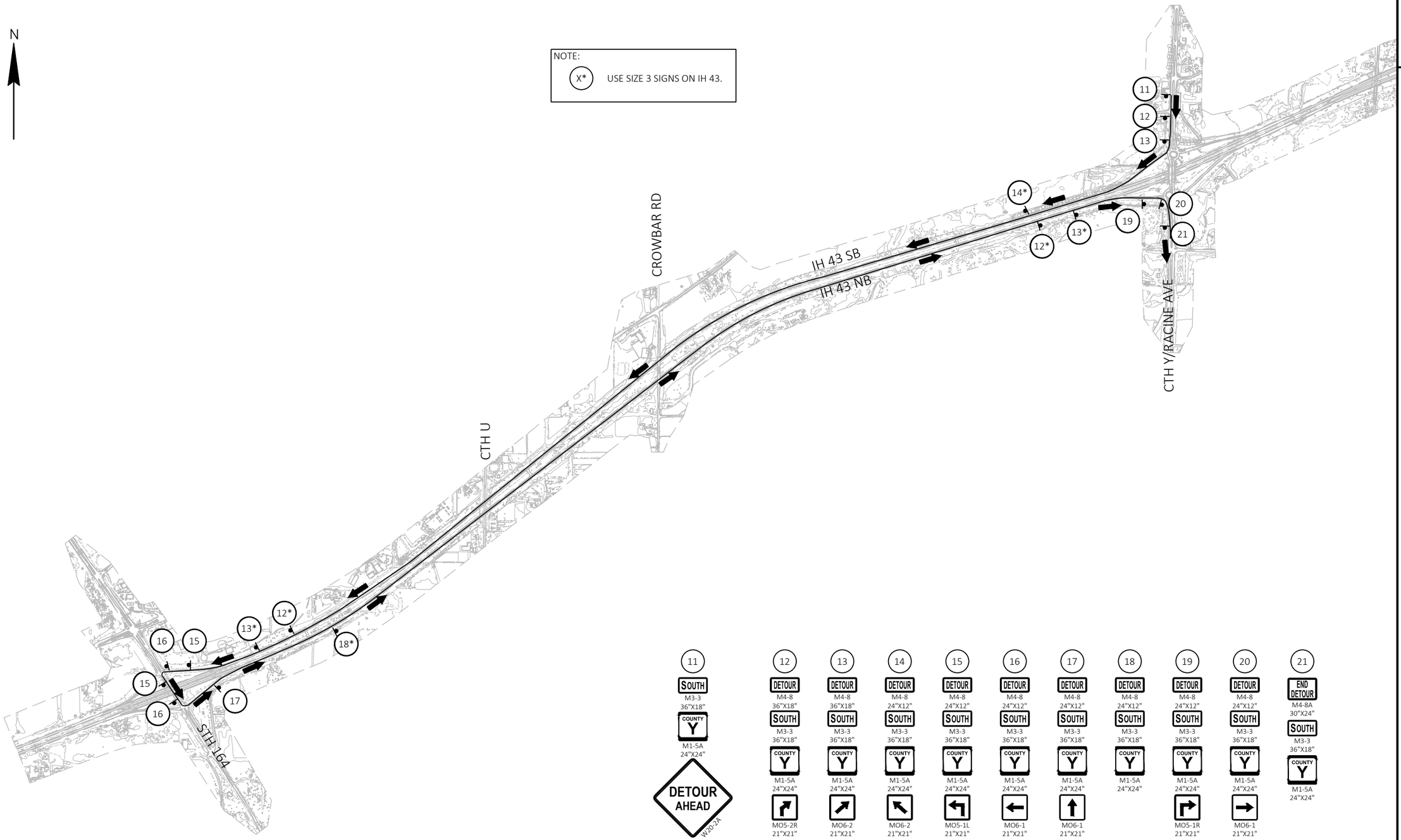
2

2

N

NOTE:

X* USE SIZE 3 SIGNS ON IH 43.



11
SOUTH
M3-3
36"X18"
COUNTY Y
M1-5A
24"X24"
DETOUR AHEAD
W20-2A

12 13 14 15 16 17 18 19 20
DETOUR
M4-8
36"X18" 24"X12"
SOUTH
M3-3
36"X18"
COUNTY Y
M1-5A
24"X24"
MO5-2R 21"X21" (12)
MO6-2 21"X21" (13, 14)
MO5-1L 21"X21" (15)
MO6-1 21"X21" (16, 17, 20)
MO5-1R 21"X21" (19)

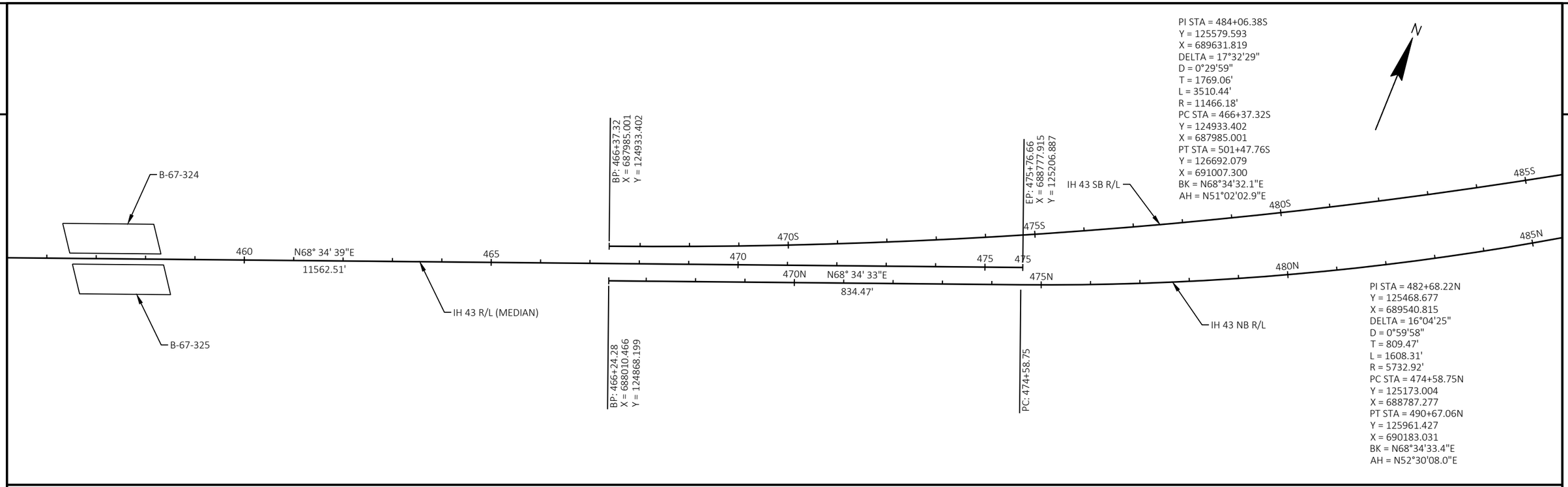
21
END DETOUR
M4-8A
30"X24"
SOUTH
M3-3
36"X18"
COUNTY Y
M1-5A
24"X24"

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	DETOUR PLAN - CTH Y	SHEET 23	E

FILE NAME : N:\PDS\C3D\10903500\70\027002_DT.DWG
LAYOUT NAME - 027002_dt

PLOT DATE : 1/26/2020 2:47 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1:1500

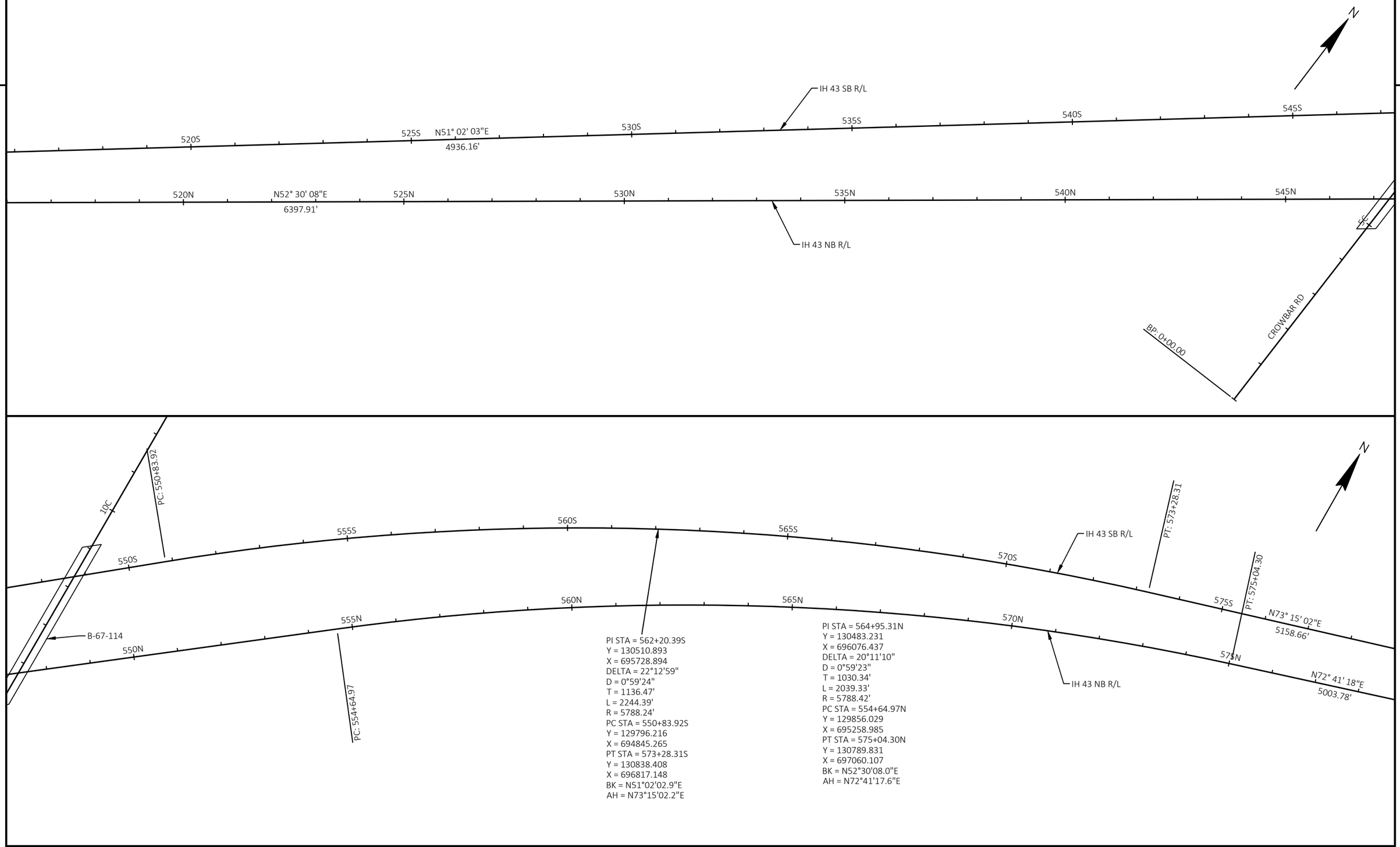
WISDOT/CADDS SHEET 42



2

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 24	E

2



PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 25	E

FILE NAME : N:\PDS\C3D\10903500\70\027201_AD.DWG
LAYOUT NAME - 027202_ad
PLOT DATE : 1/26/2020 2:47 PM
PLOT BY : SPAETH, MICHELE L
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

2

2

N

IH 43 SB R/L

580S 585S 590S 595S N73° 15' 02"E 600S 605S

5158.66'

E 580N 585N 590N 595N N72° 41' 18"E 600N 605N

5003.78'

IH 43 NB R/L

PI STA = 633+13.53S
Y = 132563.268
X = 702548.447
DELTA = 8°01'13"
D = 0°29'09"
T = 826.57'
L = 1650.44'
R = 11790.63'
PC STA = 624+86.96S
Y = 132325.062
X = 701756.944
PT STA = 641+37.40S
Y = 132909.577
X = 703298.972
BK = N73°15'02.2"E
AH = N65°13'49.4"E

N

CTH Y/RACINE AVE

PT: 640+42.25

PC: 624+86.96

PC: 625+08.08

IH 43 SB R/L

610S 615S N73° 15' 02"E 620S 625S 630S 635S 640S

5158.66'

610N 615N N72° 41' 18"E 620N 625N 630N 635N 640N

5003.78'

IH 43 NB R/L

PI STA = 632+76.25N
Y = 132507.395
X = 702570.584
DELTA = 7°27'29"
D = 0°29'10"
T = 768.17'
L = 1534.17'
R = 11786.26'
PC STA = 625+08.08N
Y = 132278.810
X = 701837.212
PT STA = 640+42.25N
Y = 132829.237
X = 703268.081
BK = N72°41'17.6"E
AH = N65°13'49.0"E

100'

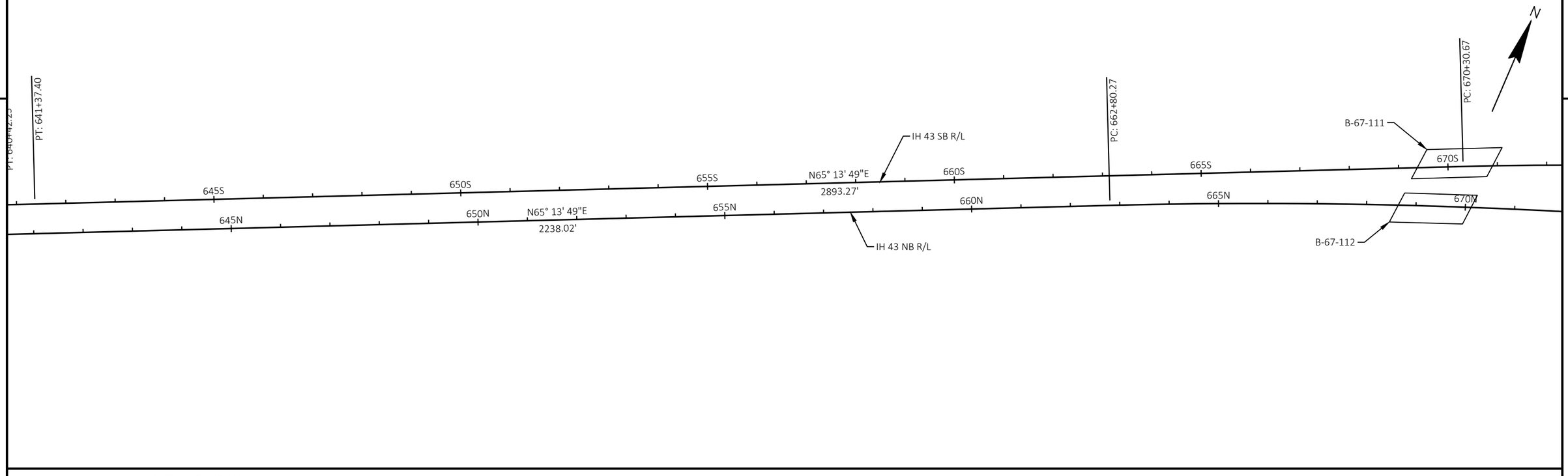
B-67-113

95y

PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 26	E

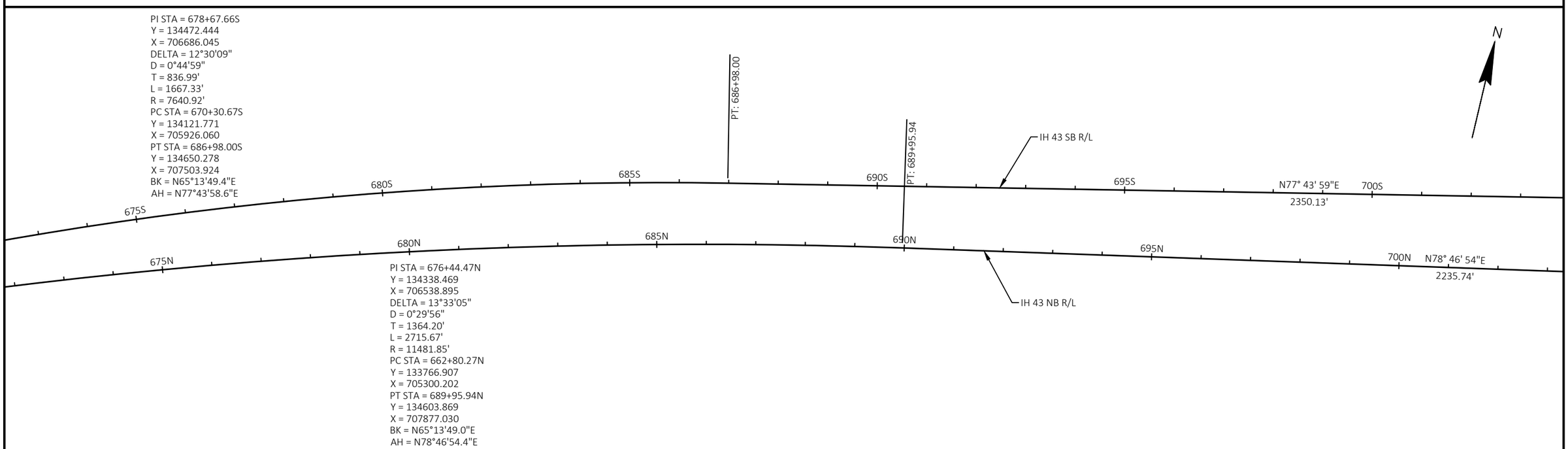
FILE NAME : N:\PDS\C3D\10903500\70\027201_AD.DWG
LAYOUT NAME - 027203_ad

PLOT DATE : 1/26/2020 2:47 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:200 FT



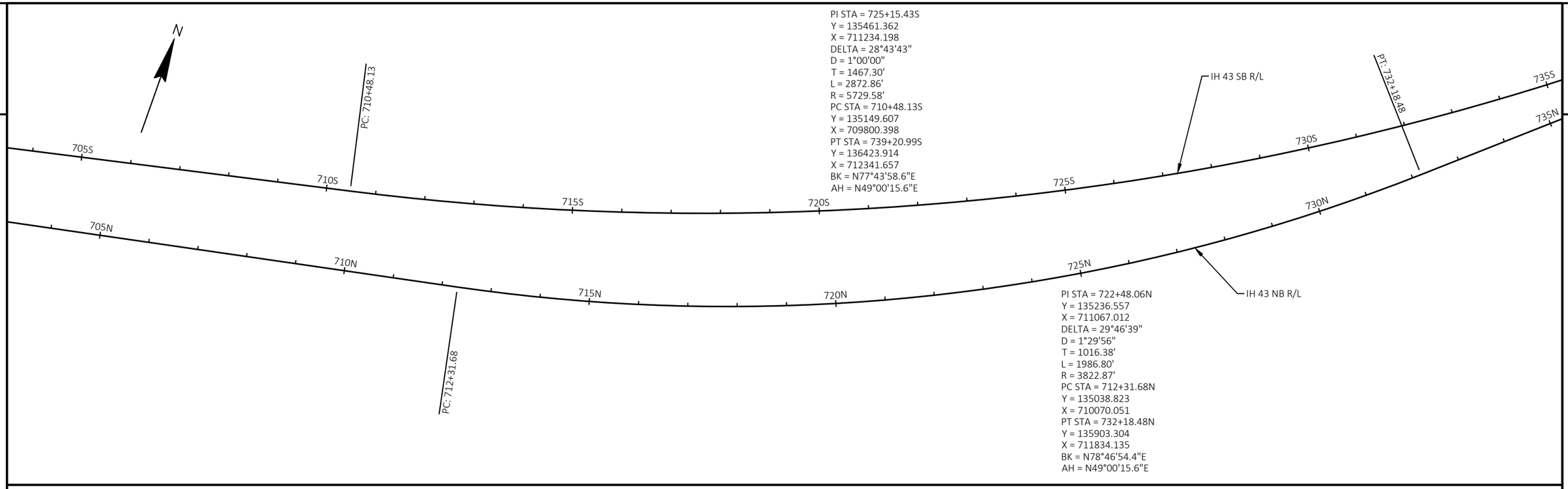
PI STA = 678+67.66S
Y = 134472.444
X = 706686.045
DELTA = 12°30'09"
D = 0°44'59"
T = 836.99'
L = 1667.33'
R = 7640.92'
PC STA = 670+30.67S
Y = 134121.771
X = 705926.060
PT STA = 686+98.00S
Y = 134650.278
X = 707503.924
BK = N65°13'49.4"E
AH = N77°43'58.6"E

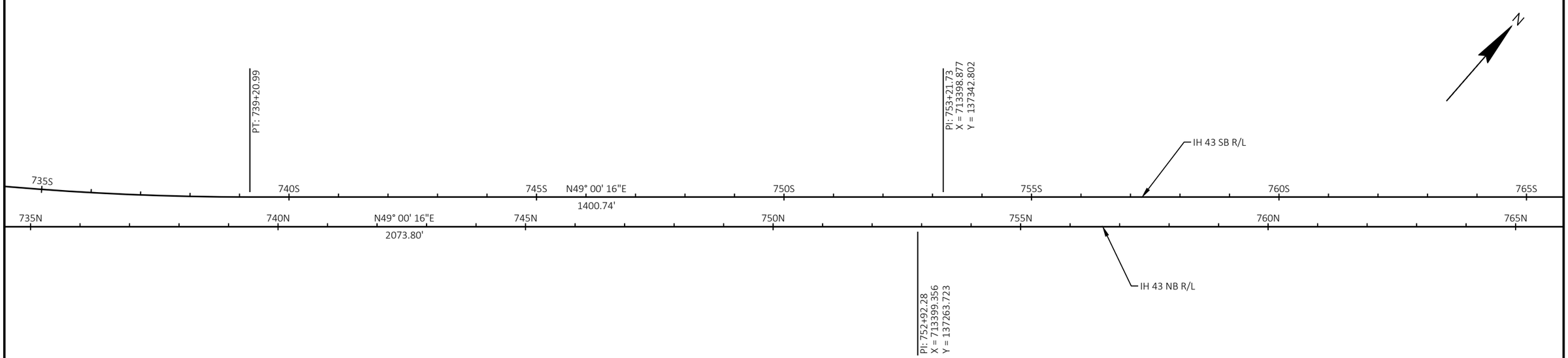
PI STA = 676+44.47N
Y = 134338.469
X = 706538.895
DELTA = 13°33'05"
D = 0°29'56"
T = 1364.20'
L = 2715.67'
R = 11481.85'
PC STA = 662+80.27N
Y = 133766.907
X = 705300.202
PT STA = 689+95.94N
Y = 134603.869
X = 707877.030
BK = N65°13'49.0"E
AH = N78°46'54.4"E



PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 27	E

FILE NAME : N:\PDS\C3D\10903500\70\027201_AD.DWG
LAYOUT NAME - 027204_ad
PLOT DATE : 1/26/2020 2:47 PM
PLOT BY : SPAETH, MICHELE L
PLOT NAME :
PLOT SCALE : 1 IN:200 FT



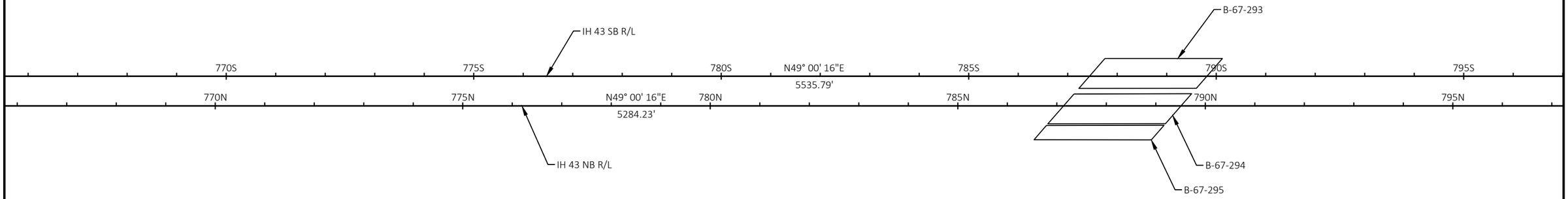


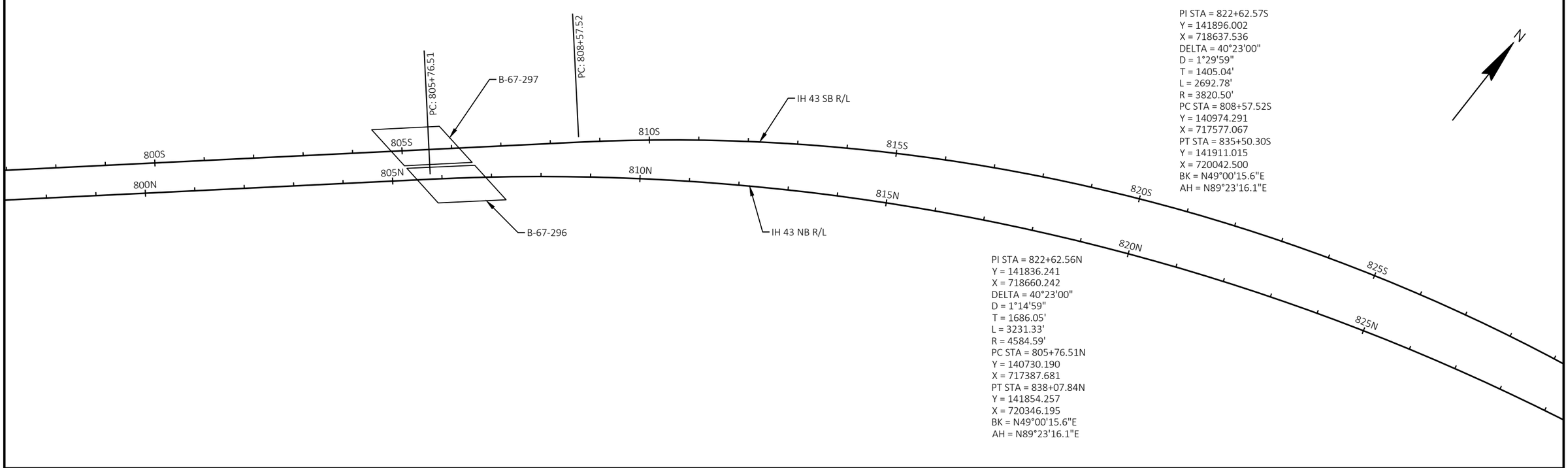
PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 28	E

FILE NAME : N:\PDS\C3D\10903500\70\027201_AD.DWG
LAYOUT NAME - 027205_ad

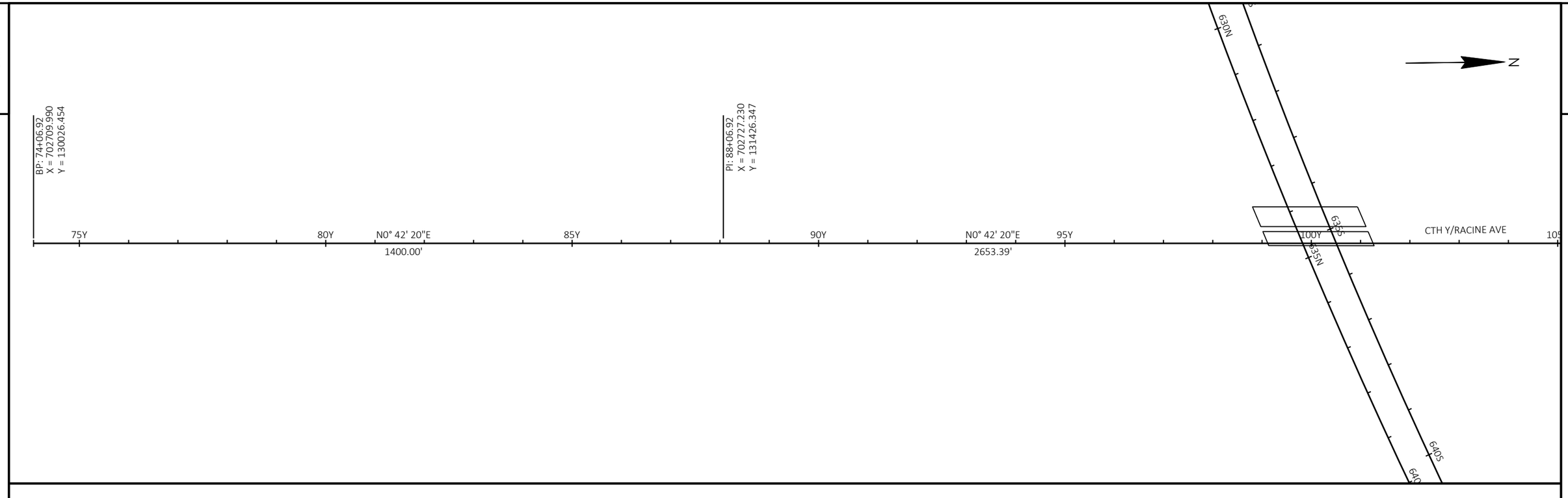
PLOT DATE : 1/26/2020 2:47 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:200 FT

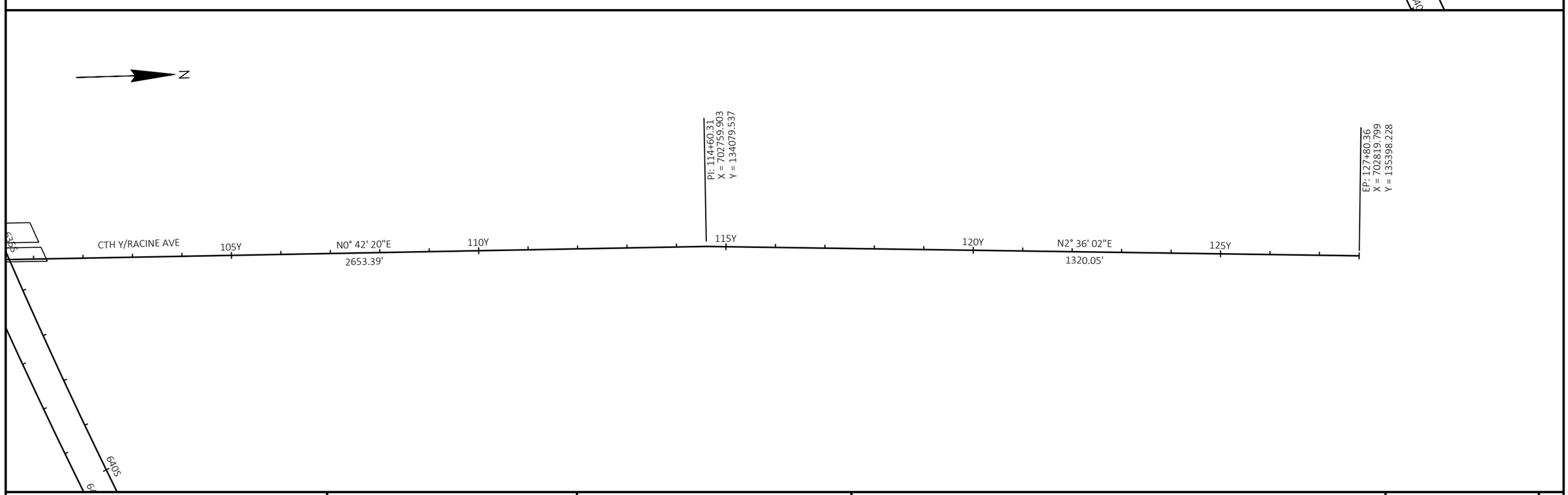
2





PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 29	E



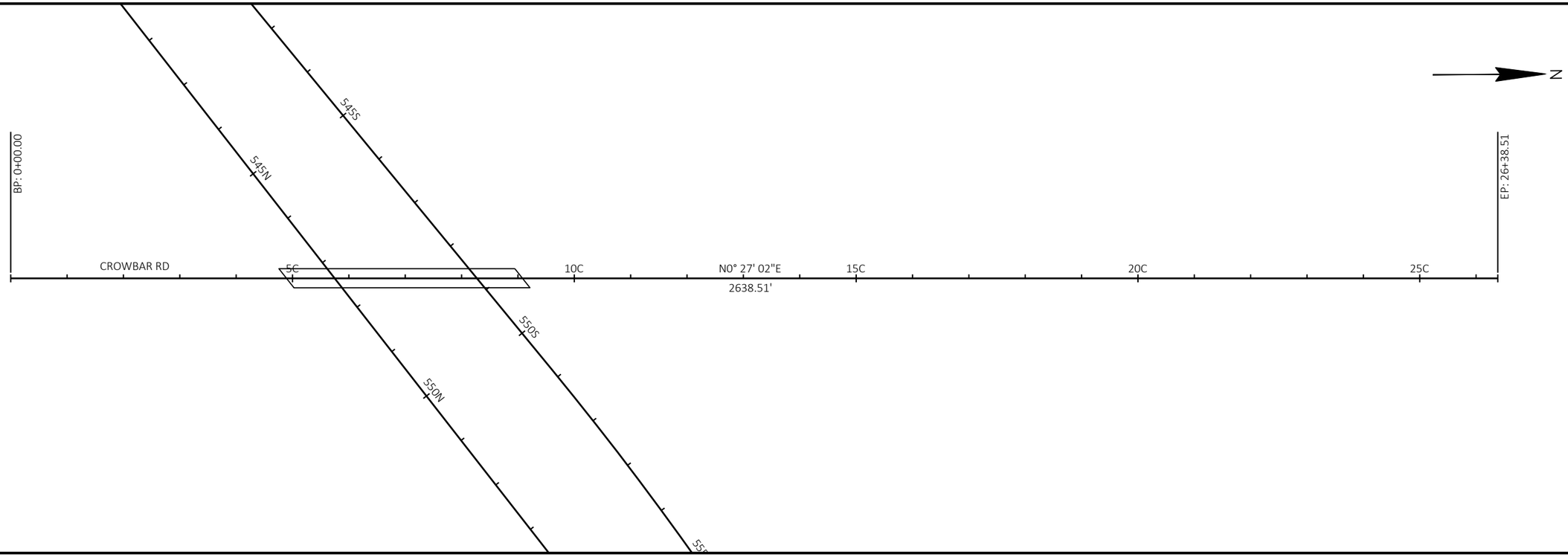


PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 30	E

FILE NAME : N:\PDS\C3D\10903500\70\027207_AD.DWG
LAYOUT NAME - 027207_ad

PLOT DATE : 1/26/2020 2:48 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



PROJECT NO: 1090-35-70	HWY: IH 43	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 31	E

FILE NAME : N:\PDS\C3D\10903500\70\027207_AD.DWG
LAYOUT NAME - 027208_ad

PLOT DATE : 1/26/2020 2:48 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:200 FT

1090-35-70

Line	Item	Item Description	Unit	Total	Qty
0014	213.0100	Finishing Roadway (project) 0003. 1090-35-70	EACH	1.000	1.000
0020	509.0301	Preparation Decks Type 1	SY	101.000	101.000
0022	509.0302	Preparation Decks Type 2	SY	40.000	40.000
0024	509.0310.S	Sawing Pavement Deck Preparation Areas	LF	249.000	249.000
0026	509.1500	Concrete Surface Repair	SF	180.000	180.000
0028	509.5100.S	Polymer Overlay	SY	7,752.000	7,752.000
0038	619.1000	Mobilization	EACH	0.400	0.400
0040	628.7010	Inlet Protection Type B	EACH	31.000	31.000
0042	642.5401	Field Office Type D	EACH	0.500	0.500
0044	643.0300	Traffic Control Drums	DAY	2,703.000	2,703.000
0046	643.0420	Traffic Control Barricades Type III	DAY	183.000	183.000
0048	643.0705	Traffic Control Warning Lights Type A	DAY	365.000	365.000
0050	643.0715	Traffic Control Warning Lights Type C	DAY	673.000	673.000
0052	643.0800	Traffic Control Arrow Boards	DAY	55.000	55.000
0054	643.0900	Traffic Control Signs	DAY	1,081.000	1,081.000
0058	643.1050	Traffic Control Signs PCMS	DAY	54.000	54.000
0060	643.4100.S	Traffic Control Interim Lane Closure	EACH	24.000	24.000
0062	643.5000	Traffic Control	EACH	0.500	0.500
0066	646.1020	Marking Line Epoxy 4-Inch	LF	5,005.000	5,005.000
0068	646.7120	Marking Diagonal Epoxy 12-Inch	LF	561.000	561.000
0070	646.9000	Marking Removal Line 4-Inch	LF	3,322.000	3,322.000
0072	646.9200	Marking Removal Line Wide	LF	482.000	482.000
0074	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	5,005.000	5,005.000
0076	649.0155	Temporary Marking Line Removable Contrast Tape 4-Inch	LF	500.000	500.000
0084	SPV.0035	Special 4000. Rapid Set Deck Repair	CY	10.000	10.000
0086	SPV.0060	Special 0001. Traffic Control Close-Open Freeway Entrance Ramp	EACH	4.000	4.000
0088	SPV.0060	Special 4010. Embedded Galvanic Anodes	EACH	70.000	70.000
0090	SPV.0090	Special 0001. Marking Contrast Epoxy 4-Inch	LF	500.000	500.000
0092	SPV.0090	Special 4000. Crack Sealing Epoxy Sidewalk	LF	50.000	50.000
0096	SPV.0180	Special 4000. Concrete Bridge Deck Methacrylate Flood Seal	SY	6,193.000	6,193.000

FINISHING ROADWAY PROJECT ID 1090-35-70

CATEGORY	STAGE	LOCATION	213.0100 FINISHING ROADWAY (1090-35-70) EACH
1000	ALL	PROJECT	1
	TOTAL:		1

EROSION CONTROL

CATEGORY	ROADWAY	STATION	TO STATION	OFFSET	628.7010 INLET PROTECTION TYPE B EACH
1000	B-67-324	456+58	458+43	LT/RT	4
	B-67-325	456+40	458+25	LT/RT	4
	B-67-114	4C+89	9C+08	LT/RT	6
	B-67-113	99Y+12	101Y+25	LT/RT	7
	B-67-111	669S+38	670S+90		--
	B-67-112	668N+64	670N+12		--
	B-67-293	787S+44	789S+81	RT	1
	B-67-294	787N+14	789N+51	RT	1
	B-67-295	786N+73	789N+10	RT	1
	B-67-296	805N+50	806N+88	RT	3
	B-67-297	804S+78	806S+15	LT/RT	4
TOTAL:					31

MOBILIZATION

CATEGORY	STAGE	LOCATION	619.1000 MOBILIZATION EACH
1000	ALL	1090-35-70	0.4
		TOTAL:	0.4

TRAFFIC CONTROL (PROJECT ID 1090-35-70)

CATEGORY	STAGE	LOCATION	643.5000 TRAFFIC CONTROL EACH
1000	ALL	1090-35-70	0.5
		TOTAL:	0.5

FIELD FACILITIES

CATEGORY	STAGE	LOCATION	642.5401 FIELD OFFICE TYPE D EACH
1000	ALL	1090-35-70	0.5
	TOTAL:		0.5

TRAFFIC CONTROL ITEMS (DETOUR)

CATEGORY	STAGE	LOCATION	STAGE DURATION DAYS	* 643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	PCMS DAYS	* 643.0900 TRAFFIC CONTROL SIGNS EACH	SIGNS DAYS
1000	4	NB CTH Y	2	1	2	78	156
	4	SB CTH Y	2	1	2	65	130
		TOTALS:			4		286

* ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN.

PAVEMENT MARKING ITEMS

CATEGORY	LOCATION	STATION	TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	SPV.0090.0001 MARKING CONTRAST EPOXY 4-INCH (12.5 FT LINE, 37.5 FT SKIP) WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	649.0155 TEMPORARY MARKING LINE REMOVABLE CONTRAST TAPE 4-INCH (12.5 FT LINE, 37.5 FT SKIP) WHITE LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF
1000	B-67-324	456+58		458+43	185	185	38	136	185	185	38	408	136
	B-67-325	456+40		458+25	185	185	50	136	185	185	50	420	136
	B-67-114	4C+89		9C+08	--	838	--	--	--	838	--	838	--
	B-67-113	99Y+12		101Y+25	427	427	125	--	427	427	125	979	--
	B-67-111	669S+38		670S+90	152	153	38	90	152	153	38	343	90
	B-67-112	668N+64		670N+12	148	148	38	120	148	148	38	334	120
	B-67-293	787S+44		789S+81	237	237	63	--	237	237	63	--	--
	B-67-294	787N+14		789N+51	237	237	75	--	237	237	75	--	--
	B-67-295	786N+73		789N+10	237	237	--	--	237	237	--	--	--
	B-67-296	805N+50		806N+88	138	138	38	35	138	138	38	--	--
	B-67-297	804S+78		806S+15	137	137	38	44	137	137	38	--	--
	TOTALS:				2,083	2,922	500	561	2,083	2,922	500	3,322	482
					5,005				5,005				

TRAFFIC CONTROL ITEMS

CATEGORY	STAGE	LOCATION	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	* 643.0900 TRAFFIC CONTROL SIGNS EACH	* 643.0900 TRAFFIC CONTROL SIGNS DAYS	* 643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	* 643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS
1000	1	NB	6	49	294	22	132	2	12	4	24	2	12	14	84	1	5
	1	SB	6	49	294	22	132	2	12	4	24	2	12	14	84	1	5
	1	NB RAMP	2	25	50	7	14	7	14	14	28	--	--	13	26	1	5
	1	MARTIN RD	2	49	98	--	--	--	--	--	--	--	--	10	20	--	--
	2	NB	4	49	196	22	88	2	8	4	16	2	8	14	56	1	5
	2	SB	4	49	196	22	88	2	8	4	16	2	8	14	56	1	5
	2	MARTIN RD	2	49	98	--	--	--	--	--	--	--	--	10	20	--	--
	3	CROWBAR RD	2	26	52	--	--	--	--	--	--	--	--	15	30	2	10
	4	CTH Y	4	221	884	21	84	23	92	46	184	1	4	65	260	2	10
		UNDISTRIBUTED			541		135		37		73		11		159		5
		TOTALS:			2,703		673		183		365		55		795		50

* ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN.

TRAFFIC CONTROL

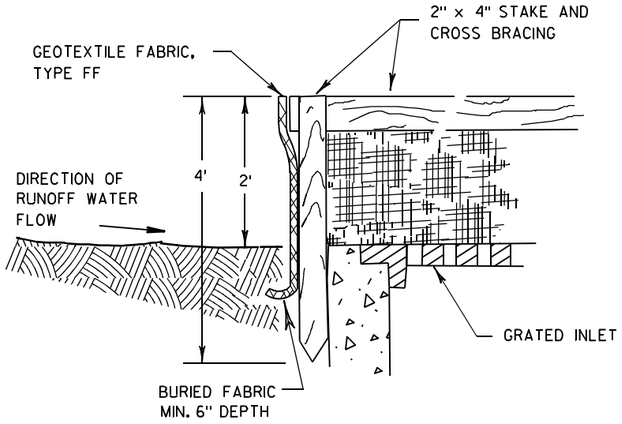
CATEGORY	ROADWAY	SPV.0060.0001 TRAFFIC CONTROL CLOSE-OPEN FREEWAY ENTRANCE RAMP EACH	643.4100.S TRAFFIC CONTROL INTERIM LANE CLOSURE EACH
1000	IH 43 NB	3	12
	IH 43 SB	--	8
	UNDISTRIBUTED	1	4
	TOTALS:	4	24

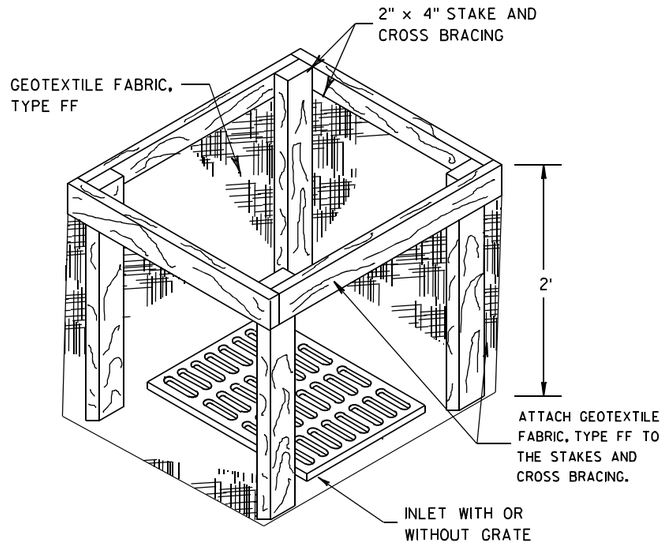
Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-08D	ON RAMP LANE CLOSURE
15C02-08E	OFF RAMP LANE CLOSURE
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D12-08A	TRAFFIC CONTROL, LANE CLOSURE
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

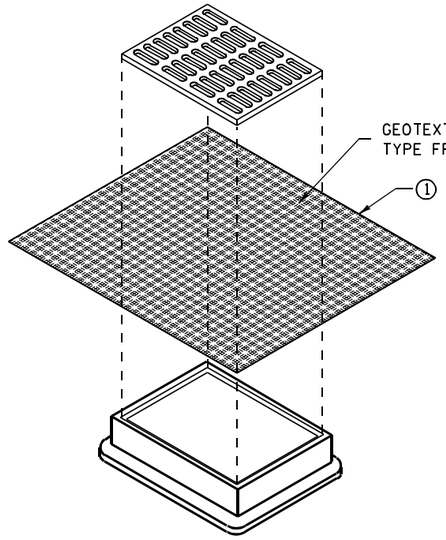
6

6



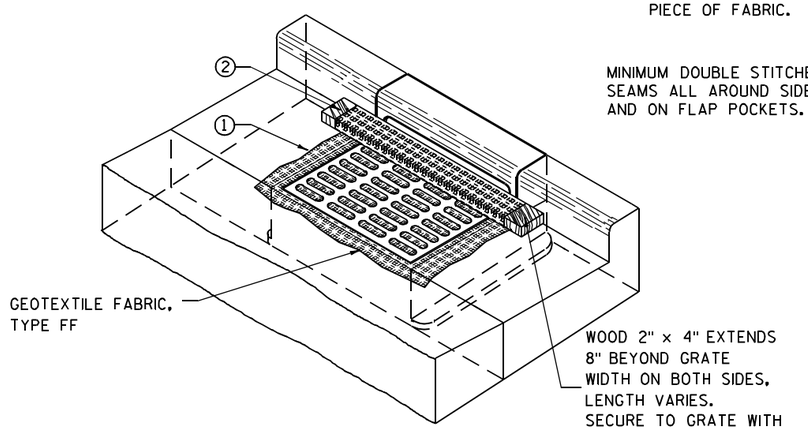


INLET PROTECTION, TYPE A

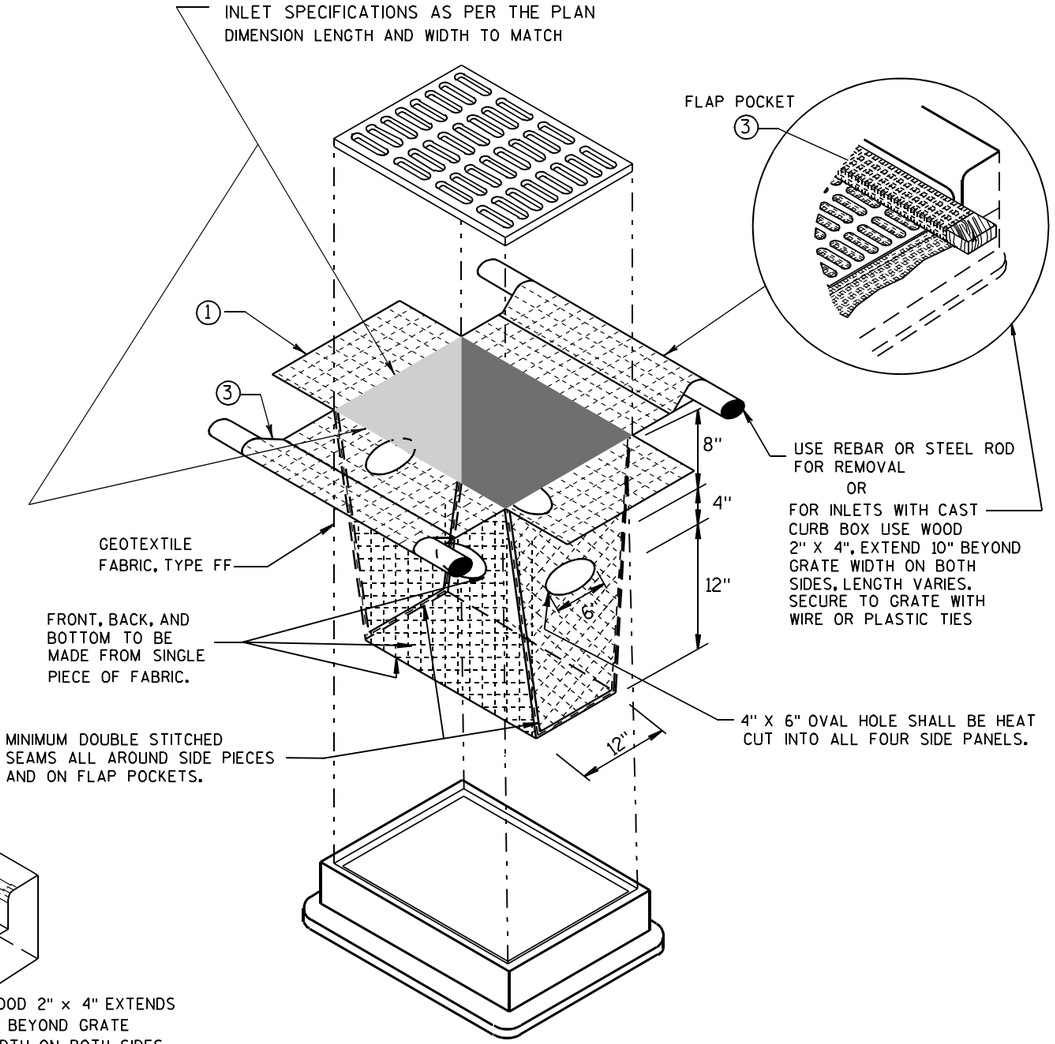


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

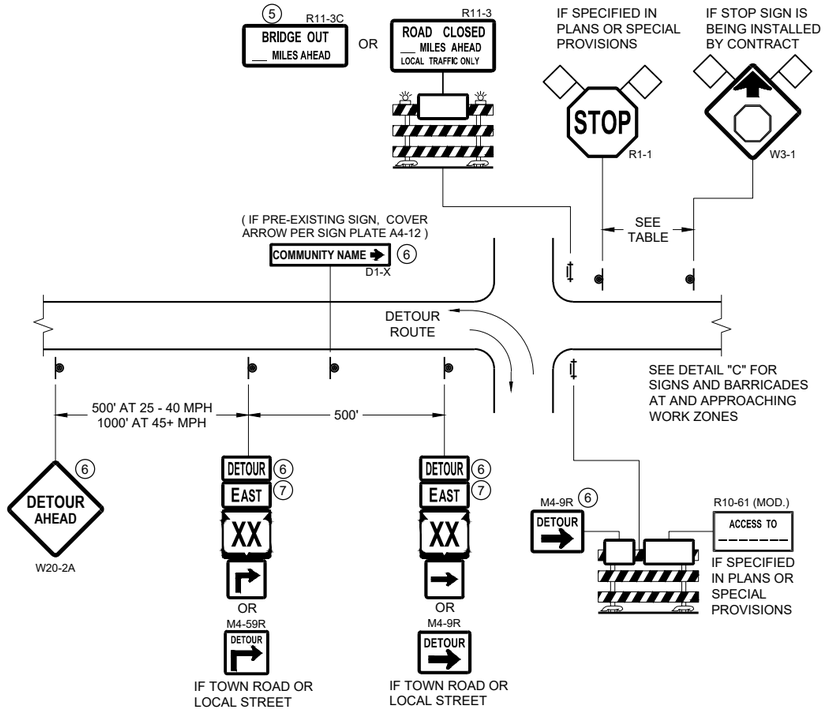
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

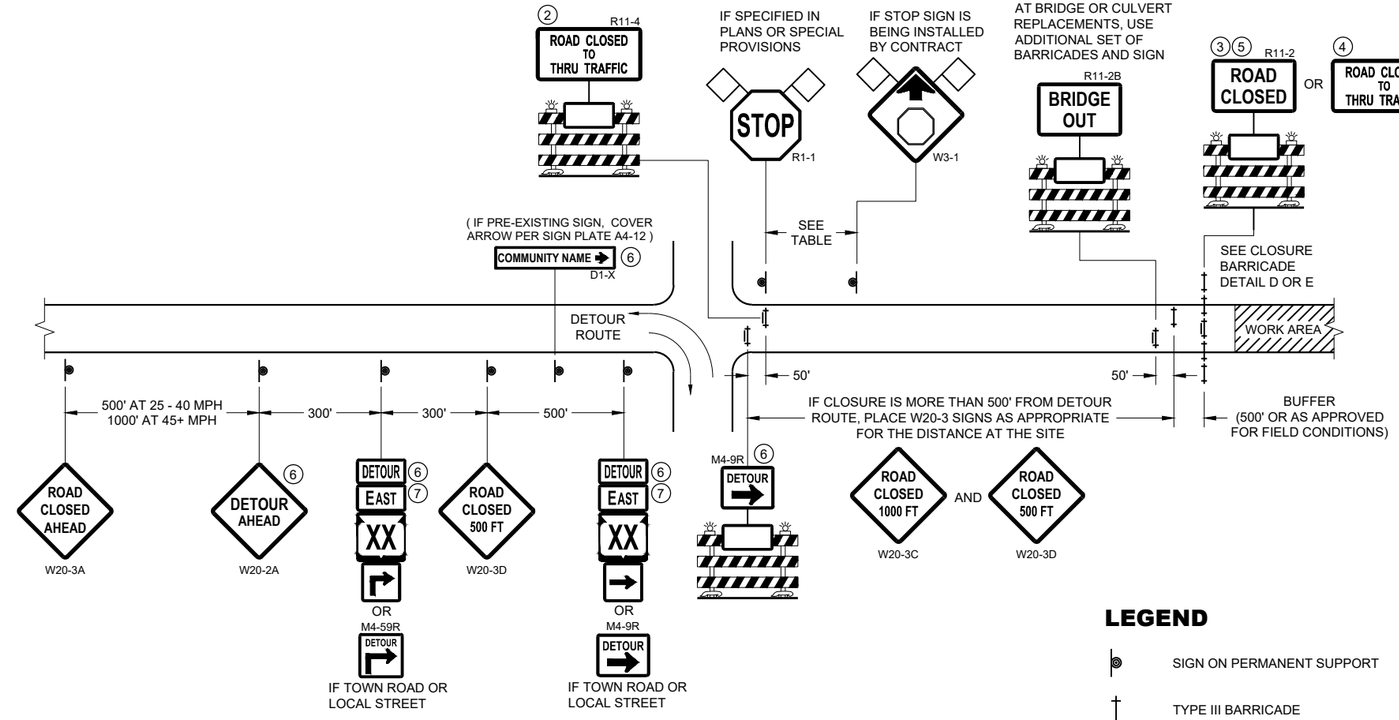
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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



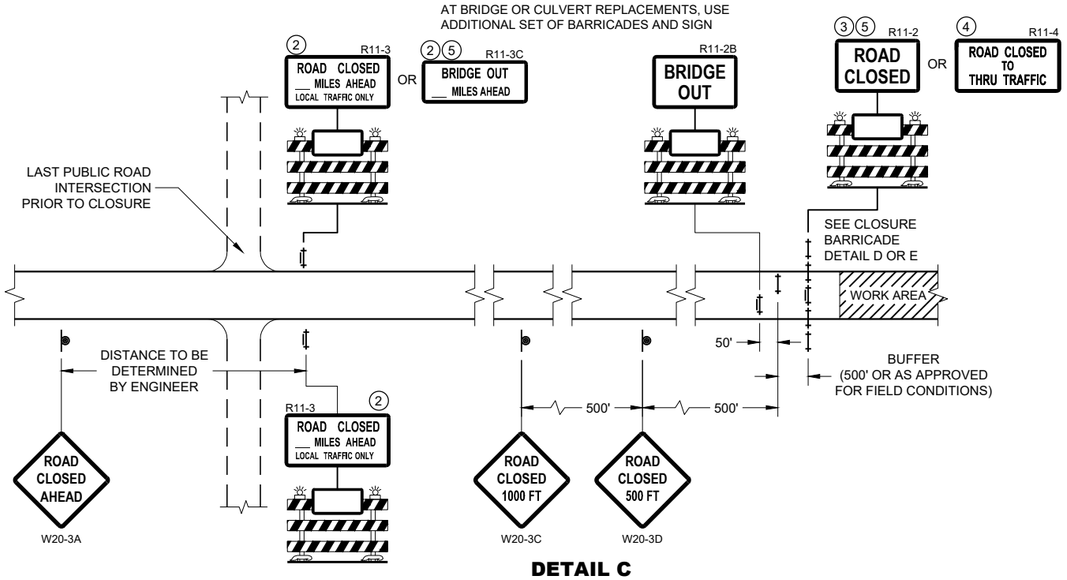
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

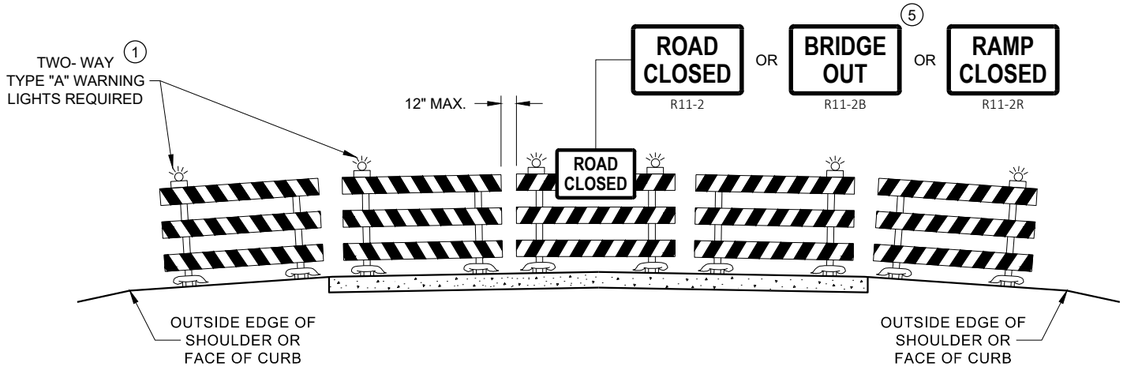
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

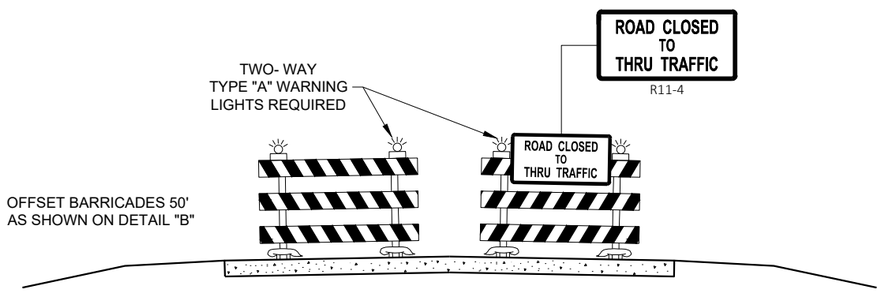
6

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

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4
- OR XX — M1 - 6
- OR COUNTY X — M1 - 5A
- M05 - 1
- OR M06 - 1
- OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

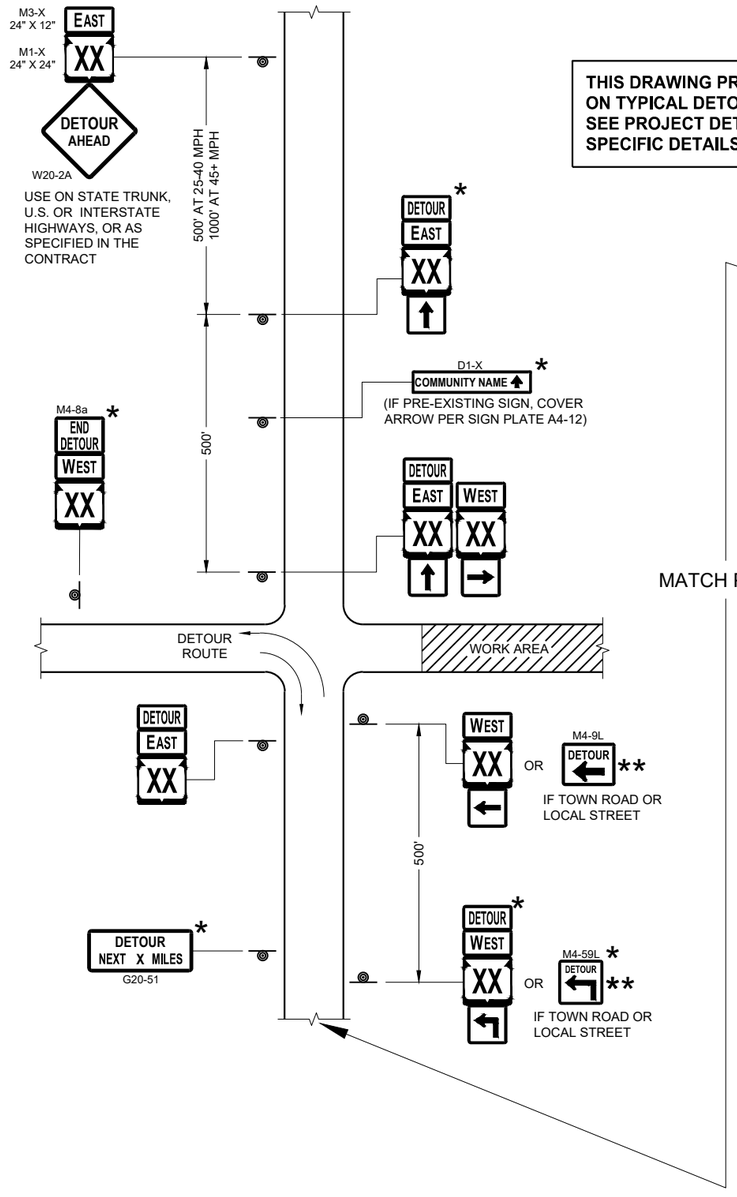
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

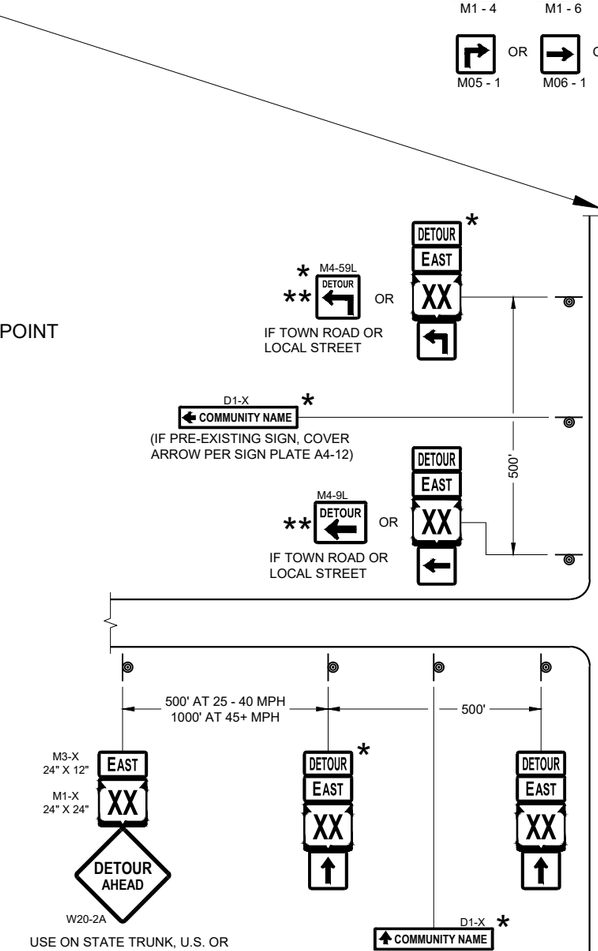
M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M4-9 AND M4-59 SHALL BE 30" X 24"
M4-8a SHALL BE 24" X 18"
G20-51 SHALL BE 60" X 24"
W20-2A SHALL BE 48" X 48"
D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

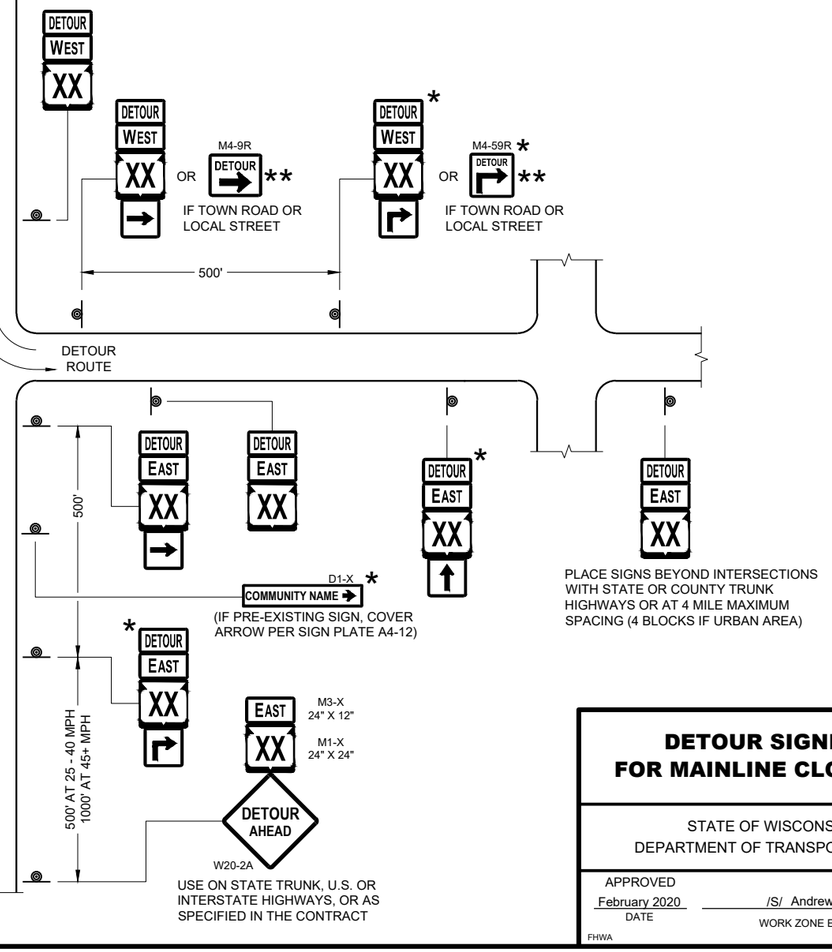
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



MATCH POINT





SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

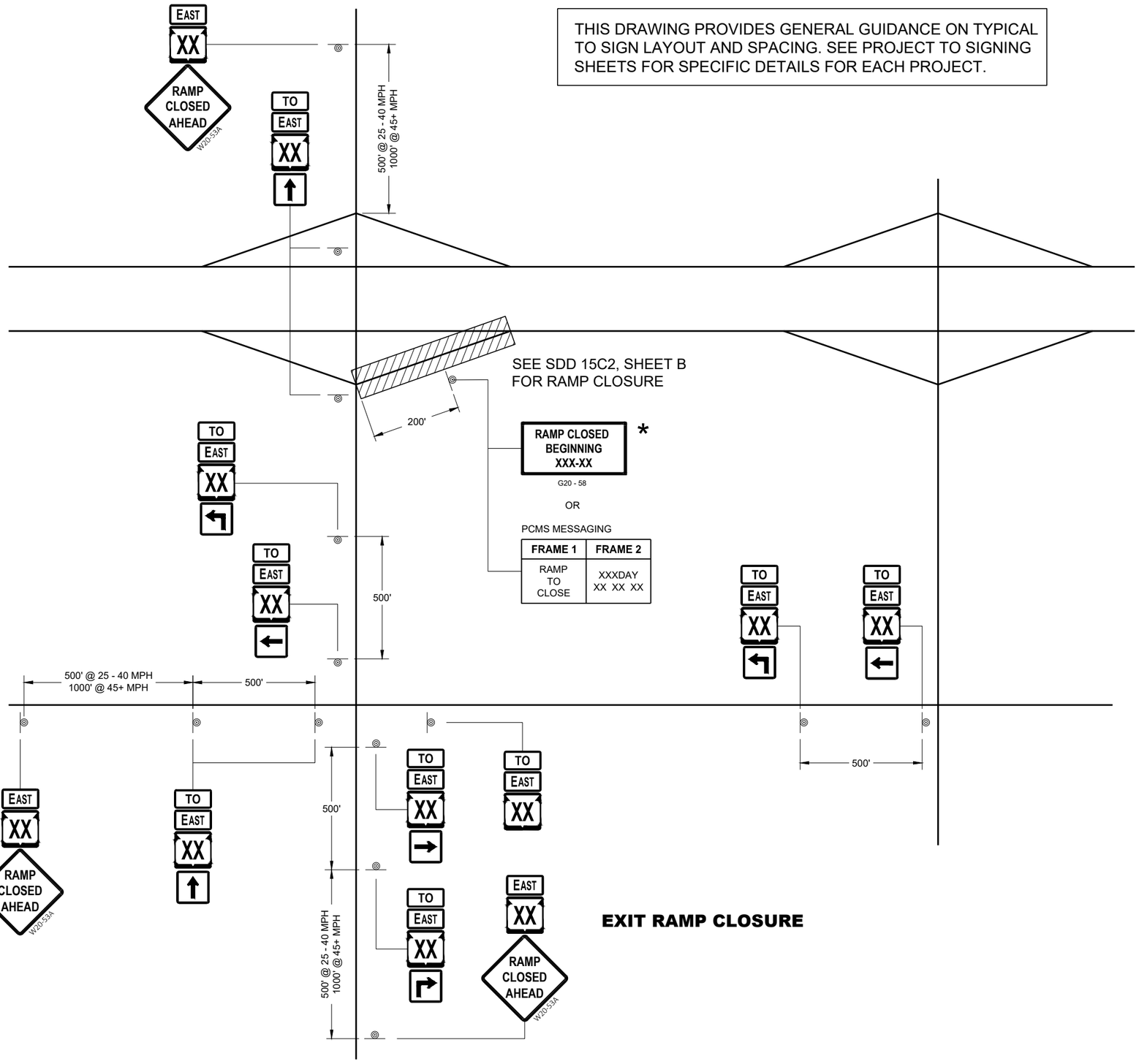
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 08c

6

SDD 15C02 - 08c



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.

EXIT RAMP CLOSURE

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

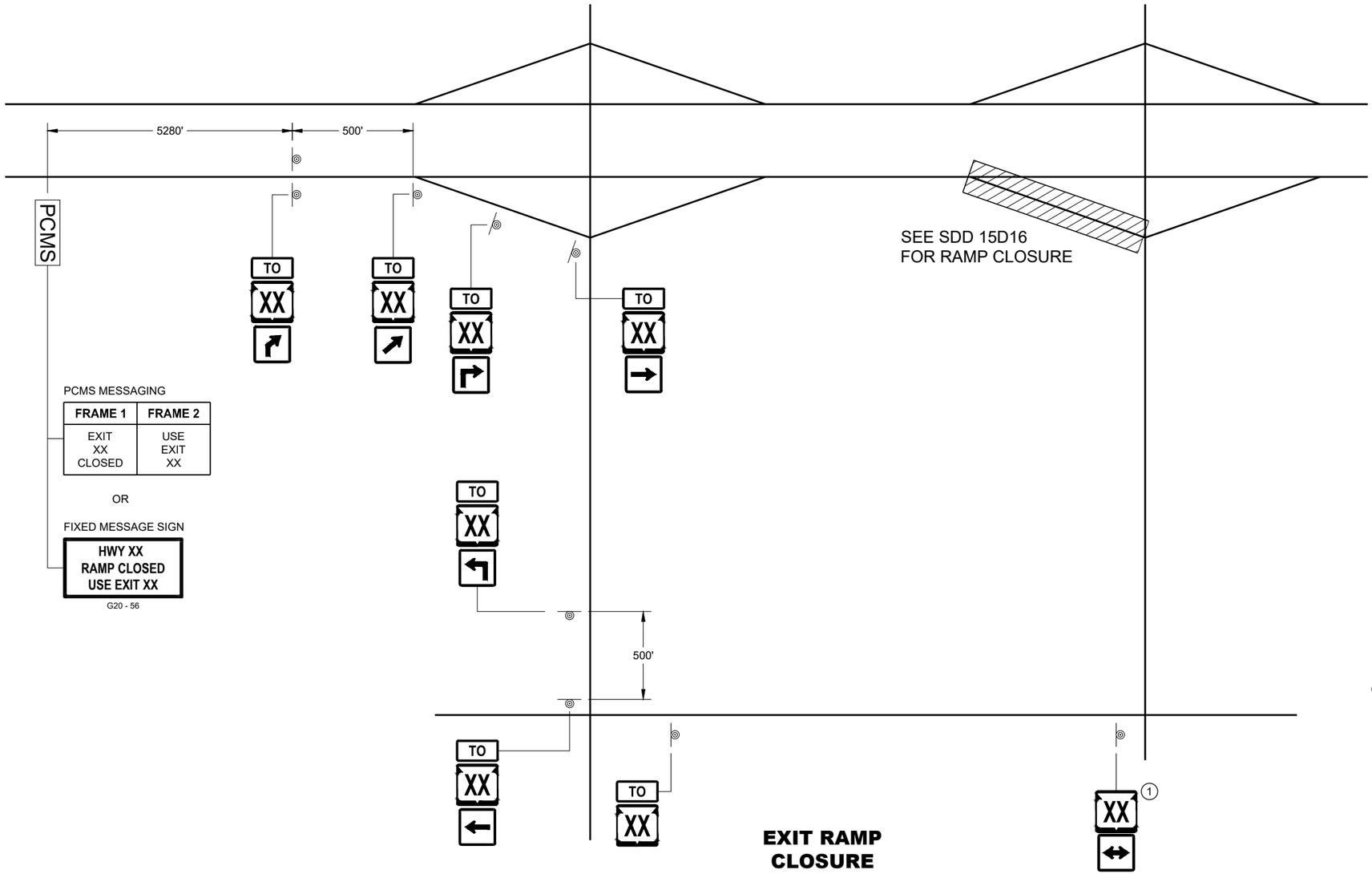
FHWA

6

SDD 15C02 - 08d

SDD 15C02 - 08d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

EXIT RAMP CLOSURE

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TO MO4 - 5

XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2 OR M06 - 4

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

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

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE "TO" MO-4 ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND "TO" MO-4 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

SIGN SIZES SHALL BE AS FOLLOW:
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 4, M1 - 5A, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

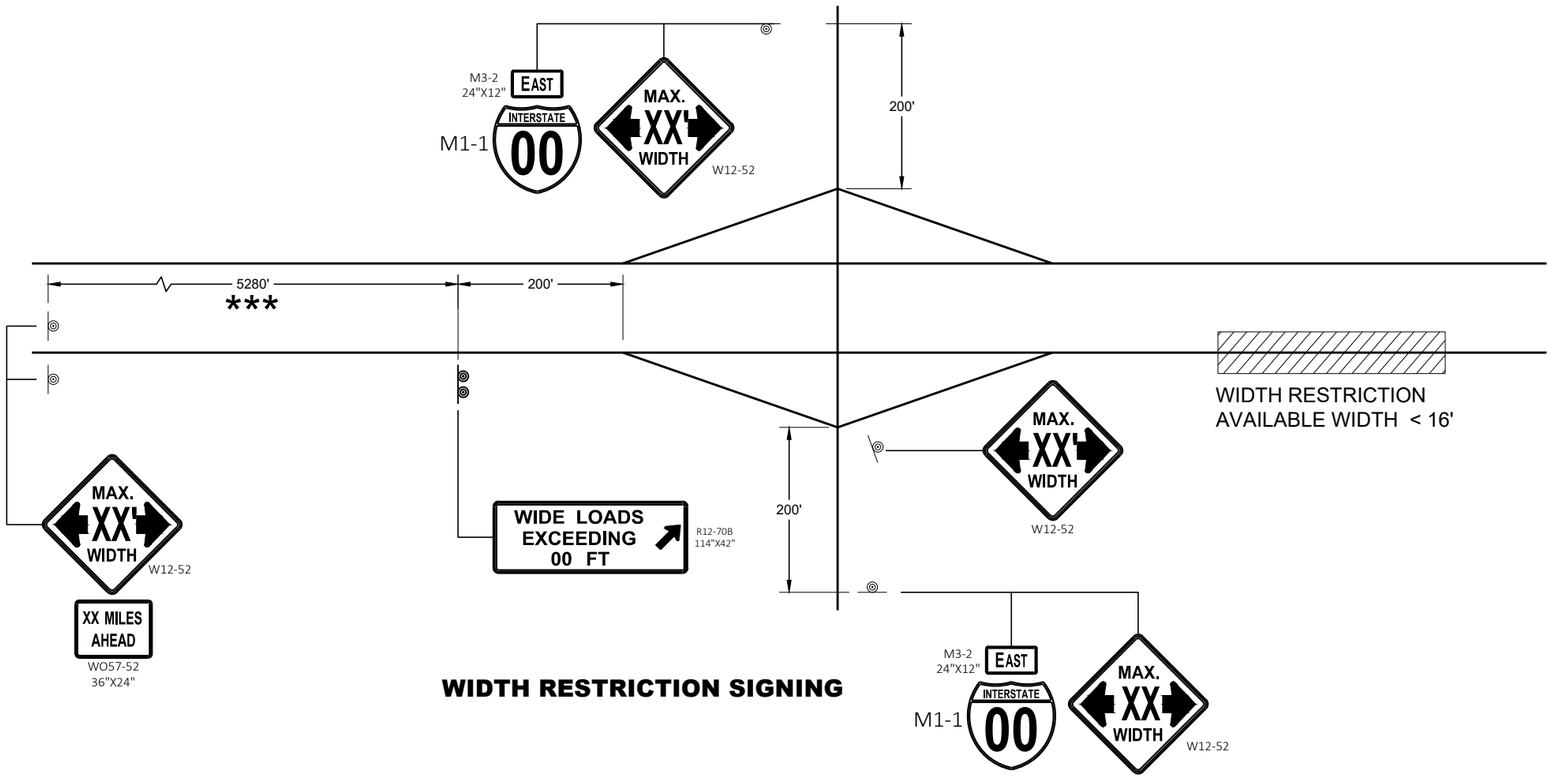
OFF RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 DATE
/S/ Andrew Heidtke WORK ZONE ENGINEE
FHWA

SDD 15C02 - 08e

SDD 15C02 - 08e



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.

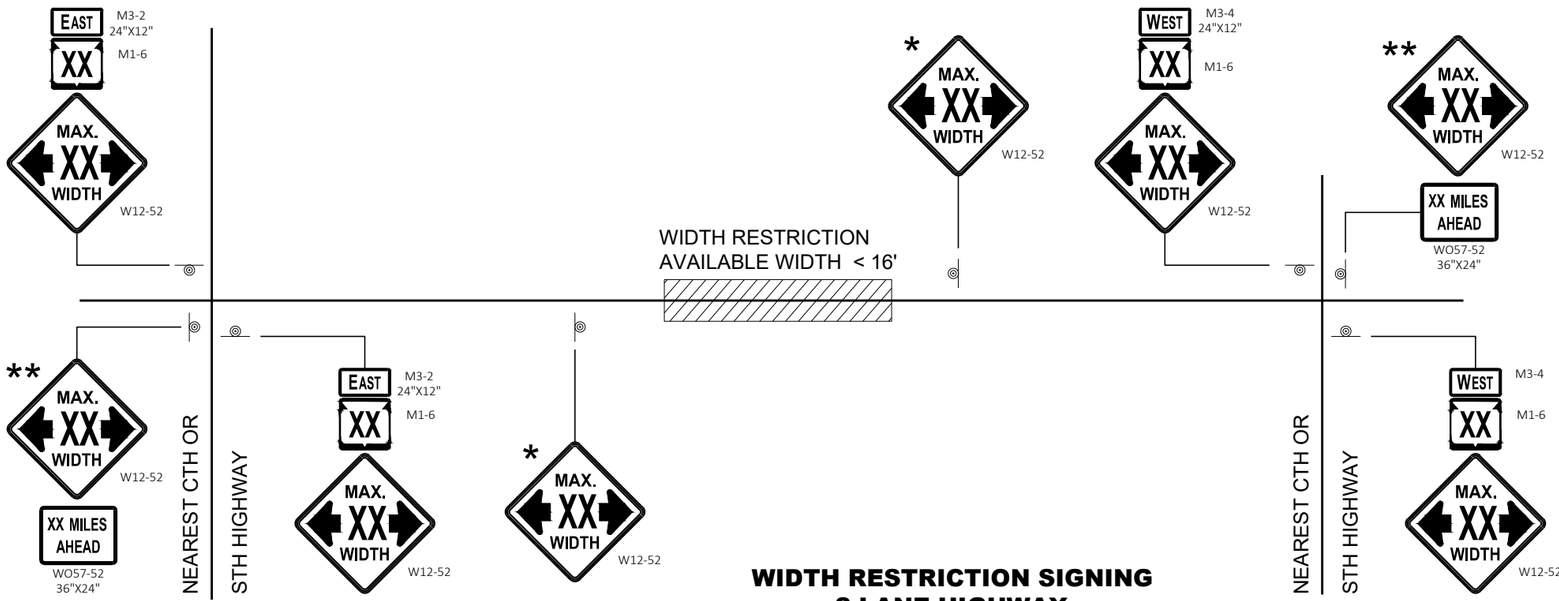
* PLACE 500 FEET BEFORE THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** 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

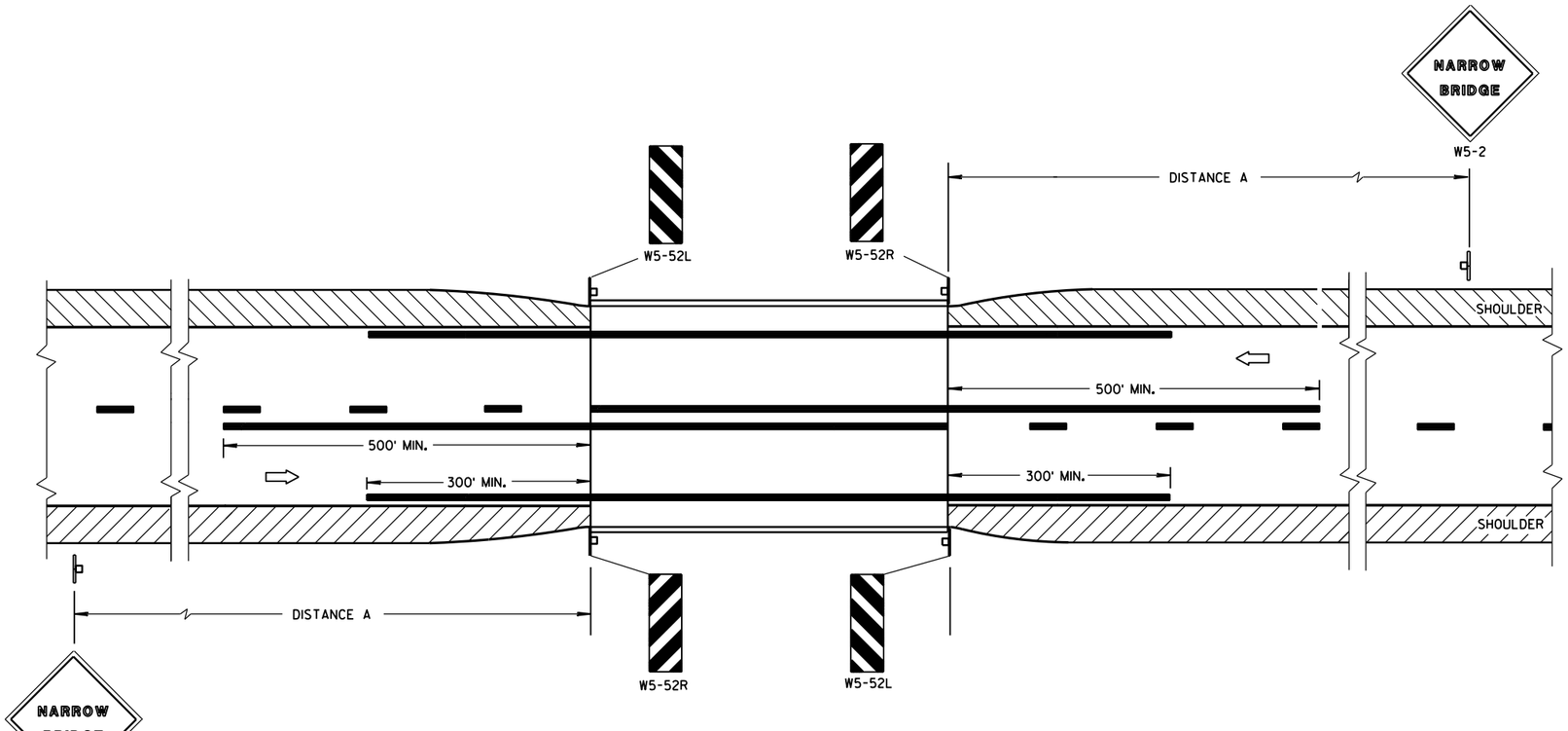
APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C02 - 08f



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

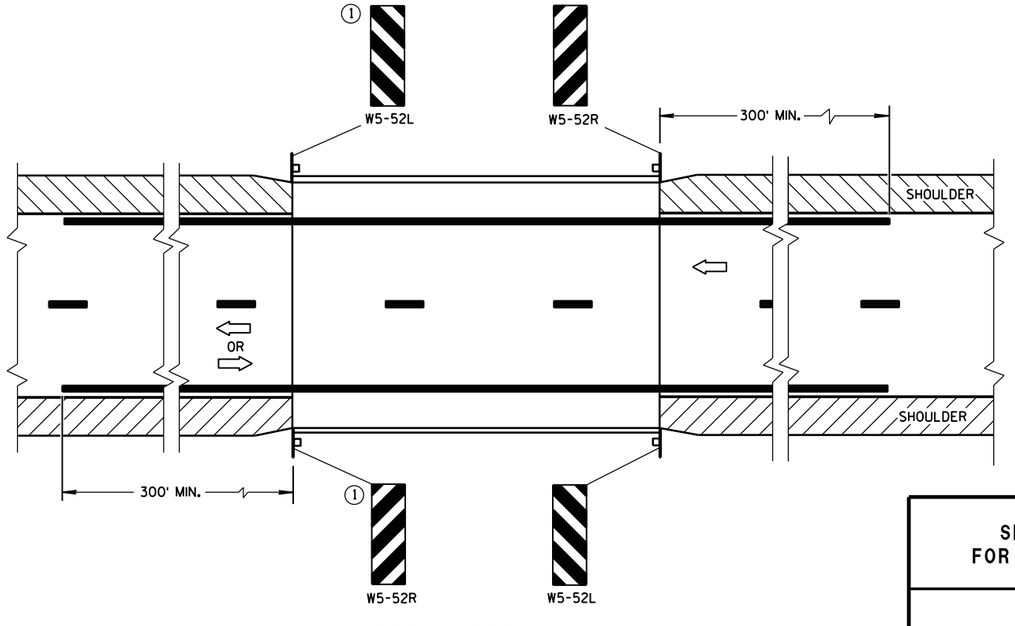
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

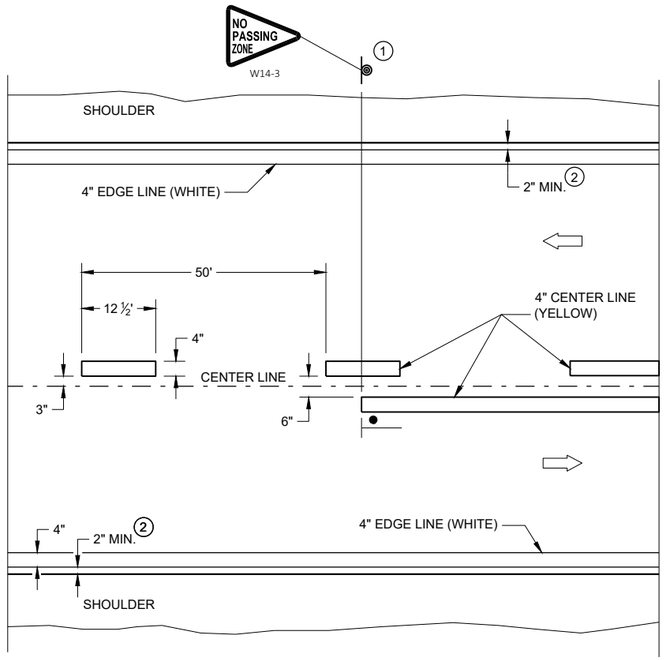
SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

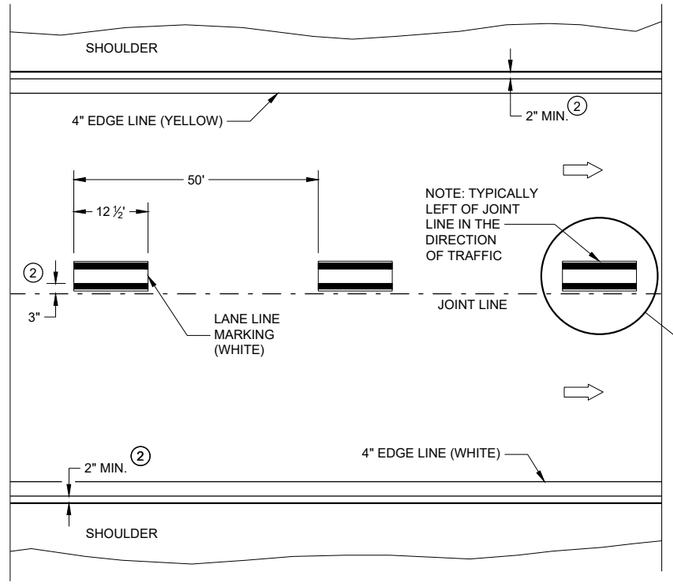
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

S.D.D. 15 C 6-9

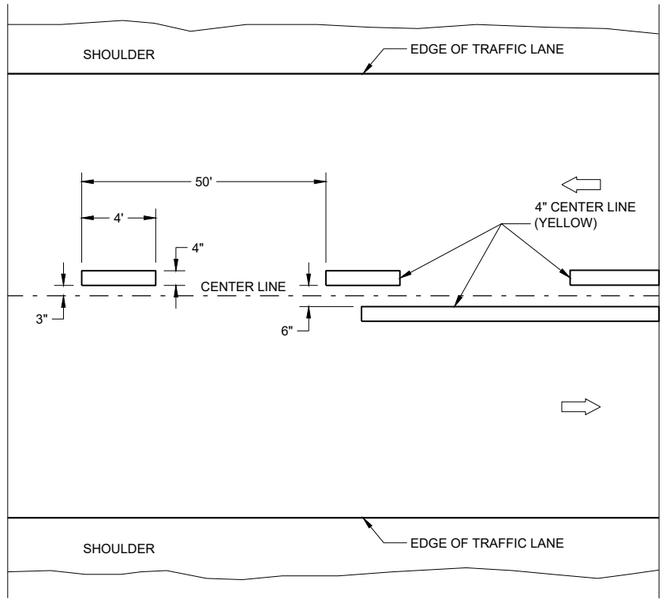


TWO WAY TRAFFIC

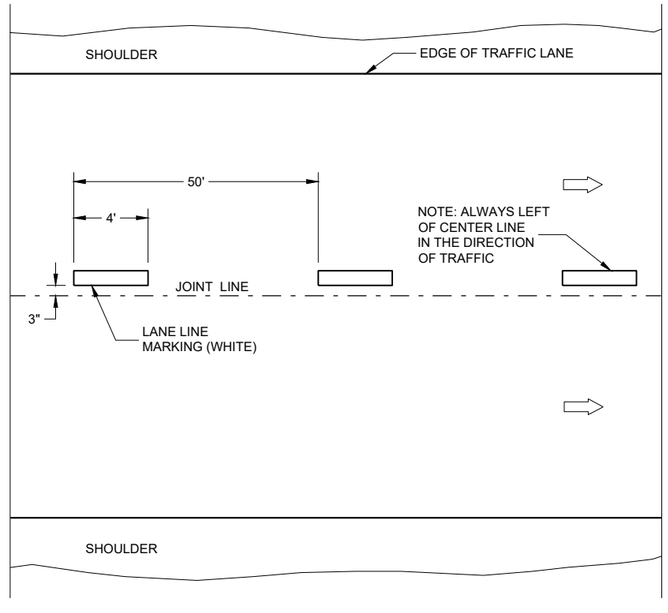


ONE WAY TRAFFIC

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.

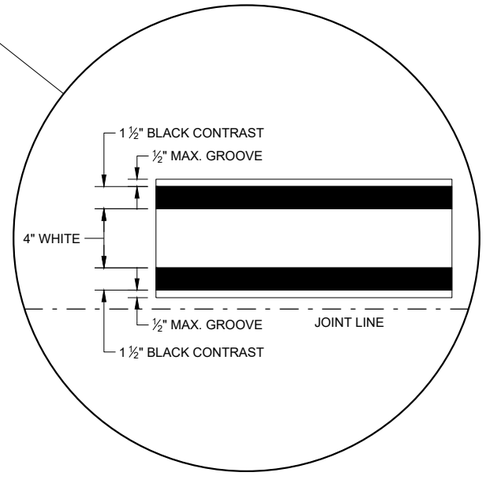
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

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

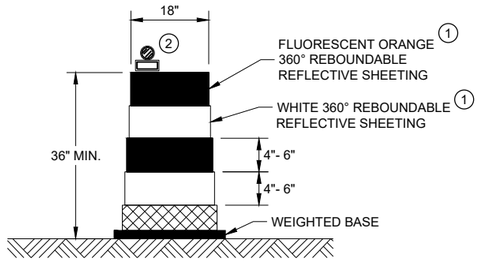
FHWA

SDD 15C08 - 20a

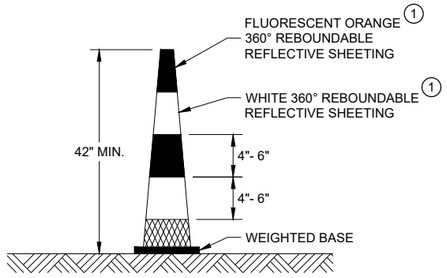
SDD 15C08 - 20a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

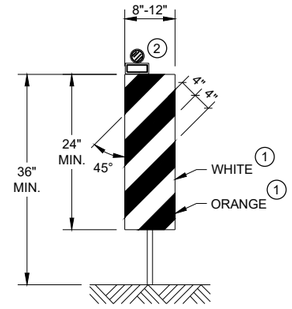


DRUM



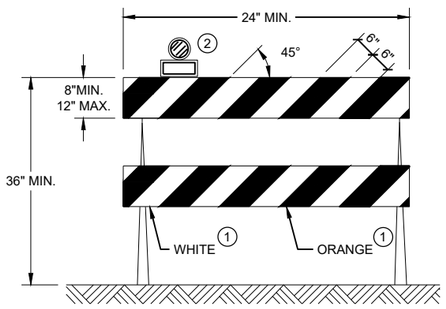
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



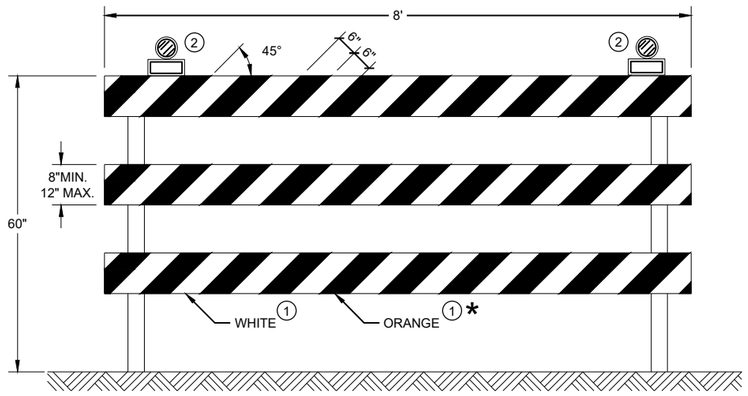
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15C11 - 07b

6

SDD 15C11 - 07b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

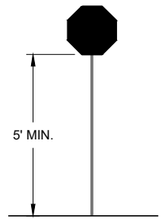
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

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.



STOP/SLOW PADDLE ON SUPPORT STAFF

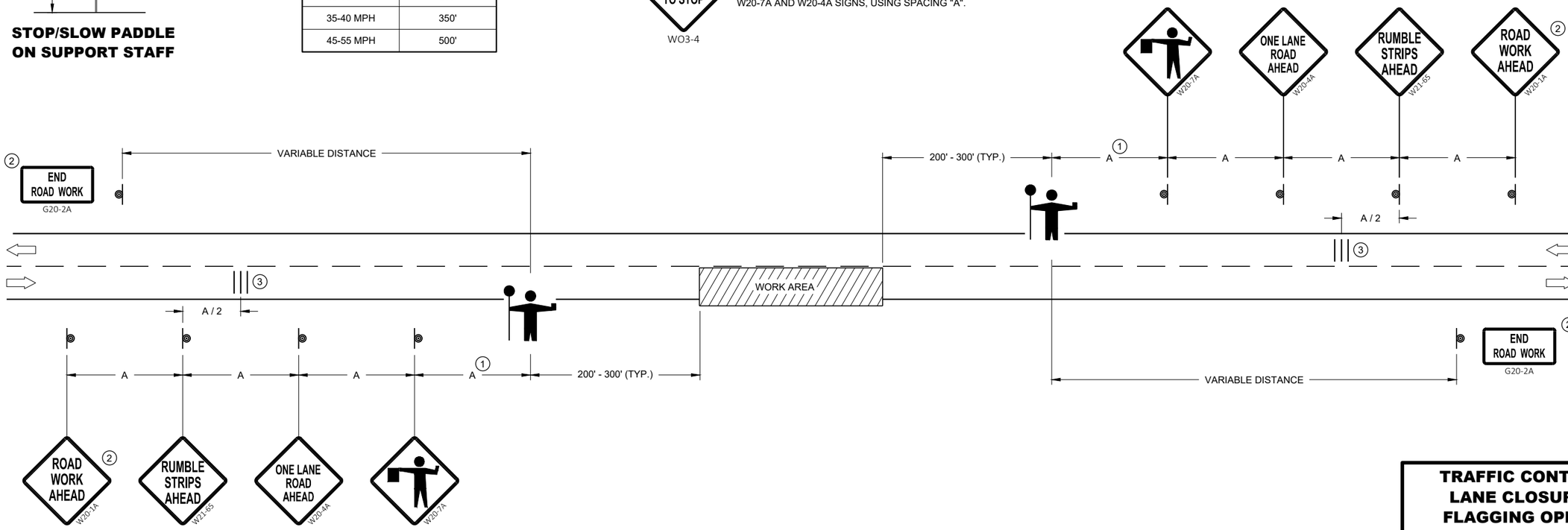
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15C12 - 07

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

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

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

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

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

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

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

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

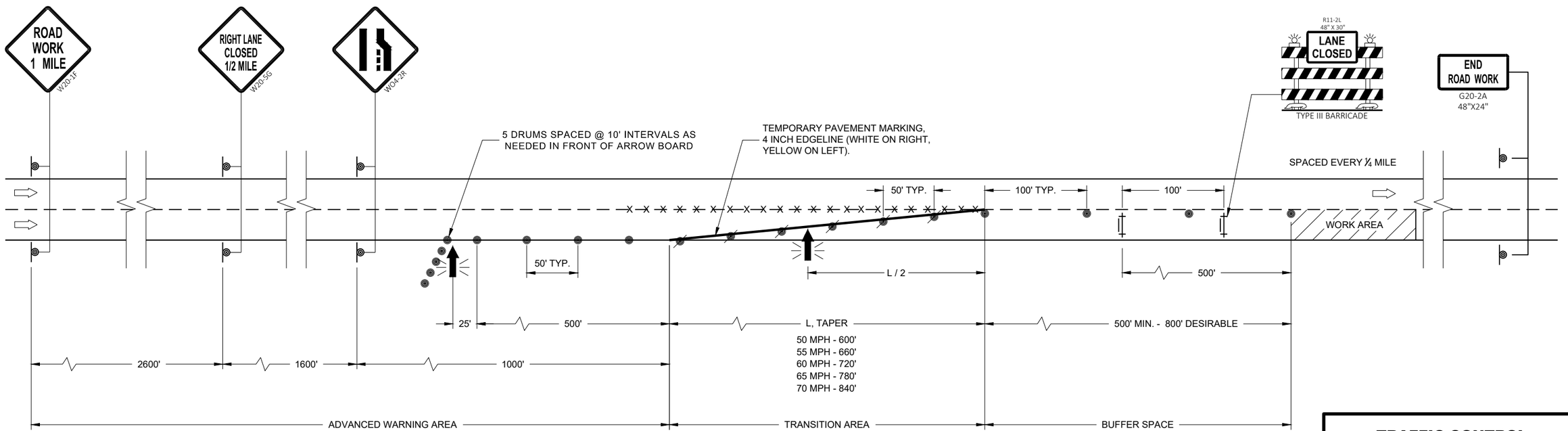
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

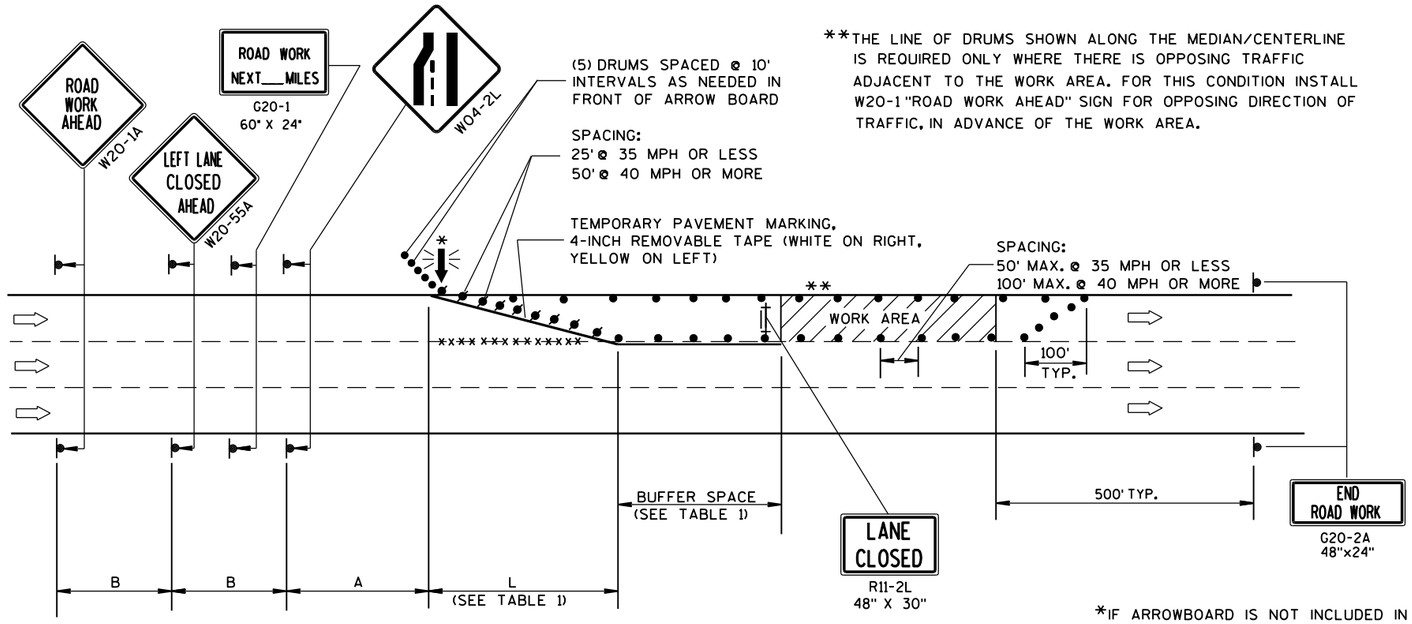
FHWA

6

SDD 15D12 - 08a

6

SDD 15D12 - 08a



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

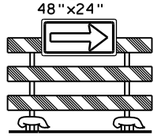


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

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

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

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

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

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

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

S.D.D. 15 D 20-4

6

S.D.D. 15 D 20-4

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.

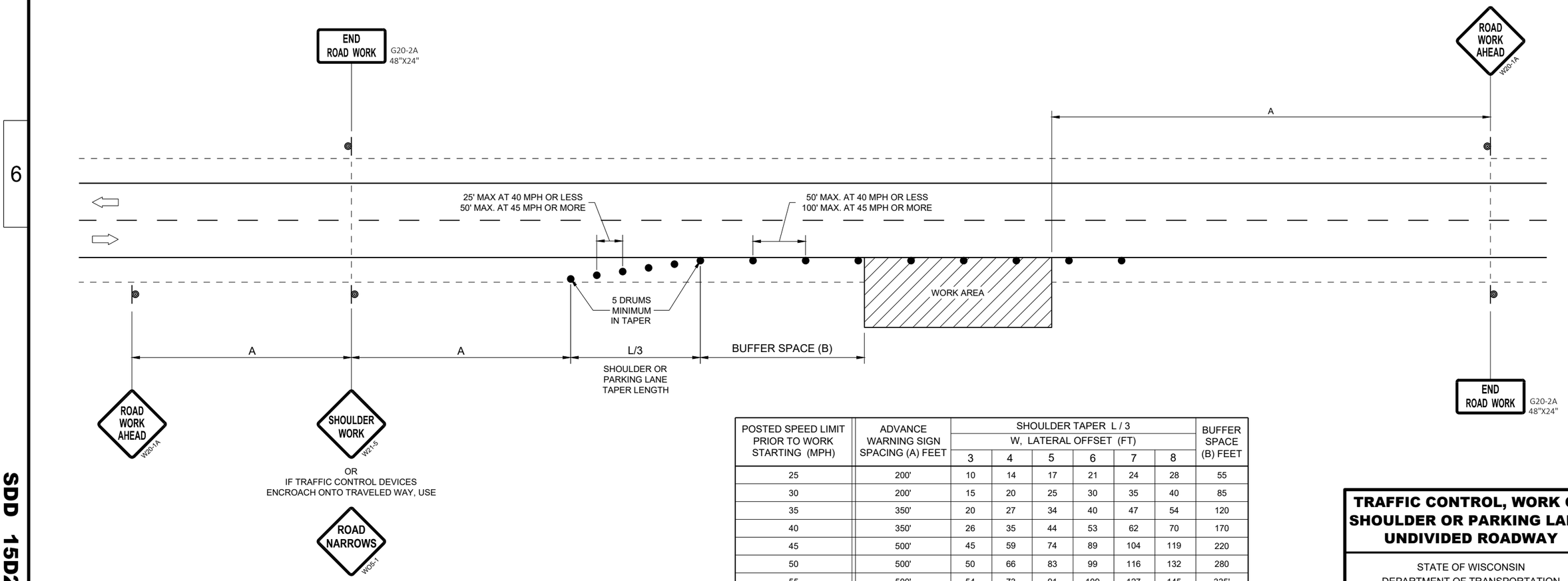
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

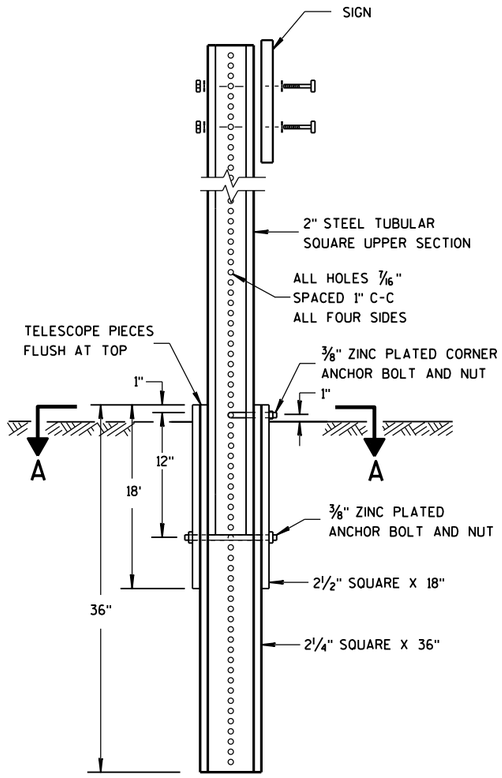
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

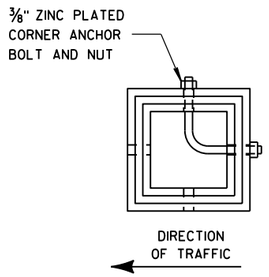
FHWA

SDD 15D28 - 04

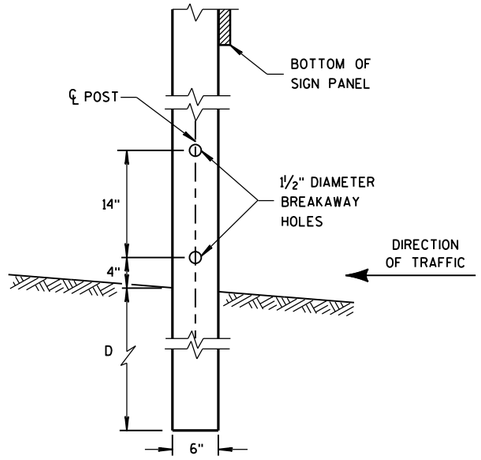
SDD 15D28 - 04



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



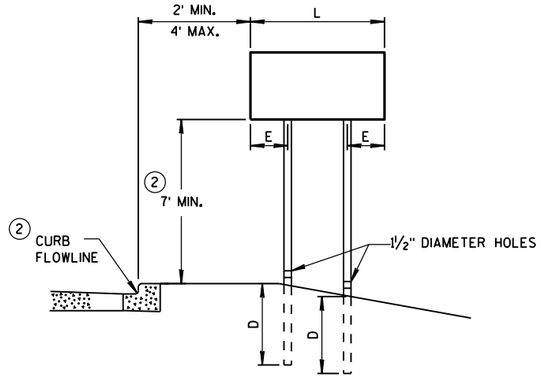
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

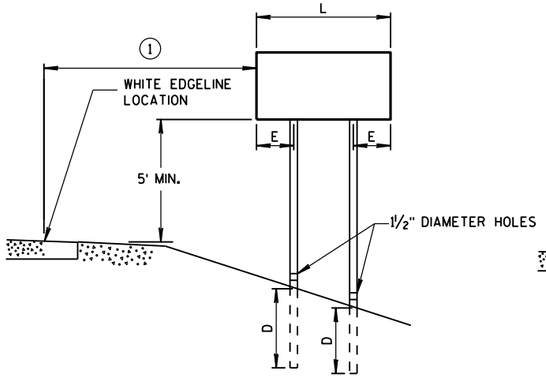
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

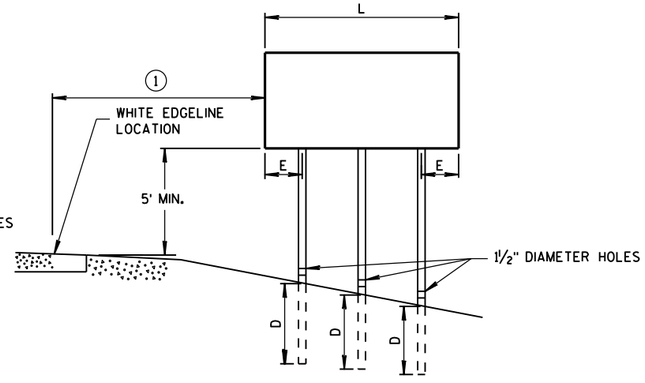
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

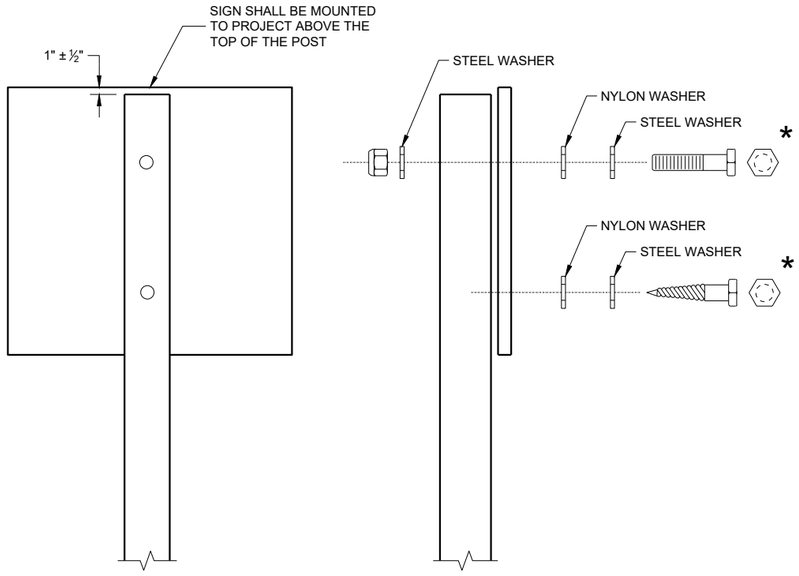
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

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.

6

6

SDD 15D38 - 02b

SDD15D38 - 02b

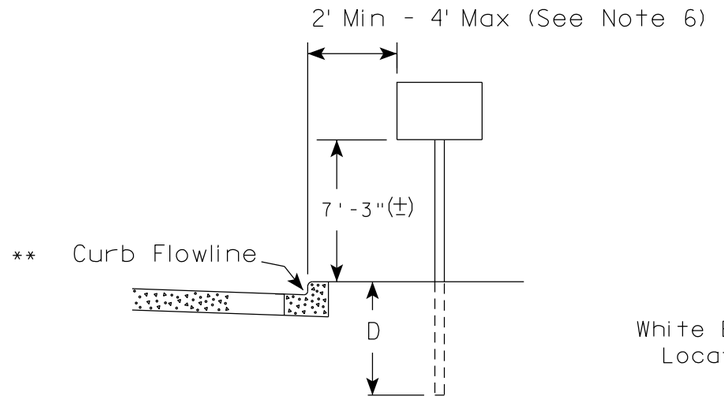
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

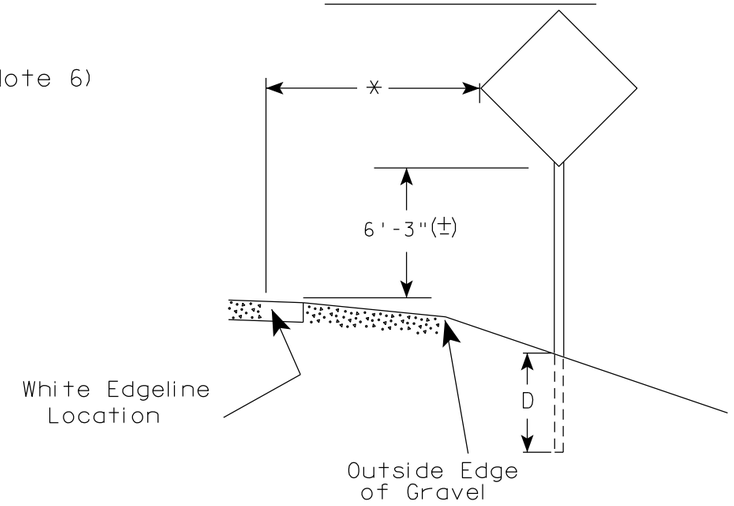
APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

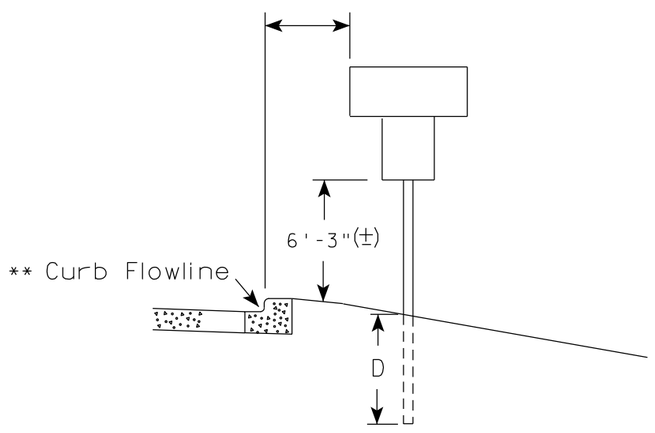
FHWA

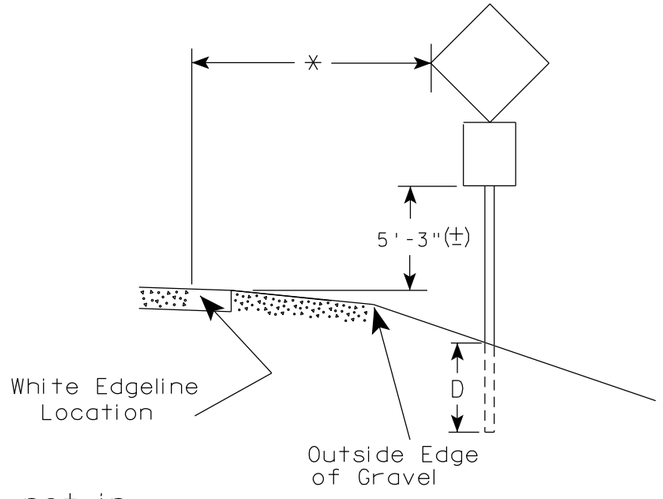
URBAN AREA



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.

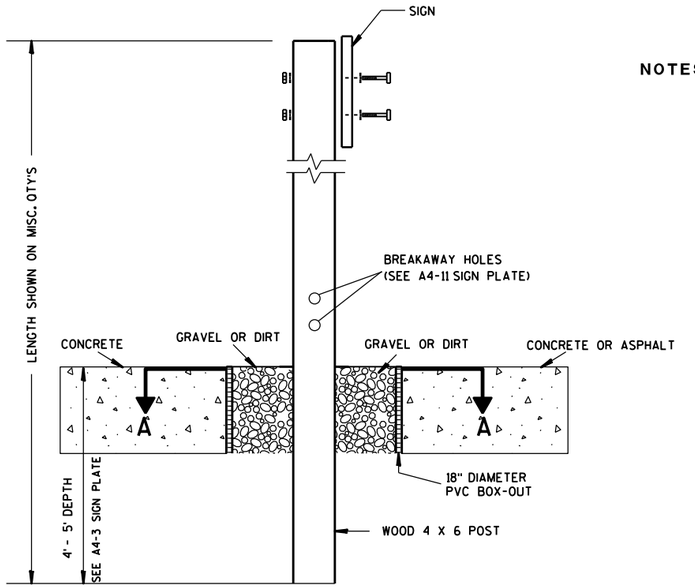
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

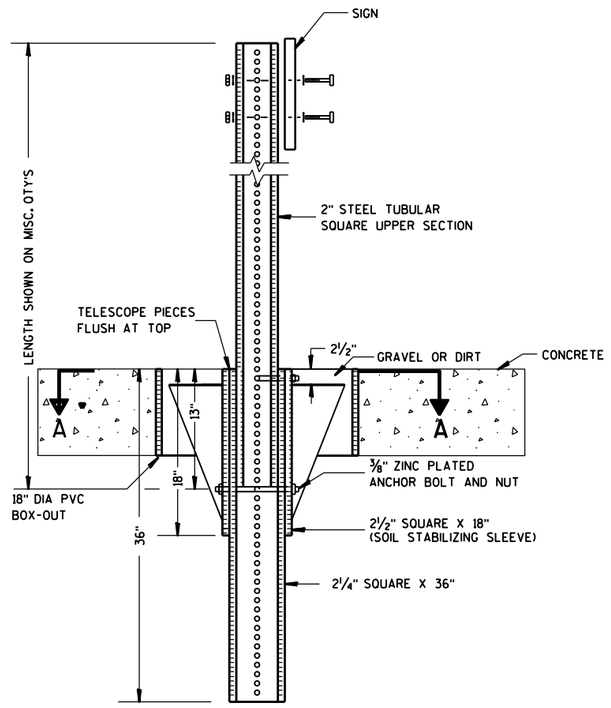
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 53	E



ELEVATION VIEW

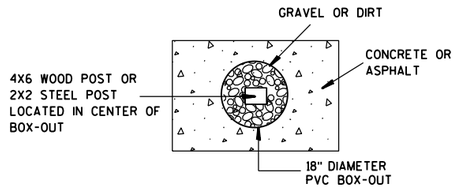
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

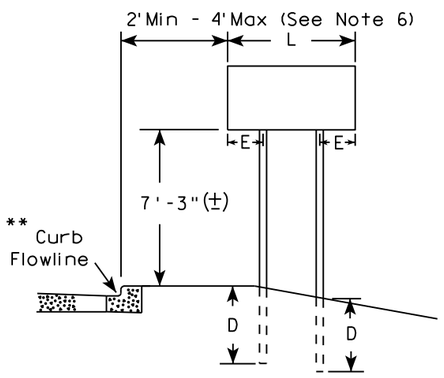
APPROVED Matthew R Rauch
for State Traffic Engineer

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

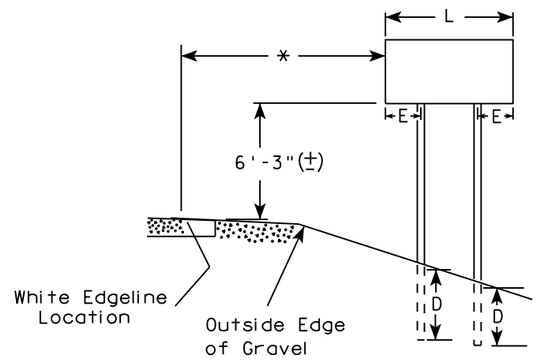
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

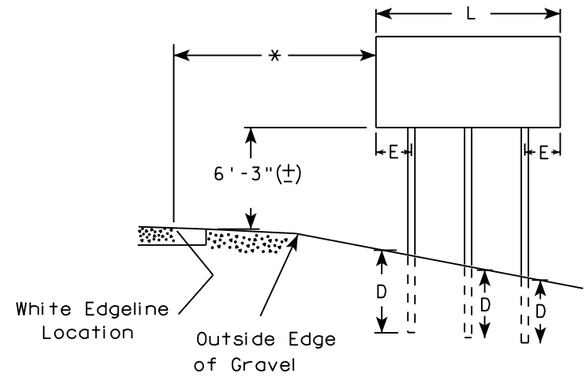
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

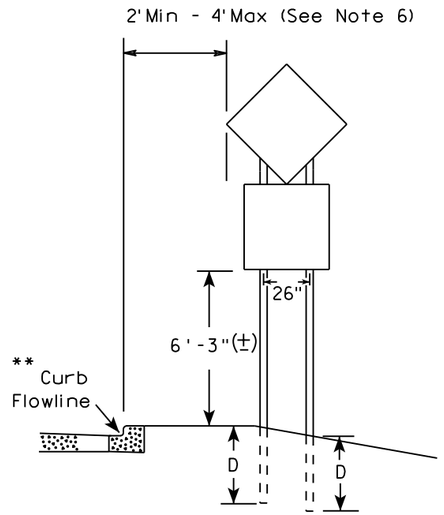
URBAN AREA



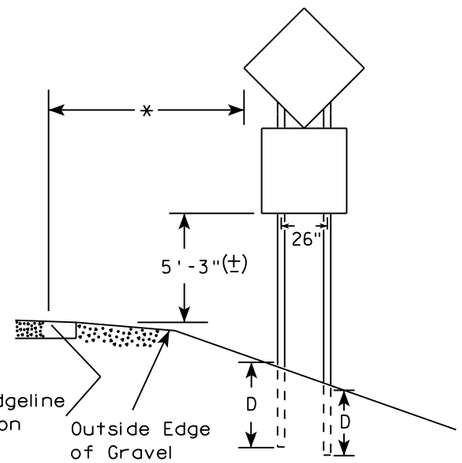
RURAL AREA (See Note 3)







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'

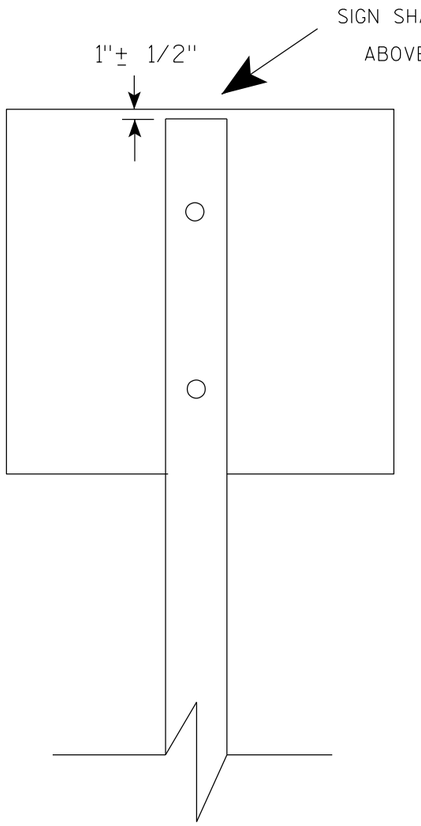
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

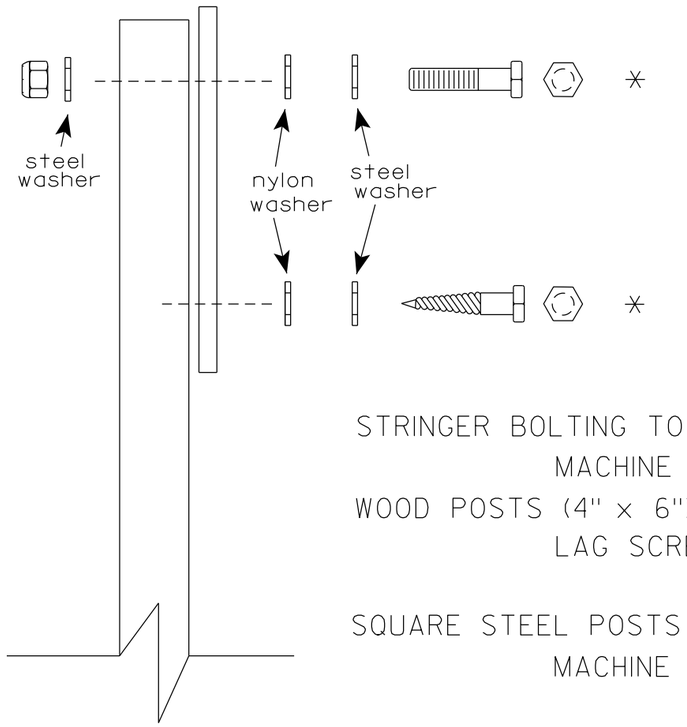
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 55	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

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

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

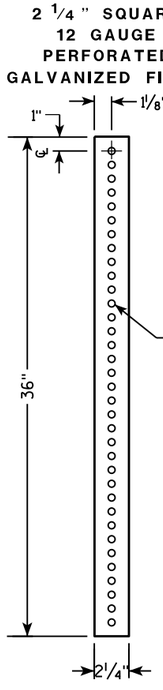
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

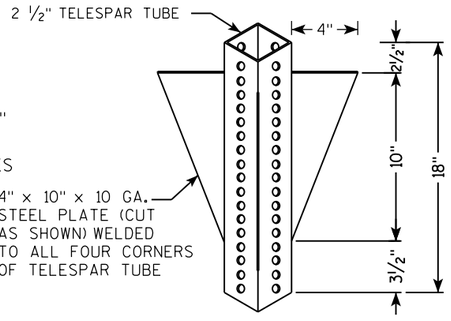
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

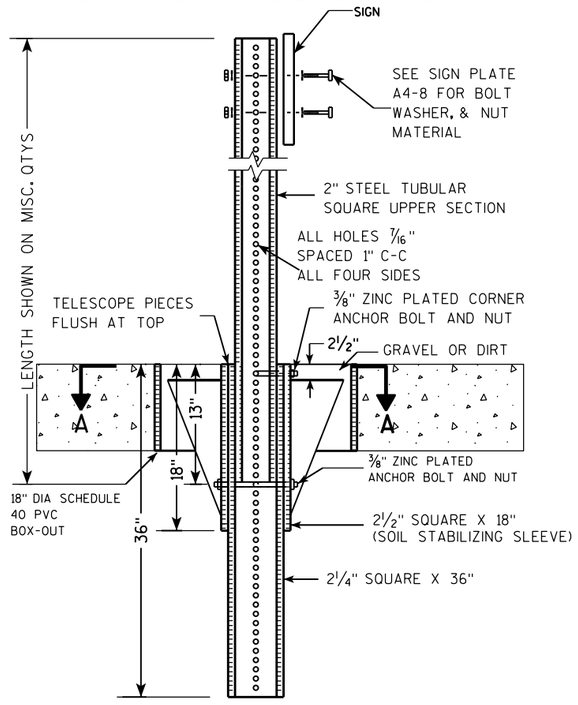
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



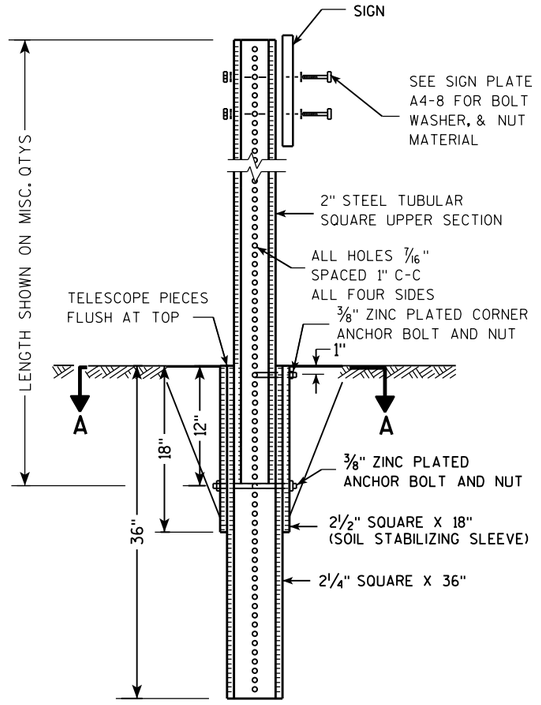
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

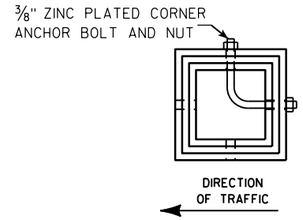


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

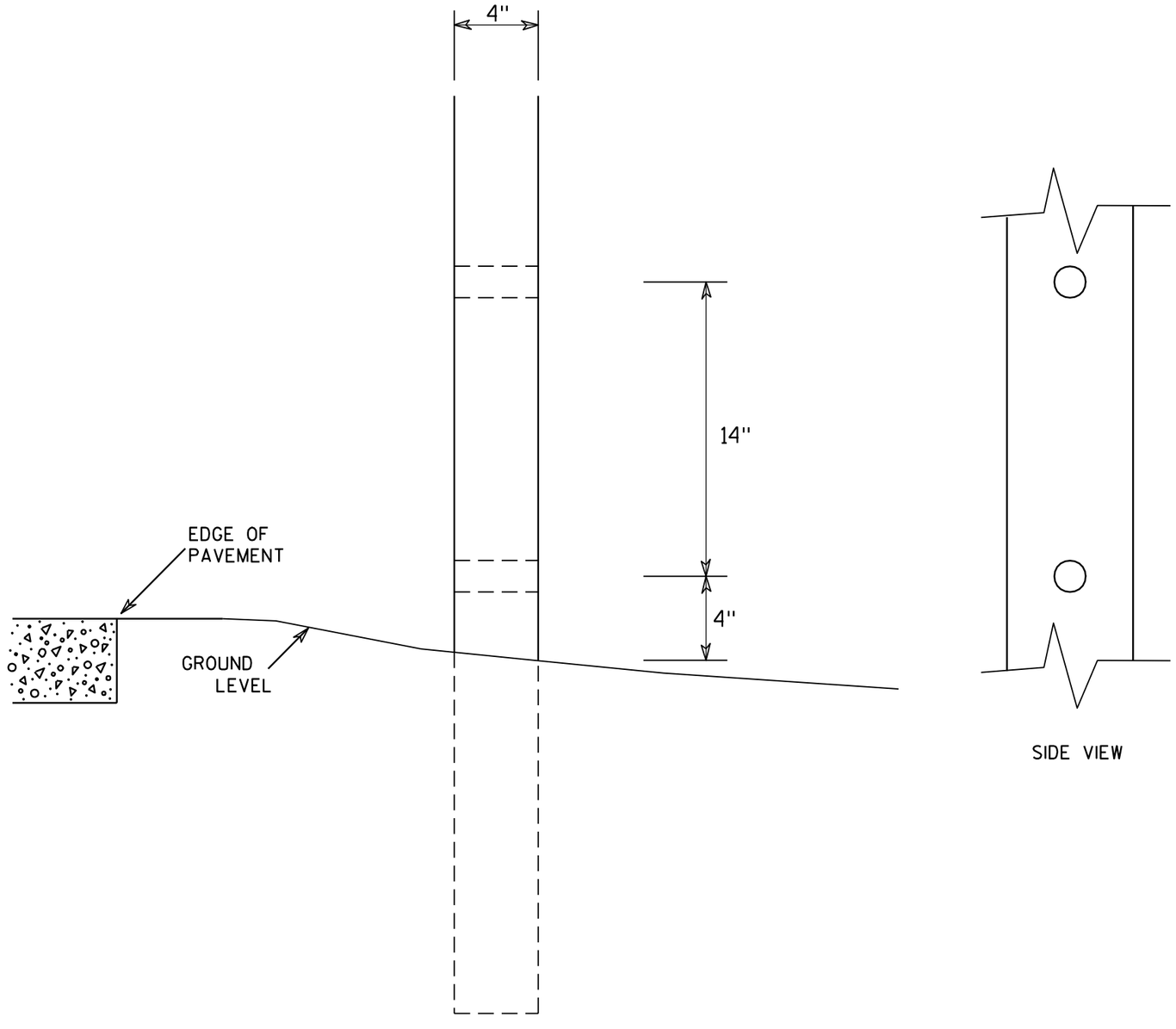
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 57 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

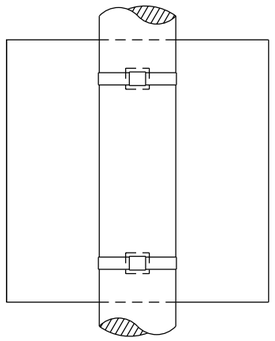
APPROVED Chester J Spang for State Traffic Engineer

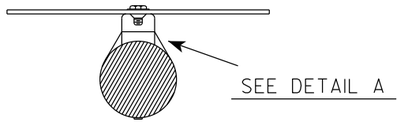
DATE 3/27/97 PLATE NO. A4-11.2

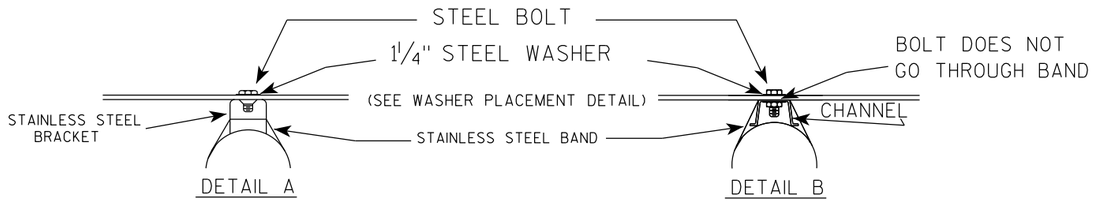
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 58	E

BANDING

SINGLE SIGN



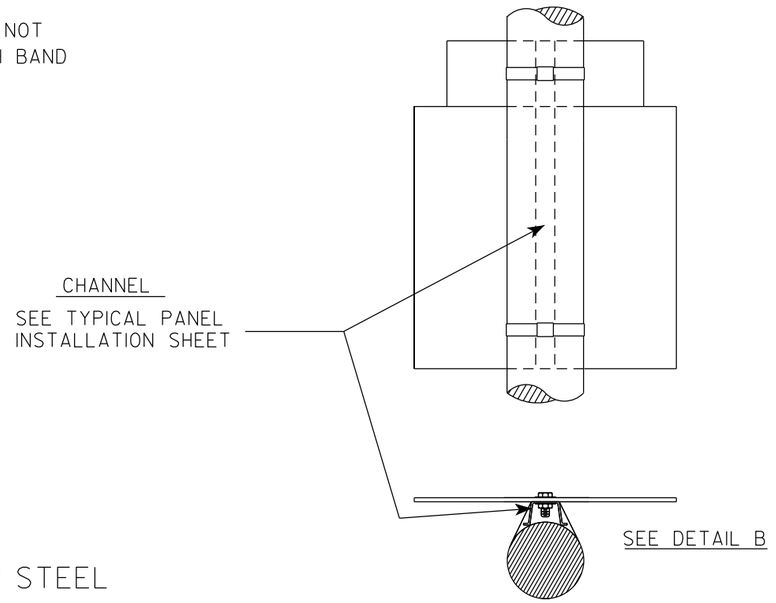




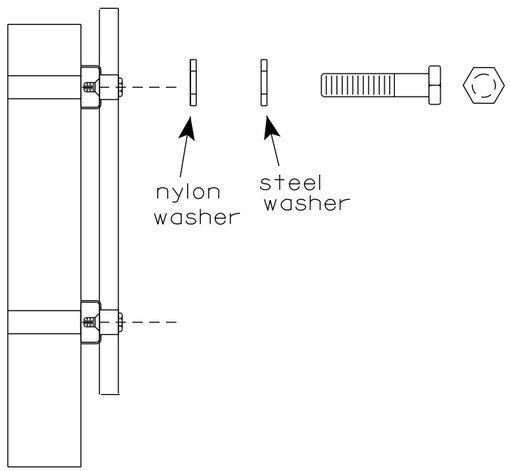
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

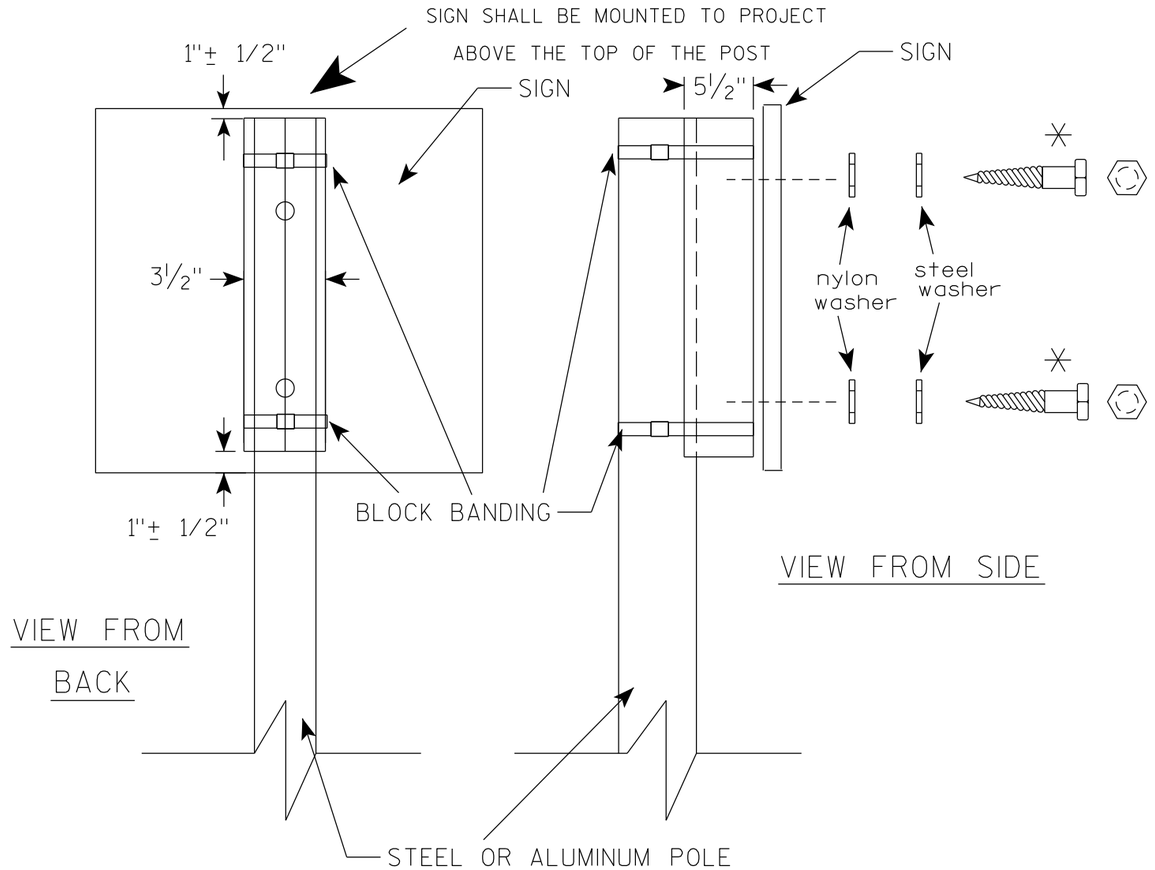
WISCONSIN DEPT OF TRANSPORTATION

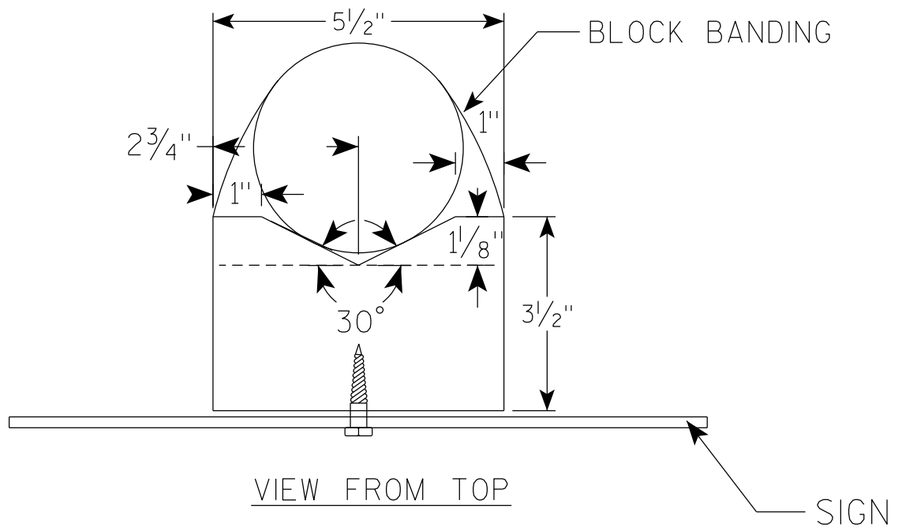
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 59	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$





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"

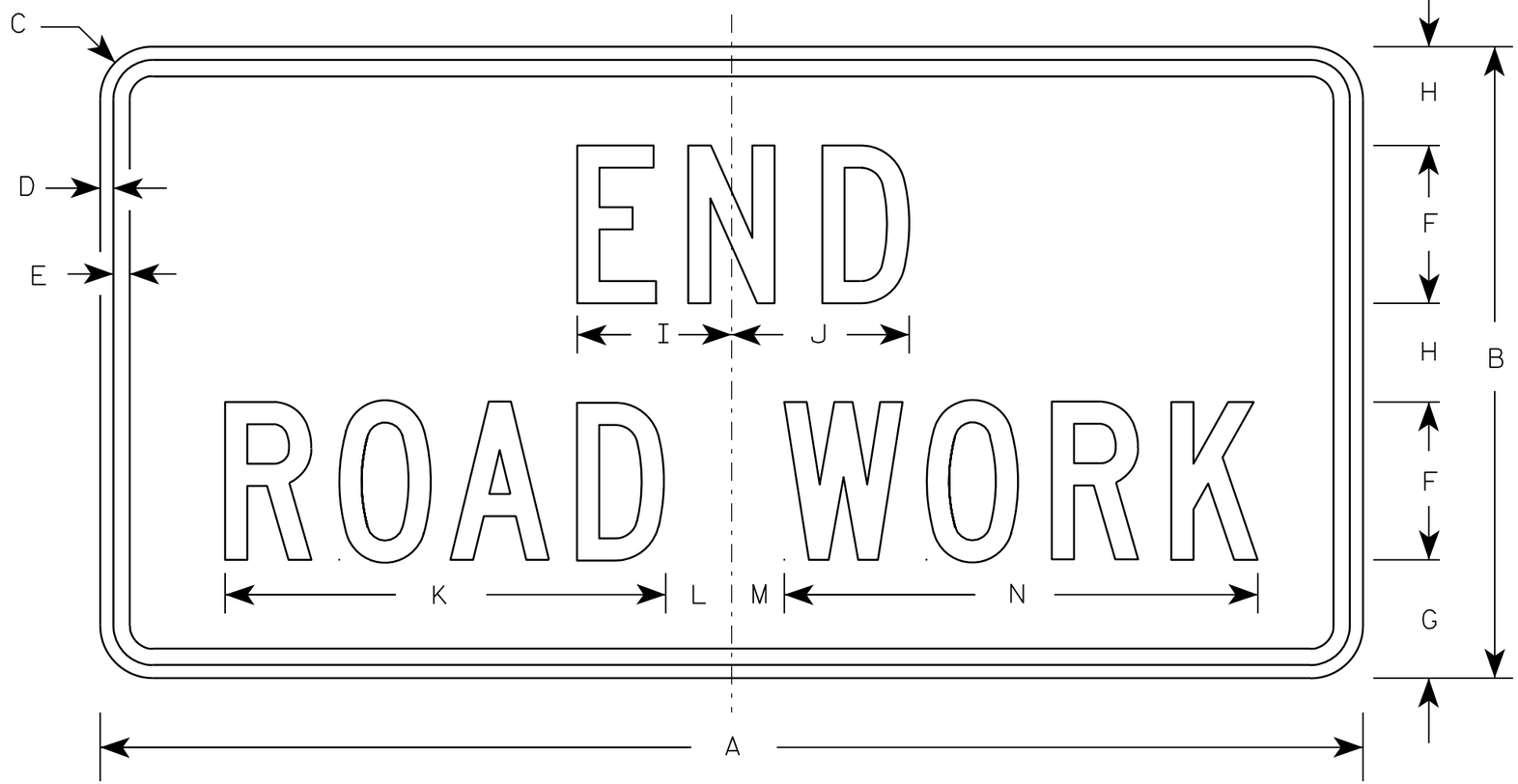
BLOCK BANDING DETAIL (V-BLOCK OPTION)

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: 60	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

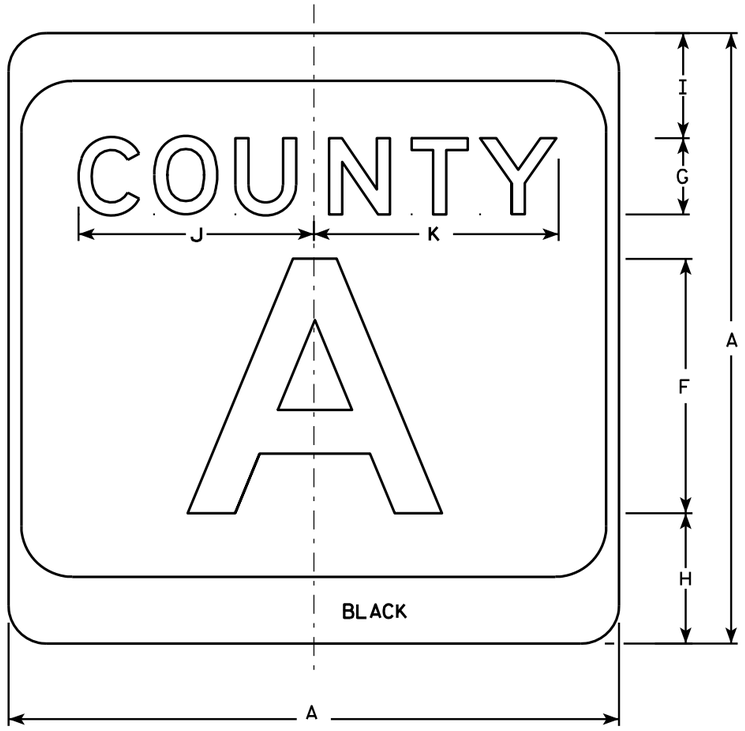
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

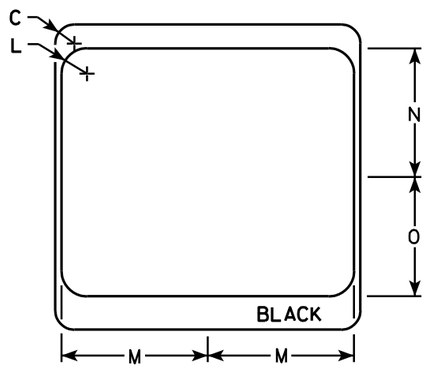
APPROVED Matthew R Rauch
for State Traffic Engineer

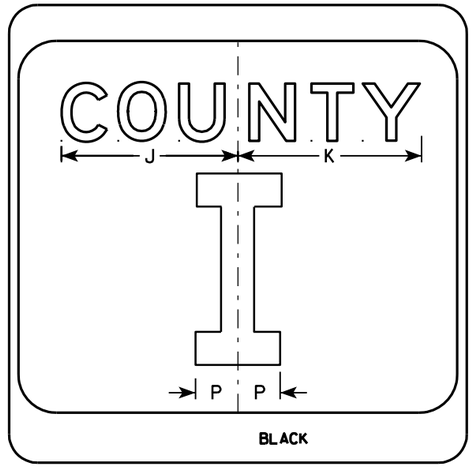
DATE 9/30/09 PLATE NO. G20-2A.8

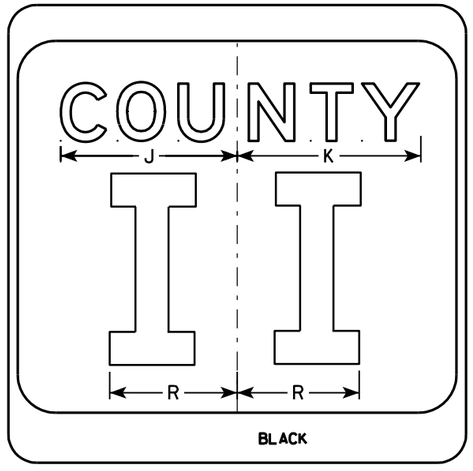
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 61	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

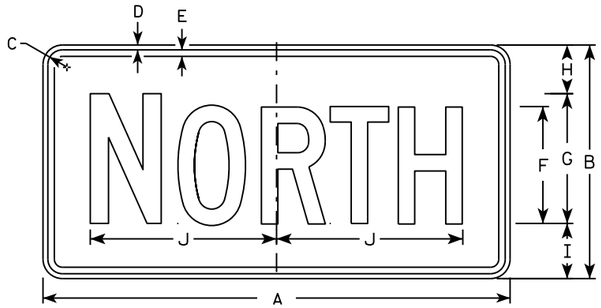
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

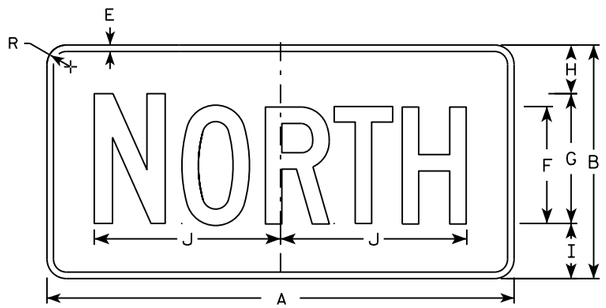
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 62 | E



M3-1
MM3-1
MP3-1



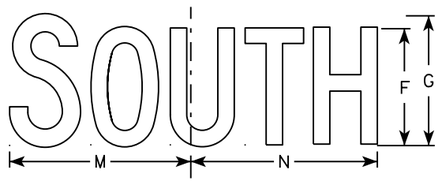
MB3-1
MK3-1
MN3-1



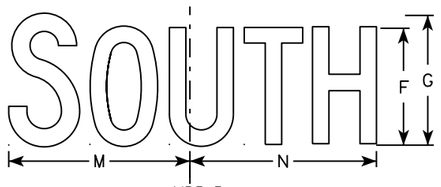
M3-2
MM3-2
MP3-2



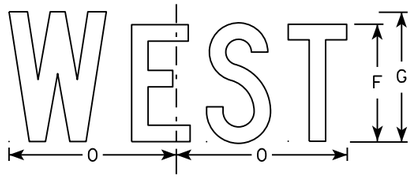
MB3-2
MK3-2
MN3-2



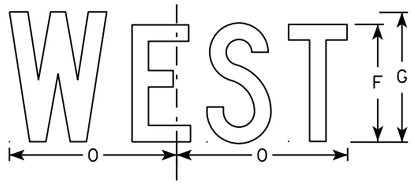
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

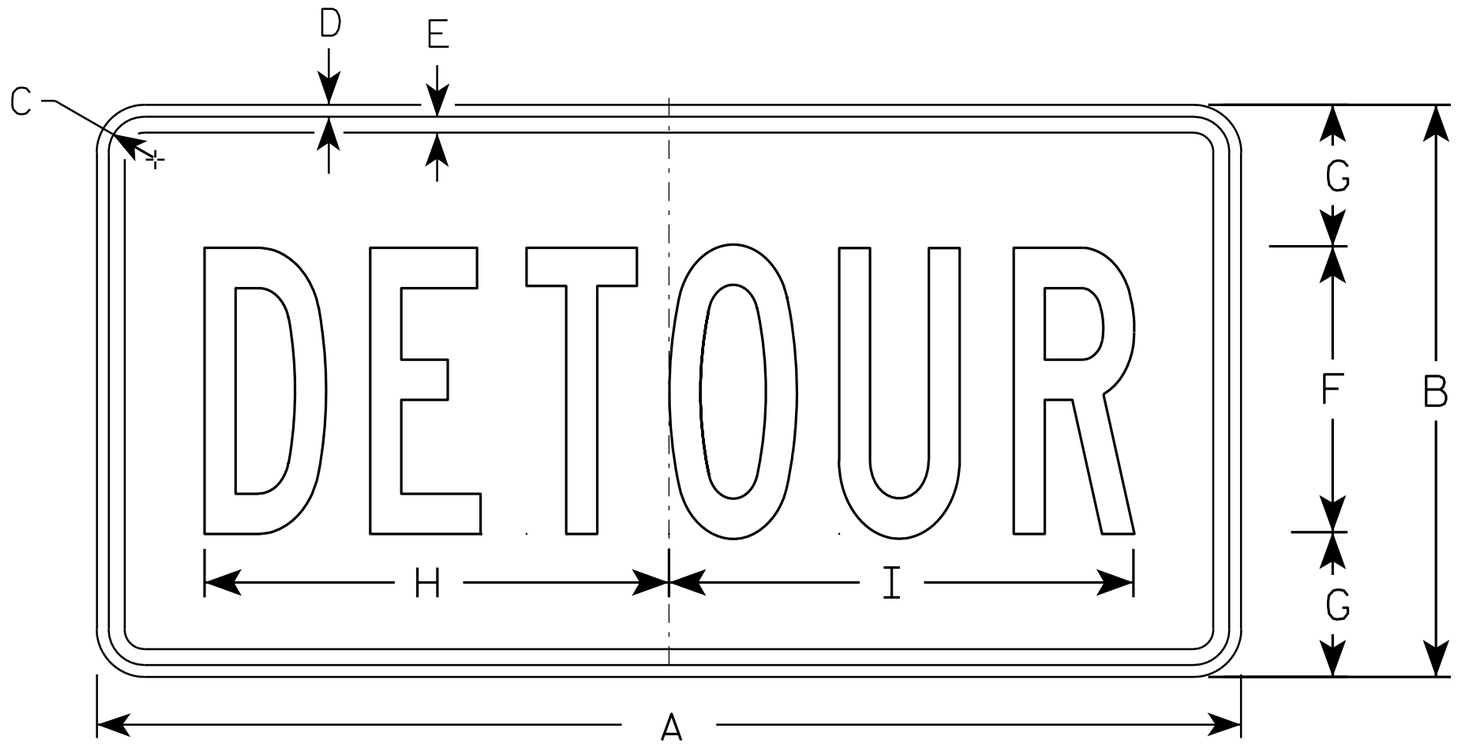
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

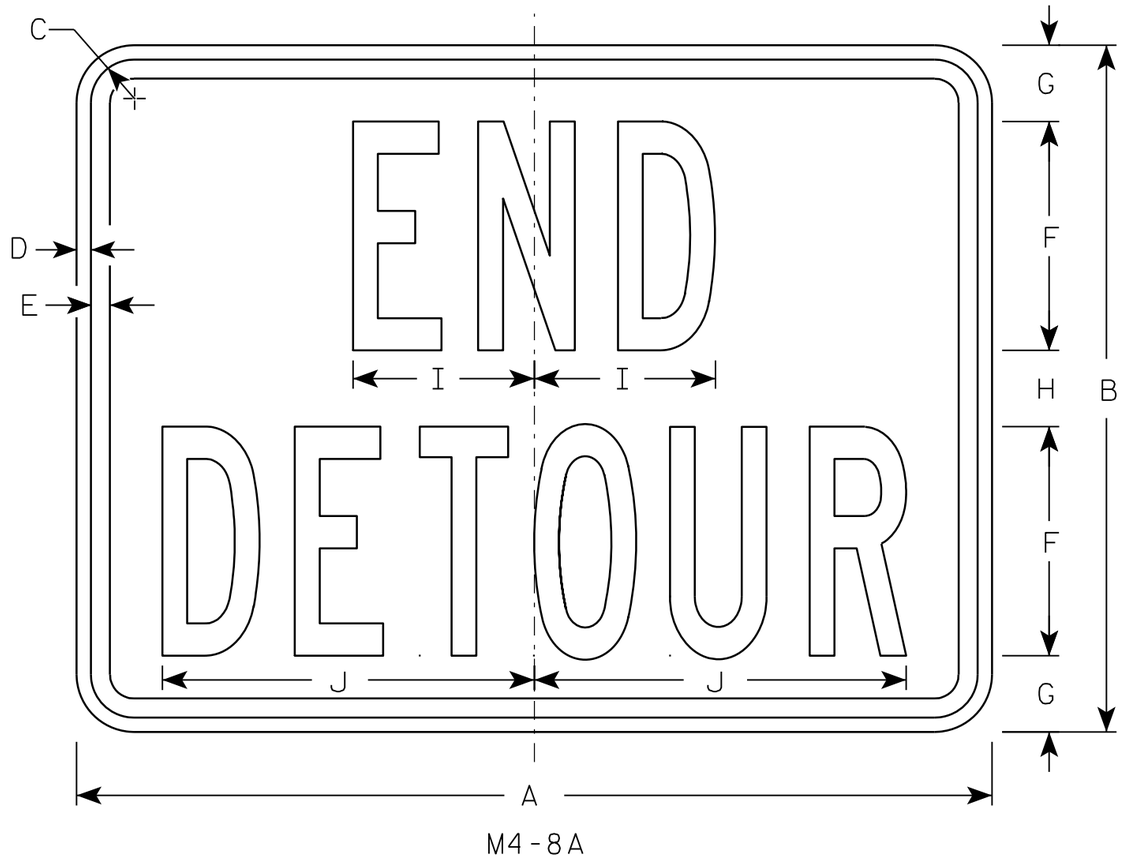
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 64	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																											

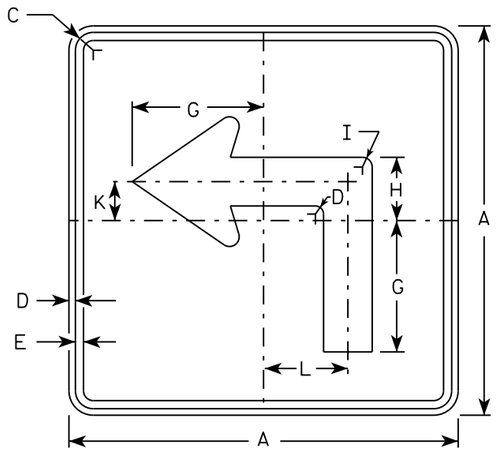
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

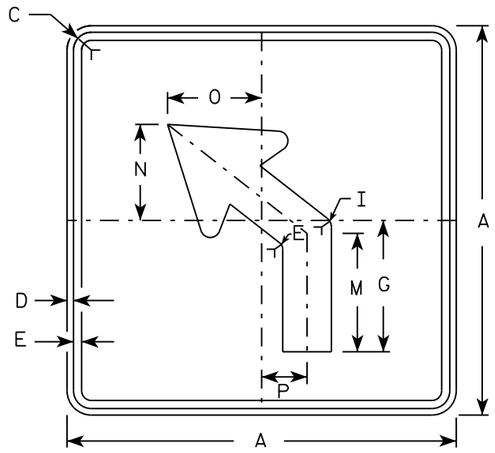
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

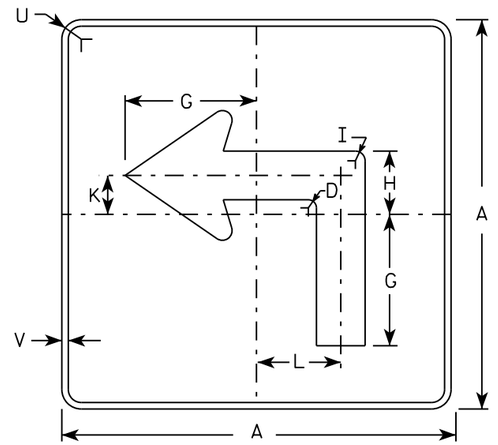
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 65	E



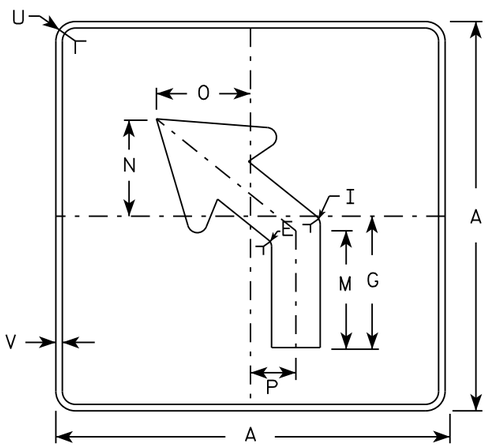
M5-1L
MM5-1L
MO5-1L
MP5-1L



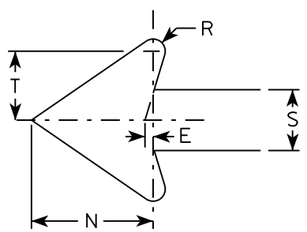
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

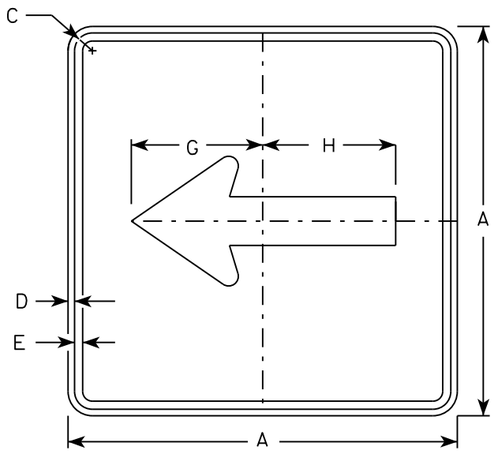
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

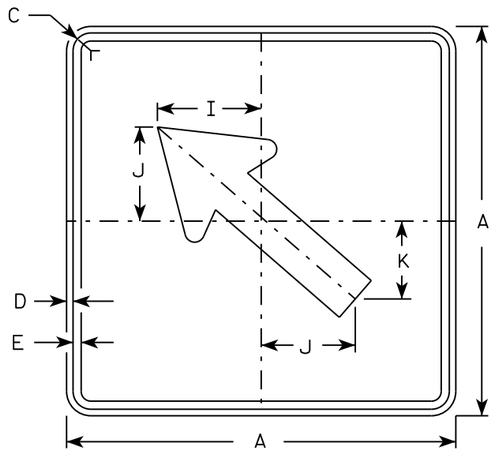
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



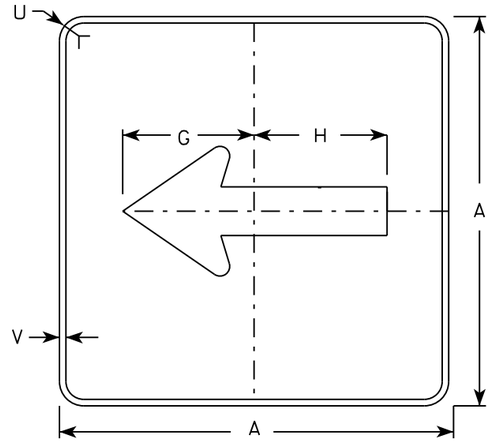
M6-1
MM6-1
MO6-1
MP6-1



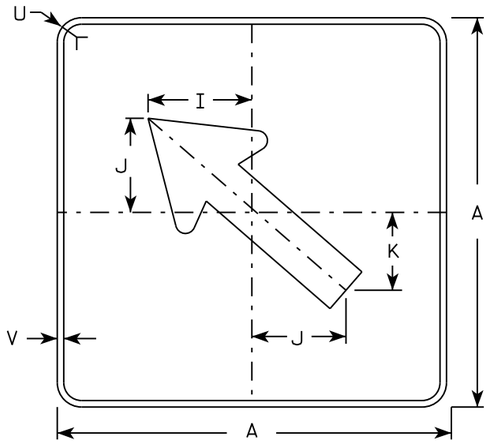
M6-2
MM6-2
MO6-2
MP6-2

NOTES

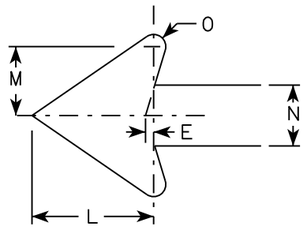
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

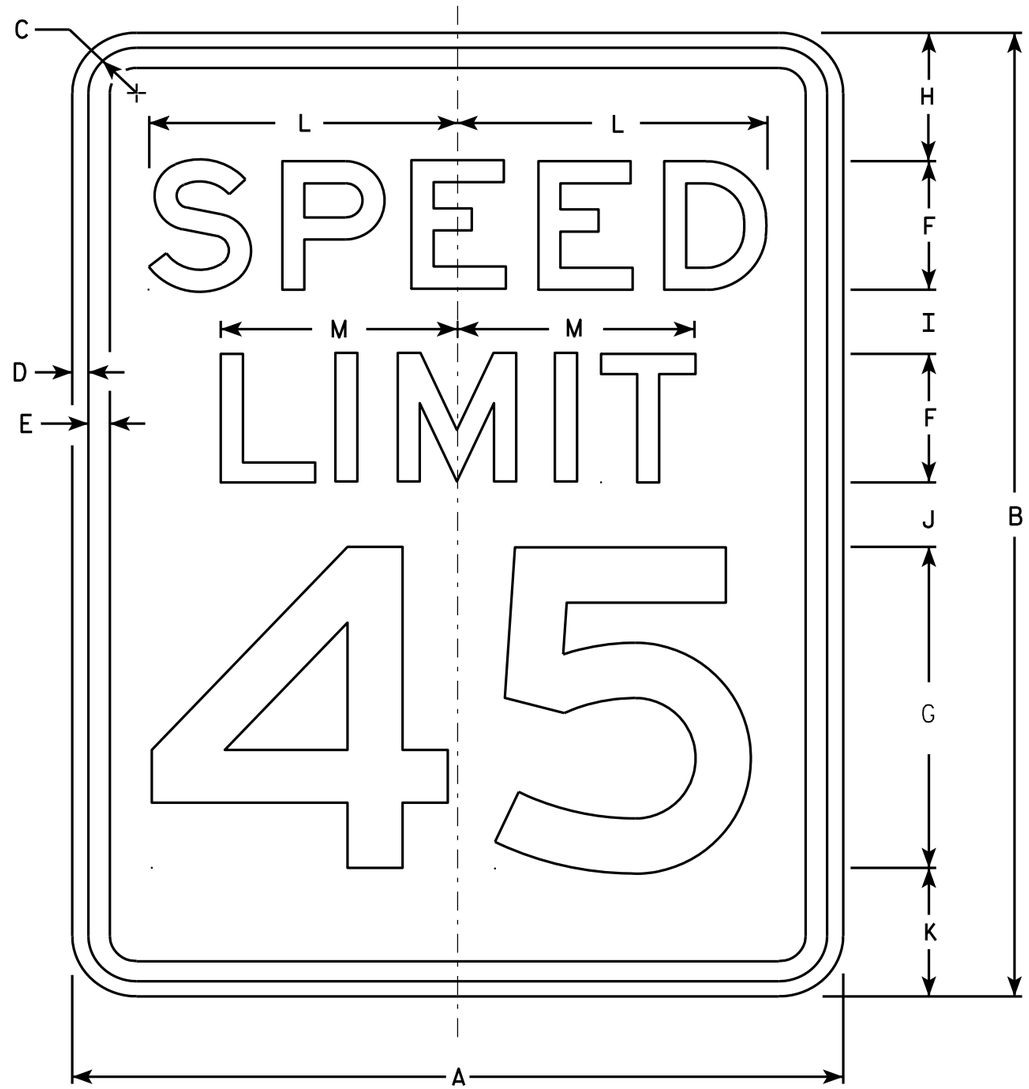
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 67 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



R2-1

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 - 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.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

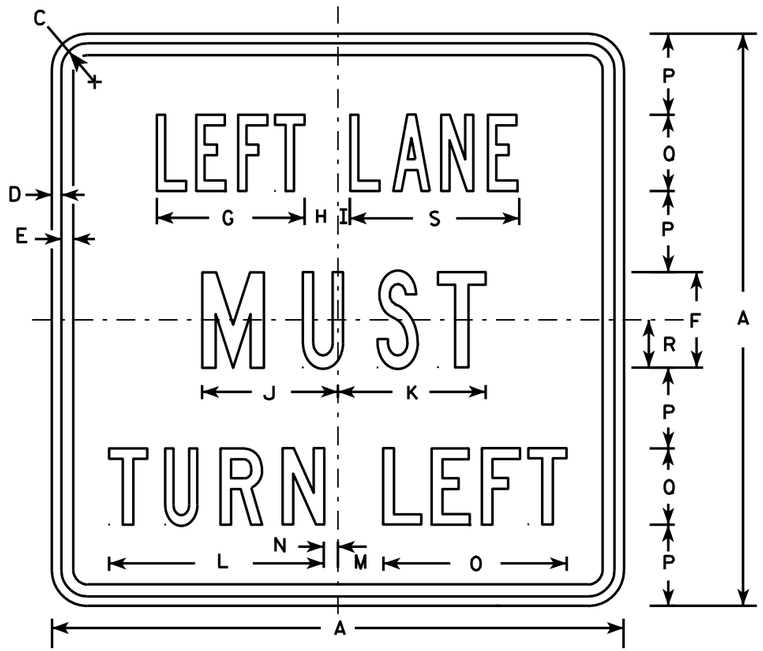
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

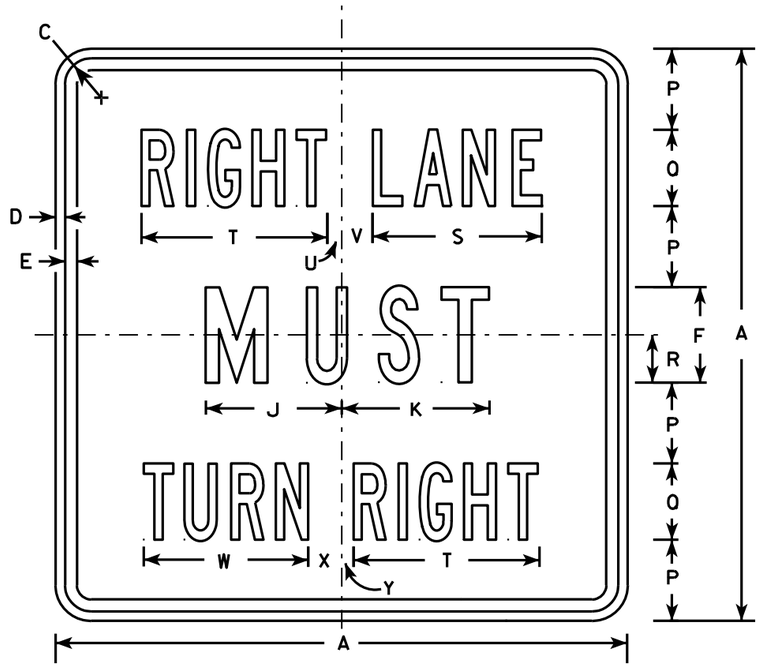
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 68 | E



R3-7L



R3-7R

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 - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
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		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

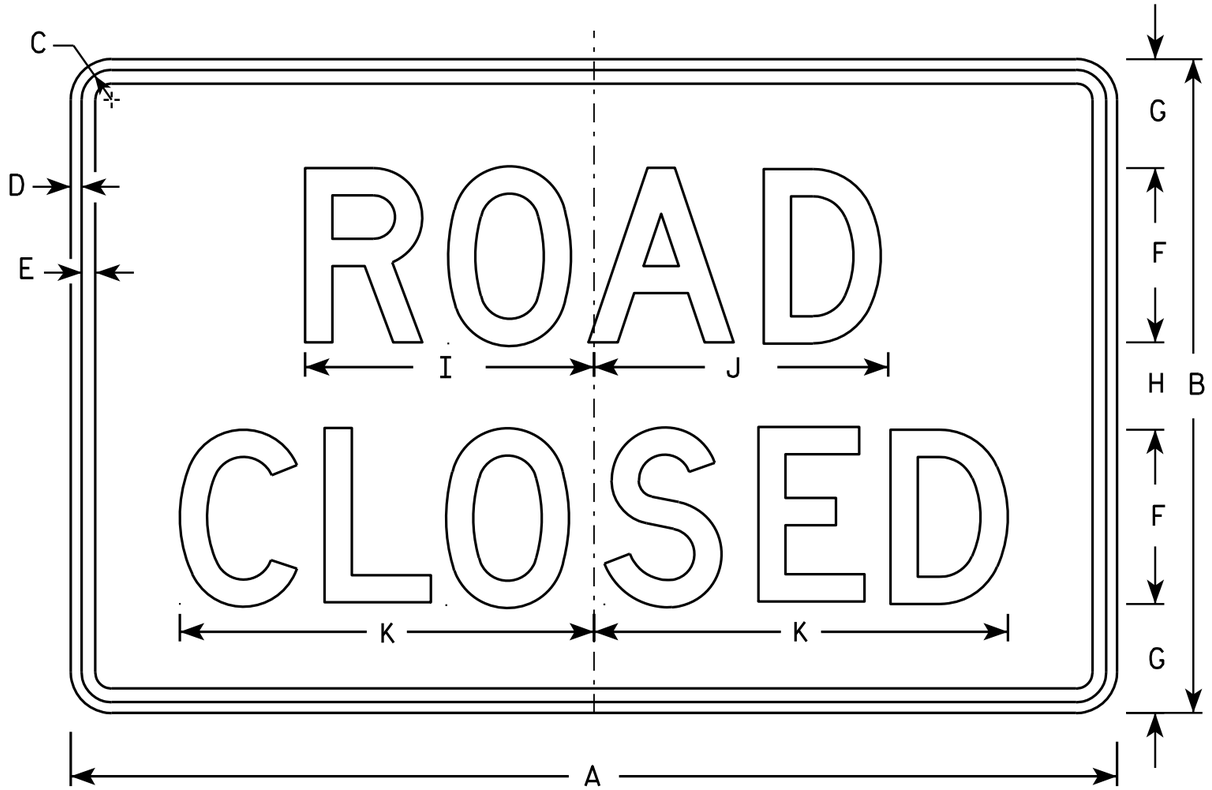
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

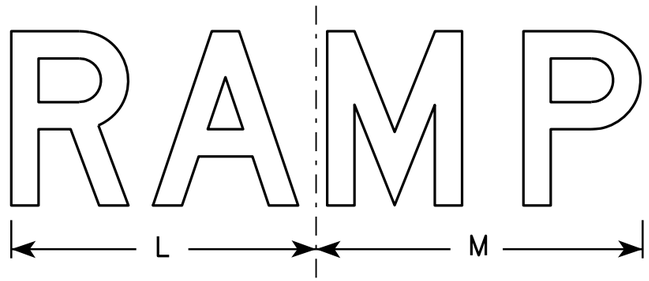
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 69 | E



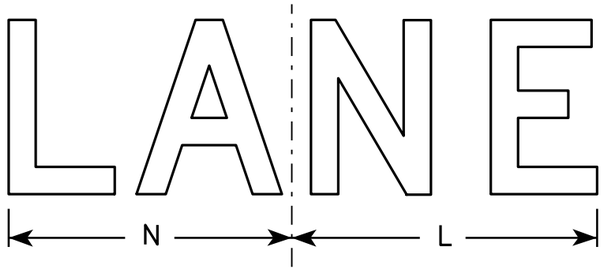
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

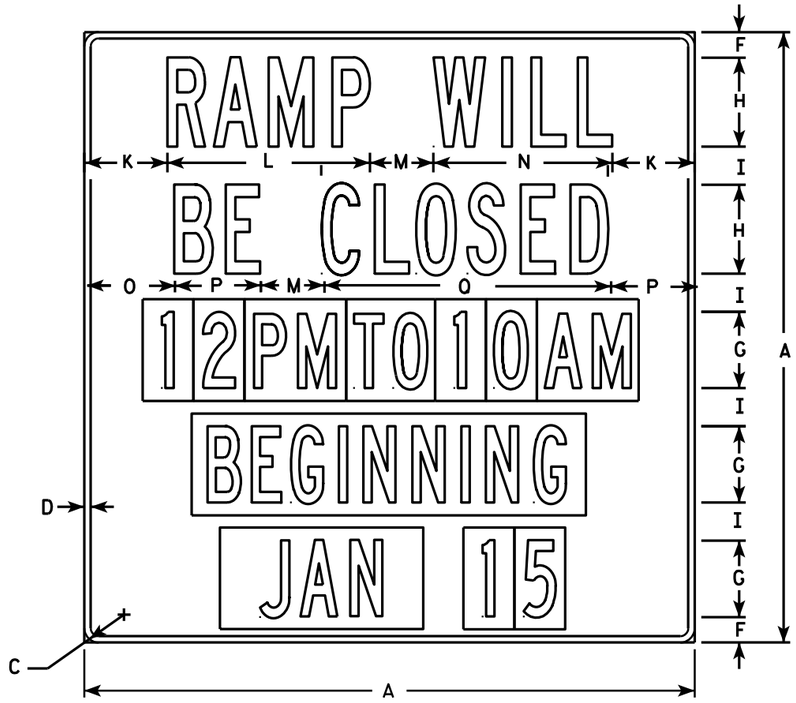
STANDARD SIGN
R11-2

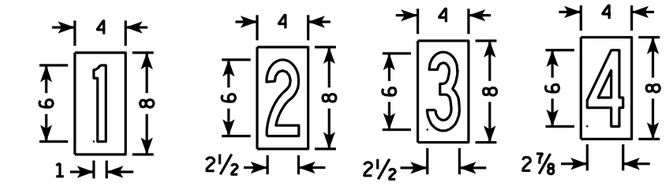
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

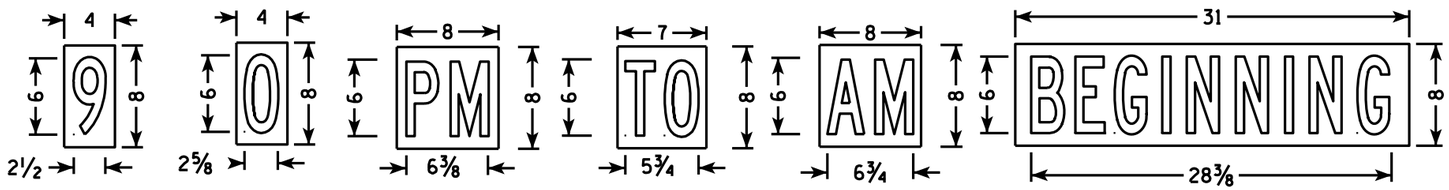
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 70 | E

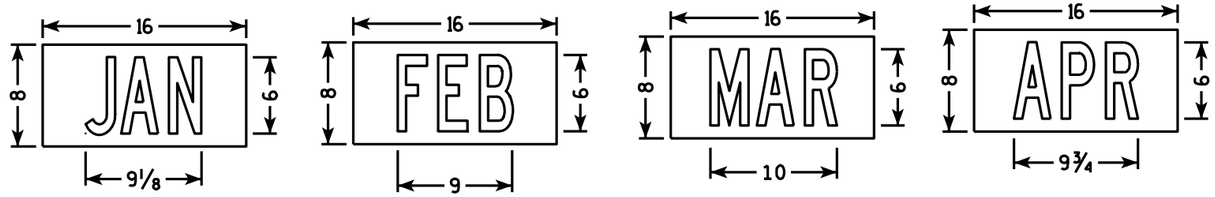


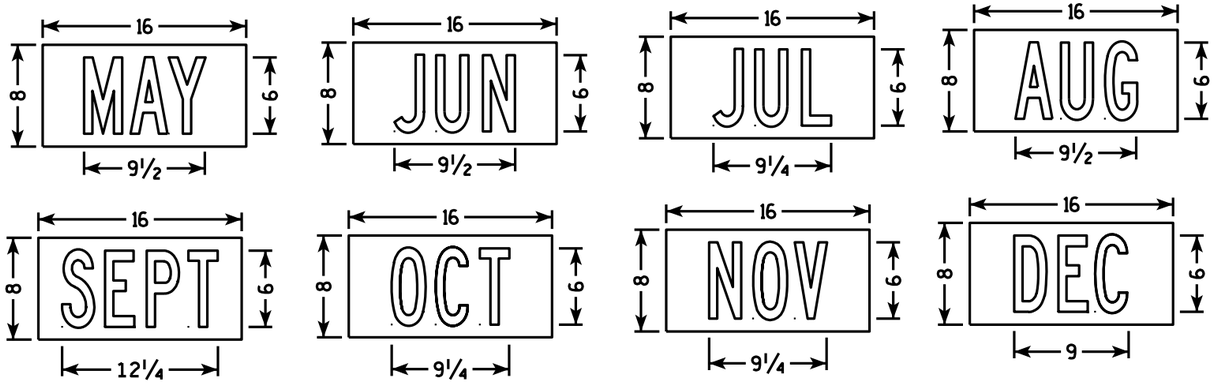


NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B
4. Message plaques consist of Type H Reflective sheeting with the appropriate non-reflective black message applied to .040 aluminum and screwed to the base sign.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
2M	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
3																											
4																											
5																											

STANDARD SIGN
R11-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-51.4

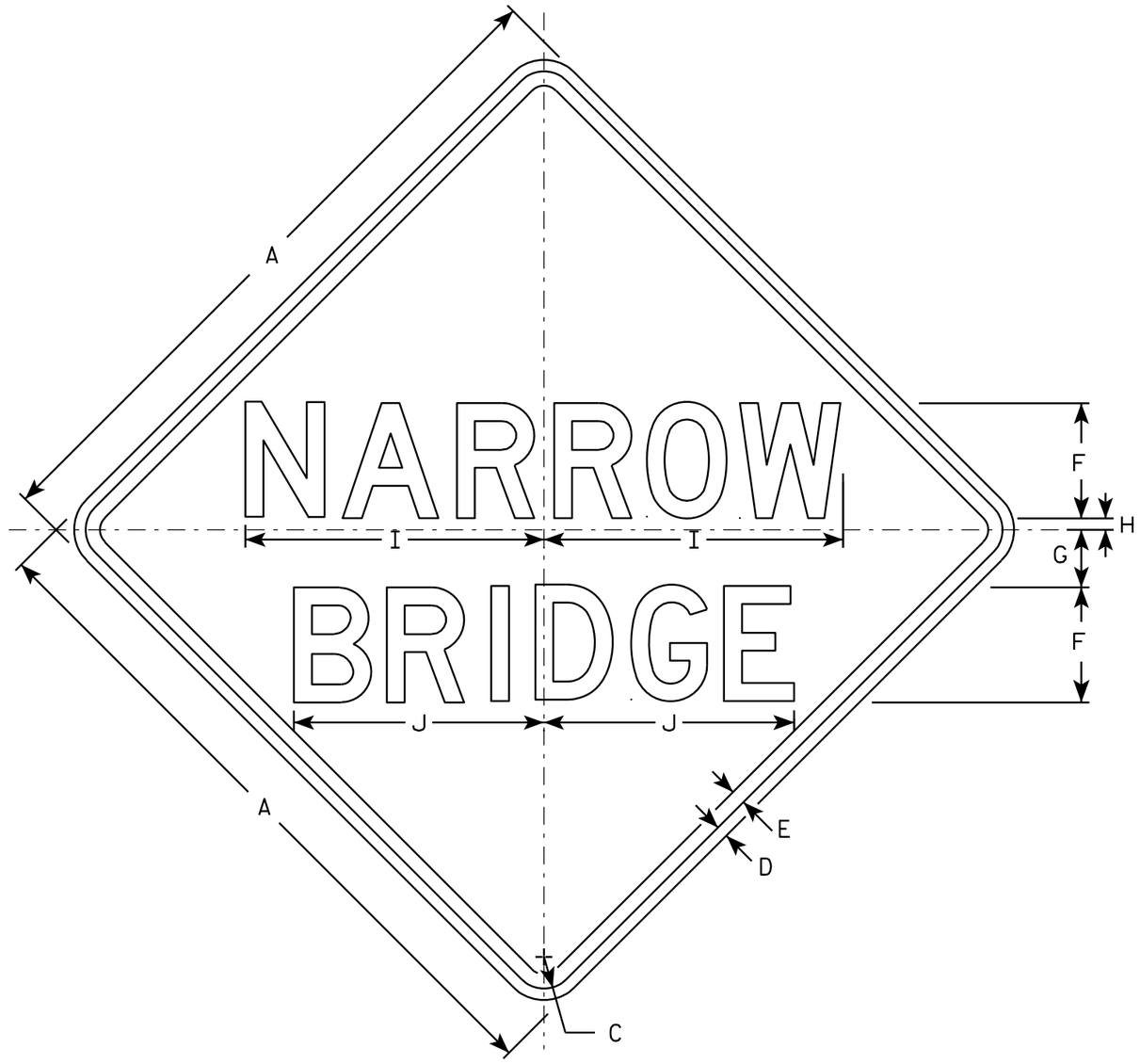
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 71	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R1151.DGN PLOT DATE : 01-APR-2011 14:07 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000

WISDOT/CADDS SHEET 42

7

7



W5-2

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.

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	2 1/2	1/2	13	10 7/8																	6.25
2S	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
2M	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
3	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
4	48		2 1/4	3/4	1	8	4	3/4	20 3/4	17 3/8																	16.0
5																											

STANDARD SIGN
W5-2

WISCONSIN DEPT OF TRANSPORTATION

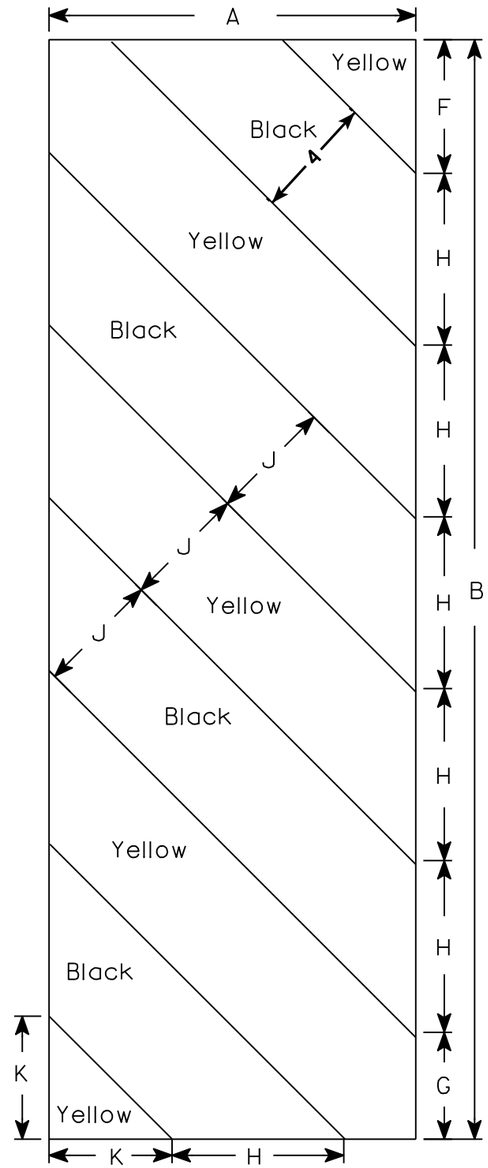
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W5-2.8

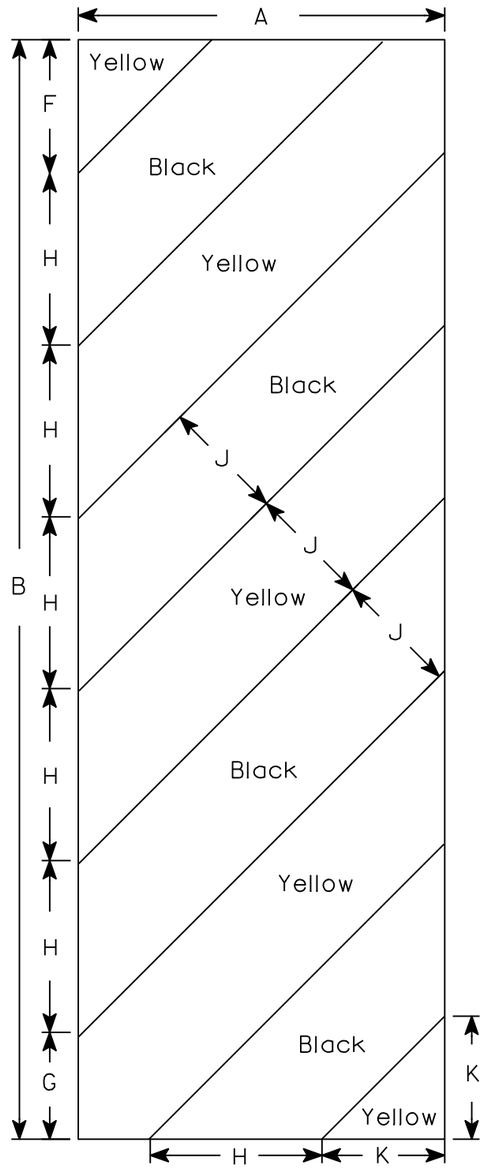
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 72 | E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W52.DGN PLOT DATE : 12-MAR-2013 13:50 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.202372:1.000000
WISDOT/CADDS SHEET 42



W5-52L



W5-52R

NOTES

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

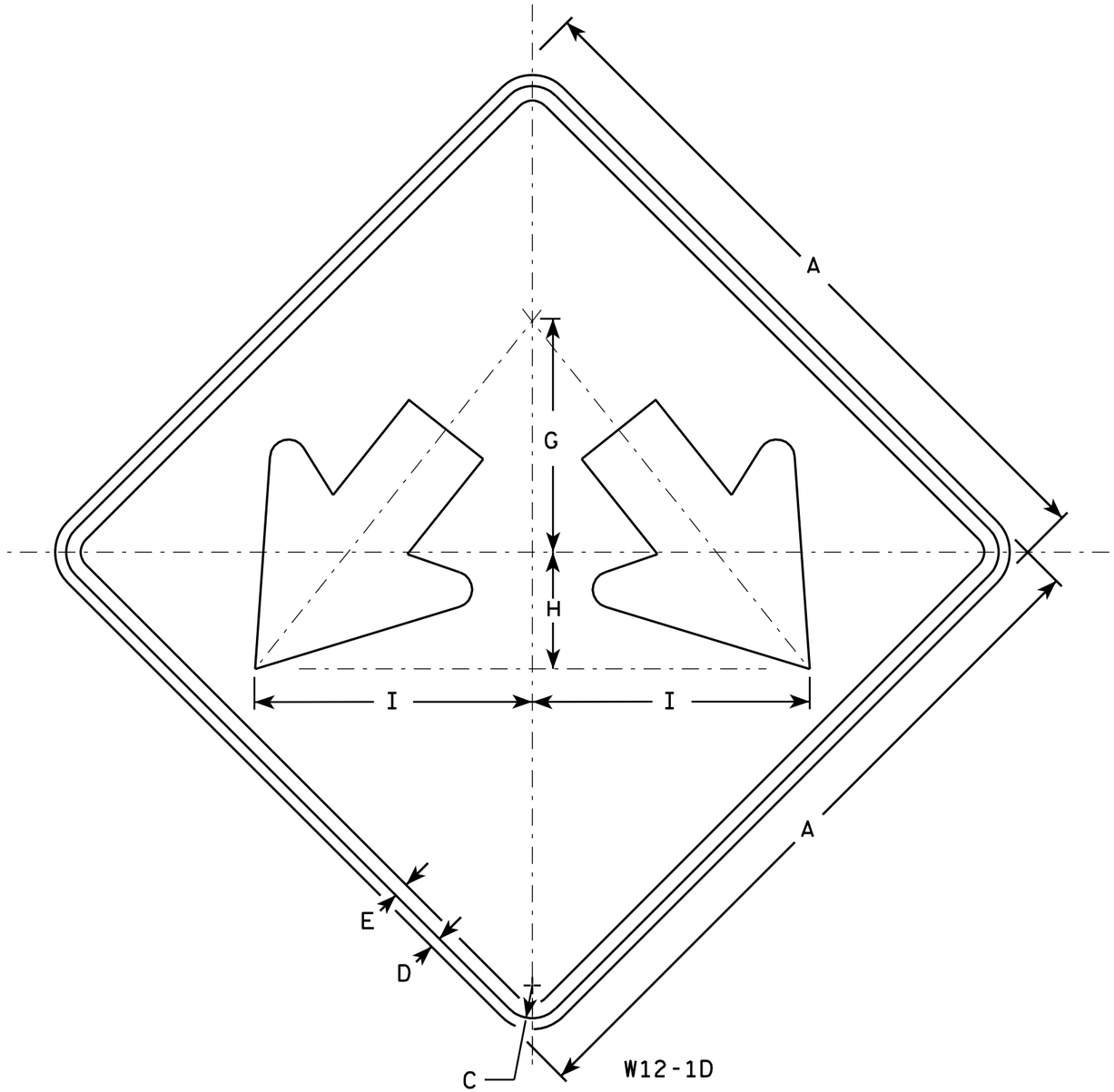
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

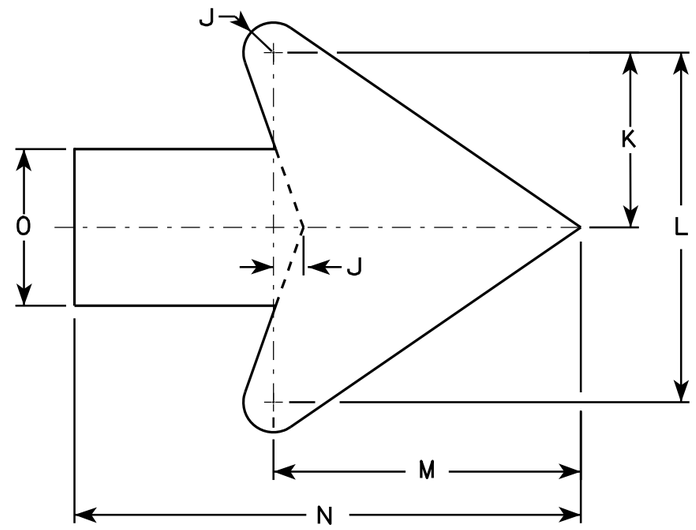
DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 73	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 - 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

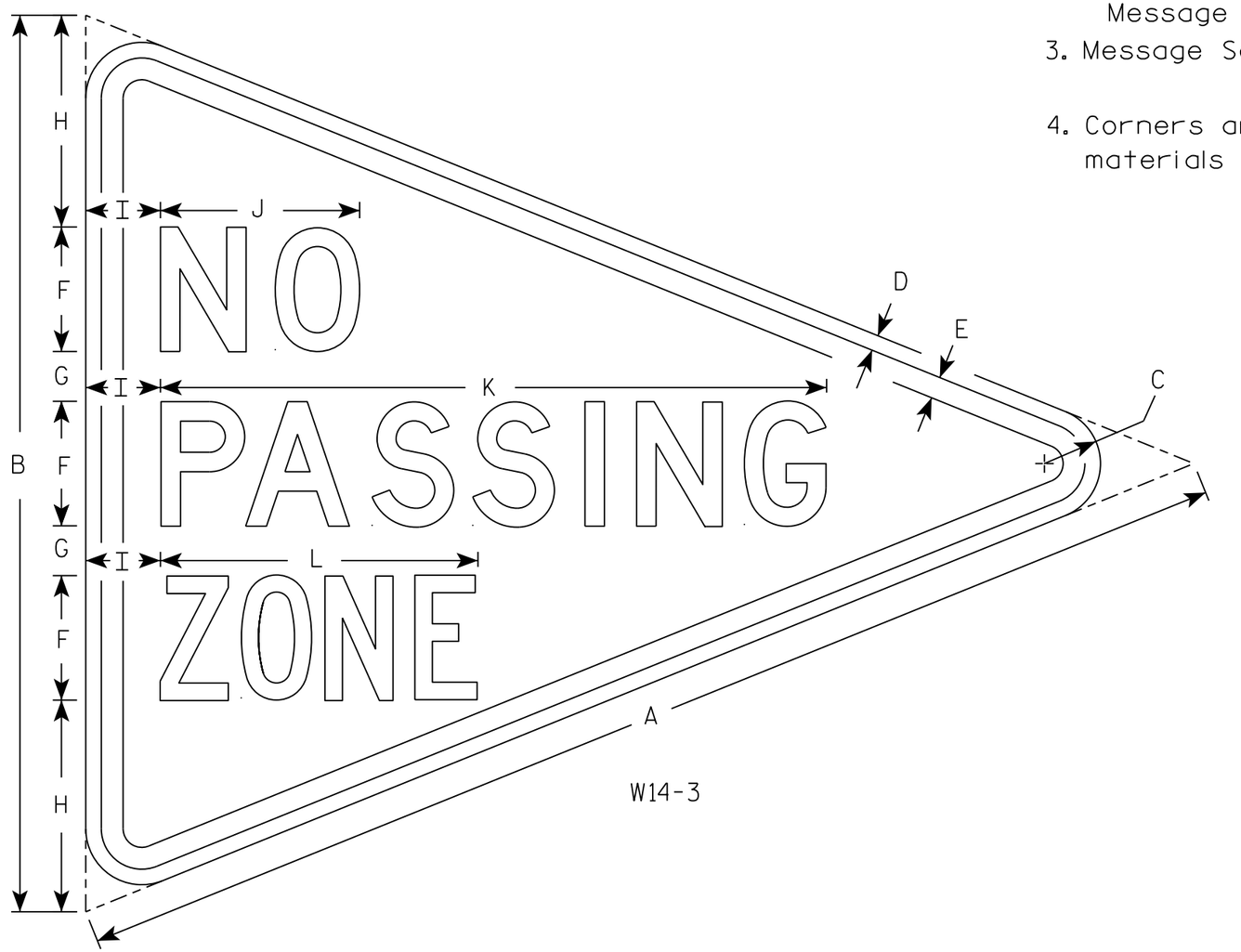
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 74	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

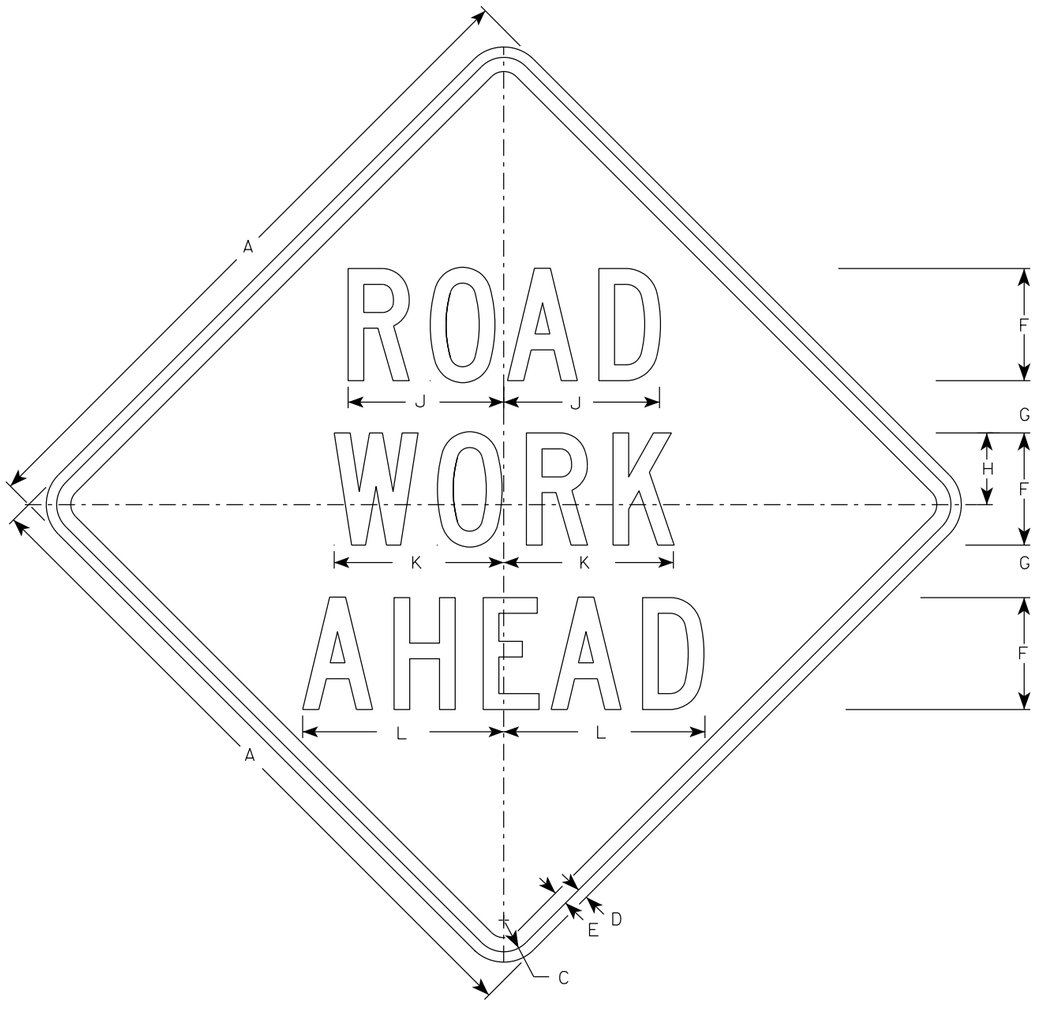
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

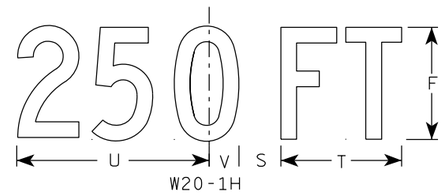
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

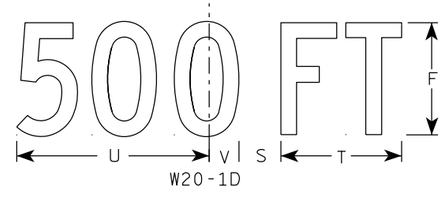
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 75	E



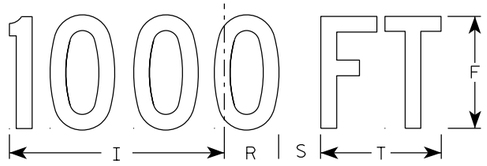
W20-1A



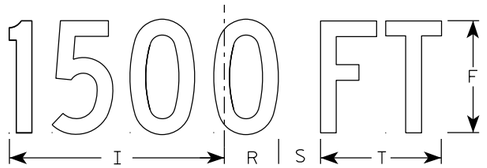
W20-1H



W20-1D



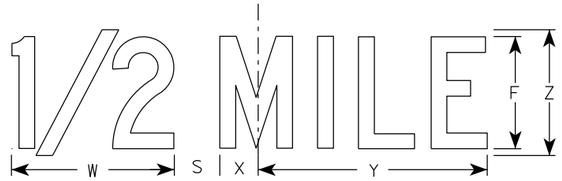
W20-1C



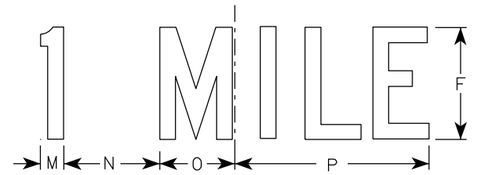
W20-1B

NOTES

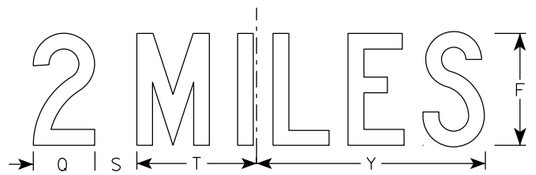
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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:

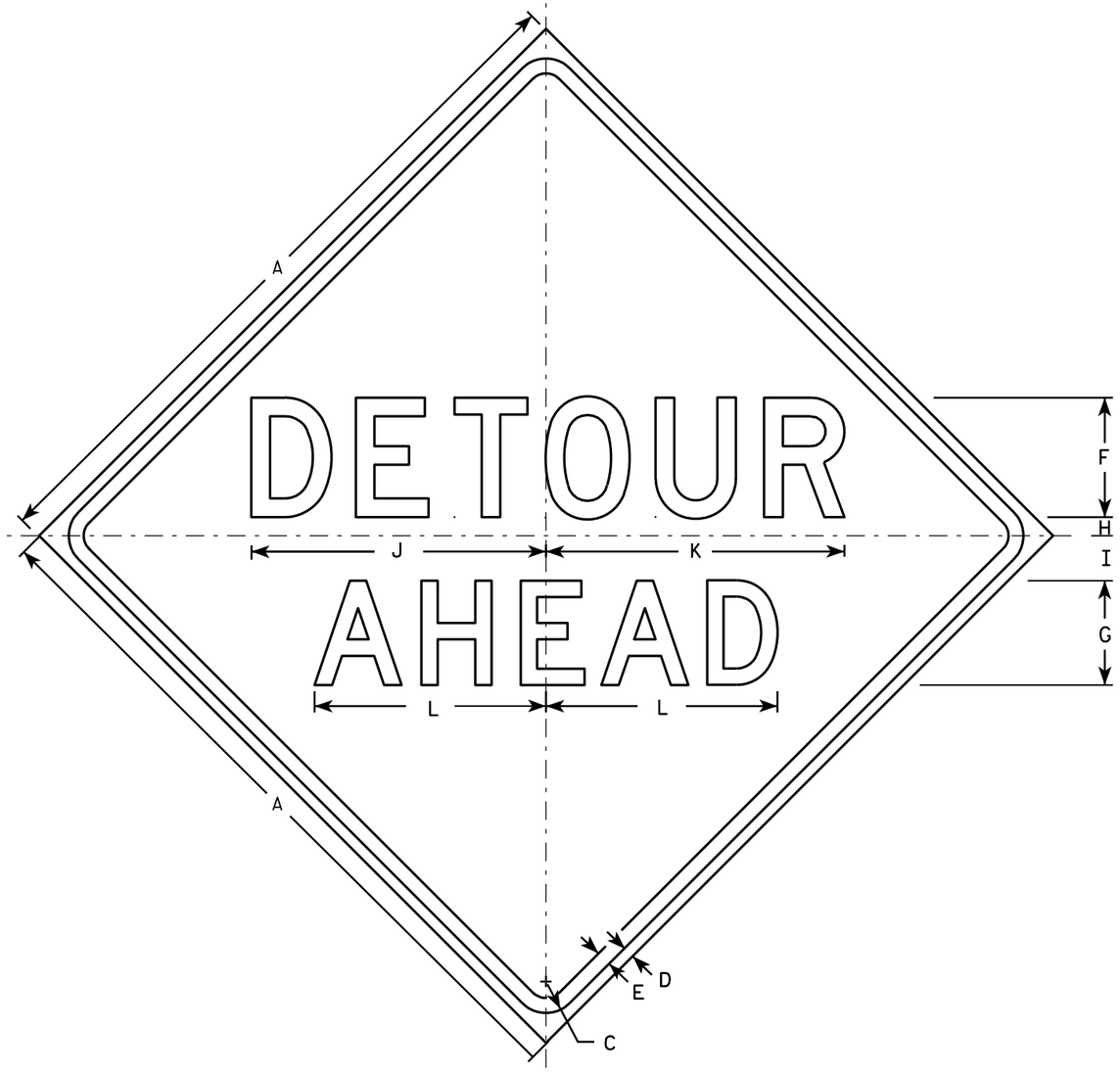
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

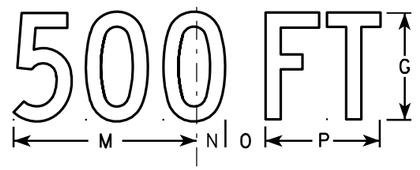
WISDOT/CADDS SHEET 42

7

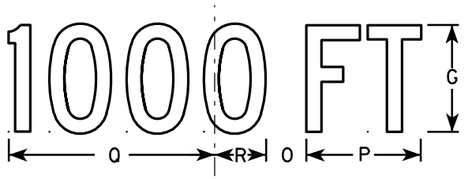
7



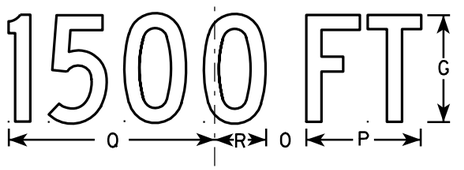
W20-2A



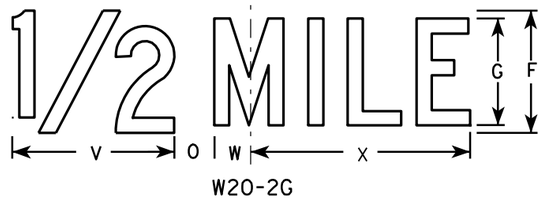
W20-2D



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

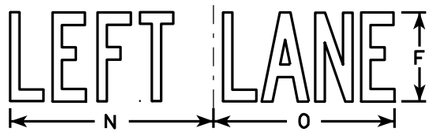
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 77	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

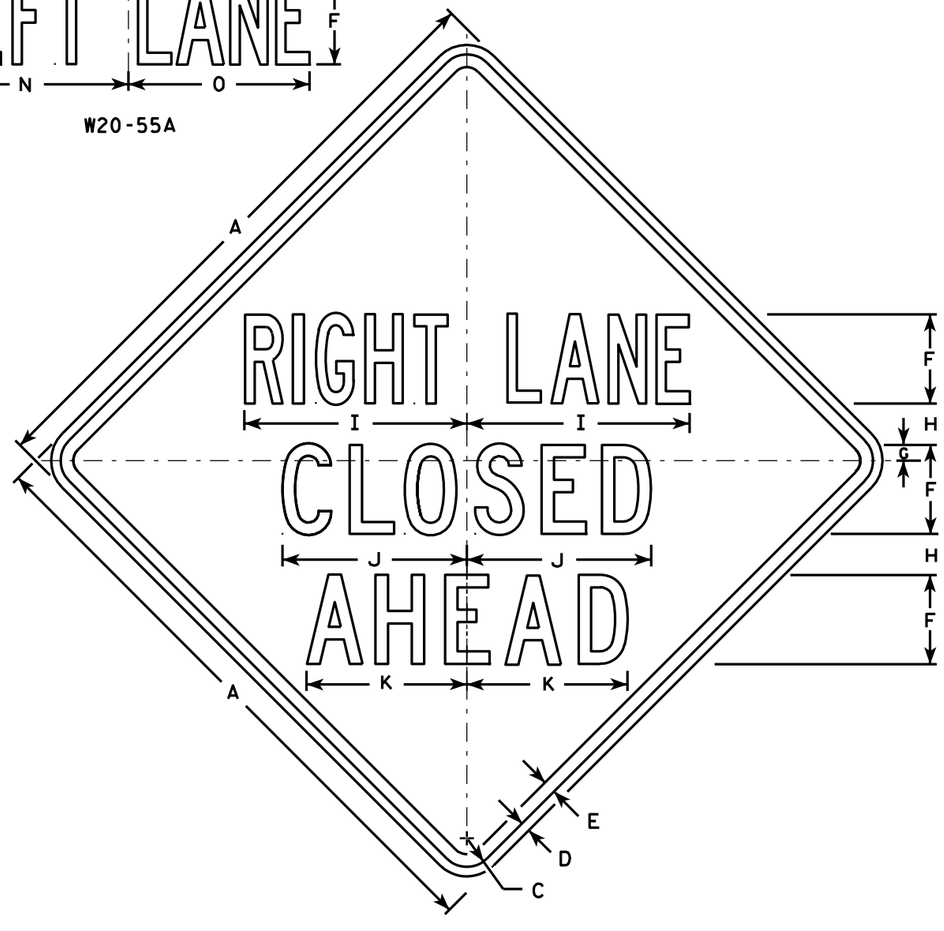
WISDOT/CADDS SHEET 42



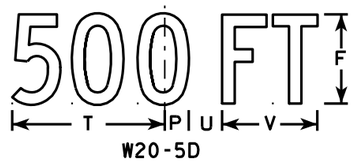
W20-56A



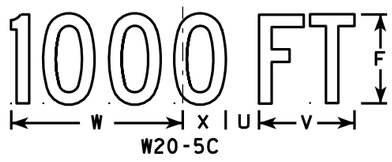
W20-55A



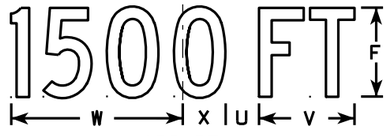
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

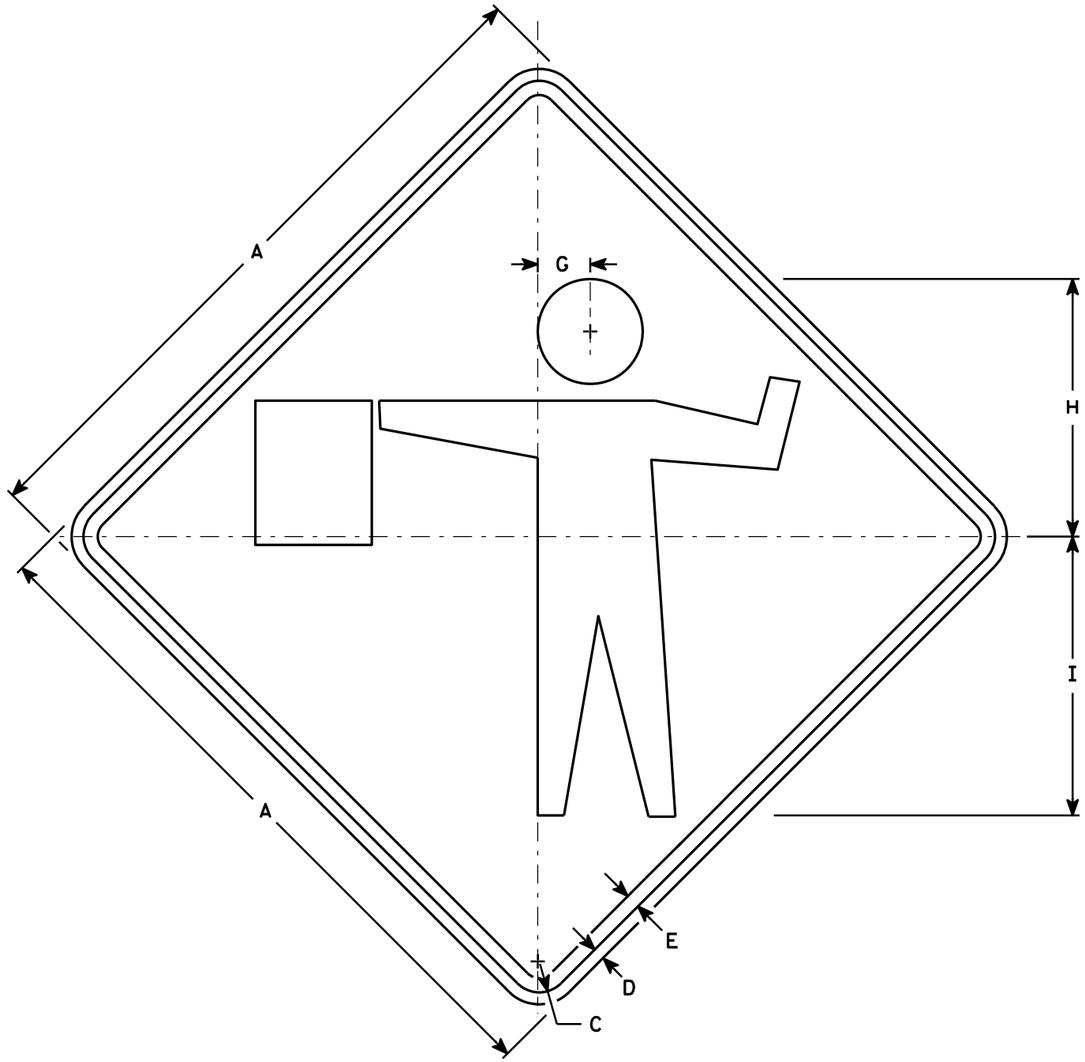
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 78	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



W20-7A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.00
2S	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
3	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
4	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00

STANDARD SIGN
W20-7A

WISCONSIN DEPT OF TRANSPORTATION

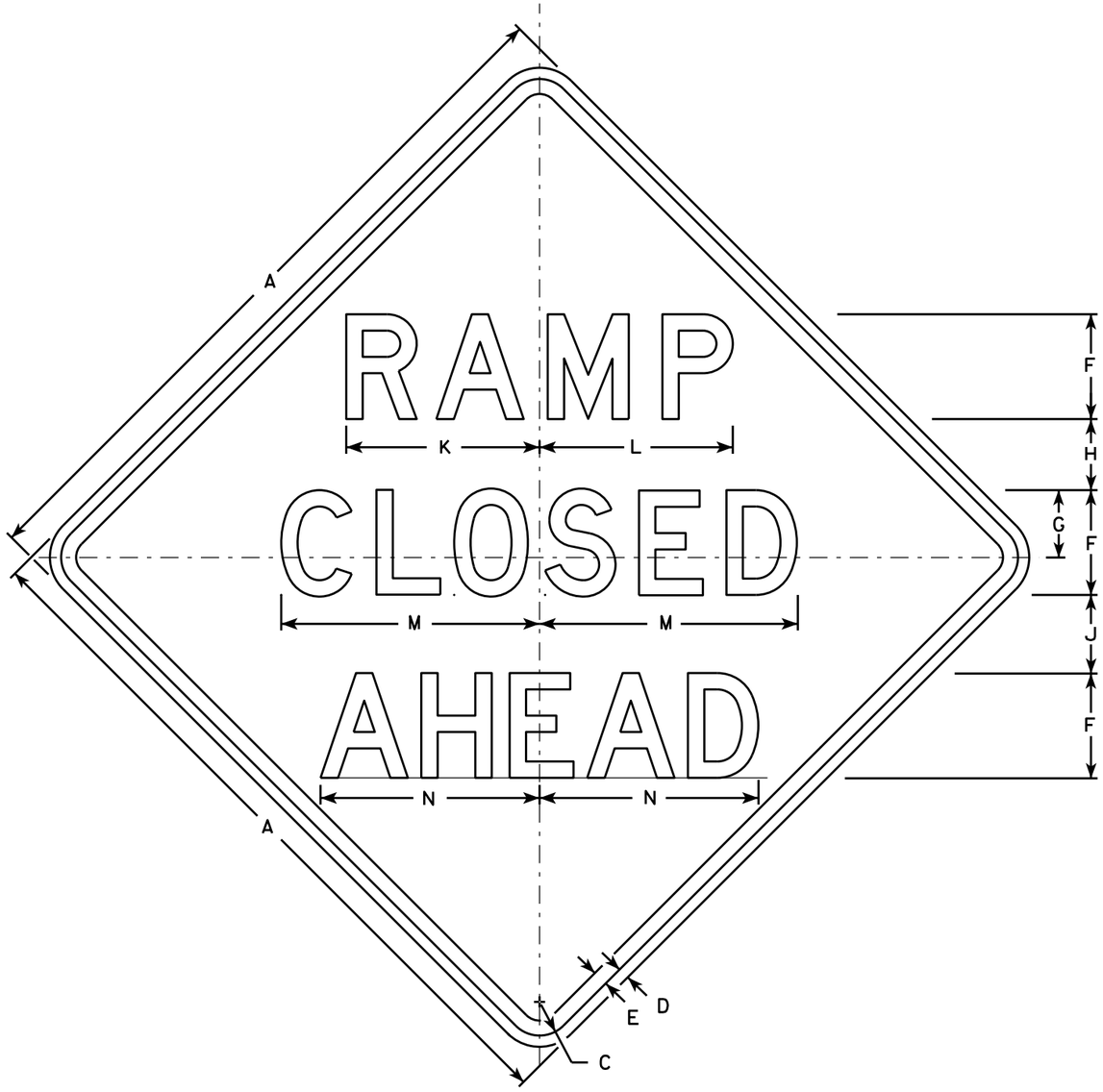
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-7A.5

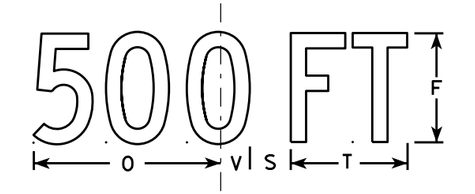
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 79 | E

7

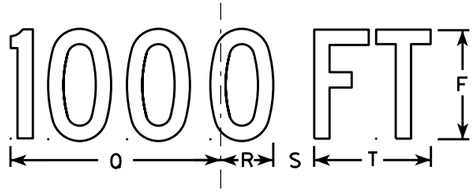
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W207A.DGN PLOT DATE : 18-MAR-2011 13:14 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.945391:1.000000 WISDOT/CADDS SHEET 42



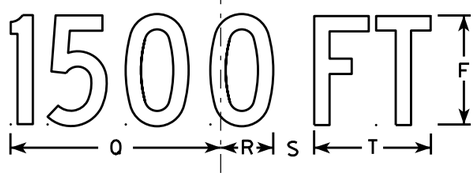
W20-53A



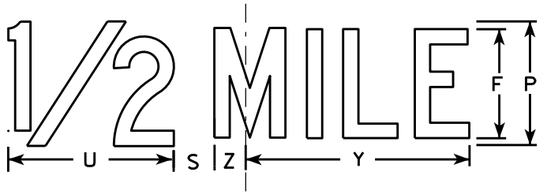
W20-53D



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

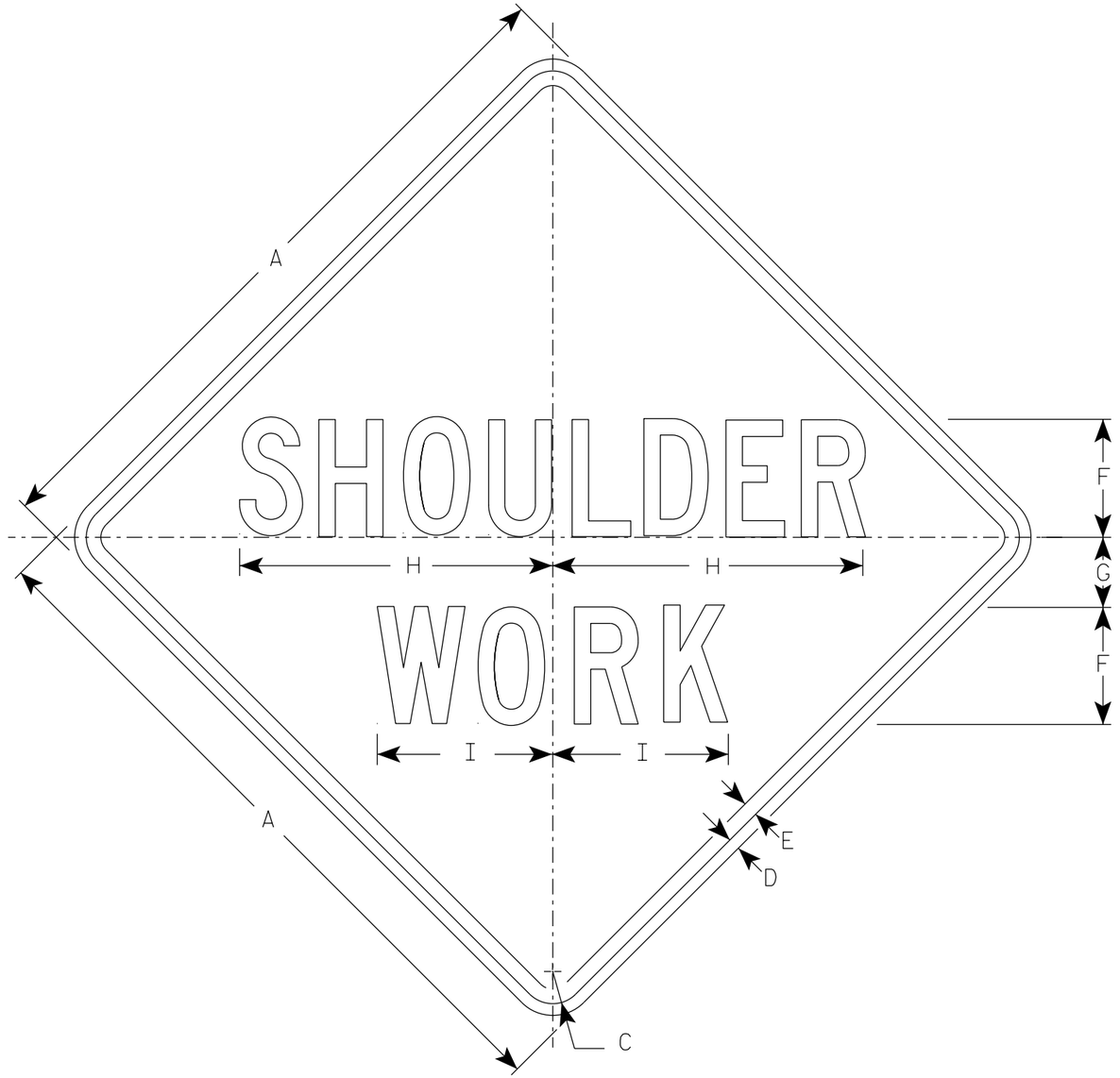
STANDARD SIGN
W20-53A,B,C,D,F,G

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



W21-5

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
2S	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
2M	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
3	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

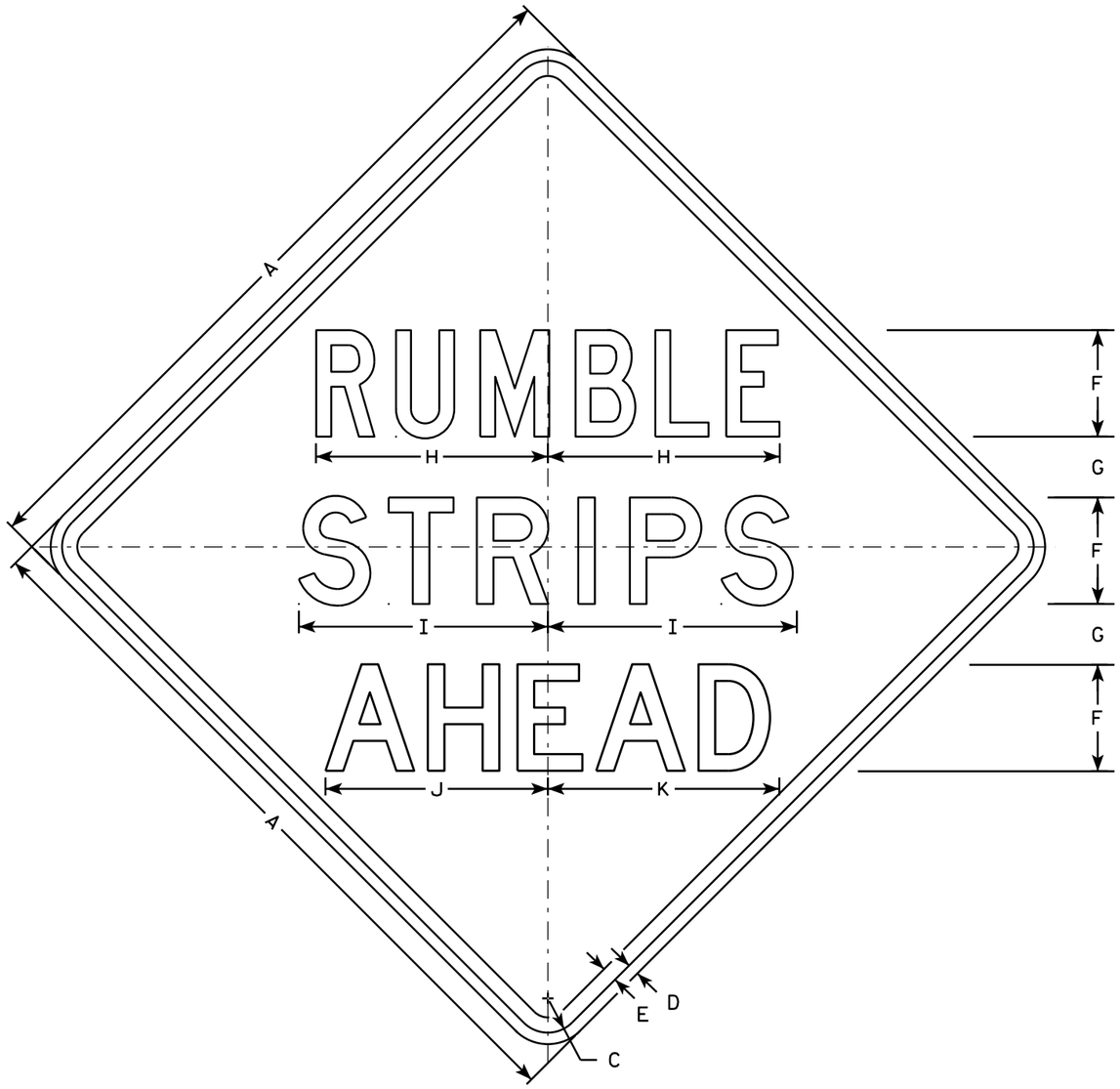
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/30/2020 PLATE NO. W21-5.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 81	E



W21-65

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C
   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	36		1 5/8	5/8	3/4	5	3 1/4	10 7/8	11 5/8	11	11 5/8																9.0
2S	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
2M	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
3	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
4	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
5	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0

STANDARD SIGN

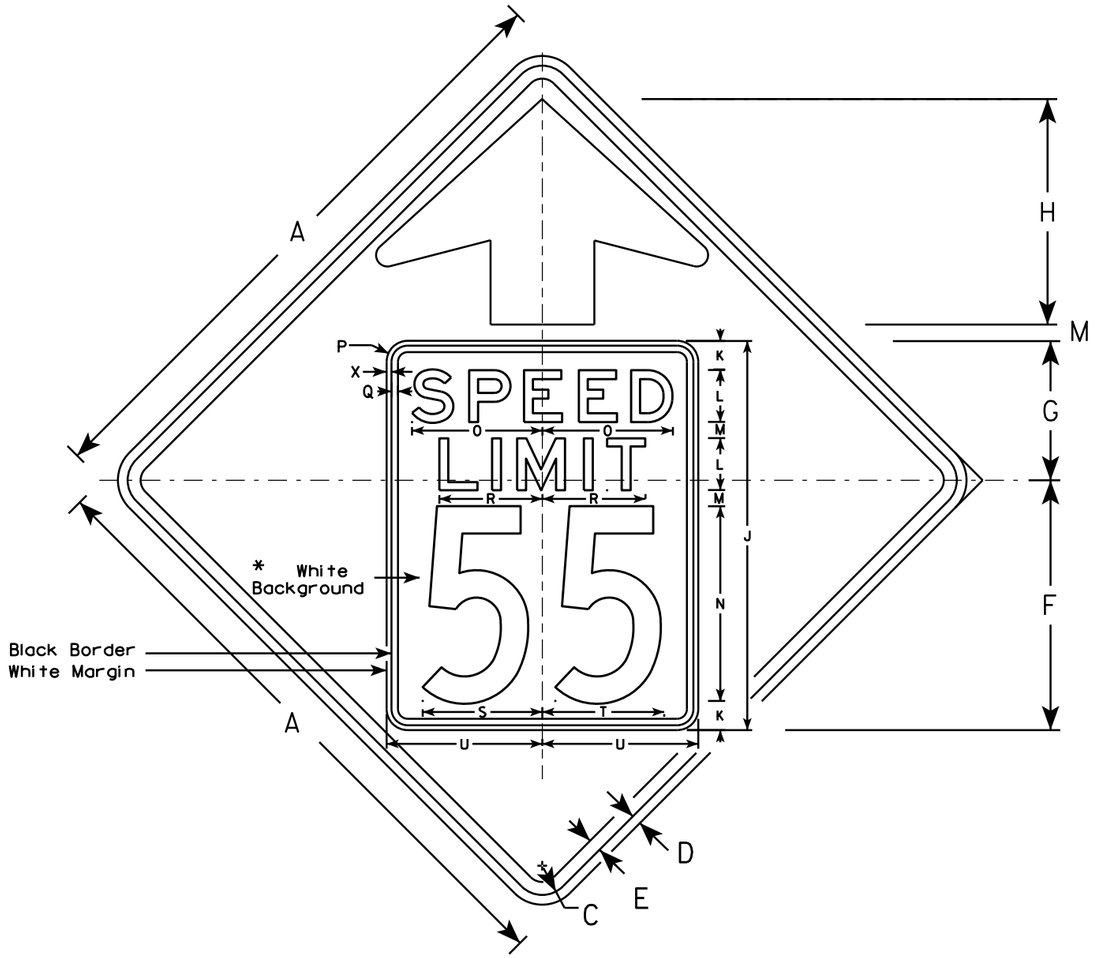
W21-65

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE 82 W21-65.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

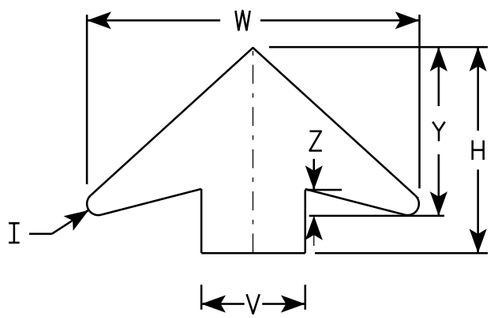


W03-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - ORANGE*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



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	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W03-5

WISCONSIN DEPT OF TRANSPORTATION

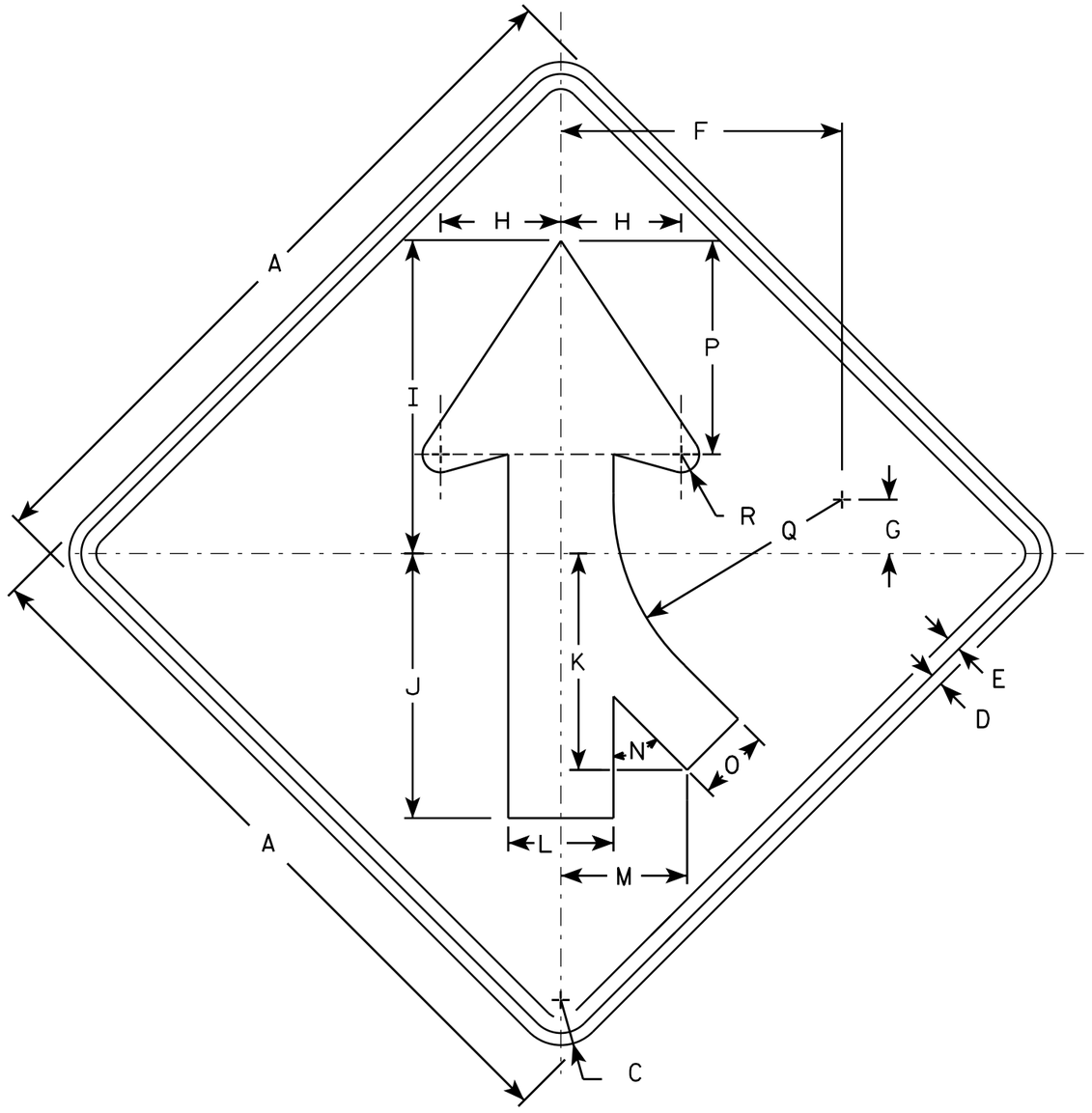
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W03-5.1

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W035.DGN PLOT DATE : 20-NOV-2013 11:32 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



W04-1R

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. W4-1L is the same as W4-1R 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	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2S	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
2M	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
3	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

STANDARD SIGN
W04-1

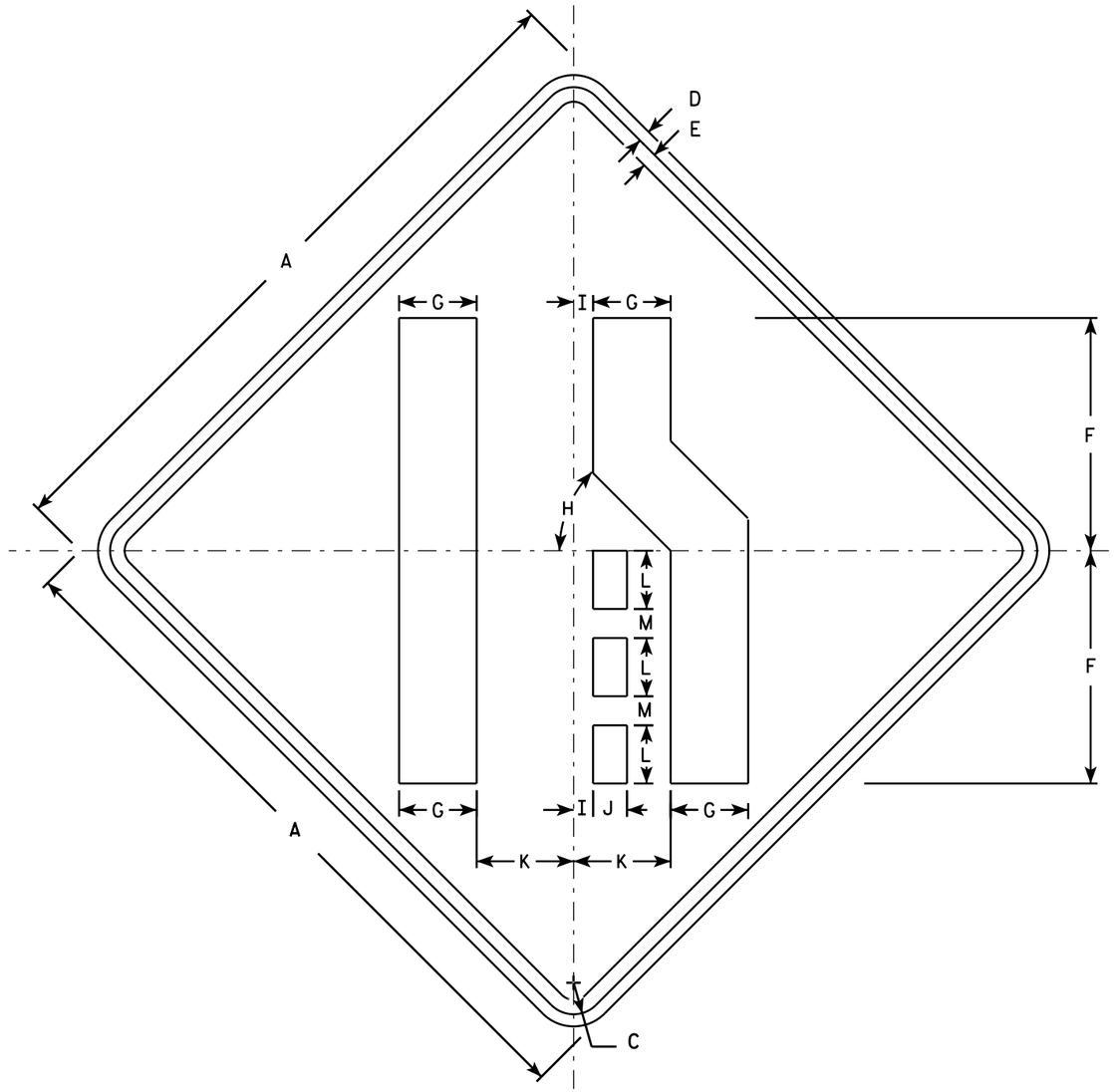
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO W04-1.1

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W041.DGN PLOT DATE : 20-NOV-2013 11:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
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

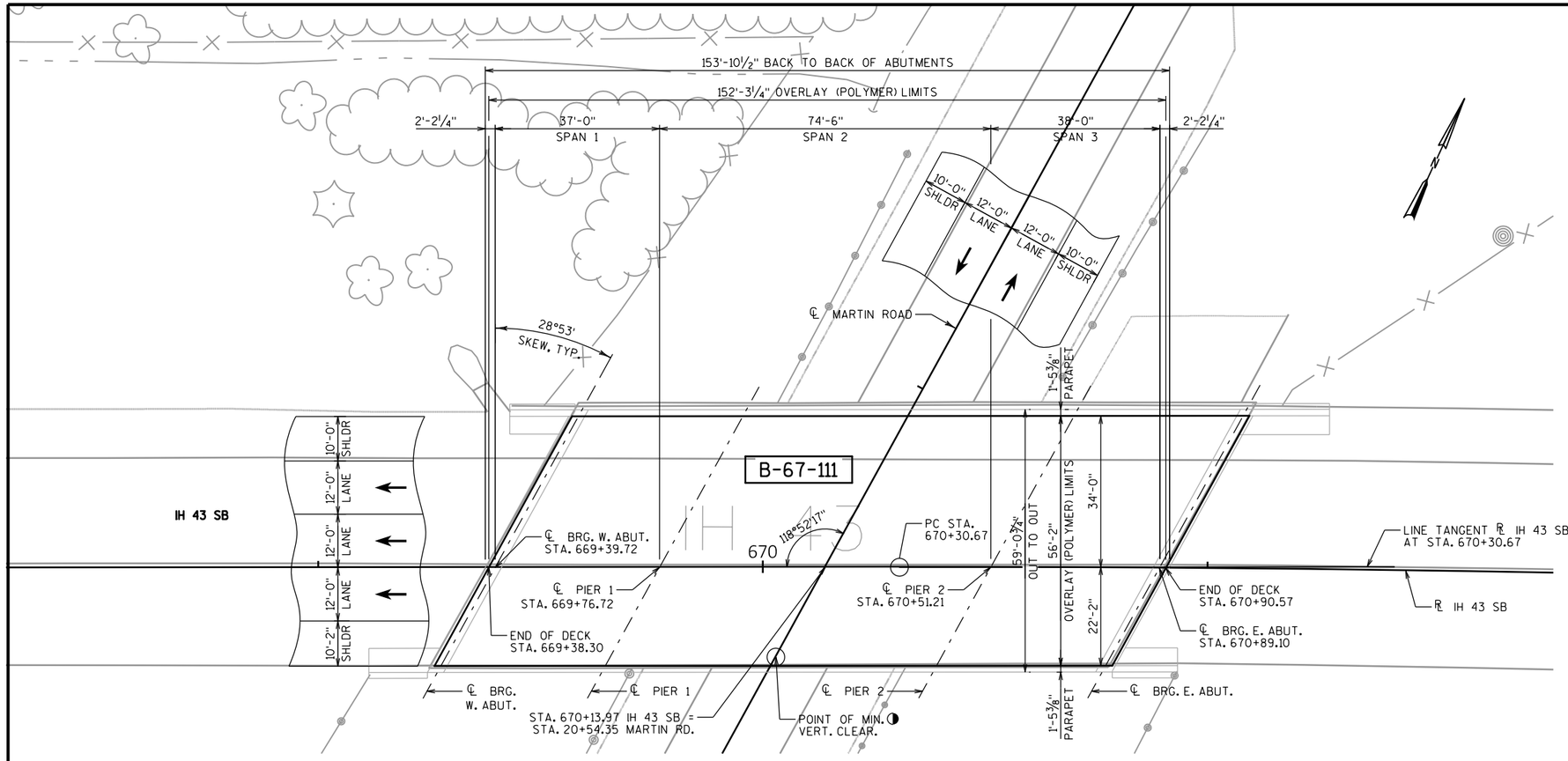
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 85 W04-2.1

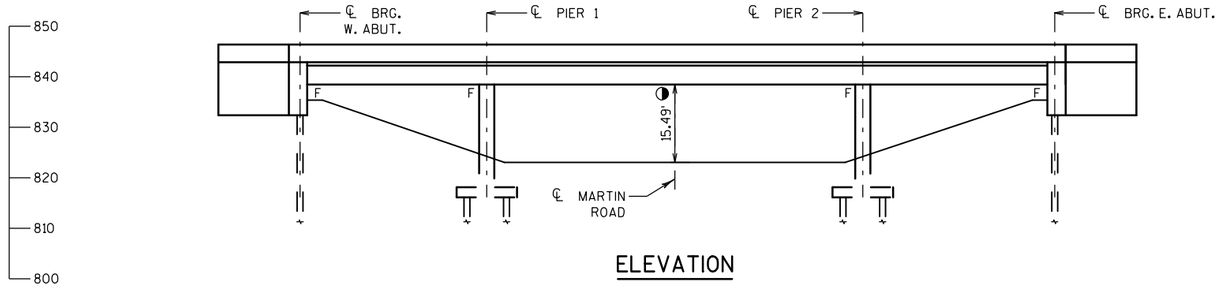
PROJECT NO: | SHEET NO: E

STATE PROJECT NUMBER
1090-35-70



PLAN

(3-SPAN 45"/45W" PRESTRESSED GIRDER)
POLYMER OVERLAY



ELEVATION

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

DESIGN DATA

LIVE LOAD

DESIGN RATING: HS-20
INVENTORY RATING: HS-17
OPERATING RATING: HS-29
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 210 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY - DECK PATCHING f'c = 4,000 PSI

TRAFFIC DATA

IH 43

AADT = 53,000 (2015)
AADT = 55,200 (2022)
AADT = 58,400 (2032)
AADT = 61,500 (2042)
RDS = 70 MPH

MARTIN RD

AADT = 2,000 (2009)
AADT = 2,300 (2022)
AADT = 2,500 (2032)
AADT = 2,800 (2042)
RDS = 35 MPH

LEGEND

→ TRAFFIC DIRECTION

◑ LOCATION PER EXISTING PLANS AND MIN. CLEARANCE TAKEN FROM HSI SYSTEM (10/11/2016)

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN
HEATHER D. ANDERS, P.E.
33441-005
CEDARBURG, WI
PROFESSIONAL ENGINEER
Heather D. Anders
11-27-2019

STRUCTURE B-67-111

IH 43 SB OVER MARTIN ROAD

COUNTY	TOWN/CITY/~~VILLAGE~~
WAUKESHA	NEW BERLIN

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MSS	JWCIII	HDA	JWCIII

GENERAL PLAN & ELEVATION

SHEET 1 OF 2

FILE NAME : I:\66392\b1\B-67-111\cds\111_080101_gp.dgn PLOT DATE : 11/27/2019 11:17:31 AM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 30:1

STATE PROJECT NUMBER
1090-35-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

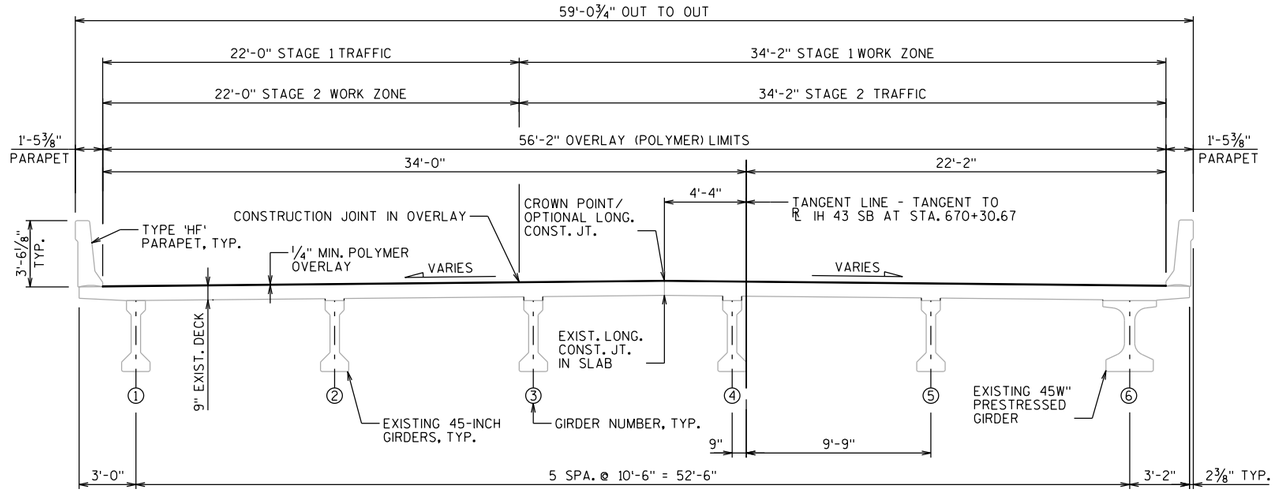
THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

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

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

"PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2" AREAS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD. DECK PREPARATION AREAS SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

SEE ROADWAY PLANS FOR COMPLETE TRAFFIC STAGING PLANS AND INFORMATION.



TYPICAL SECTION

(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	38
509.0302	PREPARATION DECKS TYPE 2	SY	15
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	30
509.5100.S	POLYMER OVERLAY	SY	951
SPV.0035.4000	RAPID SET DECK REPAIR	CY	3

ALL ITEMS ARE CATEGORY 2110

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-111

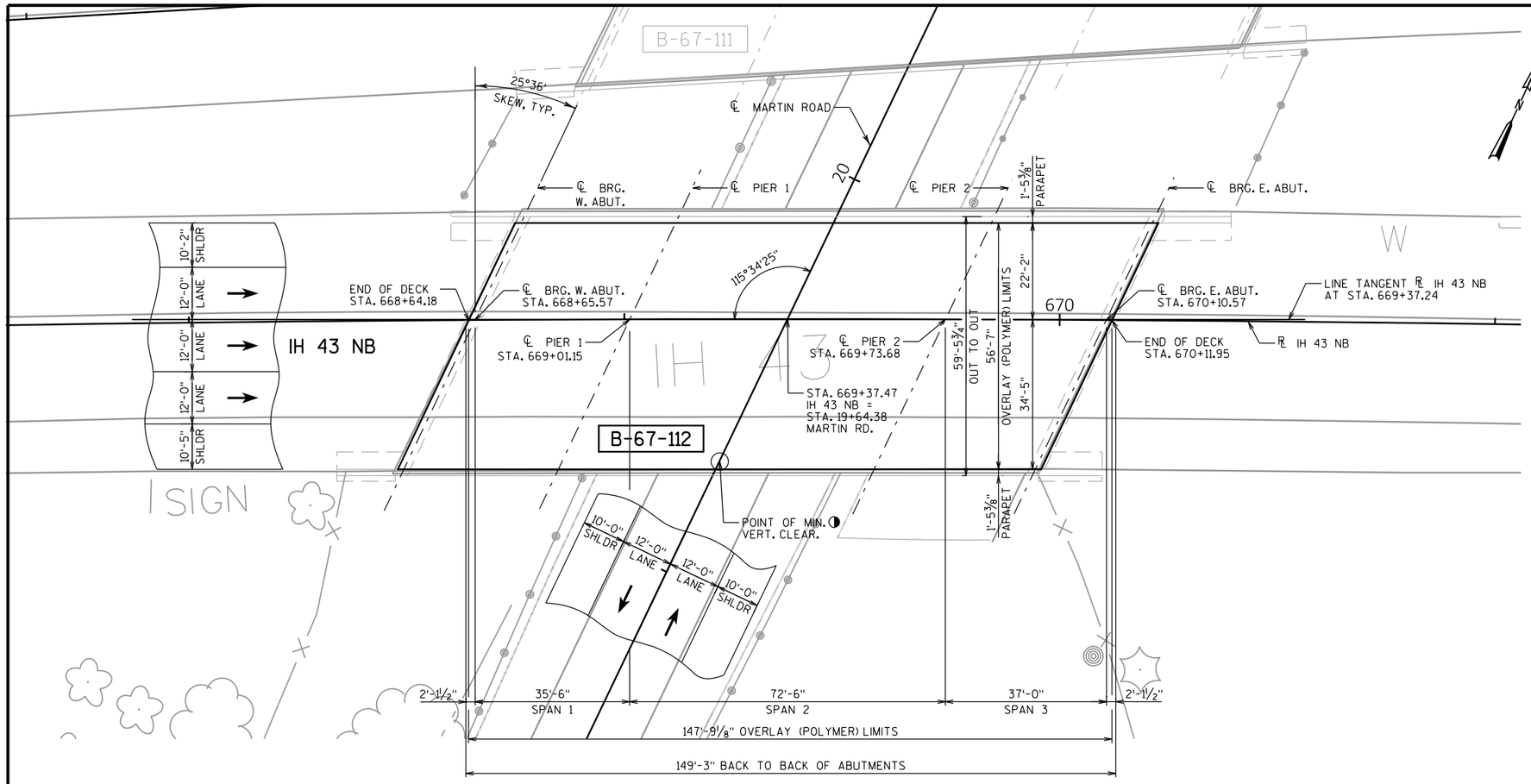
DRAWN BY HDA | PLANS CK'D. JWCIII

TYPICAL SECTION, GENERAL NOTES & QUANTITIES

SHEET 2 OF 2

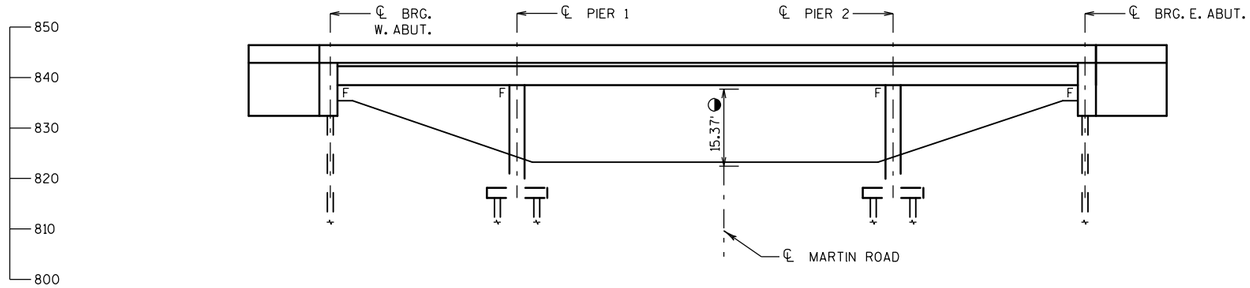
FILE NAME : \\milw00\ingrproj\66392\b1\B-67-111\cds\111_080102_typ.dgn PLOT DATE : 11/26/2019 10:45:42 AM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 8:1

STATE PROJECT NUMBER
1090-35-70



PLAN

(3-SPAN 45"/45W" PRESTRESSED GIRDER)
POLYMER OVERLAY



ELEVATION

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

DESIGN DATA

LIVE LOAD

DESIGN RATING: HS-20
INVENTORY RATING: HS-17
OPERATING RATING: HS-29
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 220 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY - DECK PATCHING f'c = 4,000 PSI

TRAFFIC DATA

IH 43

AADT = 53,000 (2015)
AADT = 55,200 (2022)
AADT = 58,400 (2032)
AADT = 61,500 (2042)
RDS = 70 MPH

MARTIN RD

AADT = 2,000 (2009)
AADT = 2,300 (2022)
AADT = 2,500 (2032)
AADT = 2,800 (2042)
RDS = 35 MPH

LEGEND

→ TRAFFIC DIRECTION

◑ LOCATION PER EXISTING PLANS AND MIN. CLEARANCE TAKEN FROM HSI SYSTEM (10/11/2016)

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/20/20
CHIEF STRUCTURES DESIGN ENGINEER — DATE

WISCONSIN HEATHER D. ANDERS, P.E. 33441-005 CEDARBURG, WI PROFESSIONAL ENGINEER
Heather D. Anders
11-27-2019

STRUCTURE B-67-112

IH 43 NB OVER MARTIN ROAD

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
WAUKESHA	NEW BERLIN

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MSS	JWCIII	HDA	JWCIII

GENERAL PLAN & ELEVATION

SHEET 1 OF 2

FILE NAME : \\milw00\ingrproj\66392\b1\B-67-112\cds\112_080101_gp.dgn PLOT DATE : 11/25/2019 7:00:43 PM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 30:1

STATE PROJECT NUMBER
1090-35-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

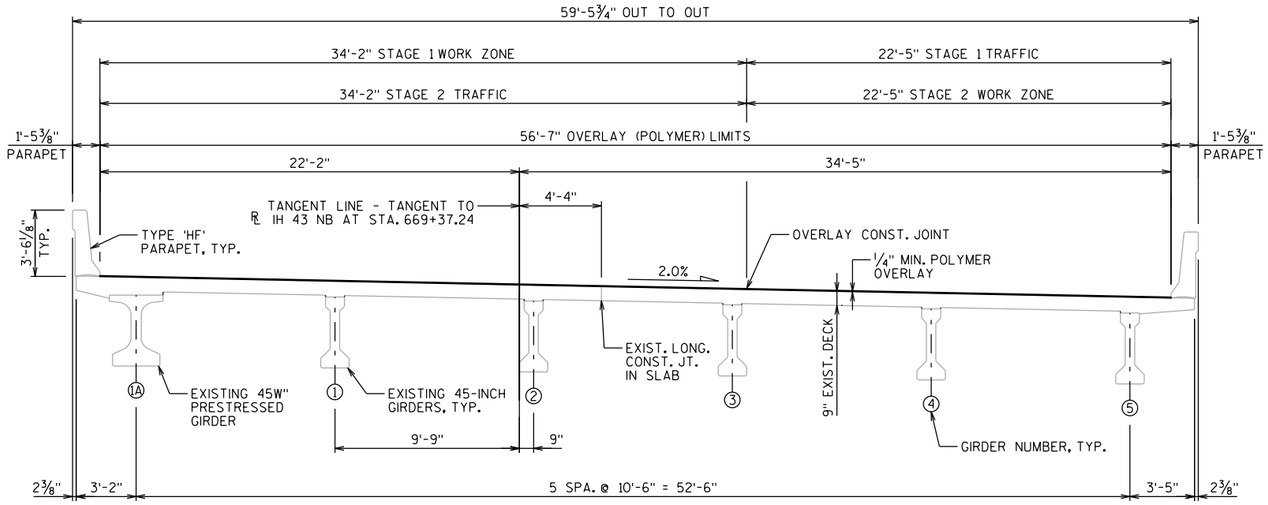
DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

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

"PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2" AREAS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD. DECK PREPARATION AREAS SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR WILL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

SEE ROADWAY PLANS FOR COMPLETE TRAFFIC STAGING PLANS AND INFORMATION.



TYPICAL SECTION

(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	28
509.0302	PREPARATION DECKS TYPE 2	SY	11
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	20
509.1500	CONCRETE SURFACE REPAIR	SF	15
509.5100.S	POLYMER OVERLAY	SY	929
SPV.0035.4000	RAPID SET DECK REPAIR	CY	3

ALL ITEMS ARE CATEGORY 2120

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-112

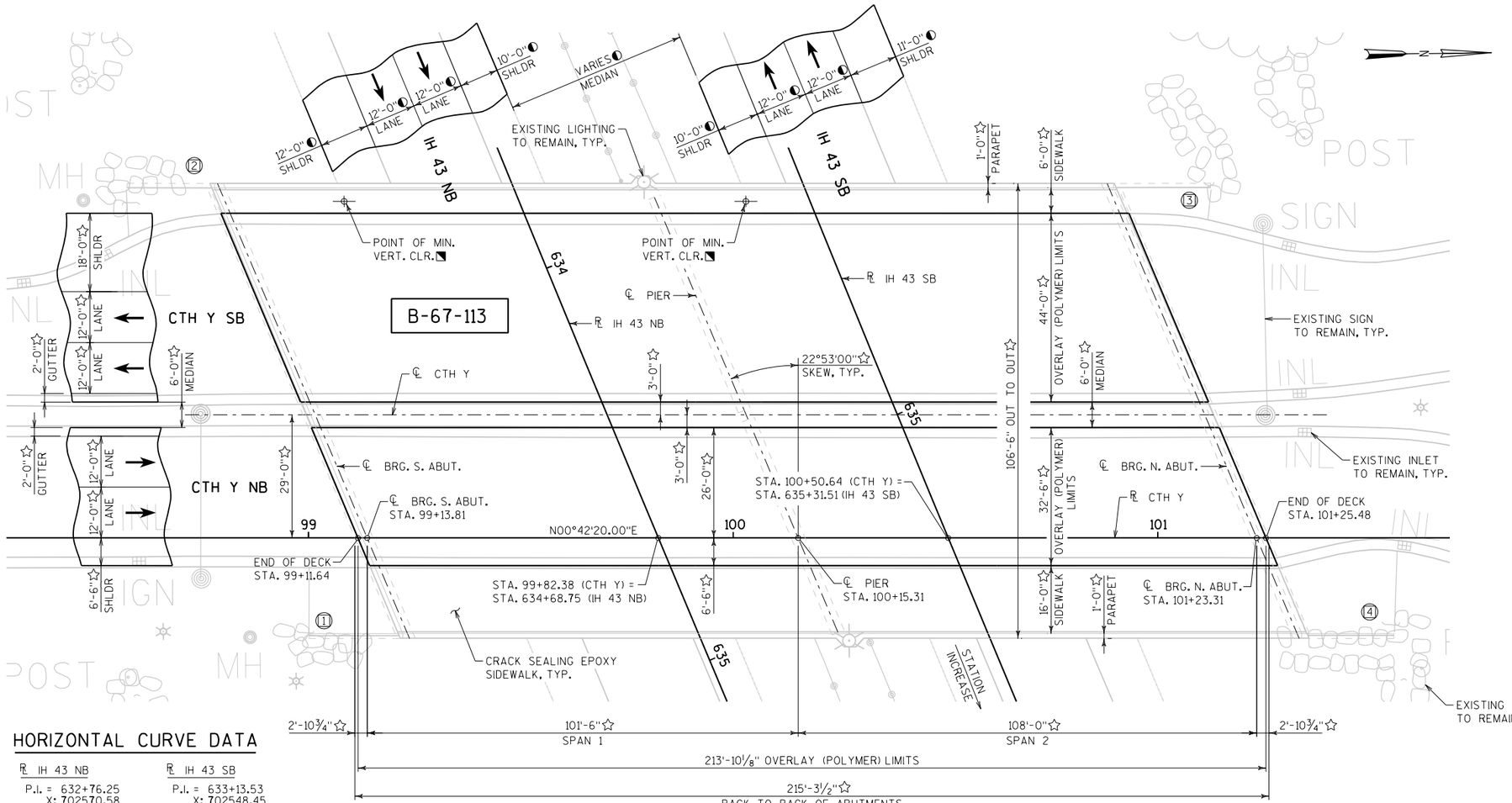
DRAWN BY HDA | PLANS CK'D. JWCIII

TYPICAL SECTION, GENERAL NOTES & QUANTITIES

SHEET 2 OF 2

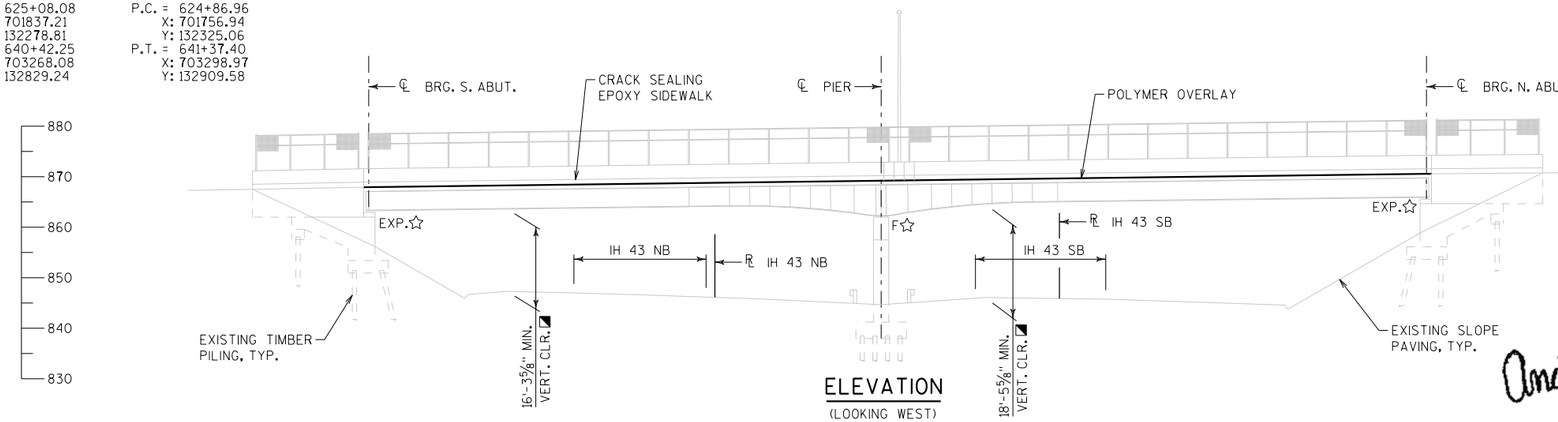
FILE NAME : \\milw00\ingrproj\66392\b1\B-67-112\cds\112_080102_typ.dgn PLOT DATE : 11/25/2019 7:00:45 PM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 8:1

STATE PROJECT NUMBER
1090-35-70



PLAN

(2-SPAN HAUNCHED STEEL PLATE GIRDER)
(POLYMER OVERLAY)



ELEVATION

(LOOKING WEST)

HORIZONTAL CURVE DATA

℄ IH 43 NB		℄ IH 43 SB	
P.I. =	632+76.25	P.I. =	633+13.53
X:	702570.58	X:	702548.45
Y:	132507.40	Y:	132563.27
Δ =	7°27'28.67"	Δ =	8°01'12.73"
D =	0°29'10.04"	D =	0°29'09.40"
T =	768.17'	T =	826.57'
L =	1534.17'	L =	1650.44'
R =	11786.26'	R =	11790.63'
P.C. =	625+08.08	P.C. =	624+86.96
X:	701837.21	X:	701756.94
Y:	132278.81	Y:	132325.06
P.T. =	640+42.25	P.T. =	641+37.40
X:	703268.08	X:	703298.97
Y:	132829.24	Y:	132909.58

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS-20
INVENTORY RATING: HS-15
OPERATING RATING: HS-24
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 150 KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY.....f'c = 4,000 psi

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

LEGEND

- → DIRECTION OF TRAFFIC
- ☆ DIMENSIONS TAKEN FROM ORIGINAL STRUCTURE PLANS
- ◐ DIMENSIONS TAKEN FROM EXISTING SURVEY
- ◥ DIMENSION AND LOCATION TAKEN FROM THE INSPECTION REPORT DATED SEPTEMBER 4, 2018
- (X) WINGWALL NUMBER

TRAFFIC DATA

IH 43	CTH Y
AADT = 53,000 (2015)	AADT = 17,100 (2015)
AADT = 55,200 (2022)	AADT = 18,700 (2022)
AADT = 58,400 (2032)	AADT = 20,900 (2032)
AADT = 61,500 (2042)	AADT = 23,000 (2042)
RDS = 70 MPH	RDS = 40 MPH

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/11/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN
ANDREW J. ASCHENBRENNER
E-45272-6
RACINE
WISCONSIN
PROFESSIONAL ENGINEER

Andrew Aschenbrenner
1/31/2020

STRUCTURE B-67-113

CTH Y OVER IH 43

COUNTY	CITY
WAUKESHA	NEW BERLIN

DESIGN SPEC. REHABILITATION N/A

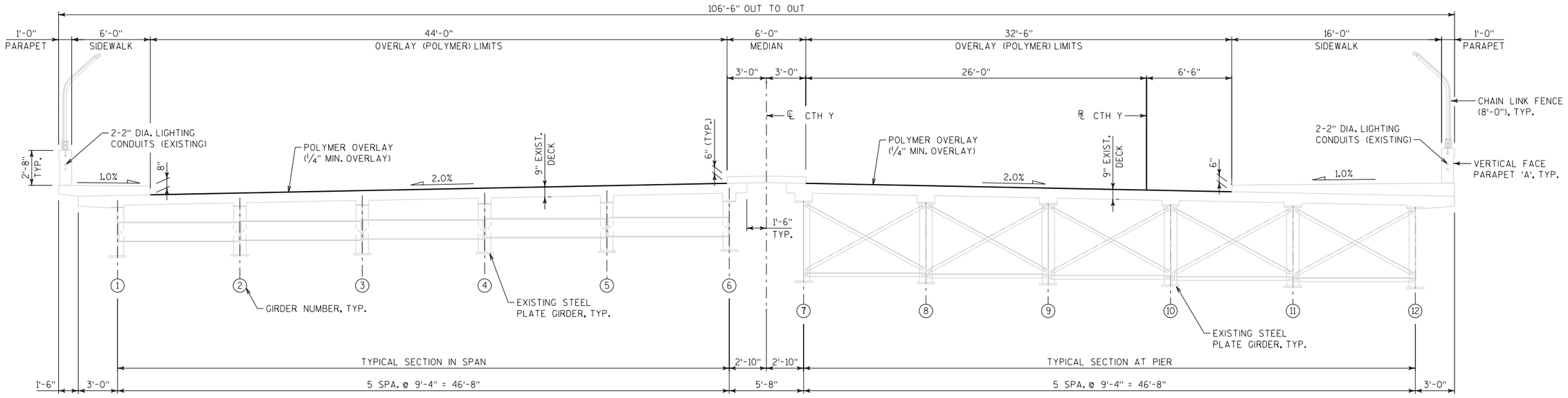
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	MM	MHZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 2

FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-113\cds\B113_080101_gp.dgn PLOT DATE : 1/31/2020 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:30

STATE PROJECT NUMBER
1090-35-70



TYPICAL SECTION

(LOOKING NORTH)
(DIMENSIONS & CROSS SLOPES BASED ON THE ORIGINAL STRUCTURE PLANS)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (2012).

THE UTILITY 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 AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

"PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. QUANTITIES FOR THESE BID ITEMS ARE APPROXIMATE. PREPARATION DECKS TYPE 1 AND TYPE 2 SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

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

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS IN THE SIDEWALKS WITH "CRACK SEALING EPOXY SIDEWALK" AS DIRECTED BY THE FIELD ENGINEER.

BRIDGE TO BE CLOSED DURING CONSTRUCTION. SEE ROADWAY PLANS.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE BID ITEMS ARE APPROXIMATE.
-PREPARATION DECKS TYPE 1
-PREPARATION DECKS TYPE 2
-SAWING PAVEMENT DECK PREPARATION AREAS
-RAPID SET DECK REPAIR
-CRACK SEALING EPOXY SIDEWALK

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	SUPER.	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	15	15
509.0302	PREPARATION DECKS TYPE 2	SY	6	6
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	75	75
509.5100.S	POLYMER OVERLAY	SY	1,817	1,817
SPV.0035.4000	RAPID SET DECK REPAIR	CY	2	2
SPV.0090.4000	CRACK SEALING EPOXY SIDEWALK	LF	50	50

ALL ITEMS ARE CATEGORY 2130

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-113

DRAWN BY AJA | PLANS CK'D. MHZ

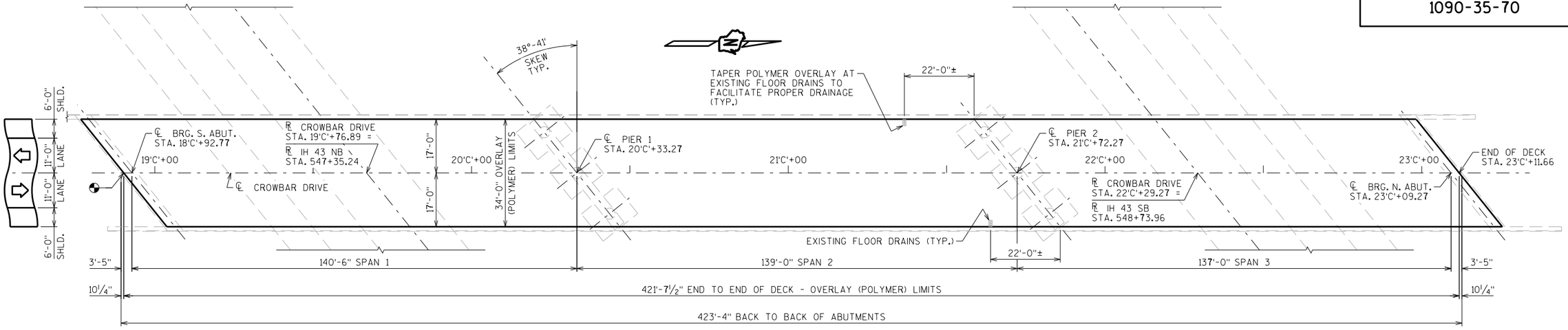
TYPICAL SECTION, GENERAL NOTES & QUANTITIES

SHEET 2 OF 2

FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-113\cds\B113_080102_gn.dgn PLOT DATE : 1/31/2020 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:8

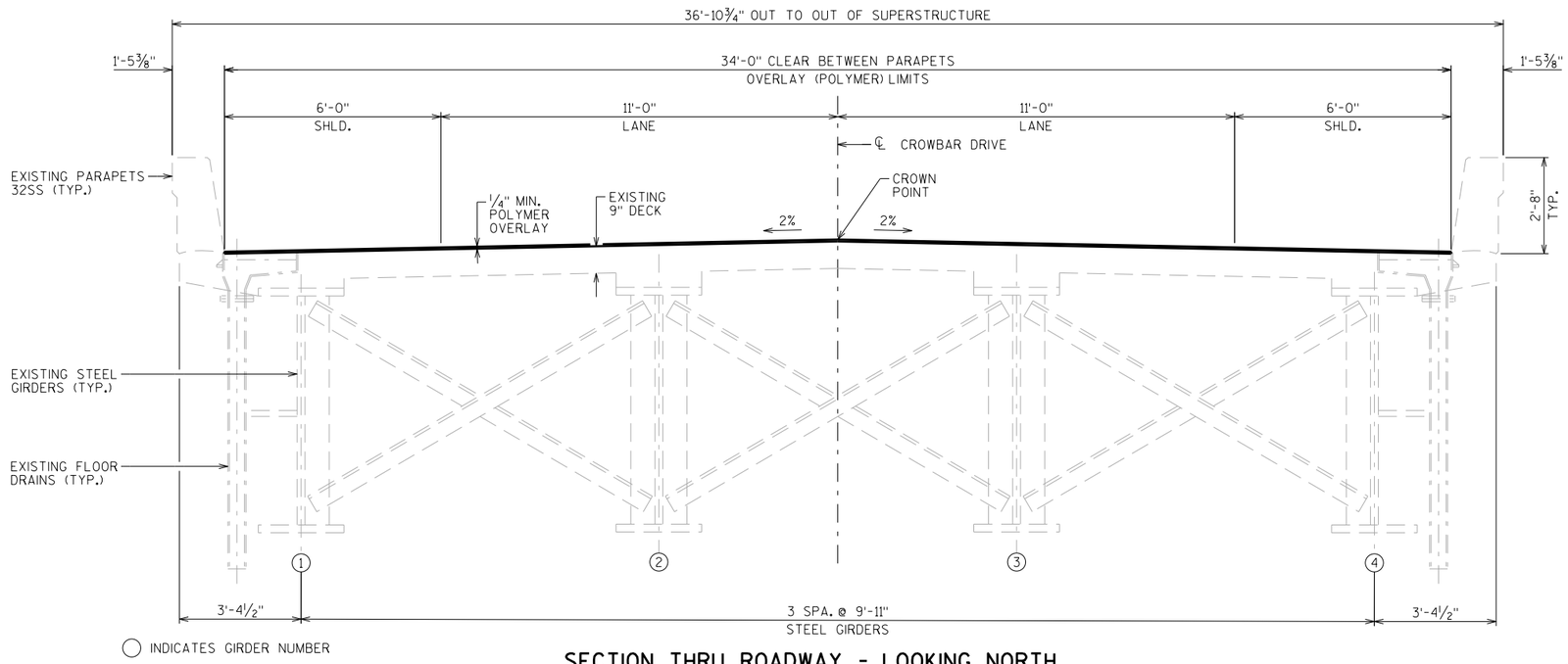
STATE PROJECT NUMBER

1090-35-70



◔ = END OF DECK STA. 18'C'+90.21

PLAN



◯ INDICATES GIRDER NUMBER

SECTION THRU ROADWAY - LOOKING NORTH

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-19
OPERATING RATING: HS- 33
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

NOTES

DRAWINGS SHALL NOT BE SCALED.

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

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
509.5100.S	POLYMER OVERLAY	SY	1,593

LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 2/10/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-114

CROWBAR DRIVE OVER IH 43

COUNTY	CITY
WAUKESHA	NEW BERLIN

DESIGN SPEC. REHABILATATION N/A

DESIGNED BY	DESIGNED CK'D.RATINGS	DRAWN BY	PLANS CK'D.
SEW		DDS	SEW

POLYMER OVERLAY

SHEET 1 OF 1

92

I.D. 1090-08-02A

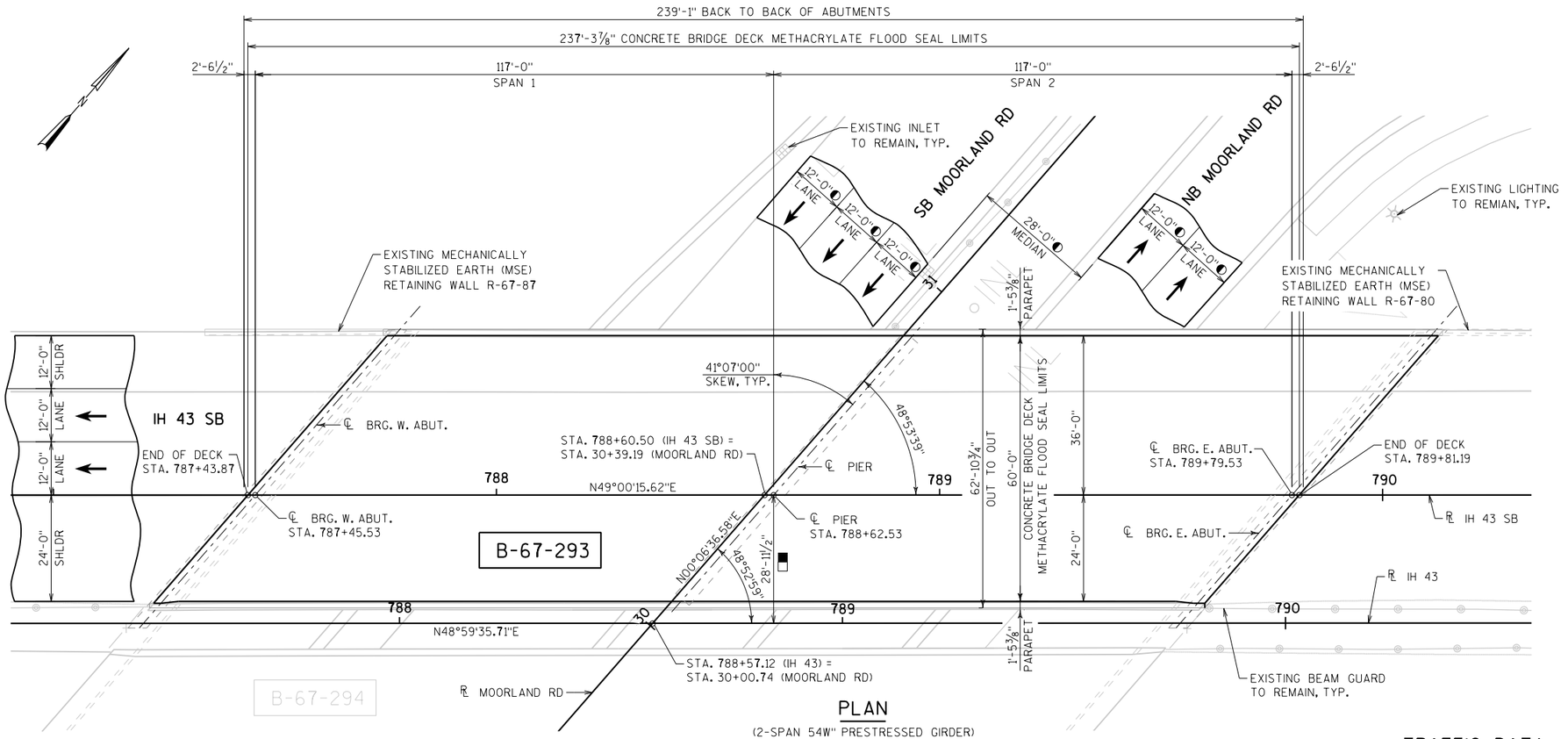
DATE: SEPT. 2019

SCALE = 16.00

8

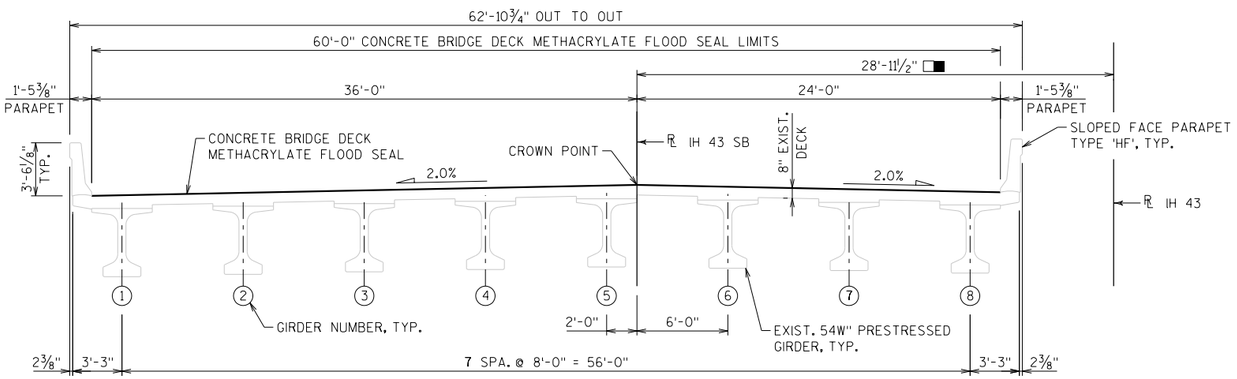
8

STATE PROJECT NUMBER
1090-35-70



PLAN

(2-SPAN 54W" PRESTRESSED GIRDER)
(CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL)



TYPICAL SECTION

(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	STAGE 1	STAGE 2	TOTAL
SPV.0180.4000	CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL	SY	1,002	580	1,582

ALL ITEMS ARE CATEGORY 2150

LEGEND

- → DIRECTION OF TRAFFIC
- ◐ DIMENSIONS TAKEN FROM EXISTING SURVEY
- ◭ EXISTING RATING DATA TAKEN FROM HSI NOVEMBER 6, 2019 (RATING DATED JUNE 7, 2013)
- ■ DIMENSION TAKEN AT ℄ PIER MEASURED NORMAL TO ℛ

DESIGN DATA ◭

LIVE LOAD:
DESIGN LOADING: HS-25
INVENTORY RATING: HS-17
OPERATING RATING: HS-32
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE UTILITY 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 AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL".

SEE ROADWAY PLANS FOR TRAFFIC STAGING.

LIST OF DRAWINGS

1. GENERAL PLAN & TYPICAL SECTION
2. CONSTRUCTION STAGING

TRAFFIC DATA

IH 43	MOORLAND RD
AADT = 73,200 (2015)	AADT = 25,500 (2015)
AADT = 76,900 (2022)	AADT = 28,400 (2022)
AADT = 82,100 (2032)	AADT = 32,500 (2032)
AADT = 87,400 (2042)	AADT = 36,600 (2042)
RDS = 70 MPH	RDS = 40 MPH

STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN
MOHAMMED H. ZAGLOUL
E-26970
MILWAUKEE
WISCONSIN
PROFESSIONAL ENGINEER
11/27/2019

STRUCTURE B-67-293

IH 43 SB OVER CTH O (MOORLAND ROAD)

COUNTY	CITY
WAUKESHA	NEW BERLIN

DESIGN SPEC. REHABILITATION N/A

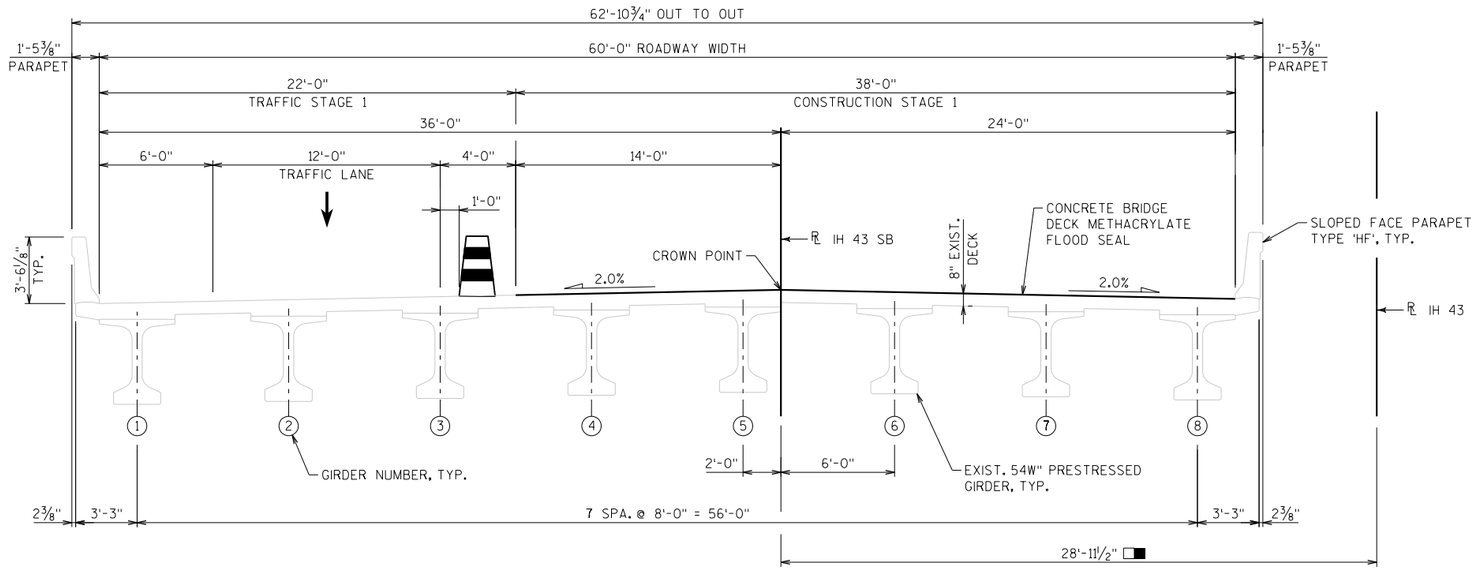
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	AJA	MHZ

GENERAL PLAN & TYPICAL SECTION

SHEET 1 OF 2

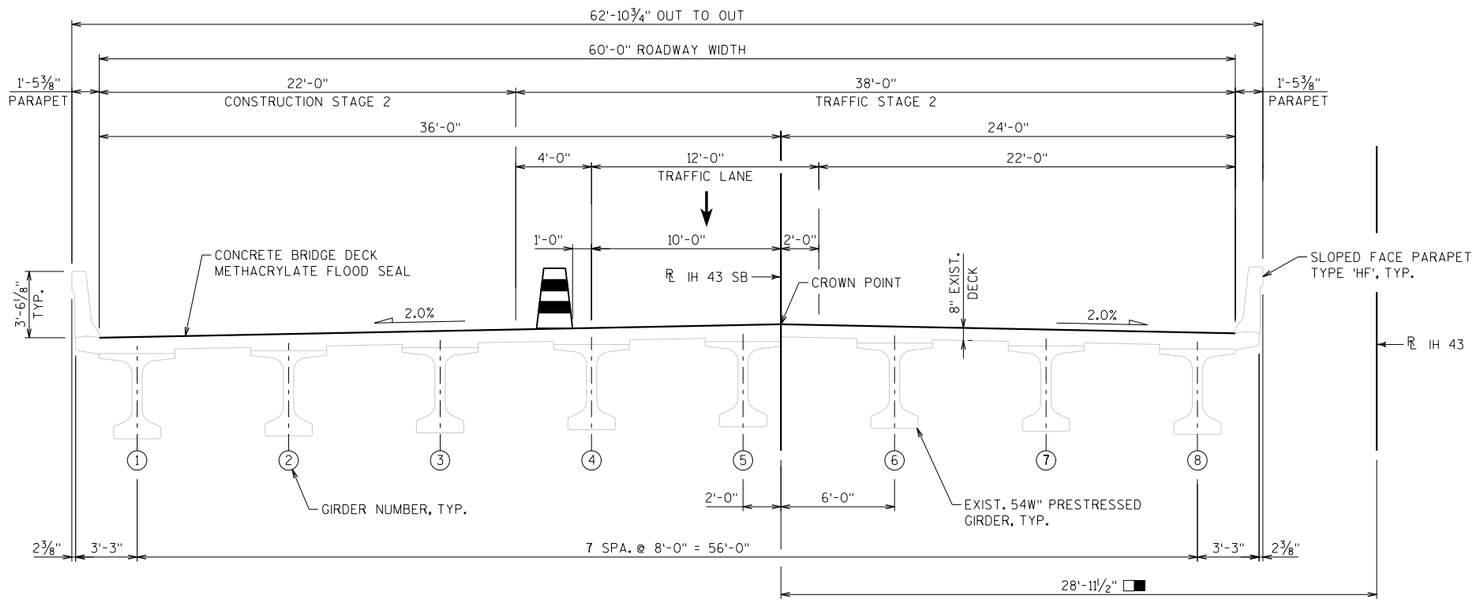
FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-293\cds\B293_080101_gp.dgn PLOT DATE : 11/27/2019 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:30.0025

STATE PROJECT NUMBER
1090-35-70



CONSTRUCTION STAGE 1

(LOOKING EAST)



CONSTRUCTION STAGE 2

(LOOKING EAST)

LEGEND

→ DIRECTION OF TRAFFIC

□■ DIMENSION TAKEN AT ℄ PIER MEASURED NORMAL TO ℄

NOTE

DIMENSIONS & CROSS SLOPES BASED ON THE ORIGINAL STRUCTURE PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-293

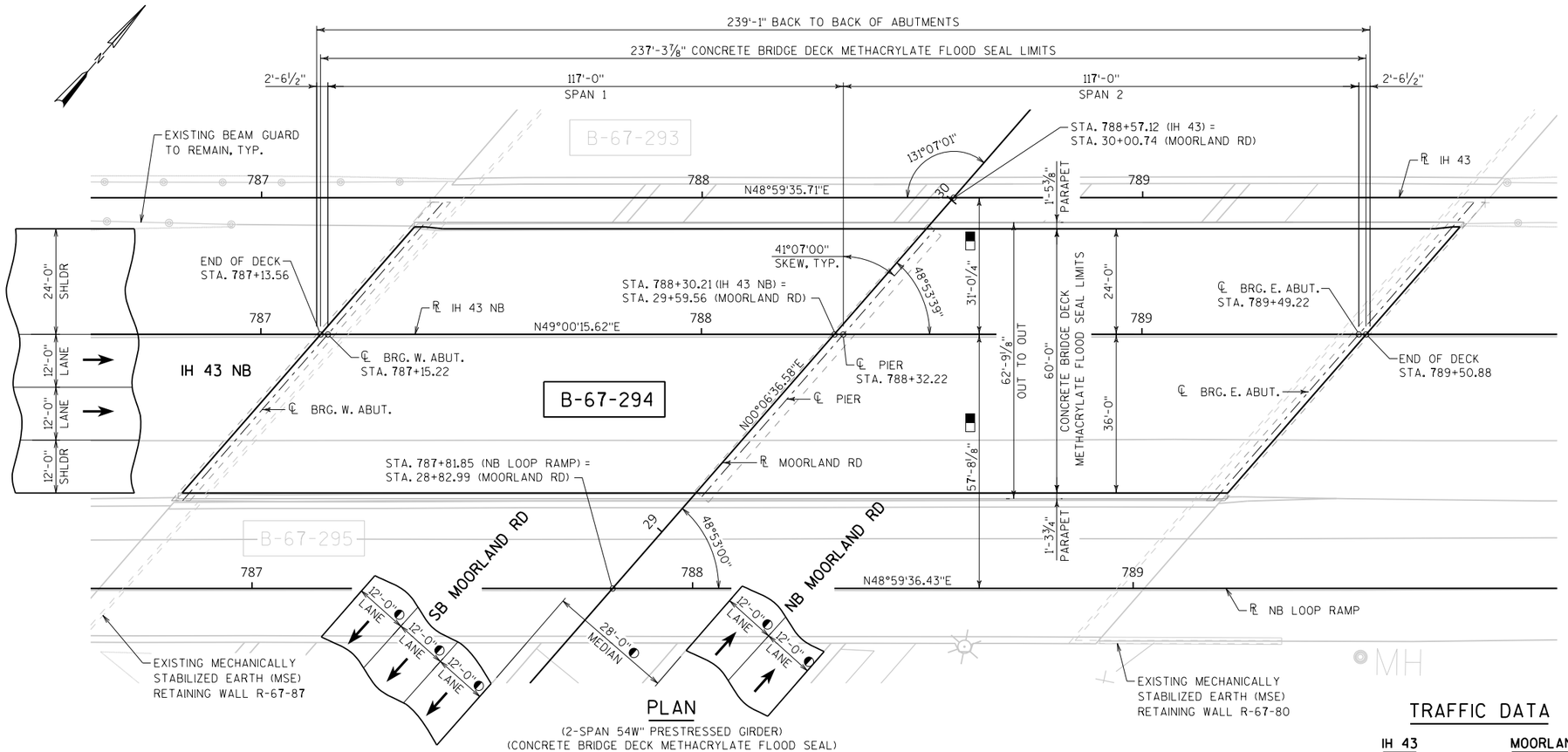
DRAWN BY AJA | PLANS CK'D. MHZ

CONSTRUCTION STAGING

SHEET 2 OF 2

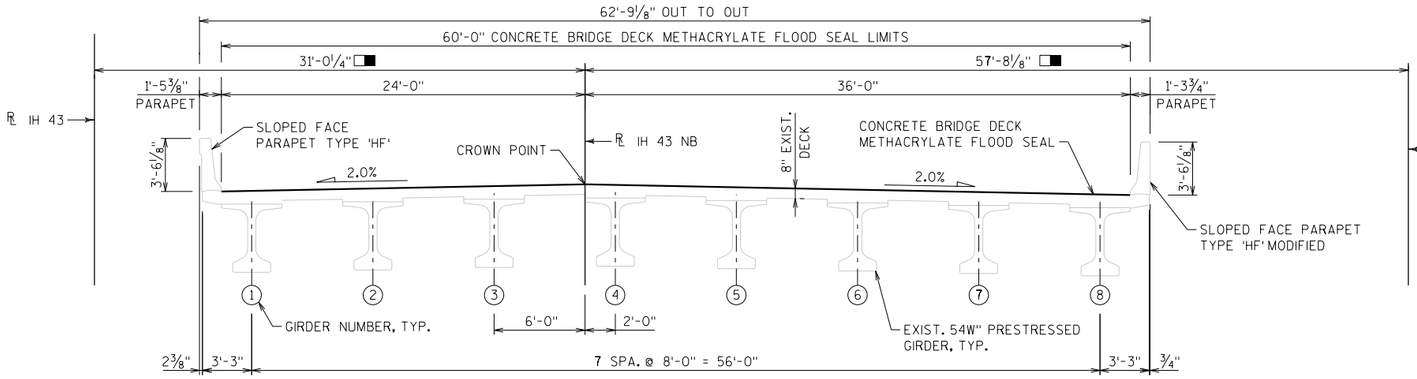
FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-293\cds\B293_080102_cs.dgn PLOT DATE : 11/27/2019 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:8

STATE PROJECT NUMBER
1090-35-70



PLAN

(2-SPAN 54W" PRESTRESSED GIRDER)
(CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL)



TYPICAL SECTION

(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	STAGE 1	STAGE 2	TOTAL
SPV.0180.4000	CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL	SY	1,002	580	1,582

ALL ITEMS ARE CATEGORY 2160

LEGEND

- → DIRECTION OF TRAFFIC
- ◐ DIMENSIONS TAKEN FROM EXISTING SURVEY
- ◭ EXISTING RATING DATA TAKEN FROM HSI NOVEMBER 6, 2019 (RATING DATED JUNE 7, 2013)
- ■■ DIMENSION TAKEN AT ℄ PIER MEASURED NORMAL TO ℛ

DESIGN DATA ◭

LIVE LOAD:
DESIGN LOADING: HS-25
INVENTORY RATING: HS-17
OPERATING RATING: HS-32
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE UTILITY 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 AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL".

SEE ROADWAY PLANS FOR TRAFFIC STAGING.

LIST OF DRAWINGS

1. GENERAL PLAN & TYPICAL SECTION
2. CONSTRUCTION STAGING

TRAFFIC DATA

IH 43	MOORLAND RD
AADT = 73,200 (2015)	AADT = 25,500 (2015)
AADT = 76,900 (2022)	AADT = 28,400 (2022)
AADT = 82,100 (2032)	AADT = 32,500 (2032)
AADT = 87,400 (2042)	AADT = 36,600 (2042)
RDS = 70 MPH	RDS = 40 MPH

STRUCTURES DESIGN CONTACTS
BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-294

IH 43 NB OVER CTH O (MOORLAND ROAD)

COUNTY	CITY
WAUKESHA	NEW BERLIN

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	AJA	MHZ

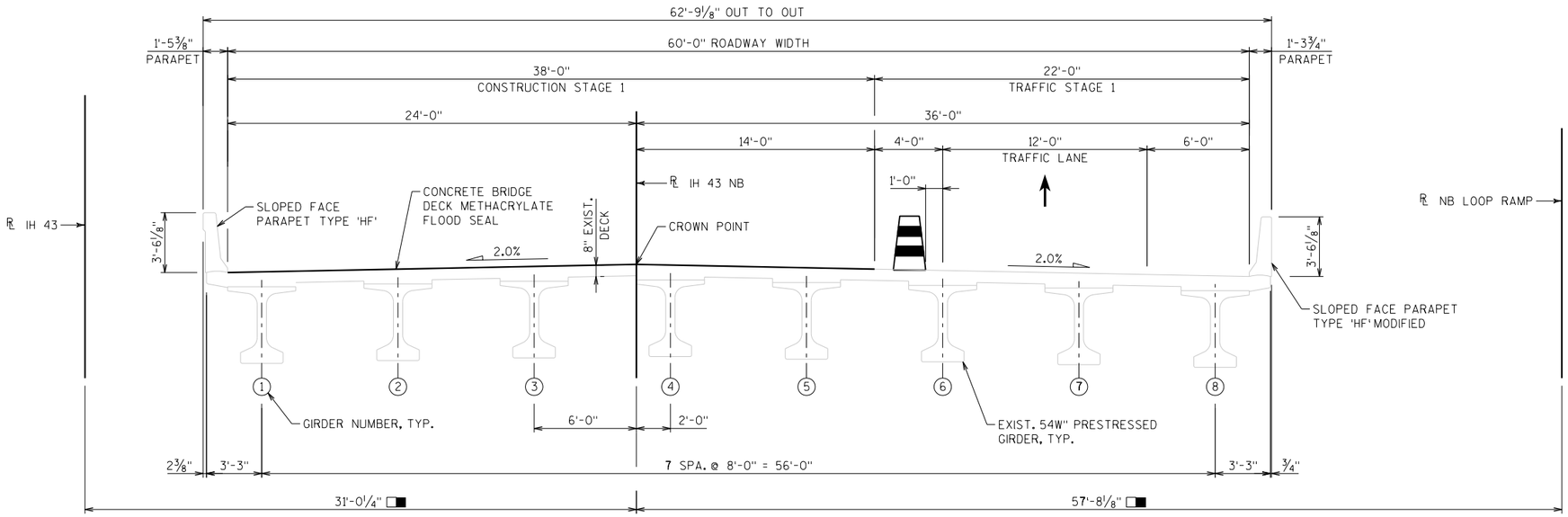
GENERAL PLAN & TYPICAL SECTION

SHEET 1 OF 2

WISCONSIN
MOHAMMED H. ZAGLOUL
E-26970
MILWAUKEE
WISCONSIN
PROFESSIONAL ENGINEER
11/27/2019

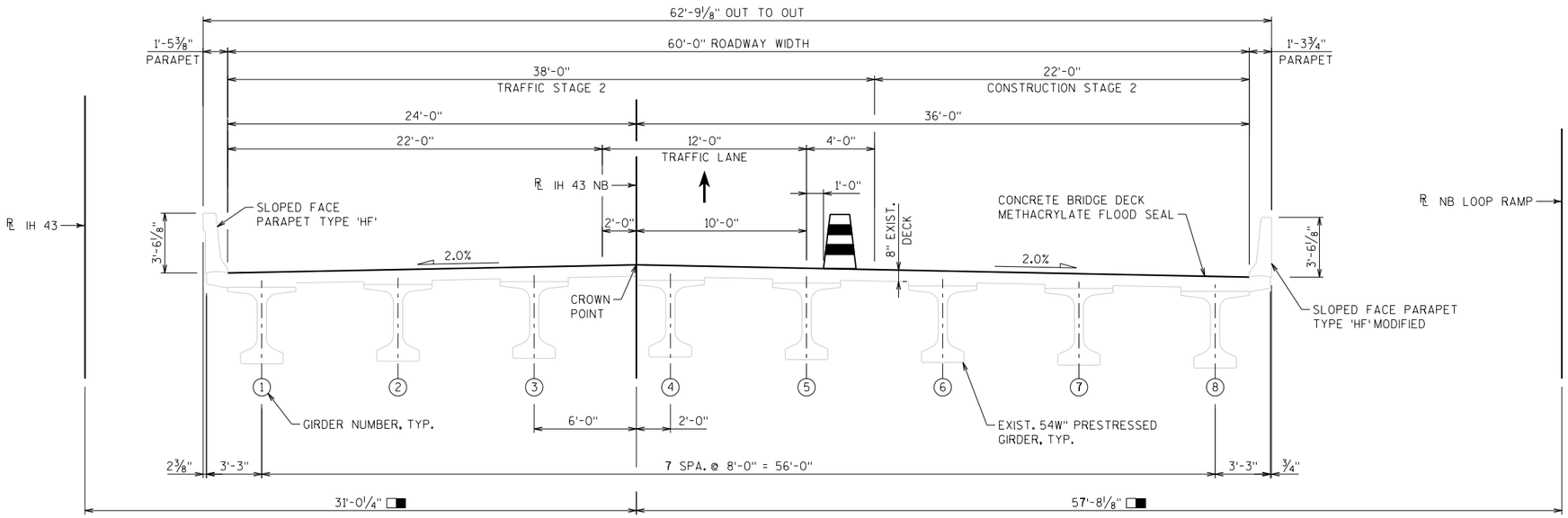
FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-294\cds\B294_080101_gp.dgn PLOT DATE : 11/27/2019 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:30.0025

STATE PROJECT NUMBER
1090-35-70



CONSTRUCTION STAGE 1

(LOOKING EAST)



CONSTRUCTION STAGE 2

(LOOKING EAST)

LEGEND

→ DIRECTION OF TRAFFIC

■ DIMENSION TAKEN AT ℄ PIER MEASURED NORMAL TO ℛ

NOTE

DIMENSIONS & CROSS SLOPES BASED ON THE ORIGINAL STRUCTURE PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-294

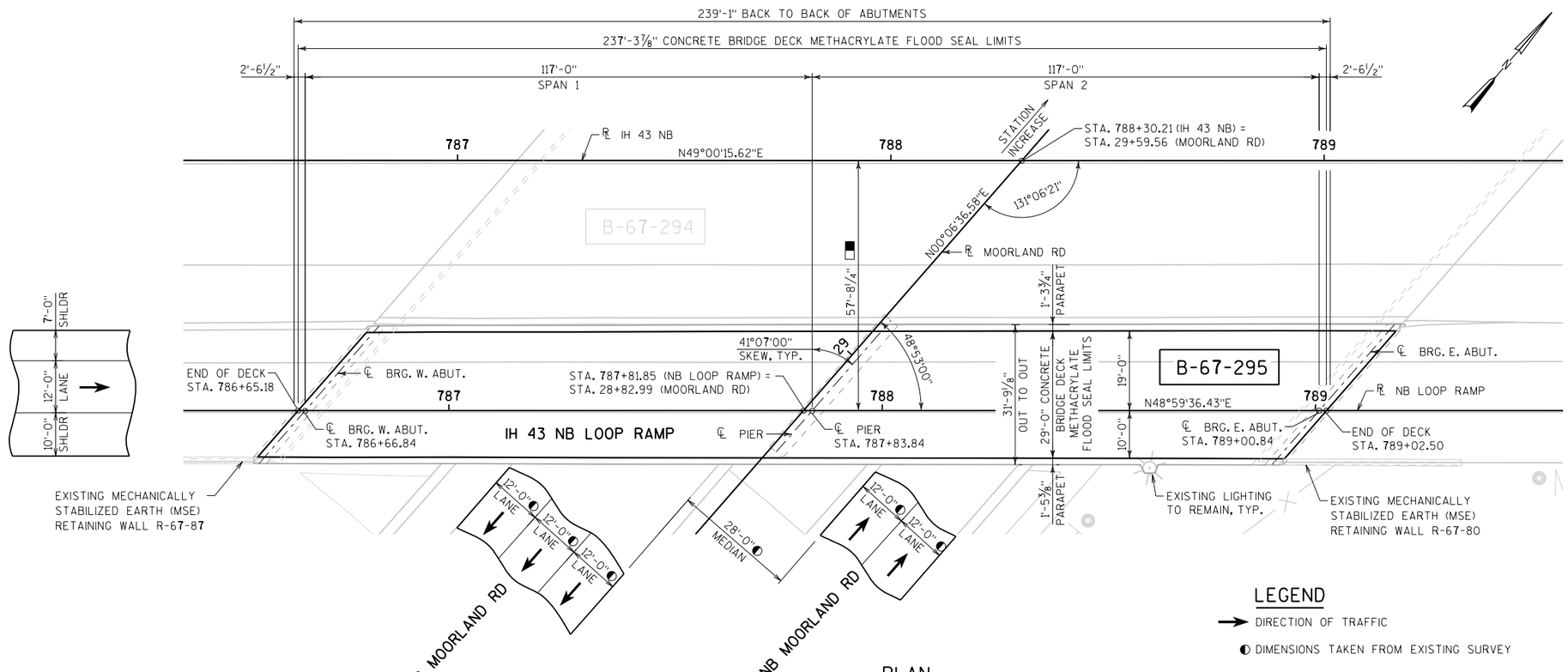
DRAWN BY AJA | PLANS CK'D. MHZ

CONSTRUCTION STAGING

SHEET 2 OF 2

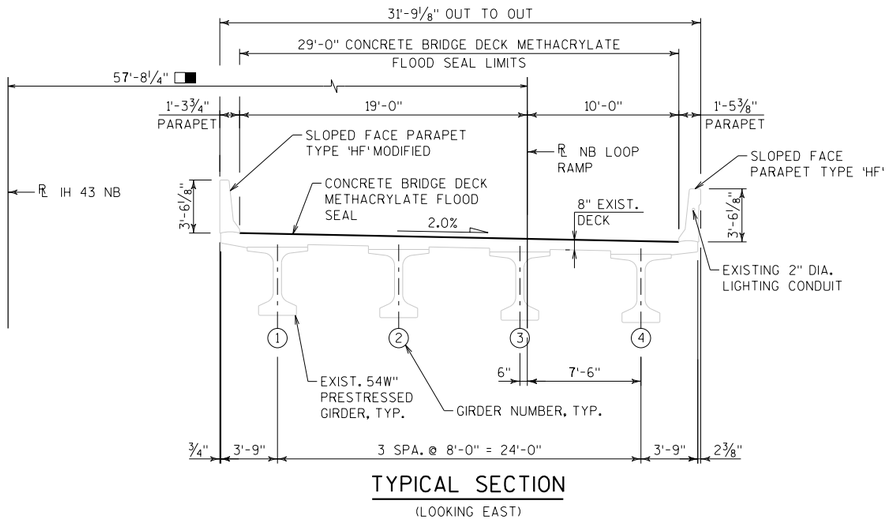
FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-294\cds\B294_080102_cs.dgn PLOT DATE : 11/26/2019 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:8

STATE PROJECT NUMBER
1090-35-70



PLAN

(2-SPAN 54W" PRESTRESSED GIRDER)
(CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL)



TYPICAL SECTION

(LOOKING EAST)

LEGEND

- → DIRECTION OF TRAFFIC
- ◐ DIMENSIONS TAKEN FROM EXISTING SURVEY
- ◭ EXISTING RATING DATA TAKEN FROM HSI NOVEMBER 6, 2019 (RATING DATED JUNE 7, 2013)
- ■ DIMENSION TAKEN AT ℄ PIER MEASURED NORMAL TO ℛ

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	TOTAL
SPV.0180.4000	CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL	SY	765

ALL ITEMS ARE CATEGORY 2170

DESIGN DATA ◭

LIVE LOAD:
DESIGN LOADING: HS-25
INVENTORY RATING: HS-16
OPERATING RATING: HS-29
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE UTILITY 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 AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL".

BRIDGE TO BE CLOSED DURING CONSTRUCTION, SEE ROADWAY PLANS.

TRAFFIC DATA

IH 43	MOORLAND RD
AADT = 73,200 (2015)	AADT = 25,500 (2015)
AADT = 76,900 (2022)	AADT = 28,400 (2022)
AADT = 82,100 (2032)	AADT = 32,500 (2032)
AADT = 87,400 (2042)	AADT = 36,600 (2042)
RDS = 70 MPH	RDS = 40 MPH

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN
MOHAMMED H. ZAGLOUL
E-26970
MILWAUKEE
WISCONSIN
PROFESSIONAL ENGINEER
11/27/2019

STRUCTURE B-67-295

IH 43 NB LOOP RAMP OVER CTH O (MOORLAND ROAD)

COUNTY	CITY
WAUKESHA	NEW BERLIN

DESIGN SPEC.
REHABILITATION N/A

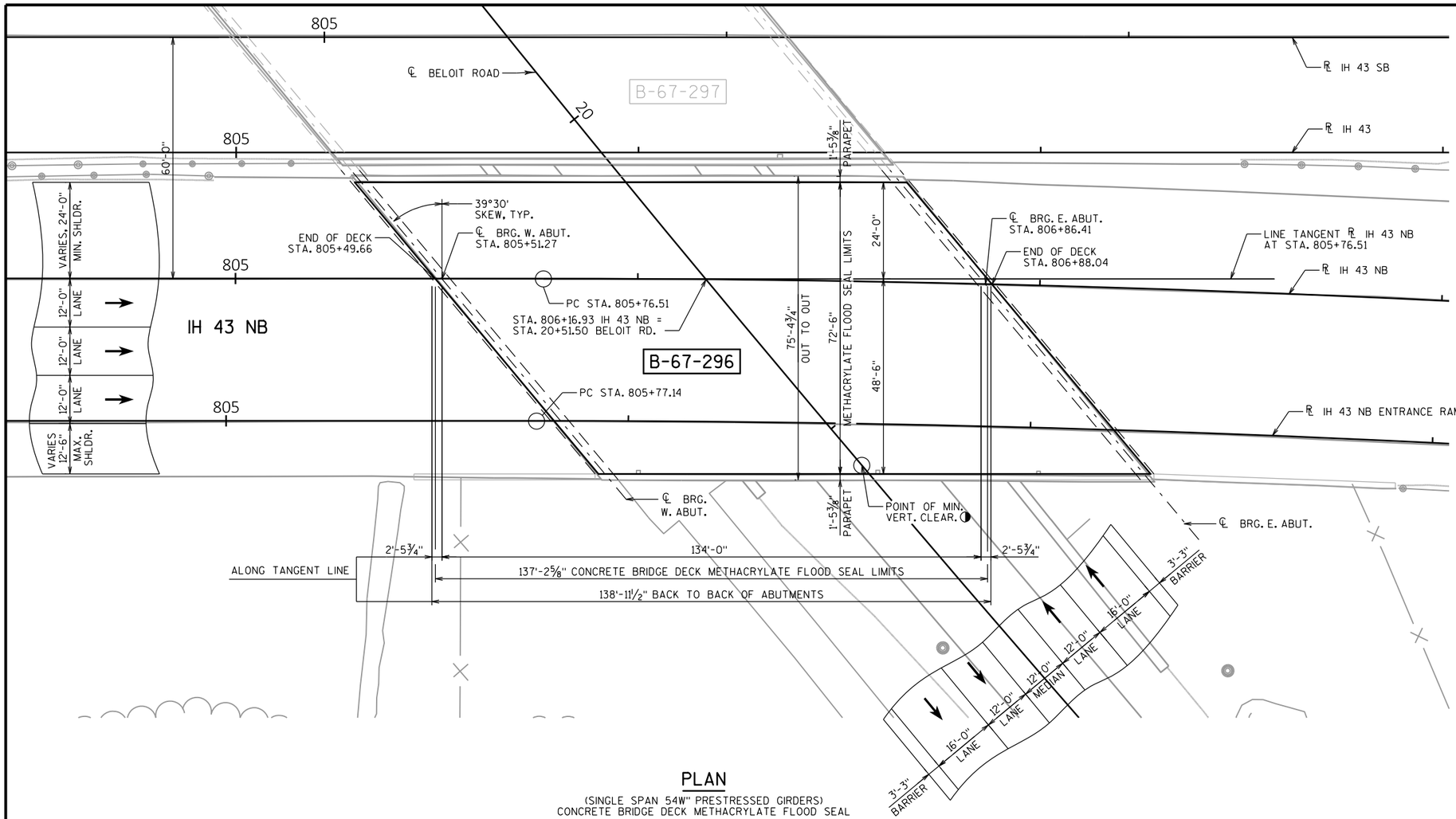
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	AJA	MHZ

GENERAL PLAN & TYPICAL SECTION

SHEET 1 OF 1

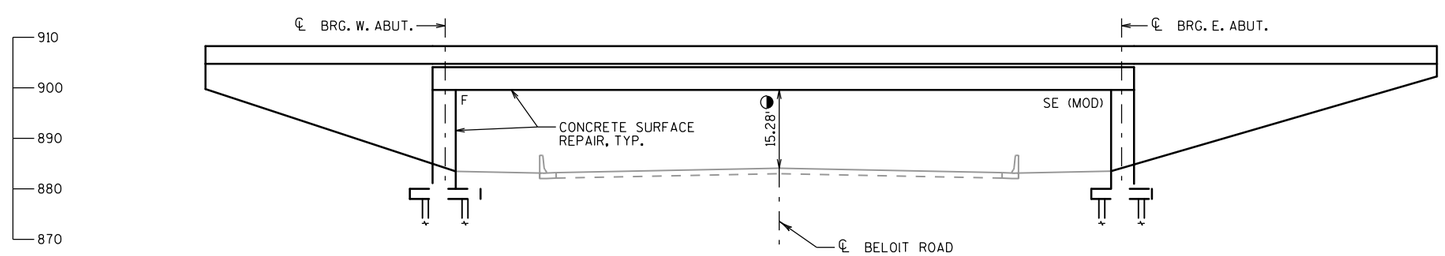
FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-295\cds\B295_080101_gp.dgn PLOT DATE : 11/27/2019 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:30.0025

STATE PROJECT NUMBER
1090-35-70



PLAN

(SINGLE SPAN 54W" PRESTRESSED GIRDERS)
CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL



ELEVATION

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

DESIGN DATA ◭

LIVE LOAD

DESIGN RATING: HS20
INVENTORY RATING: HS34
OPERATING RATING: HS17
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

TRAFFIC DATA

IH 43

AADT = 73,200 (2015)
AADT = 76,900 (2022)
AADT = 82,100 (2032)
AADT = 87,400 (2042)
RDS = 70 MPH

BELOIT RD

AADT = 10,100 (2015)
AADT = 11,000 (2022)
AADT = 12,400 (2032)
AADT = 13,800 (2042)
RDS = 40 MPH

LEGEND

- → TRAFFIC DIRECTION
- ◑ LOCATION PER EXISTING PLANS AND MIN. CLEARANCE TAKEN FROM HSI SYSTEM (4/25/2018)
- ◭ EXISTING RATING DATA TAKEN FROM HSI ON 8/29/2019

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN HEATHER D. ANDERS, P.E. 33441-005 CEDARBURG, WI PROFESSIONAL ENGINEER
Heather D. Anders
11-27-2019

STRUCTURE B-67-296

IH 43 NB OVER BELOIT ROAD

COUNTY WAUKESHA
~~TOWN/~~CITY~~/VILLAGE~~ NEW BERLIN

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
HDA	MSS	HDA	MSS

GENERAL PLAN & ELEVATION

SHEET 1 OF 2

FILE NAME : \\milw00\ingrproj\66392\b1\B-67-296\cds\296_080101_gp.dgn PLOT DATE : 11/26/2019 11:59:03 AM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 30:1

STATE PROJECT NUMBER
1090-35-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

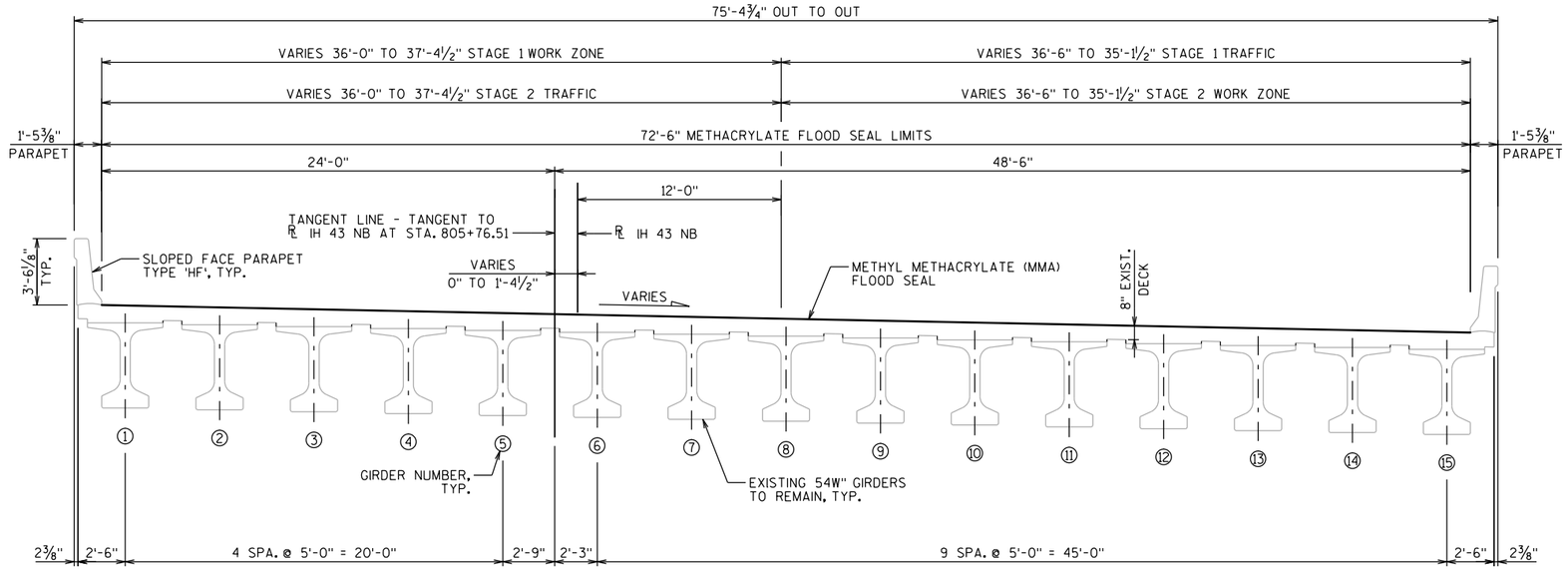
ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL".

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR WILL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

BEVEL EDGES OF EXPOSED CONCRETE ¾" MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

SEE ROADWAY PLANS FOR COMPLETE TRAFFIC STAGING PLANS AND INFORMATION.



TYPICAL SECTION
(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
509.1500	CONCRETE SURFACE REPAIR	SF	60
SPV.0060.4010	EMBEDDED GALVANIC ANODES	EACH	30
SPV.0180.4000	CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL	SY	1105

ALL ITEMS ARE CATEGORY 2180

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-296

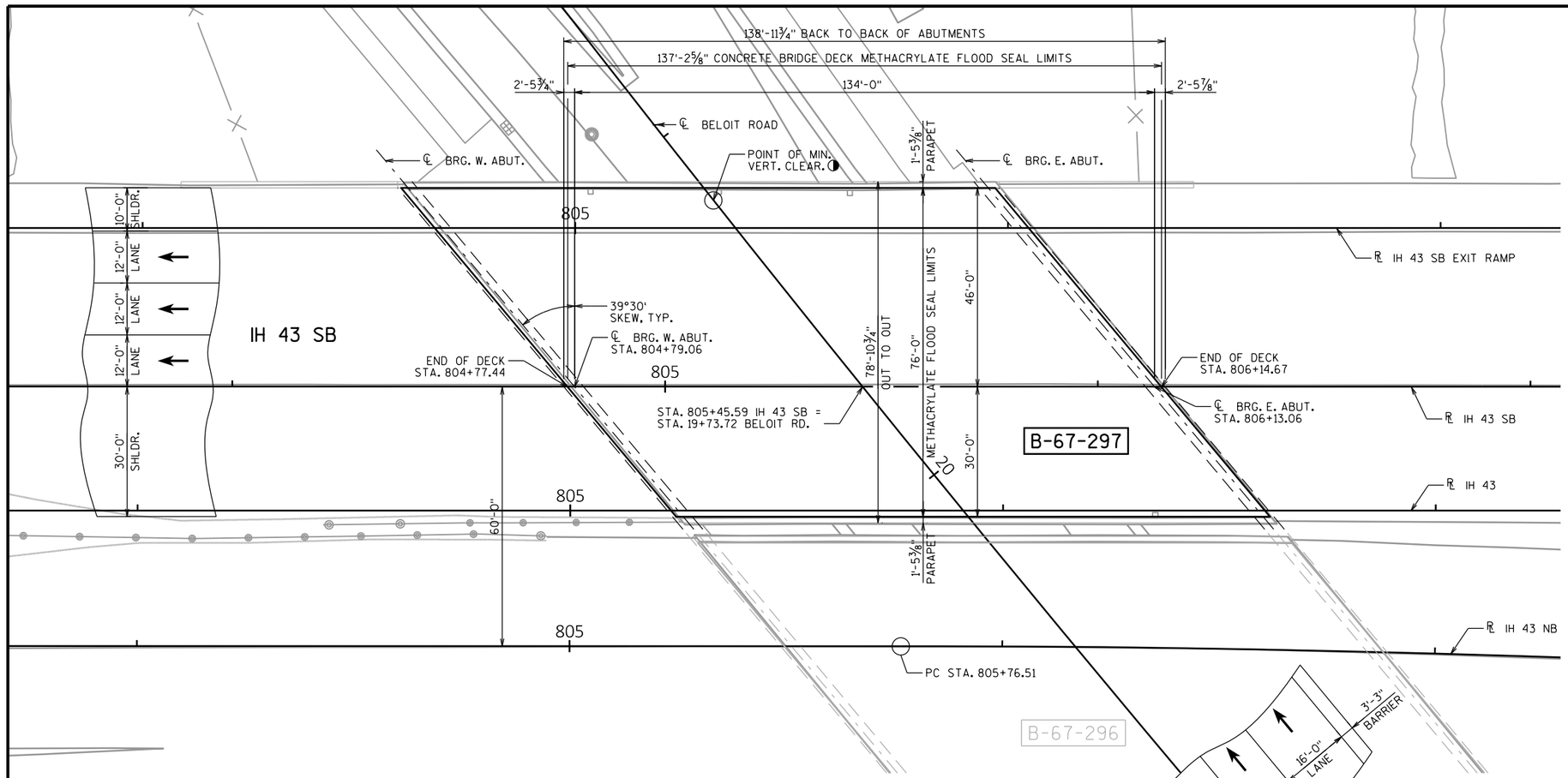
DRAWN BY HDA | PLANS CK'D. MSS

TYPICAL SECTION, GENERAL NOTES & QUANTITIES

SHEET 2 OF 2

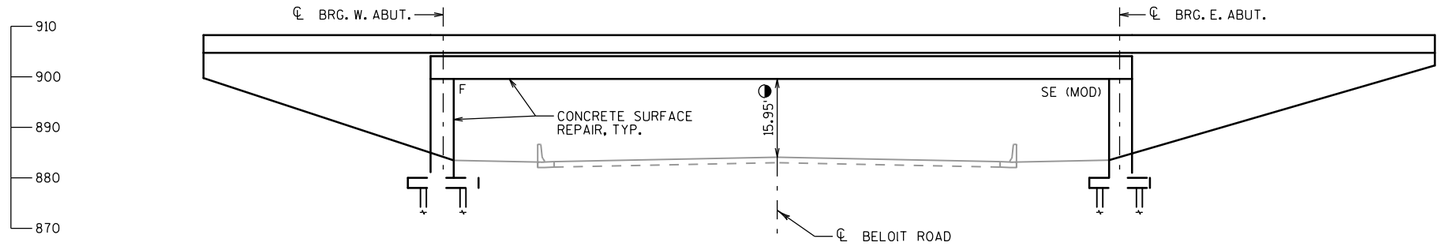
FILE NAME : \\milw00\ingrproj\66392\b1\B-67-296\cds\296_080102_typ.dgn PLOT DATE : 11/26/2019 11:59:05 AM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 8:1

STATE PROJECT NUMBER
1090-35-70



PLAN

(SINGLE SPAN 54W" PRESTRESSED GIRDERS)
CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL



ELEVATION

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES

DESIGN DATA ◭

LIVE LOAD

DESIGN RATING: HS20
INVENTORY RATING: HS34
OPERATING RATING: HS17
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

TRAFFIC DATA

IH 43

AADT = 73,200 (2015)
AADT = 76,900 (2022)
AADT = 82,100 (2032)
AADT = 87,400 (2042)
RDS = 70 MPH

BELOIT RD

AADT = 10,100 (2015)
AADT = 11,000 (2022)
AADT = 12,400 (2032)
AADT = 13,800 (2042)
RDS = 40 MPH

LEGEND

→ TRAFFIC DIRECTION

◑ LOCATION PER EXISTING PLANS AND MIN. CLEARANCE TAKEN FROM HSI SYSTEM (9/12/2017)

◭ EXISTING RATING DATA TAKEN FROM HSI ON 8/29/2019

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

HEATHER D. ANDERS, P.E. 33441-005 CEDARBURG, WI PROFESSIONAL ENGINEER WISCONSIN
Heather D. Anders
11-27-2019

STRUCTURE B-67-297

IH 43 SB OVER BELOIT ROAD

COUNTY	TOWN/CITY/~~VILLAGE~~
WAUKESHA	NEW BERLIN

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
HDA	MSS	HDA	MSS

GENERAL PLAN & ELEVATION

SHEET 1 OF 2

FILE NAME : \\milw00\ingrproj\66392\b1\B-67-297\cds\297_080101_gp.dgn PLOT DATE : 11/26/2019 11:53:27 AM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 30:1

STATE PROJECT NUMBER
1090-35-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

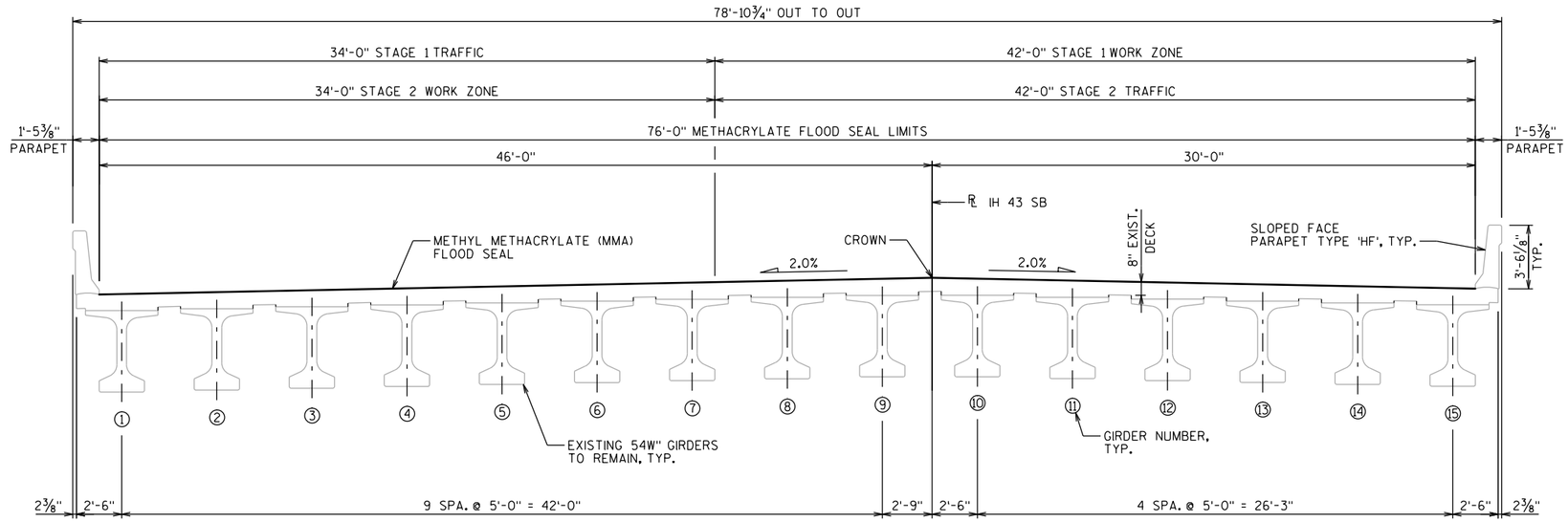
ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL".

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR WILL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. ALL SUBSTRUCTURE CONCRETE SURFACE REPAIRS SHALL INCLUDE "EMBEDDED GALVANIC ANODES", PAID FOR SEPARATELY.

BEVEL EDGES OF EXPOSED CONCRETE ¾" MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

SEE ROADWAY PLANS FOR COMPLETE TRAFFIC STAGING PLANS AND INFORMATION.



TYPICAL SECTION
(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
509.1500	CONCRETE SURFACE REPAIR	SF	105
SPV.0060.4010	EMBEDDED GALVANIC ANODES	EACH	40
SPV.0180.4000	CONCRETE BRIDGE DECK METHACRYLATE FLOOD SEAL	SY	1159

ALL ITEMS ARE CATEGORY 2190

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-297

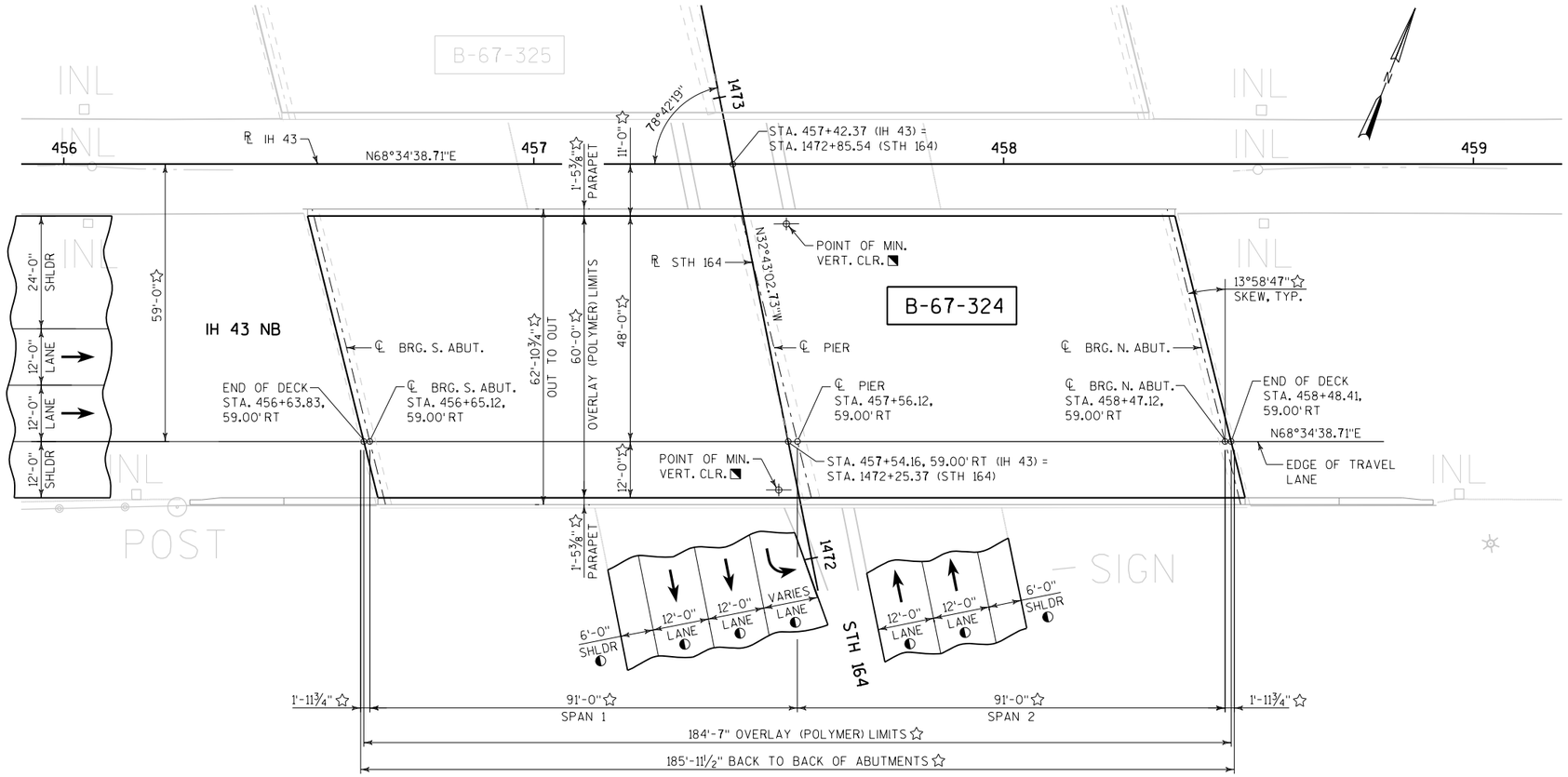
DRAWN BY HDA | PLANS CK'D. MSS

TYPICAL SECTION, GENERAL NOTES & QUANTITIES

SHEET 2 OF 2

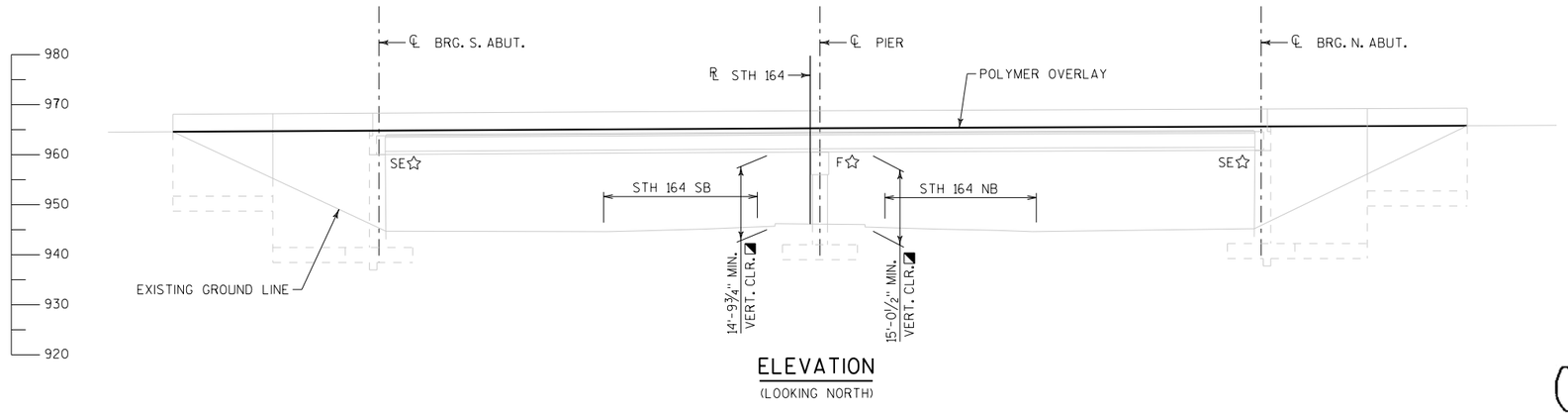
FILE NAME : \\milw00\ingrproj\66392\b1\B-67-297\cds\297_080102_typ.dgn PLOT DATE : 11/26/2019 11:53:28 AM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 8:1

STATE PROJECT NUMBER
1090-35-70



PLAN

(2-SPAN 45W" PRESTRESSED GIRDER)
(POLYMER OVERLAY)



ELEVATION

(LOOKING NORTH)

DESIGN DATA

LIVE LOAD:

DESIGN RATING: HL-93
INVENTORY RATING FACTOR: 1.29
OPERATING RATING FACTOR: 2.15
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY.....f'c = 4,000 psi

LEGEND

→ DIRECTION OF TRAFFIC

☆ DIMENSIONS TAKEN FROM ORIGINAL STRUCTURE PLANS

◐ DIMENSIONS TAKEN FROM EXISTING SURVEY

◥ DIMENSION AND LOCATION TAKEN FROM THE INSPECTION REPORT DATED OCTOBER 22, 2018

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES
3. CONSTRUCTION STAGING

TRAFFIC DATA

IH 43	STH 164
AADT = 40,600 (2015)	AADT = 16,700 (2015)
AADT = 43,900 (2022)	AADT = 18,600 (2022)
AADT = 48,500 (2032)	AADT = 21,200 (2032)
AADT = 53,100 (2042)	AADT = 23,900 (2042)
RDS = 70 MPH	RDS = 45 MPH

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN
ANDREW J. ASCHENBRENNER
E-45272-6
RACINE
WISCONSIN
PROFESSIONAL ENGINEER
Andrew Aschenbrenner
11/27/2019

STRUCTURE B-67-324

IH 43 NB OVER STH 164

COUNTY	TOWN
WAUKESHA	VERNON

DESIGN SPEC.
REHABILITATION N/A

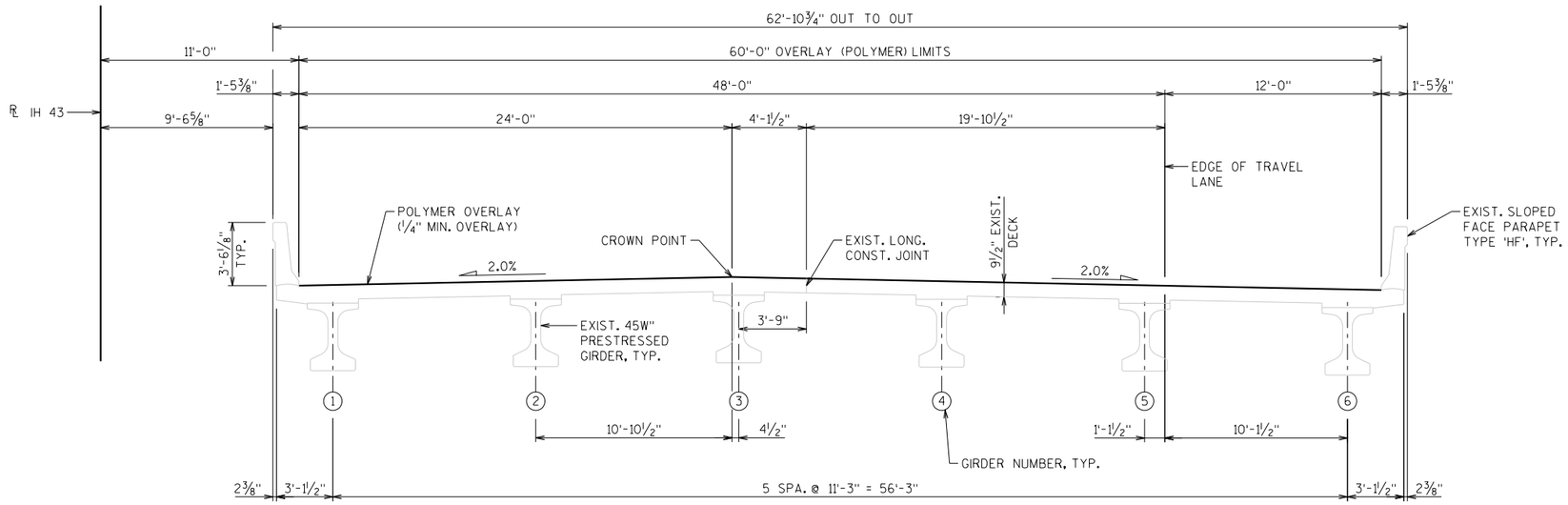
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	AJA	MHZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 3

FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-324\cds\B324_080101_gp.dgn PLOT DATE : 11/27/2019 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:30

STATE PROJECT NUMBER
1090-35-70



TYPICAL SECTION

(LOOKING EAST)
(DIMENSIONS & CROSS SLOPES BASED ON THE ORIGINAL STRUCTURE PLANS)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (2012).

THE UTILITY 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 AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

"PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. QUANTITIES FOR THESE BID ITEMS ARE APPROXIMATE. PREPARATION DECKS TYPE 1 AND TYPE 2 SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

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

SEE ROADWAY PLANS FOR TRAFFIC STAGING.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE BID ITEMS ARE APPROXIMATE.
-PREPARATION DECKS TYPE 1
-PREPARATION DECKS TYPE 2
-SAWING PAVEMENT DECK PREPARATION AREAS
-RAPID SET DECK REPAIR

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	SUPER.	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	10	10
509.0302	PREPARATION DECKS TYPE 2	SY	4	4
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	62	62
509.5100.S	POLYMER OVERLAY	SY	1,231	1,231
SPV.0035.4000	RAPID SET DECK REPAIR	CY	1	1

ALL ITEMS ARE CATEGORY 2200

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-324

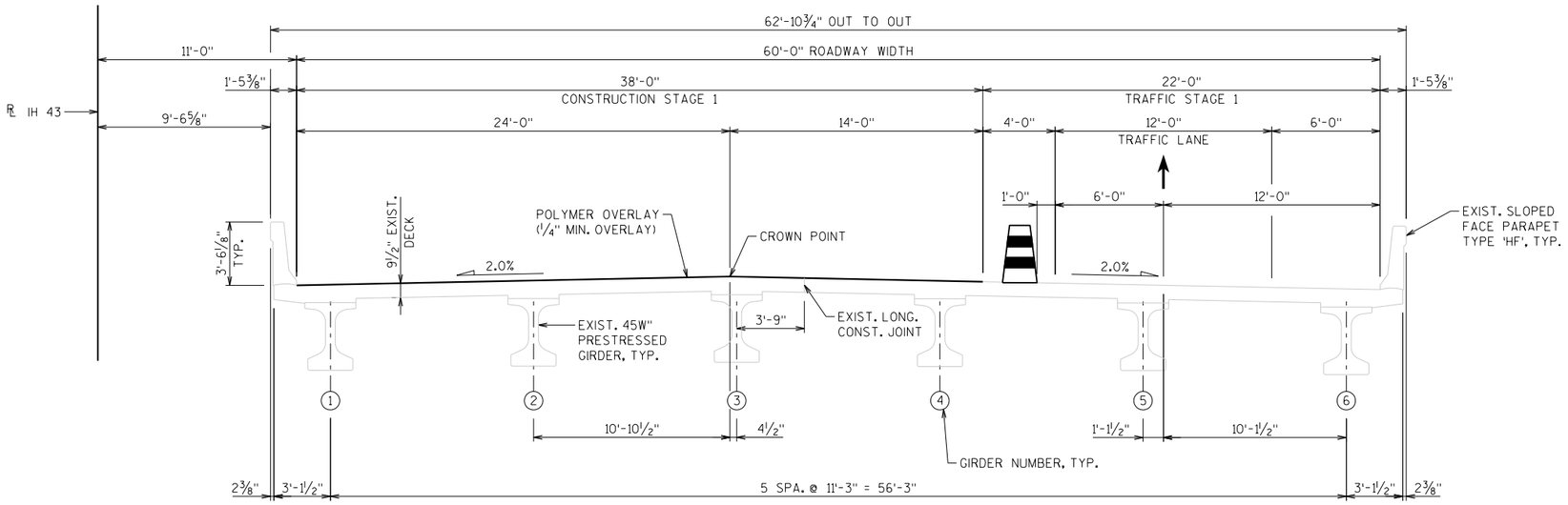
DRAWN BY AJA | PLANS CK'D. MHZ

TYPICAL SECTION, GENERAL NOTES & QUANTITIES

SHEET 2 OF 3

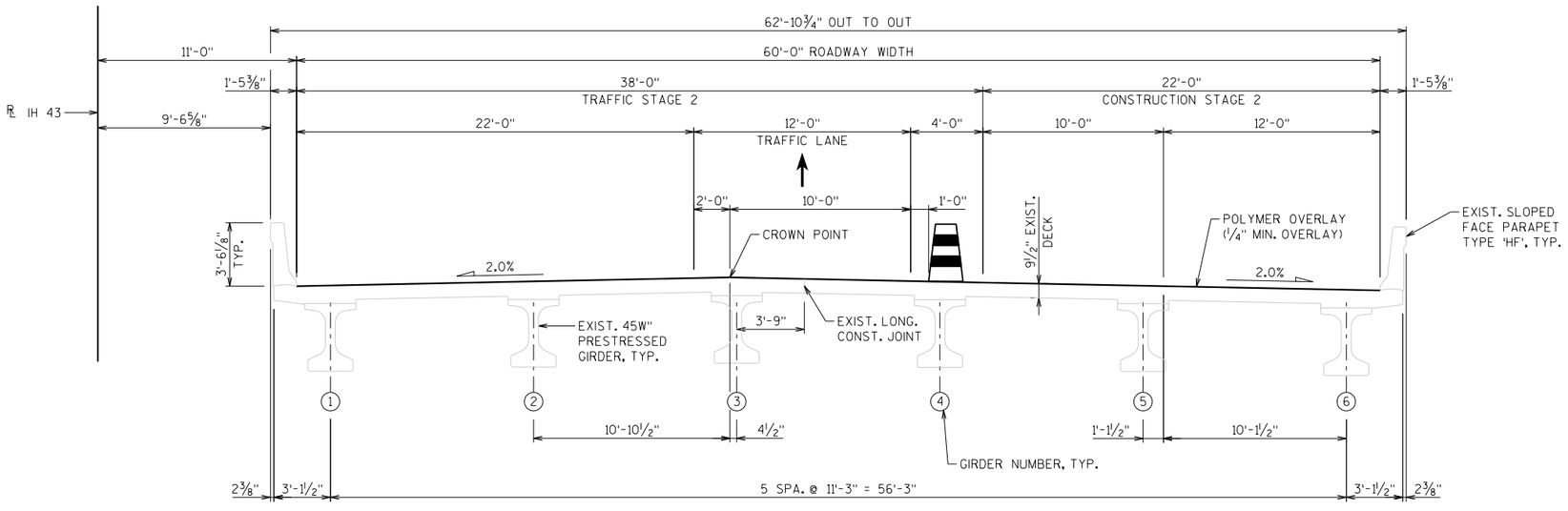
FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-324\cds\B324_080102_gn.dgn PLOT DATE : 11/26/2019 PLOT BY : sconnolly PLOT NAME : $FILE$ PLOT SCALE : 1:8

STATE PROJECT NUMBER
1090-35-70



CONSTRUCTION STAGE 1

(LOOKING EAST)



CONSTRUCTION STAGE 2

(LOOKING EAST)

LEGEND

→ DIRECTION OF TRAFFIC

NOTE

DIMENSIONS & CROSS SLOPES BASED ON THE ORIGINAL STRUCTURE PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-324

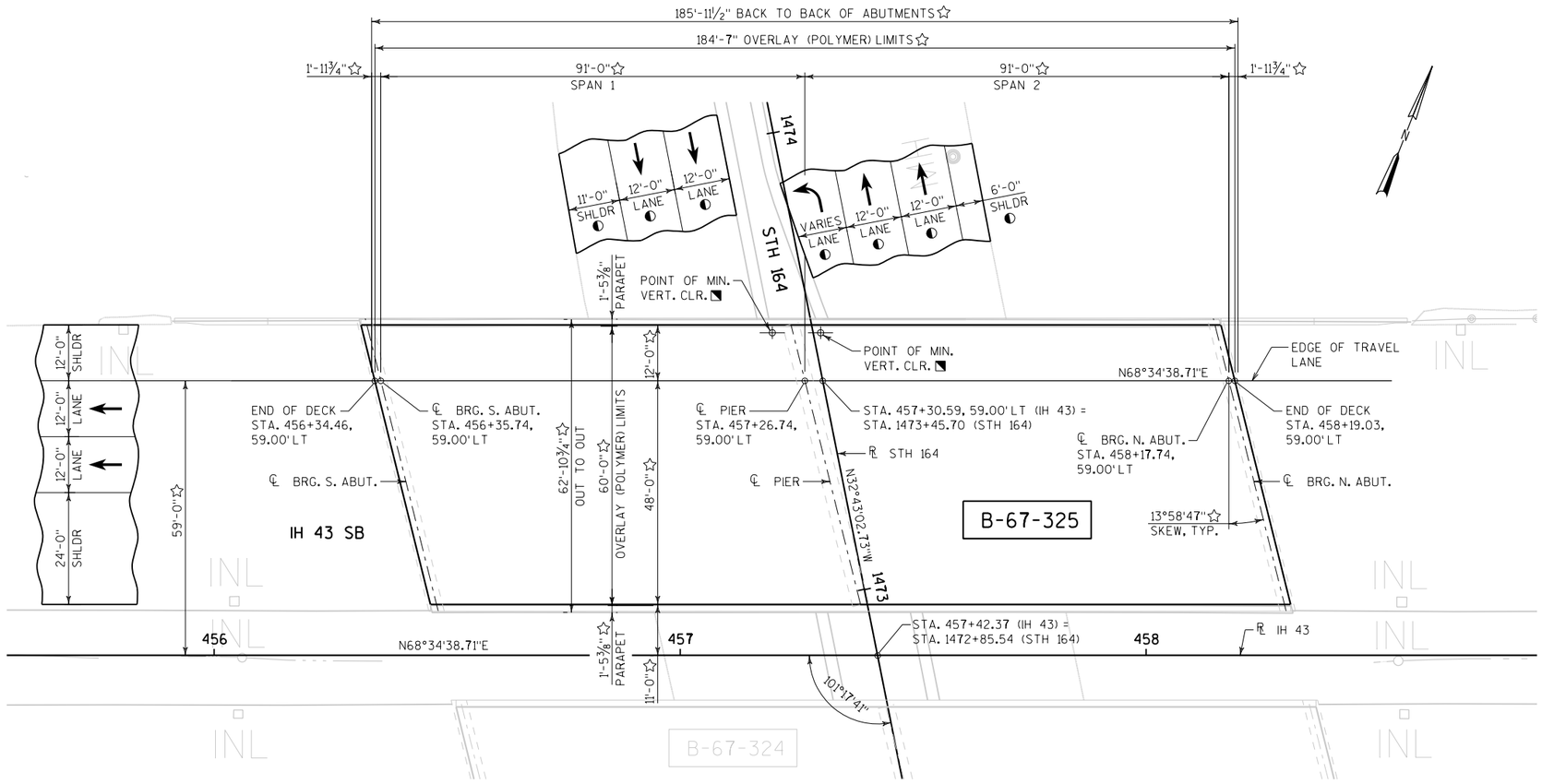
DRAWN BY AJA | PLANS CK'D. MHZ

CONSTRUCTION STAGING

SHEET 3 OF 3

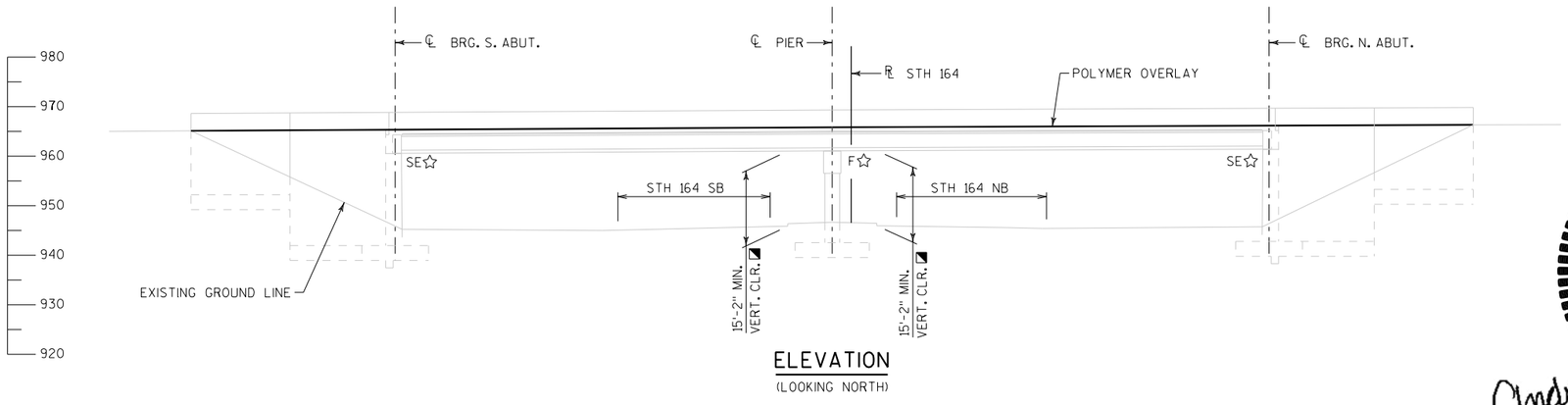
FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-324\cds\B324_080103_cs.dgn PLOT DATE : 11/26/2019 PLOT BY : sconnolly PLOT NAME : $FILE$ PLOT SCALE : 1:8

STATE PROJECT NUMBER
1090-35-70



PLAN

(2-SPAN 45W" PRESTRESSED GIRDER)
(POLYMER OVERLAY)



ELEVATION

(LOOKING NORTH)

DESIGN DATA

LIVE LOAD:

DESIGN RATING: HL-93
INVENTORY RATING FACTOR: 1.29
OPERATING RATING FACTOR: 2.15
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY.....f'c = 4,000 psi

LEGEND

→ DIRECTION OF TRAFFIC

☆ DIMENSIONS TAKEN FROM ORIGINAL STRUCTURE PLANS

◐ DIMENSIONS TAKEN FROM EXISTING SURVEY

◥ DIMENSION AND LOCATION TAKEN FROM THE INSPECTION REPORT DATED OCTOBER 25, 2018

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION, GENERAL NOTES & QUANTITIES
3. CONSTRUCTION STAGING

TRAFFIC DATA

IH 43	STH 164
AADT = 40,600 (2015)	AADT = 16,700 (2015)
AADT = 43,900 (2022)	AADT = 18,600 (2022)
AADT = 48,500 (2032)	AADT = 21,200 (2032)
AADT = 53,100 (2042)	AADT = 23,900 (2042)
RDS = 70 MPH	RDS = 45 MPH

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/20/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-67-325

IH 43 SB OVER STH 164

COUNTY	TOWN
WAUKESHA	VERNON

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	AJA	MHZ

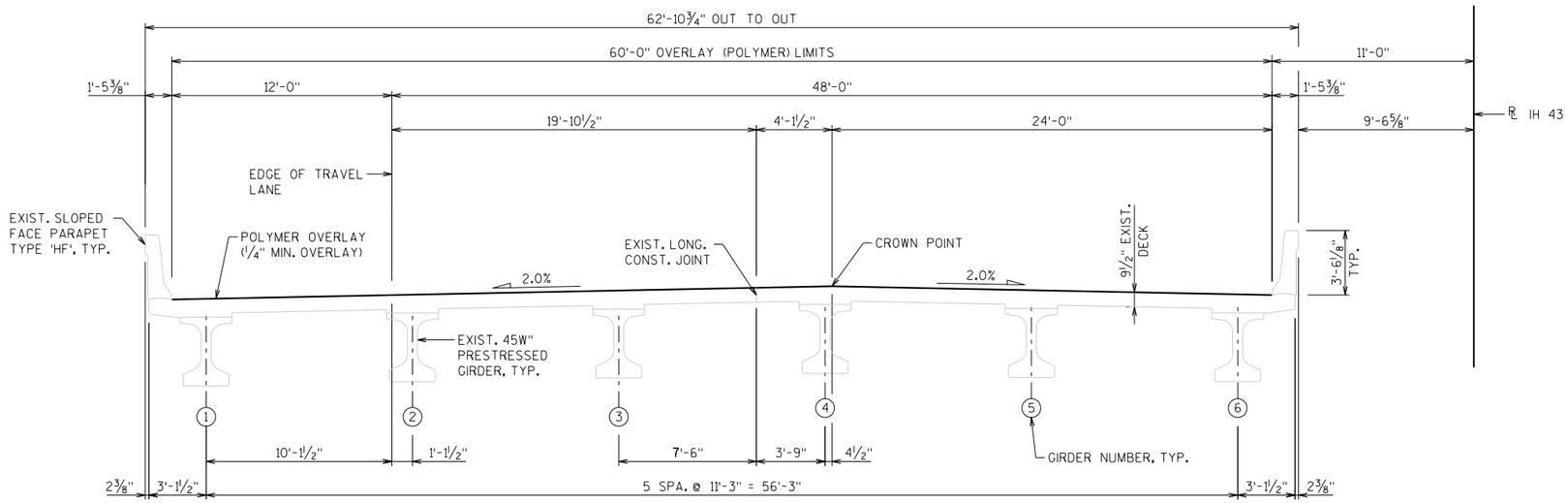
GENERAL PLAN & ELEVATION

SHEET 1 OF 3

WISCONSIN
ANDREW J. ASCHENBRENNER
E-45272-6
RACINE
WISCONSIN
PROFESSIONAL ENGINEER
Andrew Aschenbrenner
11/27/2019

FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-325\cds\B325_080101_gp.dgn PLOT DATE : 11/27/2019 PLOT BY : mmyaskovsky PLOT NAME : $FILE$ PLOT SCALE : 1:30

STATE PROJECT NUMBER
1090-35-70



TYPICAL SECTION

(LOOKING EAST)
(DIMENSIONS & CROSS SLOPES BASED ON THE ORIGINAL STRUCTURE PLANS)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (2012).

THE UTILITY 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 AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

"PREPARATION DECKS TYPE 1" AND "PREPARATION DECKS TYPE 2" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. QUANTITIES FOR THESE BID ITEMS ARE APPROXIMATE. PREPARATION DECKS TYPE 1 AND TYPE 2 SHALL BE FILLED WITH "RAPID SET DECK REPAIR".

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

SEE ROADWAY PLANS FOR TRAFFIC STAGING.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES SHOWN FOR THESE BID ITEMS ARE APPROXIMATE.
-PREPARATION DECKS TYPE 1
-PREPARATION DECKS TYPE 2
-SAWING PAVEMENT DECK PREPARATION AREAS
-RAPID SET DECK REPAIR

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	SUPER.	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	10	10
509.0302	PREPARATION DECKS TYPE 2	SY	4	4
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	62	62
509.5100.S	POLYMER OVERLAY	SY	1,231	1,231
SPV.0035.4000	RAPID SET DECK REPAIR	CY	1	1

ALL ITEMS ARE CATEGORY 2210

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-325

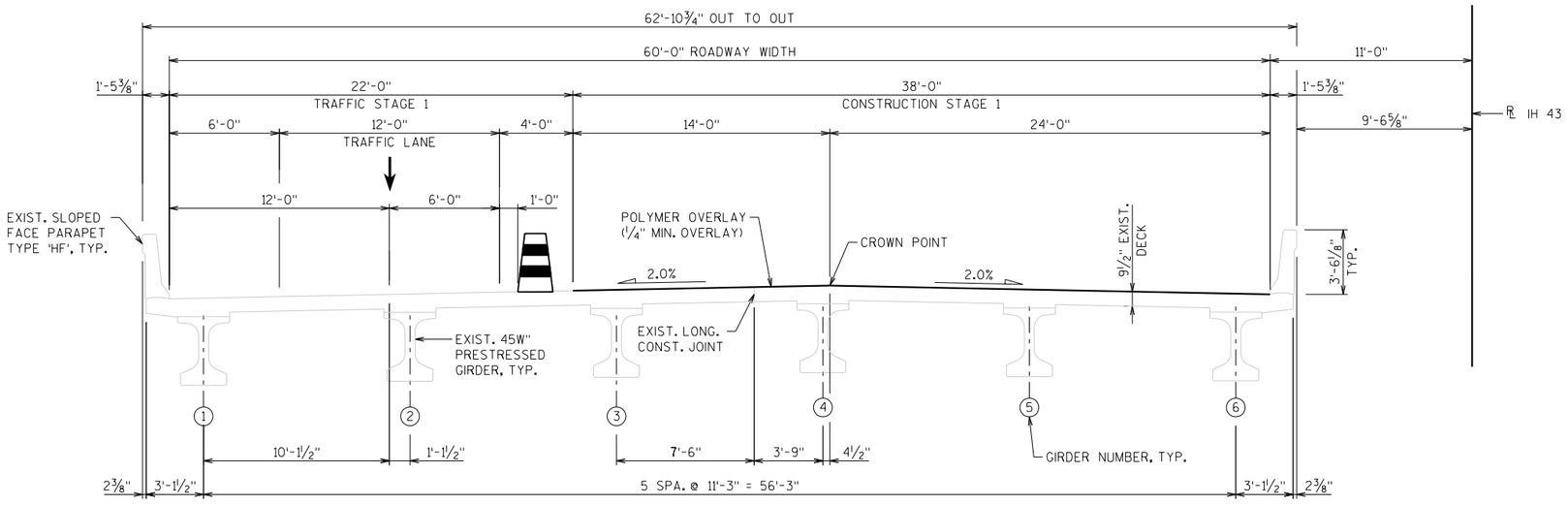
DRAWN BY AJA | PLANS CK'D. MHZ

TYPICAL SECTION, GENERAL NOTES & QUANTITIES

SHEET 2 OF 3

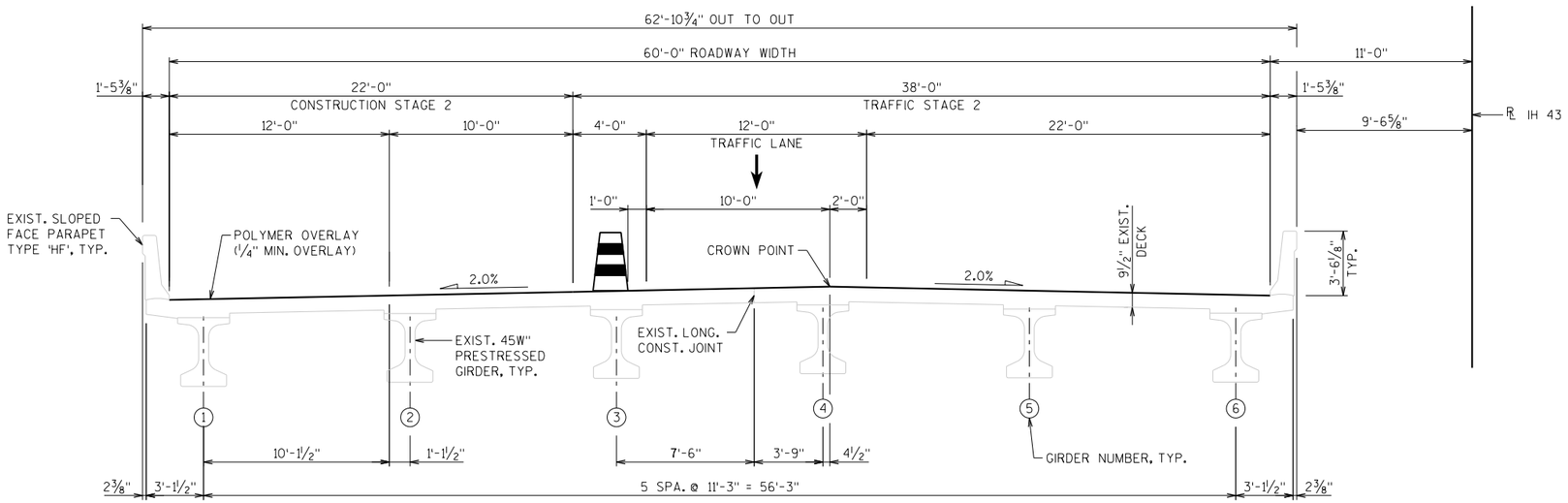
FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-325\cds\B325_080102_gn.dgn PLOT DATE : 11/26/2019 PLOT BY : sconnolly PLOT NAME : $FILE$ PLOT SCALE : 1:8

STATE PROJECT NUMBER
1090-35-70



CONSTRUCTION STAGE 1

(LOOKING EAST)



CONSTRUCTION STAGE 2

(LOOKING EAST)

LEGEND

→ DIRECTION OF TRAFFIC

NOTE

DIMENSIONS & CROSS SLOPES BASED ON THE ORIGINAL STRUCTURE PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-67-325

DRAWN BY AJA | PLANS CK'D. MHZ

CONSTRUCTION STAGING

SHEET 3 OF 3

FILE NAME : S:\DOT\DOT_SE\160286 IH-43 STH 164 to Beloit road Bridge rehabilitation\Structures\B-67-325\cds\B325_080103_cs.dgn PLOT DATE : 11/26/2019 PLOT BY : sconnolly PLOT NAME : $FILE$ PLOT SCALE : 1:8

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov