MAY 2018

ORDER OF SHEETS

Typical Sections and Details Estimate of Quantities

Miscellaneous Ougntities Right of Way Plat

Section No. 5 Plan and Profile

Section No. 6 Standard Detail Drawings

Sign Plates Section No. 8 Structure Plans

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 86

DESIGN DESIGNATION

| A.A.D.T. | = | N/A |
|--------------|---|-----|
| A.A.D.T. | = | N/A |
| D.H.V. | = | N/A |
| D.D. | E | N/A |
| т. | = | N/A |
| DESIGN SPEED | = | N/A |
| ESALS | = | N/A |

CONVENTIONAL SYMBOLS

| PLAN CORPORATE LIMITS | <u> </u> |
|-----------------------------------|--------------|
| PROPERTY LINE | - |
| LOT LINE | |
| LIMITED HIGHWAY EASEMENT | L |
| EXISTING RIGHT OF WAY | |
| PROPOSED OR NEW R/W LINE | ****** |
| SLOPE INTERCEPT | |
| REFERENCE LINE | |
| EXISTING CULVERT | 1= |
| PROPOSED CULVERT (Box or Pipe) | - |
| COMBUSTIBLE FLUIDS | M |

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION

CULVERT (Profile View)

UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER

UTILITY PEDESTAL POWER POLE TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

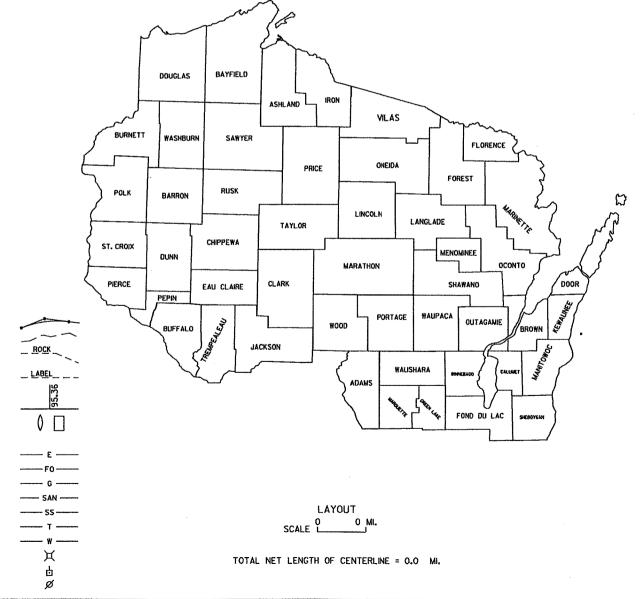
PLAN OF PROPOSED IMPROVEMENT

SIGN BRIDGE REPLACEMENT

REGIONWIDE VARIOUS ROUTES

VAR HWY **BROWN COUNTY**

> STATE PROJECT NUMBER 1009-30-13



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2018241 1009-30-13



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Designer

FICKETT STRUCTURAL SOLUTIONS

Project Manager Regional Examiner

WOODED OR SHRUB AREA

MARSH AREA

2

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.

DESIGN CONTACT

FICKETT STRUCTURAL SOLUTIONS 3148 DEMING WAY, SUITE 160 MIDDLETON, WI 53562 ATTN: BRIAN R. SCHMIDT (608) 831-3238

DNR LIASION CONTACTS

JIM DOPERALSKI (920) 662-5119 JAMES, DOPERALSKI @WISCONSIN. GOV BROWN, MARINETTE, MENOMINEE, OCONTO, SHAWANO COUNTIES

MATT SCHAEVE (920) 366-1544 MATTHEW.SCHAEVE@WISCONSIN.GOV CALUMET, DOOR, KEWAUNEE, MANITOWOC, OUTAGAMIE, WAUPACA COUNTIES

JAY SCHIEFELBEIN (920) 662-5130 JEREMIAH.SCHIEFELBEINOWISCONSIN.GOV FOND DU LAC, GREEN LAKE, SHEBOYGAN, WAUSHARA, WINNEBAGO COUNTIES

AMY CRONK (715) 635-4229 AMY.CRONK@WISCONSIN.GOV BARRON, BURNETT, CHIPPEWA, DOUGLAS, EAU CLAIRE, POLK COUNTIES

AMY LESIK (715) 836-6571 AMYL.LESIK@WISCONSIN.GOV BUFFALO, DUNN, PIERCE, PEPIN, TREMPEALEAU, ST. CROIX COUNTIES

TRAFFIC CONTACTS

NORTHEAST REGION: JOSH FALK (920) 366-8033 JOSHUA.FALK@DOT.WI.GOV

NORTHWEST REGION: CHAD HINES (715) 836-7276 CHAD.HINES@DOT.WI.GOV

REGIONAL ANCILLARY ENGINEER CONTACTS

NORTHEAST REGION: BRADY RADES (920) 492-4152 BRADY.RADES@DOT.WI.GOV

NORTHWEST REGION: KYLE HARRIS (715) 579-3516 KYLE.HARRIS@DOT.WI.GOV



PROJECT NO: 1009-30-13 HWY: VARIOUS COUNTY: VARIOUS GENERAL NOTES AND CONTACTS SCALE: SHEET E

FILE NAME: ...\10093013_Microstation File.dgn

PLOT DATE: 1/31/2018

PLOT BY: BSchmidt

PLOT NAME:

PLOT NAME:

PLOT NAME:

PLOT SCALE: Not to Scale

WISDOT/CADDS SHEET 42

BROWN COUNTY

| STRUCTURE NUMBER | HIGHWAY | DIRECTION | LOCATION |
|---------------------|---------|-----------|------------------------------------|
| S-05-0101 | IH-43 | NB | IH 43 NB AT EXIT RAMP TO CTH JJ |
| S-05-0103 | STH 32 | NB | STH 32 NB JUST SOUTH OF GLORY ROAD |

CALUMET COUNTY

| STRUCTURE NUMBER | HIGHWAY | DIRECTION | LOCATION |
|---------------------|---------|-----------|-----------------------------------|
| S-08-0001 | STH 441 | SB | 0.7 MILE NORTH OF JCT USH 10 |
| S-08-0008 | STH 441 | NB | STH 441 NB AT EXIT RAMP TO CTH KK |

CHIPPEWA COUNTY

| STRUCTURE NUMBER | HIGHWAY | DIRECTION | LOCATION | |
|---------------------|---------------------|-----------|--------------------------------------|--|
| S-09-0013 STH 29 EB | | EB | STH 29 EB, 0.12 MI E OF USH 53 UNDER | |
| S-09-0032 | S-09-0032 USH 53 SB | | USH 53 SB EXIT RAMP TO CTH OO | |

DOUGLAS COUNTY

| STRUCTURE NUMBER | HIGHWAY | DIRECTION | LOCATION |
|---------------------|----------|-----------|--------------------------|
| S-16-0022 | USH 2/53 | NB/SB | USH 2/53, INSIDE SWEF 72 |

DUNN COUNTY

| STRUCTURE NUMBER | HIGHWAY | DIRECTION | LOCATION |
|---------------------|---------|-----------|---|
| S-17-0004 | IH-94 | EB | EB IH 94 ON WILSON ST OVER (BRIDGE B-17-40) |

EAU CLAIRE COUNTY

| STRUCTURE NUMBER | HIGHWAY | DIRECTION | LOCATION | |
|---------------------|---------------------|-----------|--|--|
| S-18-0009 IH-94 | | EB | RAMP TO USH 53 N, 0.10 MI E OF 53 OVER | |
| S-18-0101 | S-18-0101 USH 53 SB | | USH 53-S, RAMP TO CTH AA | |
| S-18-0120 IH-94 EB | | EB | RAMP TO USH 53 N, 0.10 MI E OF 53 OVER | |

OUTAGAMIE COUNTY

| STRUCTURE NUMBER | HIGHWAY | DIRECTION | LOCATION |
|---------------------|--------------------|-----------|--|
| S-44-0002 | STH 441 | NB | STH 441 NB, 1/4 MILE SOUTH OF IH 41 |
| S-44-0006 | STH 441 | NB/SB | STH 441 NB/SB, 1/4 MILE SOUTH OF CTH E |
| S-44-0020 | STH 96 | WB | STH 96 WB AT STH 76 INTERSECTION |
| S-44-0028 | STH 441 | NB | STH 441 NB AT SPLIT TO IH-41 |
| S-44-0034 | S-44-0034 IH-41 NB | | IH-41 NB, 1/2 MI WEST OF STH 441 |
| S-44-0035 | IH-41 | NB | IH 41 NB AT EXIT TO STH 441 SOUTH |

SAINT CROIX COUNTY

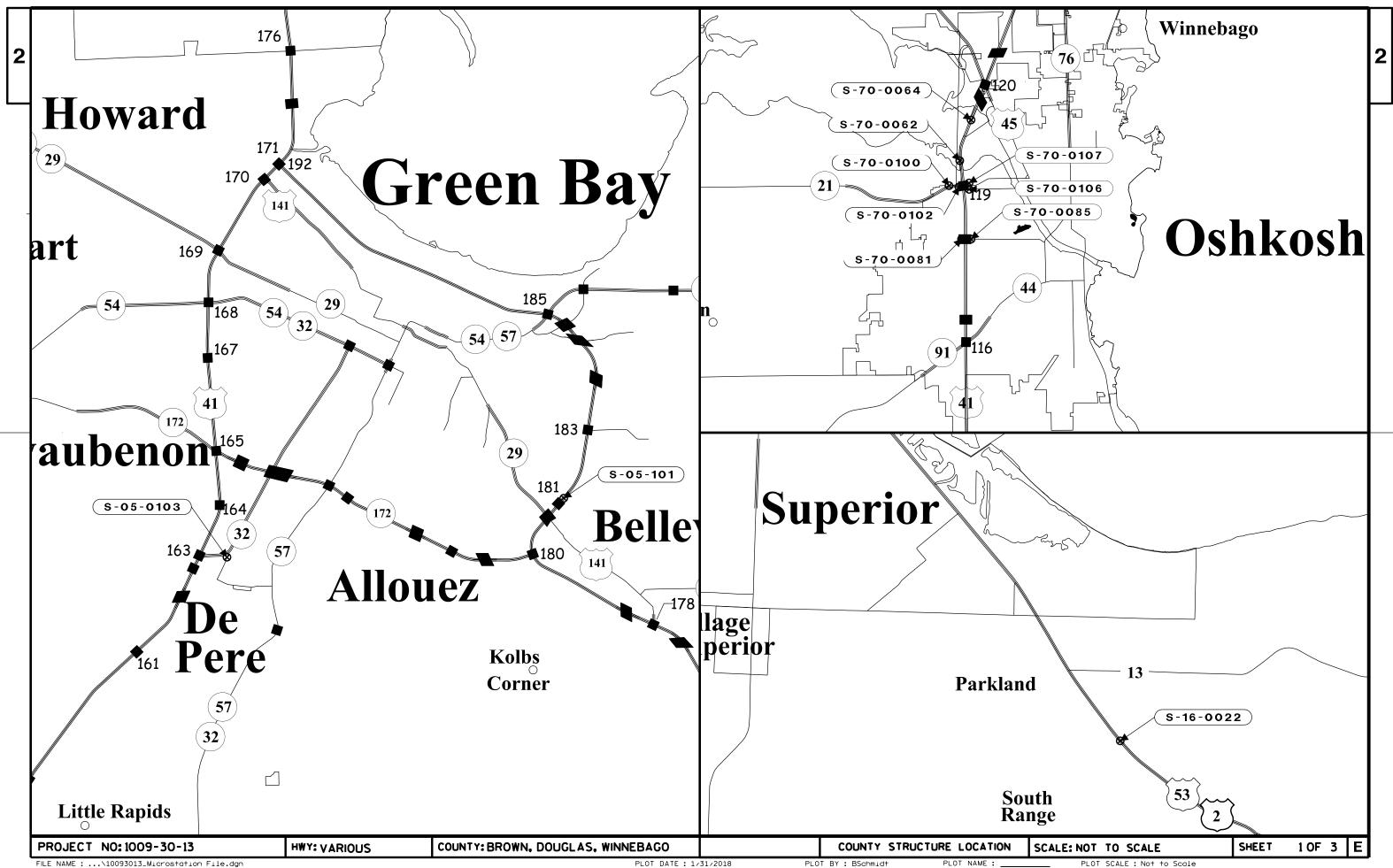
| STRUCTURE NUMBER | HIGHWAY | DIRECTION | LOCATION |
|---------------------|---------|-----------|---|
| L-55-0004 | IH-94 | WB | IH-94 WB. 0.35 MI W OF 11TH ST OVER. NE QUADRANT STH 35-N / IH-94 |
| | NUMBER | NUMBER | NUMBER HIGHWAY DIRECTION |

WINNEBAGO COUNTY

| STRUCTURE NUMBER | HIGHWAY | DIRECTION | LOCATION |
|---------------------|--|-----------|---|
| S-70-0036 | IH-41 | NB | IH-41 NB, AT EXIT TO CTH BB |
| S-70-0041 | USH 10 | WB | USH 10 WB AT GORE TO USH 45 NB/SB |
| S-70-0042 | USH 10 | WB | USH 10 WB AT USH 45 NB ENTRANCE RAMP |
| S-70-0046 | USH 45 | SB | USH 45 SB AT GORE TO USH 10 WB |
| S-70-0062 | S-70-0062 IH-41 | | IH-41 SB, 500' NORTH OF STH 21 |
| S-70-0064 | IH-41 | SB | IH-41 SB, LAKE BUTTE DES MORTS, 3/4MI NORTH OF STH 21 |
| S-70-0081 | IH-41 | SB | IH-41 SB OFF RAMP TO 9TH AVE |
| S-70-0085 | 0-0085 LRD | | 9TH AVE WB JUST WEST OF KOELLER ST. (OSHKOSH) |
| S-70-0100 | STH 21 | WB | STH 21 WB JUST EAST OF OMRO RD |
| S-70-0102 | STH 21 | EB | STH 21 EB, 500' WEST OF IH-41 |
| S-70-0106 | 0106 IH-41 NB IH-41 NB AT EXIT TO STH 21 | | IH-41 NB AT EXIT TO STH 21 |
| S-70-0107 | STH 21 | EB | STH 21 JUST EAST OF IH-41 |
| S-70-0125 | LRD | WB | WB BELL STREET JUST WEST OF HARRISON STREET (NEENAH) |
| | - | | |

2

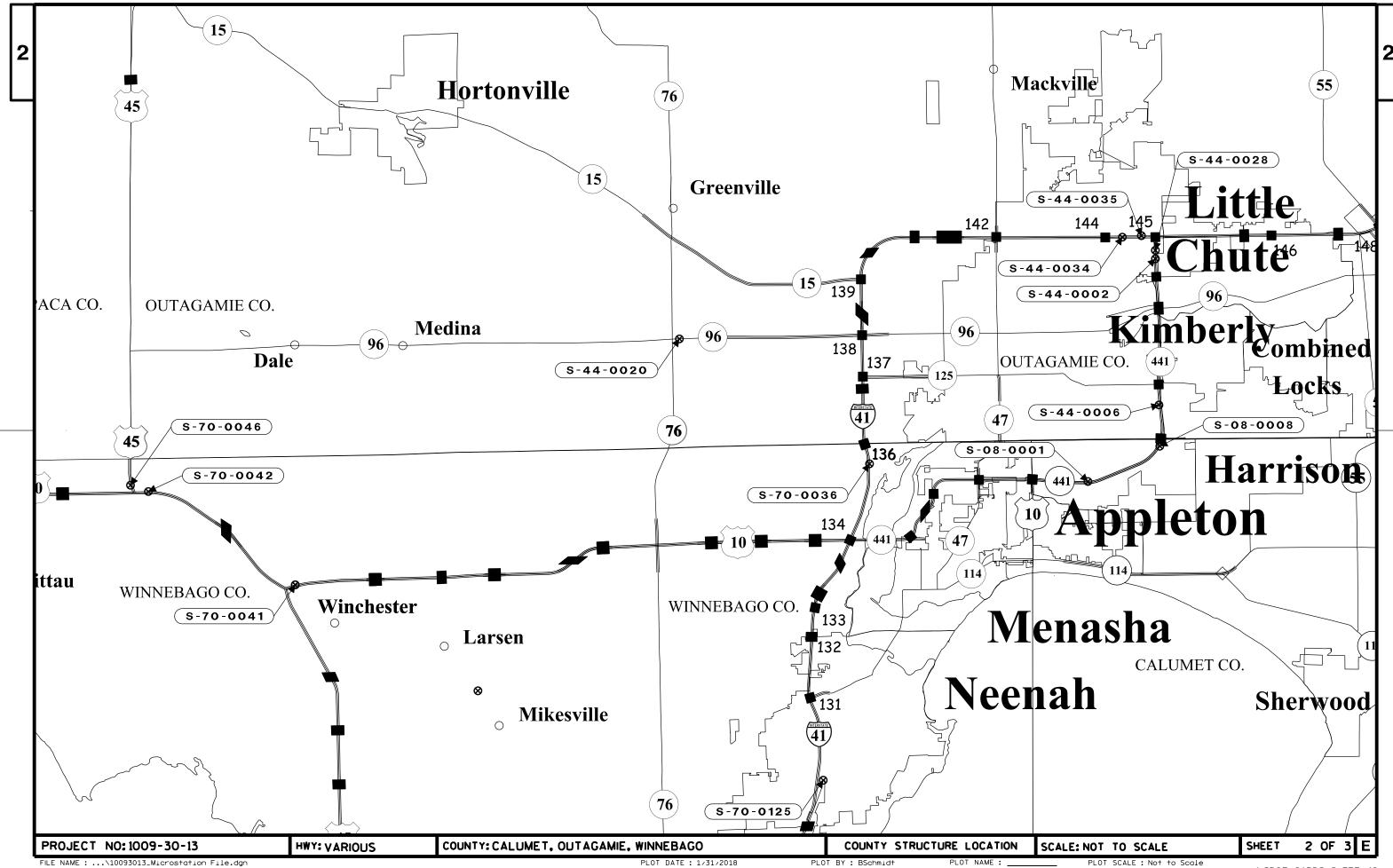
PROJECT NO: 1009-30-13 HWY: VARIOUS COUNTY: VARIOUS SIGN REPAIR LOCATIONS SCALE: NOT TO SCALE SHEET E



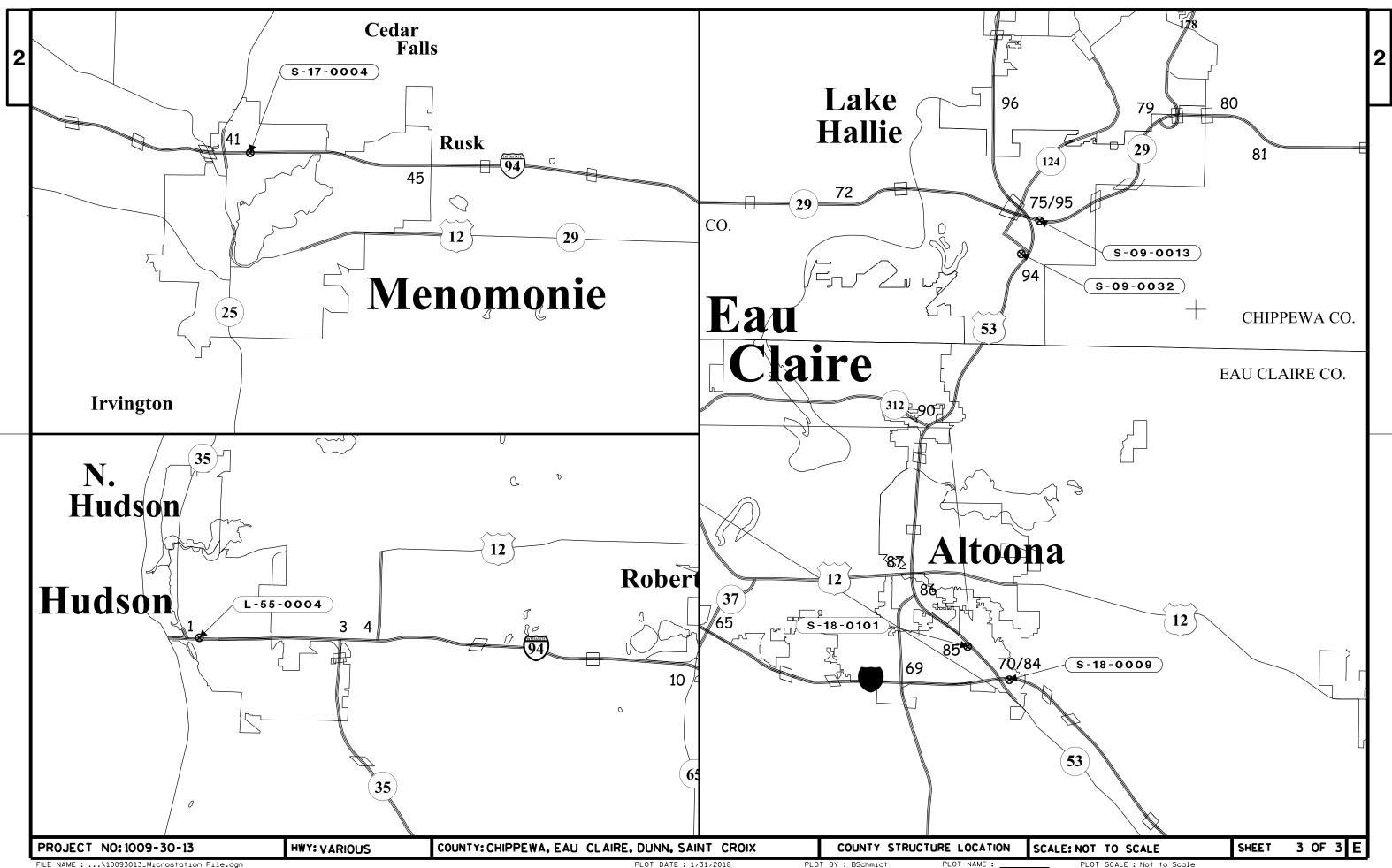
FILE NAME: ...\10093013_Microstation File.dgn

PLOT DATE: 1/31/2018

WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42

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TRAFFIC CONTROL AND WORK RESTRICTIONS

| REGION | STRUCTURE NUMBER | HIGHWAY | DIRECTION OF TRAVEL | LOCATION | TRAFFIC CONTROL | RESTRICTED HOURS |
|-----------|---------------------|----------|------------------------|--|-----------------------------|--|
| Northeast | S-05-0101 | IH-43 | NB | IH 43 NB AT EXIT RAMP TO CTH JJ | SDD15d12 | NONE |
| Northeast | S-05-0103 | STH 32 | NB | STH 32 NB JUST SOUTH OF GLORY ROAD | SDD15d20 | NONE |
| Northeast | S-08-0001 | STH 441 | NB/SB | 0.7 MILE NORTH OF JCT USH 10 | SDD15d12 | NORTHBOUND: MONDAY-FRIDAY 7:00 AM - 8:00 AM, 2:00 PM-7:00 PM SOUTHBOUND: MONDAY - FRIDAY 6:00 AM - 9:00 AM, 3:00PM - 6:00PM |
| Northeast | S-08-0008 | STH 441 | NB | STH 441 NB AT EXIT RAMP TO CTH FF | SDD15d12 | NONE |
| Northwest | S-09-0013 | STH 29 | EB | 0.12 MI E OF USH 53 UNDER | NOTE 4, SDD15d12 | FRIDAY: 11-00 AM - 7:00 PM |
| Northwest | S-09-0032 | USH 53 | SB | USH 53 SB EXIT RAMP TO CTH OO | SDD15d12, SDD15d14 | NONE |
| Northwest | S-16-0022 | USH 2/53 | NB/SB | LOCATED INSIDE SWEF 72, SOUTH OF SUPERIOR | NOTE 5 | NONE |
| Northwest | S-17-0004 | IH-94 | EB | EB IH 94 ON WILSON ST OVER (BRIDGE B-17-40) | SDD15d12 | 9:00 AM TO 6:00 PM |
| Northwest | S-18-0009 | IH-94 | EB | RAMP TO USH 53 N, 0.10 MI E OF 53 OVERPASS | SEE TRAFFIC CONTROL DETAILS | NONE |
| Northwest | S-18-0101 | USH 53 | SB | USH 53-S, RAMP TO CTH AA | SDD15d16 | NONE |
| Northwest | S-18-0120 | IH-94 | EB | RAMP TO USH 53 N, 0.10 MI E OF 53 OVERPASS | SEE TRAFFIC CONTROL DETAILS | NONE |
| Northeast | S-44-0002 | STH 441 | NB | STH 441 NB, 1/4 MILE SOUTH OF IH 41 | SDD15d12 | MONDAY - FRIDAY 7:00 AM - 10:00 AM, 4:00 PM - 7:00 PM |
| Northeast | S-44-0006 | STH 441 | NB/SB | STH 441 NB/SB, 1/4 MILE SOUTH OF CTH E | SDD15d12 | NONE |
| Northeast | S-44-0020 | STH 96 | WB | STH 96 WB AT STH 76 INTERSECTION | SDD15d28 | NONE |
| Northeast | S-44-0028 | STH 441 | NB | STH 441 NB AT SPLIT TO USH-41 | SDD15d12 | MONDAY - FRIDAY 7:00 AM - 10:00 AM, 4:00 PM - 7:00 PM |
| Northeast | S-44-0034 | IH-41 | NB | IH-41 NB, 1/2 MI WEST OF STH 441 | SDD15d12 | MONDAY - SATURDAY 6:00 AM - 7:00 PM, SUNDAY 10:00 AM - 7:00 PM |
| Northeast | S-44-0035 | IH-41 | NB | IH 41 NB AT EXIT TO STH 441 SOUTH | SDD15d12 | MONDAY - SATURDAY 6:00 AM - 7:00 PM, SUNDAY 10:00 AM - 7:00 PM |
| Northwest | L-55-0004 | IH-94 | WB | I-94 WB. 0.35 MI W OF 11TH ST OVER. NE QUADRANT STH 35-N / IH-94 | NOTE 3, SDD15d12 | 5:00 AM TO 7:00 PM |
| Northeast | S-70-0036 | IH-41 | NB | IH-41 NB, AT EXIT TO CTH BB | SDD15d12 | MONDAY - FRIDAY 2:00 PM - 6:00 PM |
| Northeast | S-70-0041 | USH 10 | WB | USH 10 WB AT GORE TO USH 45 NB/SB | SDD15d27 | NONE |
| Northeast | S-70-0042 | USH 10 | WB | USH 10 WB AT USH 45 NB ENTRANCE RAMP | SDD15d27 | NONE |
| Northeast | S-70-0046 | USH 45 | SB | USH 45 SB AT GORE TO USH 10 WB | SDD15d16, SDD15d27 | RAMP CLOSURE |
| Northeast | S-70-0062 | IH-41 | SB | IH-41 SB, 500' NORTH OF STH 21 | SDD15d27 | NONE |
| Northeast | S-70-0064 | IH-41 | SB | IH-41 SB, LAKE BUTTE DES MORTS, 3/4MI NORTH OF STH 21 | SDD15d12 | MONDAY - FRIDAY 3:00 PM - 6:00 PM |
| Northeast | S-70-0081 | IH-41 | SB | IH-41 SB OFF RAMP TO 9TH AVE | SDD15d12 | NONE |
| Northeast | S-70-0085 | LRD | WB | 9TH AVE WB JUST WEST OF KOELLER ST. (OSHKOSH) | | NONE |
| Northeast | S-70-0100 | STH 21 | WB | STH 21 WB JUST EAST OF OMRO RD | | NONE |
| Northeast | S-70-0102 | STH 21 | EB | STH 21 EB, 500' WEST OF IH-41 | SDD15d12 | MONDAY - FRIDAY 6:00 AM - 8:00 AM, 4:00 PM - 6:00 PM |
| Northeast | S-70-0106 | IH-41 | NB | IH-41 NB AT EXIT TO STH 21 | | NONE |
| Northeast | S-70-0107 | STH 21 | WB | STH 21 JUST EAST OF IH-41 | | NONE |
| Northeast | S-70-0125 | LRD | WB | WB BELL STREET JUST WEST OF HARRISON STREET (NEENAH) | | NONE |

TRAFFIC CONTROL NOTES

1. RESTRICTED HOUR TABLE INDICATES TIME FRAMES WHEN LANE CLOSURES ARE NOT PERMITTED.

- 2. PRE-WARN TRAFFIC WITH PCMS AND PRESS RELEASE AS DESIGNATED.
- 3. COORDINATE WITH PROJECT 1020-06-75.
- 4. WHEN CLOSING RIGHT LANE, ALSO CLOSE AUXILLARY LANE KEEP RAMPS OPEN WHEN POSSIBLE USING SSDI5D15.
- 5. COORDINATE WITH WISCONSIN STATE PATROL TO PERFORM REPAIRS OF STRUCTURES RELATED TO SWEF 72.

PROJECT NO: 1009-30-13 HWY: VARIOUS COUNTY: VARIOUS TRAFFIC CONTROL SCALE: NOT TO SCALE SHEET _____ E

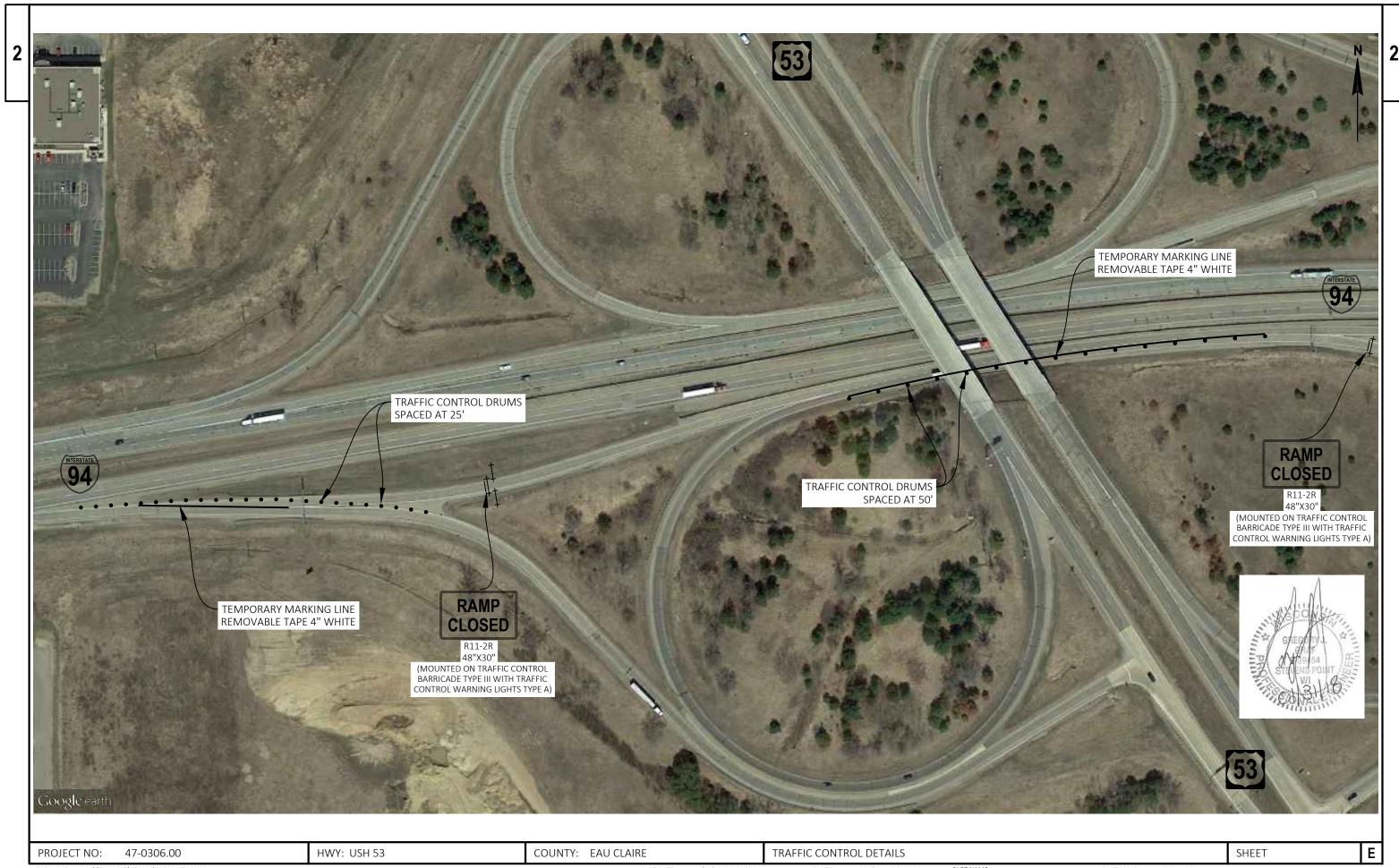
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PLOT DATE: 1/31/2018

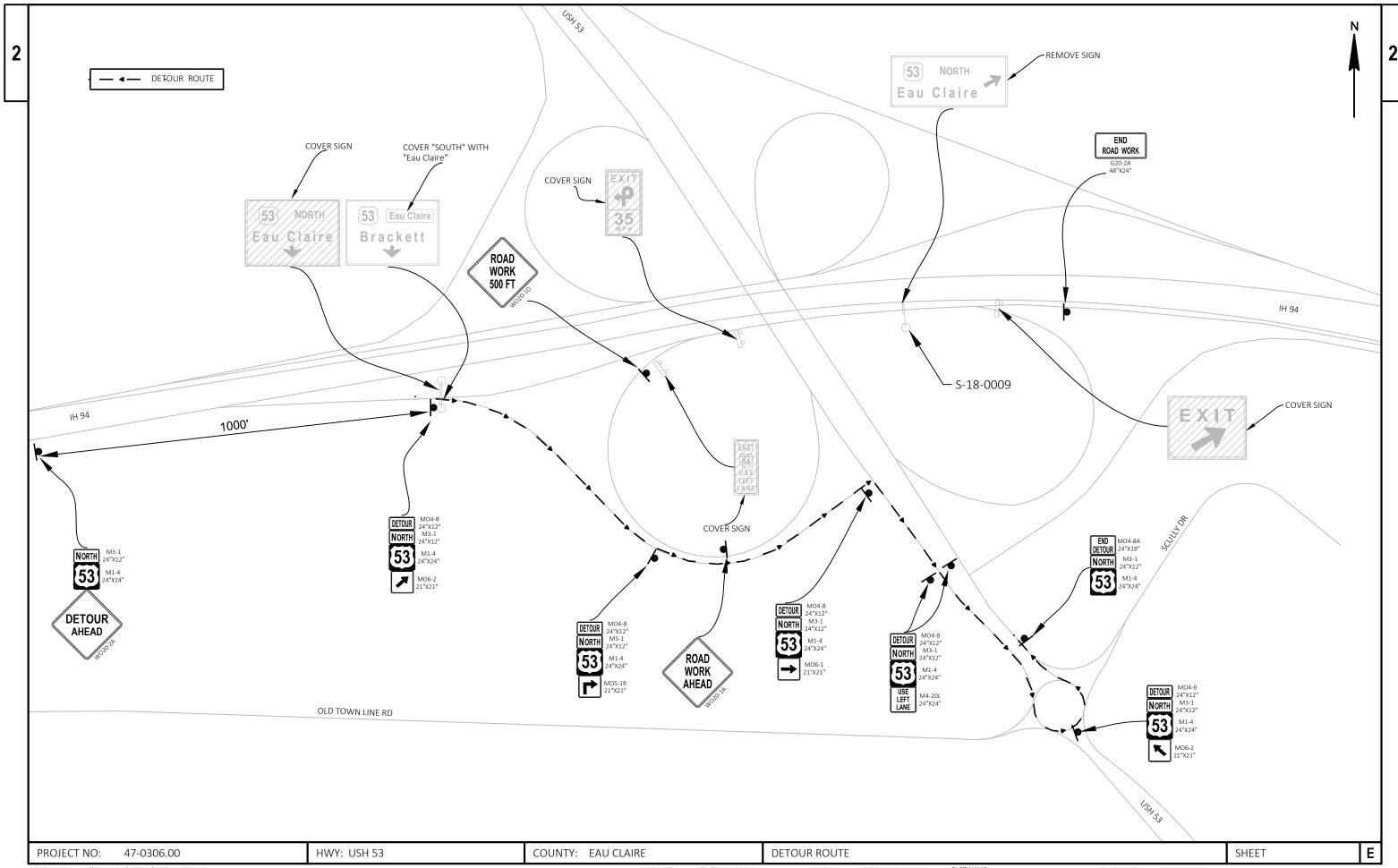
PLOT BY: BSchmidt

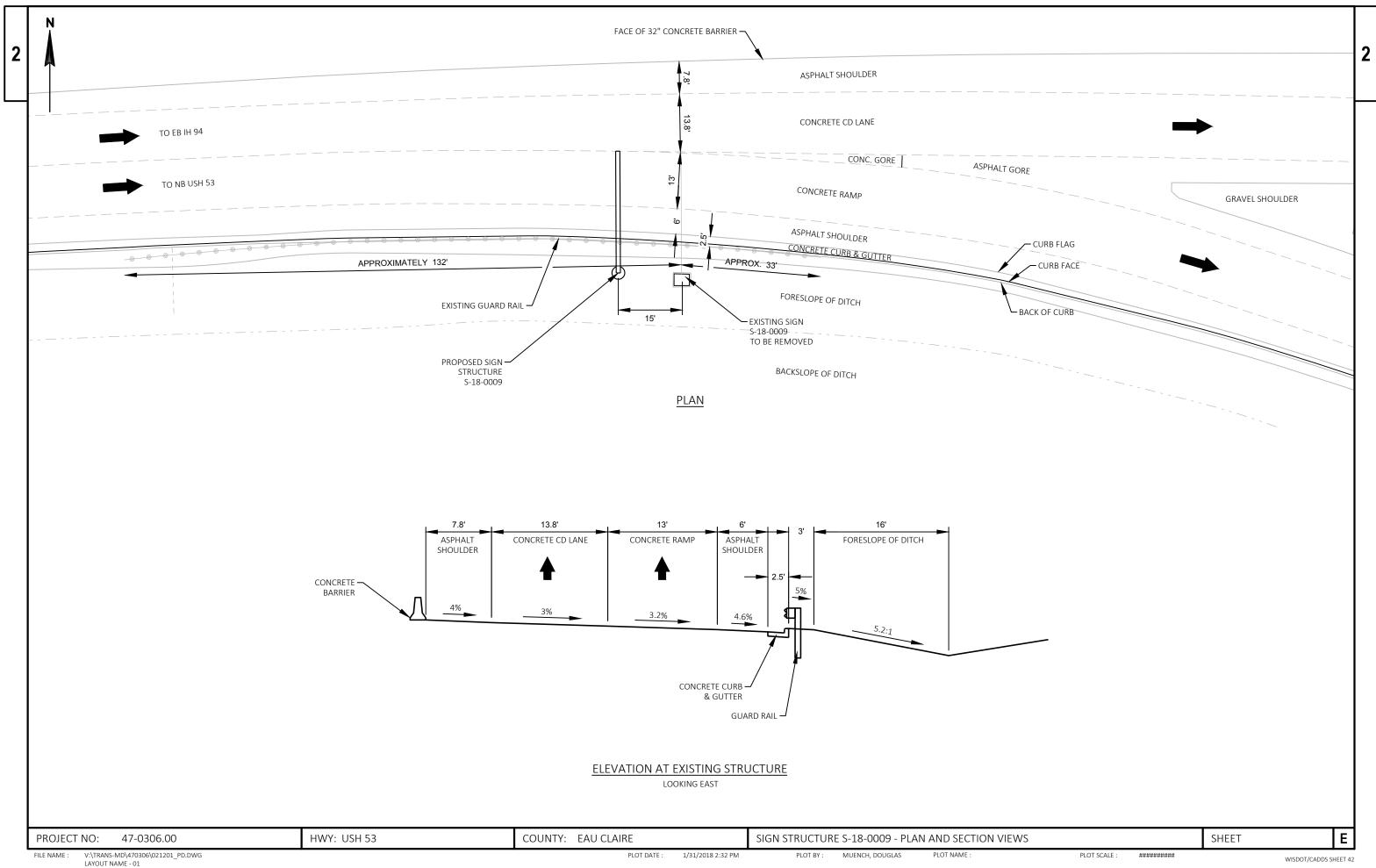
PLOT NAME: _____ PLOT SCALE: Not to Scale

WISDOT/CADDS SHEET 42



V:\TRANS-MD\470306\025001_TC.DWG LAYOUT NAME - 01 FILE NAME : PLOT DATE : 1/31/2018 1:31 PM PLOT BY: MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : WISDOT/CADDS SHEET 42





Estimate Of Quantities

| | | | | | 1009-30-13 |
|------|-----------|--|---------|-----------|------------|
| | | | | | 1008-30-13 |
| Line | Item | Item Description | Unit | Total | Qty |
| 0002 | 619.1000 | Mobilization | EACH | 1.000 | 1.000 |
| 0004 | 625.0100 | Topsoil | SY | 330.000 | 330.000 |
| 0006 | 628.1504 | Silt Fence | LF | 300.000 | 300.000 |
| 8000 | 628.1520 | Silt Fence Maintenance | LF | 300.000 | 300.000 |
| 0010 | 628.1905 | Mobilizations Erosion Control | EACH | 1.000 | 1.000 |
| 0012 | 628.2002 | Erosion Mat Class I Type A | SY | 330.000 | 330.000 |
| 0014 | 629.0210 | Fertilizer Type B | CWT | 0.210 | 0.210 |
| 0016 | 630.0120 | Seeding Mixture No. 20 | LB | 6.000 | 6.000 |
| 0018 | 636.0100 | Sign Supports Concrete Masonry | CY | 8.000 | 8.000 |
| 0020 | 636.1500 | Sign Supports Steel Coated Reinforcement HS | LB | 990.000 | 990.000 |
| 0022 | 637.2210 | Signs Type II Reflective H | SF | 12.000 | 12.000 |
| 0024 | 638.2101 | Moving Signs Type I | EACH | 1.000 | 1.000 |
| 0026 | 638.2601 | Removing Signs Type I | EACH | 1.000 | 1.000 |
| 0028 | 638.2602 | Removing Signs Type II | EACH | 1.000 | 1.000 |
| 0030 | 638.3150 | Removing Overhead Sign Supports Cantilever (structure) 01. S-18-0009 | EACH | 1.000 | 1.000 |
| 0032 | 641.1200 | Sign Bridge Cantilevered (structure) 01. S-18-0120 | LS | 1.000 | 1.000 |
| 0034 | 643.0300 | Traffic Control Drums | DAY | 840.000 | 840.000 |
| 0036 | 643.0420 | Traffic Control Barricades Type III | DAY | 84.000 | 84.000 |
| 0038 | 643.0705 | Traffic Control Warning Lights Type A | DAY | 112.000 | 112.000 |
| 0040 | 643.0900 | Traffic Control Signs | DAY | 364.000 | 364.000 |
| 0042 | 643.0910 | Traffic Control Covering Signs Type I | EACH | 2.000 | 2.000 |
| 0044 | 643.0920 | Traffic Control Covering Signs Type II | EACH | 2.000 | 2.000 |
| 0046 | 643.5000 | Traffic Control | EACH | 1.000 | 1.000 |
| 0048 | 649.0150 | Temporary Marking Line Removable Tape 4-Inch | LF | 1,050.000 | 1,050.000 |
| 0050 | 650.6500 | Construction Staking Structure Layout (structure) 01. S-18-0009 | | 1.000 | 1.000 |
| 0052 | SPV.0060 | Special 01. Tension Anchor Rod | EACH | 136.000 | 136.000 |
| 0054 | SPV.0060 | Special 02. Fill Erosion | EACH | 1.000 | 1.000 |
| 0056 | SPV.0060 | Special 04. Repair Foundation | EACH | 2.000 | 2.000 |
| 0058 | SPV.0060 | Special 05. Replace Rodent Screen | EACH | 2.000 | 2.000 |
| 0060 | SPV.0060 | Special 06. Remove Grout Pad | EACH | 1.000 | 1.000 |
| 0062 | SPV.0060 | Special 10. Tension Structural Connection Bolt | EACH | 63.000 | 63.000 |
| 0064 | SPV.0060 | Special 12. Replace End Cap | EACH | 1.000 | 1.000 |
| 0066 | SPV.0060 | Special 13. Secure/Replace Post Cap | EACH | 12.000 | 12.000 |
| 0068 | SPV.0060 | Special 16. Tighten Connection Bolt (Non-Friction) | EACH | 9.000 | 9.000 |
| 0070 | SPV.0060 | Special 17. Replace Dampener | EACH | 2.000 | 2.000 |
| 0072 | SPV.0060 | Special 20. Replace Sign Panel Connector | EACH | 6.000 | 6.000 |
| 0074 | SPV.0060 | Special 21. Replace Type II Sign Support Bracket | EACH | 3.000 | 3.000 |
| 0076 | SPV.0060 | Special 26. Replace Sign Bridge ID plaque | EACH | 2.000 | 2.000 |
| 5515 | O1 V.0000 | opoolal 20. Ropidoo olgii bilago ib piaqao | L/ (OII | 2.000 | 2.000 |

Estimate Of Quantities Page 2

| | | | | | 1009-30-13 |
|------|----------|---|------|--------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0078 | SPV.0060 | Special 45. Adjust Bridge Mounted Type I Sign Support | EACH | 1.000 | 1.000 |
| 0800 | SPV.0060 | Special 46. Repair Type I Sign | EACH | 1.000 | 1.000 |
| 0082 | SPV.0060 | Special 50. Traffic Control - Single Lane Closure | EACH | 19.000 | 19.000 |
| 0084 | SPV.0060 | Special 51. Traffic Control - Double Lane Closure | EACH | 1.000 | 1.000 |
| 0086 | SPV.0060 | Special 52. Traffic Control - Ramp Closure | EACH | 1.000 | 1.000 |
| 8800 | SPV.0105 | Special 01. Structure Repainting Organic Zinc Rich | LS | 1.000 | 1.000 |

BID ITEM QUANTITES

| | | | 636.0100 | 636.1500 | 637.2210 | 638.2101 | 638.2602 | 638.3150 | 641.1200 | SPV.0060.01 | SPV.0060.02 | SPV.0060.04 | SPV.0060.05 | SPV.0060.06 | SPV.0060.10 | SPV.0060.12 | SPV.0060.13 |
|---------------------|----------------|-------------|---|---|----------|------------------------|---------------------------|---|--|-----------------------|--------------|----------------------|--------------------------|-------------|--|-----------------|-----------------------------|
| STRUCTURE NUMBER | Region | соинту | SIGN SUPPORTS CONCRETE MASONRY | SIGN SUPPORTS STEEL COATED REINFORCEMEN T HS | | MOVING SIGNS TYPE I | REMOVING SIGNS TYPE II | REMOVING OVERHEAD SIGN SUPPORTS CANTILEVER (S-18-0009) | SIGN BRIDGE CANTILEVERED S-18-0120 | TENSION ANCHOR ROD | FILL EROSION | REPAIR FOUNDATION | REPLACE RODENT SCREEN | | TENSION STRUCTURAL CONNECTION BOLT | REPLACE END CAP | SECURE/ REPLACE POS' CAP |
| | | | CY | LB | SF | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA |
| S-05-0101 | Northeast | Brown | | | | | | | | 8 | | | | | | | |
| S-05-0103 | Northeast | Brown | | | | | | | | | | | | | | | 1 |
| S-08-0001 | Northeast | Calumet | | | | | | | | | | | | 1 | | | 1 |
| S-08-0008 | Northeast | Calumet | | | | | | | | 6 | | | | | | | 2 |
| S-09-0013 | Northwest | Chippewa | | | | | | | | | | | | | | | 4 |
| S-09-0032 | Northwest | Chippewa | | | 12 | | 1 | | | | | | | | | | |
| S-16-0022 | Northwest | Douglas | | | | | | | | 6 | | | 1 | | | | |
| S-17-0004 | Northwest | Dunn | | | | | | | | | | | | | | | |
| S-18-0009 | Northwest | Eau Claire | | | | 1 | | 1 | | | | | | | | | |
| S-18-0101 | Northwest | Eau Claire | | | | | | | | | | | | | | 1 | |
| S-18-0120 | Northwest | Eau Claire | 8 | 990 | | | | | 1 | | | | | | | | |
| S-44-0002 | Northeast | Outagamie | | | | | | | | | 1 | | | | | | |
| S-44-0006 | Northeast | Outagamie | | | | | | | | | | | | | | | 1 |
| S-44-0020 | Northeast | Outagamie | | | | | | | | 4 | | | | | | | |
| S-44-0028 | Northeast | Outagamie | | | | | | | | 16 | | | | | | | 3 |
| S-44-0034 | Northeast | Outagamie | | | | | | | | | | | | | 3 | | |
| S-44-0035 | Northeast | Outagamie | | | | | | | | | | | | | 16 | | |
| L-55-0004 | Northwest | Saint Croix | | | | | | | | | | | 1 | | | | |
| S-70-0036 | Northeast | Winnebago | | | | | | | | | | | | | 32 | | |
| S-70-0041 | Northeast | Winnebago | | | | | | | | 16 | | | | | | | |
| S-70-0042 | Northeast | Winnebago | | | | | | | | | | | | | 3 | | |
| S-70-0046 | Northeast | Winnebago | | | | | | | | | | 2 | | | 3 | | |
| S-70-0062 | Northeast | Winnebago | | | | | | | | 8 | | | | | | | |
| S-70-0064 | Northeast | Winnebago | | | | | | | | | | | | | 6 | | |
| S-70-0081 | Northeast | Winnebago | | | | | | | | 12 | | | | | | | |
| S-70-0085 | Northeast | Winnebago | | | | | | | | 12 | | | | | | | |
| S-70-0100 | Northeast | Winnebago | | | | | | | | 12 | | | | | | | |
| S-70-0102 | Northeast | Winnebago | | | | | | | | | | | | | | | |
| S-70-0106 | Northeast | Winnebago | | | | | | | | 12 | | | | | | | |
| S-70-0107 | Northeast | Winnebago | | | | | | | | 12 | | | | | | | |
| S-70-0125 | Northeast | Winnebago | | | | | | | | 12 | | | | | | | |
| | TOTAL QUANTITY | | 8 | 990 | 12 | 1 | 1 | 1 | 1 | 136 | 1 | 2 | 2 | 1 | 63 | 1 | 12 |

GENERAL NOTES

1. SEE STRUCTURE PLANS FOR MORE INFORMATION ON QUANTITIES.

PROJECT NO: 1009-30-11 HWY: VARIOUS COUNTY: VARIOUS MISCELLANEOUS QUANTITES SCALE: NOT TO SCALE SHEET ____ E

FILE NAME:...\10093013_Microstation File.dgn

PLOT DATE: 3/9/2018

PLOT BY: BSchmidt

PLOT NAME:_____ PLOT SCALE: Not to Scale

WISDOT/CADDS SHEET 42

3

| | | | SPV.0060.16 | SPV.0060.17 | SPV.0060.20 | SPV.0060.21 | SPV.0060.26 | SPV.0060.45 | SPV.0060.46 | SPV.0060.50 | SPV.0060.51 | SPV.0060.52 | SPV.0105.01 |
|---------------------|----------------|-------------|--|---------------------|------------------------------------|--|----------------------------------|---|--------------------|---|---|--------------------------------------|--|
| STRUCTURE NUMBER | Region | COUNTY | TIGHTEN CONNECTION BOLT (NON-FRICTION) | REPLACE DAMPENER | REPLACE SIGN PANEL CONNECTOR | REPLACE TYPE II SIGN SUPPORT BRACKET | REPLACE SIGN BRIDGE ID PLAQUE | REPAIR BRIDGE MOUNTED TYPE I SIGN SUPPORT | REPAIR TYPE I SIGN | TRAFFIC CONTROL - SINGLE LANE CLOUSRE | TRAFFIC CONTROL - DOUBLE LANE CLOSURE | TRAFFIC CONTROL - RAMP CLOSURE | STRUCTURE REPAINTING ORGANIC ZINC RICH SYSTEM |
| | | | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | LS |
| S-05-0101 | Northeast | Brown | | | | | | | | | | | |
| S-05-0103 | Northeast | Brown | | | | | | | | 1 | | | |
| S-08-0001 | Northeast | Calumet | | | | | | | | 1 | | | |
| S-08-0008 | Northeast | Calumet | | | | | | | | 2 | | | |
| S-09-0013 | Northwest | Chippewa | | | | | | | | 2 | | | |
| S-09-0032 | Northwest | Chippewa | | 1 | | 3 | 1 | | | 1 | 1 | | |
| S-16-0022 | Northwest | Douglas | | | | | 1 | | | | | | |
| S-17-0004 | Northwest | Dunn | | | 6 | | | 1 | | 1 | | | |
| S-18-0009 | Northwest | Eau Claire | | | | | | | | | | | |
| S-18-0101 | Northwest | Eau Claire | | | | | | | | | | 1 | |
| S-18-0120 | Northwest | Eau Claire | | | | | | | | | | | |
| S-44-0002 | Northeast | Outagamie | | 1 | | | | | | 1 | | | |
| S-44-0006 | Northeast | Outagamie | | | | | | | | | | | |
| S-44-0020 | Northeast | Outagamie | | | | | | | | | | | |
| S-44-0028 | Northeast | Outagamie | 2 | | | | | | | 1 | | | |
| S-44-0034 | Northeast | Outagamie | | | | | | | | 1 | | | |
| S-44-0035 | Northeast | Outagamie | | | | | | | 1 | 1 | | | |
| L-55-0004 | Northwest | Saint Croix | | | | | | | | 1 | | | 1 |
| S-70-0036 | Northeast | Winnebago | | | | | | | | 1 | | | |
| S-70-0041 | Northeast | Winnebago | | | | | | | | _ | | | |
| S-70-0042 | Northeast | Winnebago | | | | | | | | | | | |
| S-70-0046 | Northeast | Winnebago | | | | | | | | 1 | | | |
| S-70-0062 | Northeast | Winnebago | | | | | | | | _ | | | |
| S-70-0064 | Northeast | Winnebago | | | | | | | | 1 | | | |
| S-70-0081 | Northeast | Winnebago | 2 | | | | | | | 1 | | | |
| S-70-0085 | Northeast | Winnebago | 1 - 1 | | 1 | | | | | <u> </u> | | | |
| S-70-0100 | Northeast | Winnebago | 1 | | 1 | 1 | | | | | | | |
| S-70-0102 | Northeast | Winnebago | 4 | | | | | | | 2 | | | |
| S-70-0106 | Northeast | Winnebago | 1 | | 1 | | | | | | | | |
| S-70-0107 | Northeast | Winnebago | | | <u> </u> | | | | | | | | |
| S-70-0107 | Northeast | Winnebago | 1 | | | | | | | | | | |
| 3-70-0123 | TOTAL QUANTITY | willinepag0 | 9 | 2 | 6 | 3 | 2 | 1 | 1 | 19 | 1 | 1 | 1 |

GENERAL NOTES

1. SEE STRUCTURE PLANS FOR MORE INFORMATION ON QUANTITIES.

PROJECT NO: 1009-30-11 HWY: VARIOUS COUNTY: VARIOUS MISCELLANEOUS QUANTITES SCALE: NOT TO SCALE SHEET _____ E

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CONSTRUCTION STAKING

| EROSION CONTR | ROL MOBILIZATION | | SILT FENCE | | EROSION MA | <u> </u> | TOPSOIL, | FERTILIZE | R, AND SEE | <u> </u> | | 650.6500 CONSTRUCTION |
|---------------|---|---------------|------------------------|---------------------------------------|--|--|--|---------------------|----------------------------------|---|----------------|--------------------------------------|
| | 628.1905 MOBILIZATION EROSION CONTROL | | 628.1504 SILT FENCE | 628.1520 SILT FENCE MAINTENANCE | | 628.2002 EROSION MAT CLASS I TYPE A | | 625.0100 TOPSOIL | 629.0210 FERTILIZER TYPE B | 630.0120 R SEEDING MIXTURE NO. 20 | | STAKING STRUCTURE LAYOUT (S-18-0009) |
| LOCATION | EACH | LOCATION | LF | LF | LOCATION | SY | LOCATION | SY | CWT | LB | LOCATION | LS |
| PROJECT | 1 | UNDISTRIBUTED | 300 | 300 | EXISTING S-18-0009 PROPOSED S-18-0009 | 50 280 | EXISTING S-18-0009 PROPOSED S-18-0009 | 50 280 | 0.03 0.18 | 1 5 | PROJECT TOTALS | 1 1 |
| TOTALS | 1 | | 300 | 300 | | 330 | TOTALS | 330 | 0.21 | 6 | | |

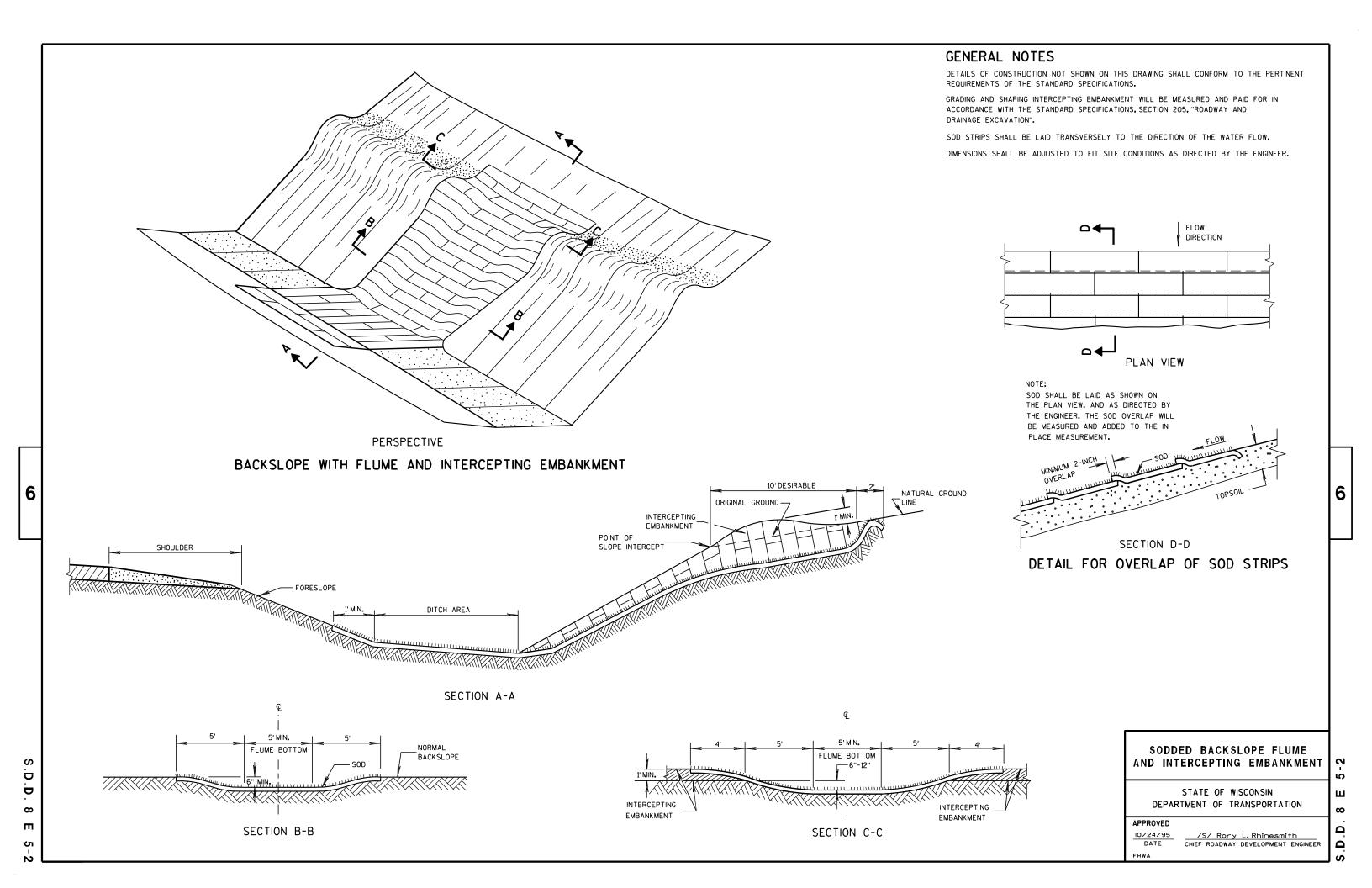
TRAFFIC CONTROL SUMMARY

| | APPROXIMAT SERVICE | TRAFFIC | 3.0300 CONTROL RUMS | 643.0 TRAFFIC C BARRICADE IN | ONTROL | 643.07 TRAFFIC CO WARNING LIGH IN | NTROL | TRAFFIC | 3.0900 CONTROL GNS | 643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE 1 | 643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE 2 | 649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4" (WHITE) | 638.2601 RBMOVE SIGNS TYPE 1 | 643.5000 TRAFFIC CONTROL | |
|--------------------------|-----------------------|---------|---------------------------|---------------------------------------|--------|--|-------|---------|--------------------------|--|---|--|------------------------------------|--------------------------------|--|
| LOCATION | DAYS | SERVIC | DAYS | SERVICE | DAYS | SERVICE | DAYS | SERVICE | DAYS | EACH | EACH | LF | EACH | EACH | NOTES |
| B IH 94 to NB/SB USH 53 | 14 | 40 | 560 | 3 | 42 | 4 | 56 | 1 | 14 | 1 | 0 | 300 | 0 | 1 | Cover "53 North Eau Claire", 1 cycle only |
| EB IH 94 - NB USH 53 | 14 | 20 | 280 | 3 | 42 | 4 | 56 | 1 | 14 | 0 | 1 | 750 | 0 | 0 | Cover "Exit 35 MPH", 1 cycle only |
| EB IH 94 - NB USH 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | Cover "Exit Arrow"/ Remove "53 North Eau Claire Arrow", 1 cycle only |
| H 94 - NB USH 53, DETOUR | ₹ 14 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 294 | 0 | 0 | 0 | 0 | 0 | Detour Signs, Cover "South" with "Eau Claire", 1 cycle only |
| SB USH 53 - EB IH 94 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 42 | 0 | 1 | 0 | 0 | 0 | Advance Warning Signs/ Cover "East 94 Use Left Lane", 1 cycle only |
| TOTALS | | | 840 | | 84 | | 112 | | 364 | 2 | 2 | 1,050 | 1 | 1 | |

PROJECT NO: 1009-30-11 HWY: VARIOUS COUNTY: VARIOUS MISCELLANEOUS QUANTITES SCALE: NOT TO SCALE SHEET _____ E

Standard Detail Drawing List

| 08E05-02 | SODDED BACKSLOPE FLUME AND INTERCEPTING EMBANKMENT |
|-----------|---|
| 08E08-03 | TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS |
| 08E09-06 | SILT FENCE |
| 12A04-03 | STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS |
| 15C02-06C | DETOUR SIGNING FOR MAINLINE CLOSURES |
| 15C11-07B | CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS |
| 15D12-06A | TRAFFIC CONTROL, LANE CLOSURE |
| 15D12-06B | TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION |
| 15D14-03 | TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS) |
| 15D15-04A | TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE |
| 15D15-04B | TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE |
| 15D16-03 | TRAFFIC CONTROL, EXIT RAMP CLOSURE |
| 15D20-04 | TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY |
| 15D27-03 | TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH |
| 15D28-03 | TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY |
| 15D38-02A | TEMPORARY TRAFFIC CONTROL SIGN MOUNTING |
| 15D38-02B | ATTACHMENT OF SLGNS TO POSTS |



GENERAL NOTES

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

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



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

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

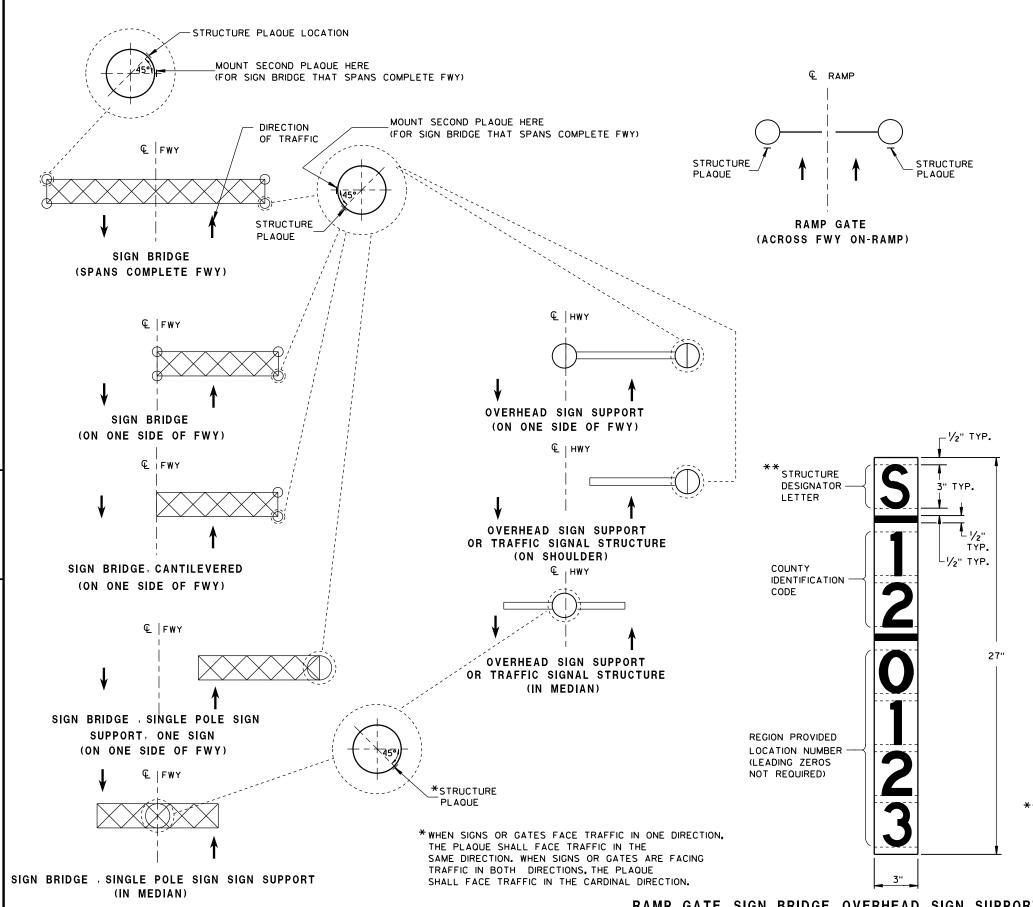
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LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD

SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

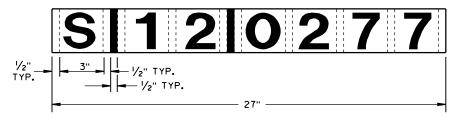
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

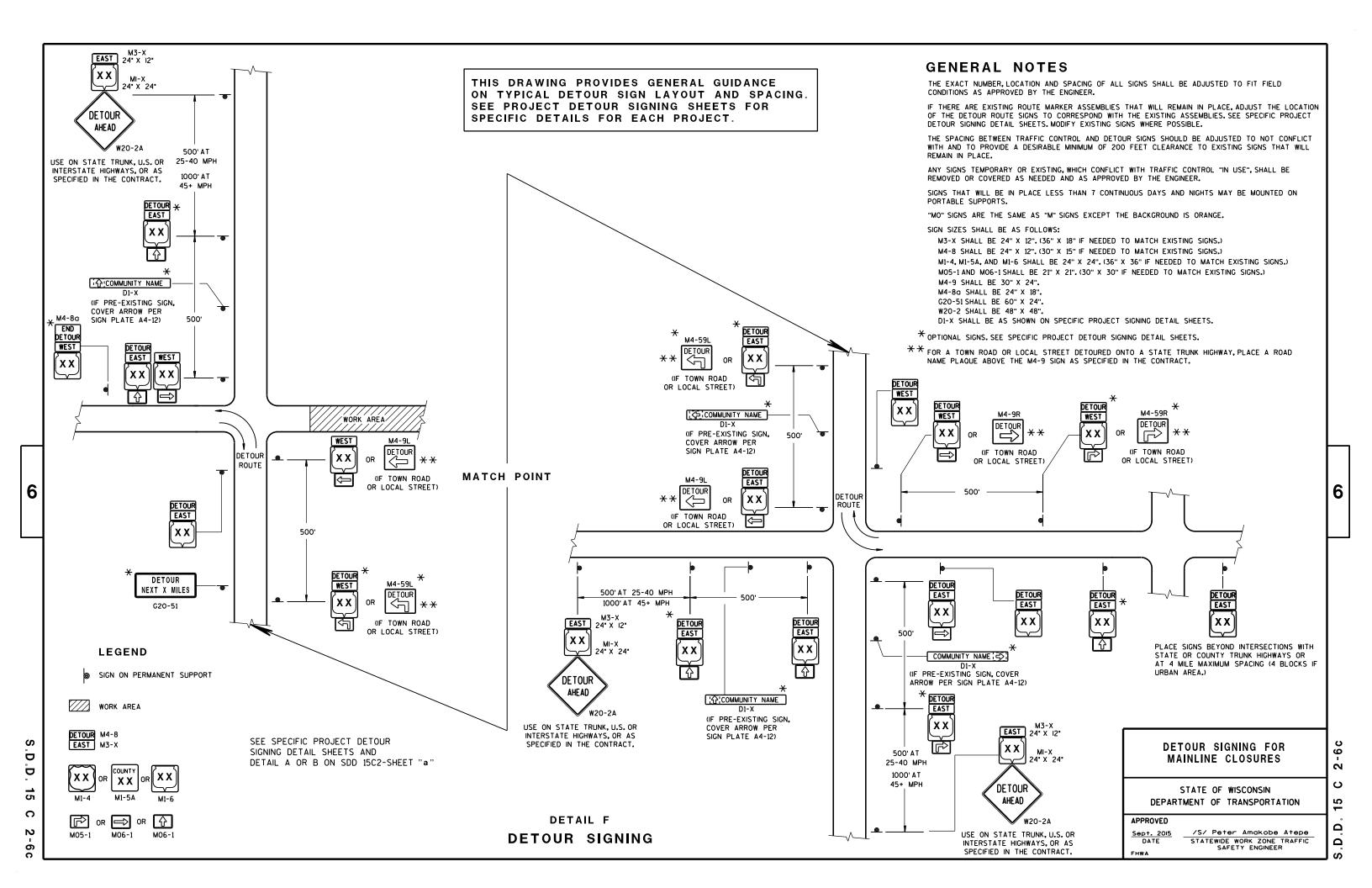
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE STATE TRAFFIC ENGINEER OF DESIGN

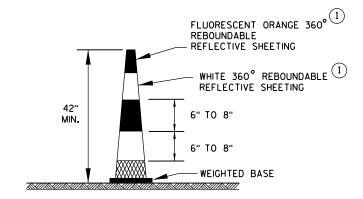
RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED



DRUM

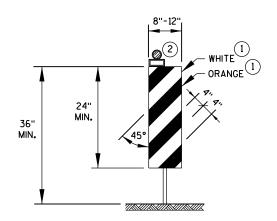
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

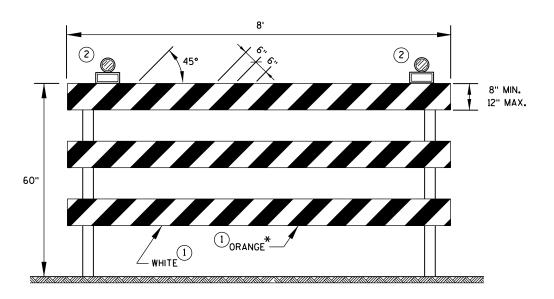


VERTICAL PANEL

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

GENERAL NOTES

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



TYPE 3 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

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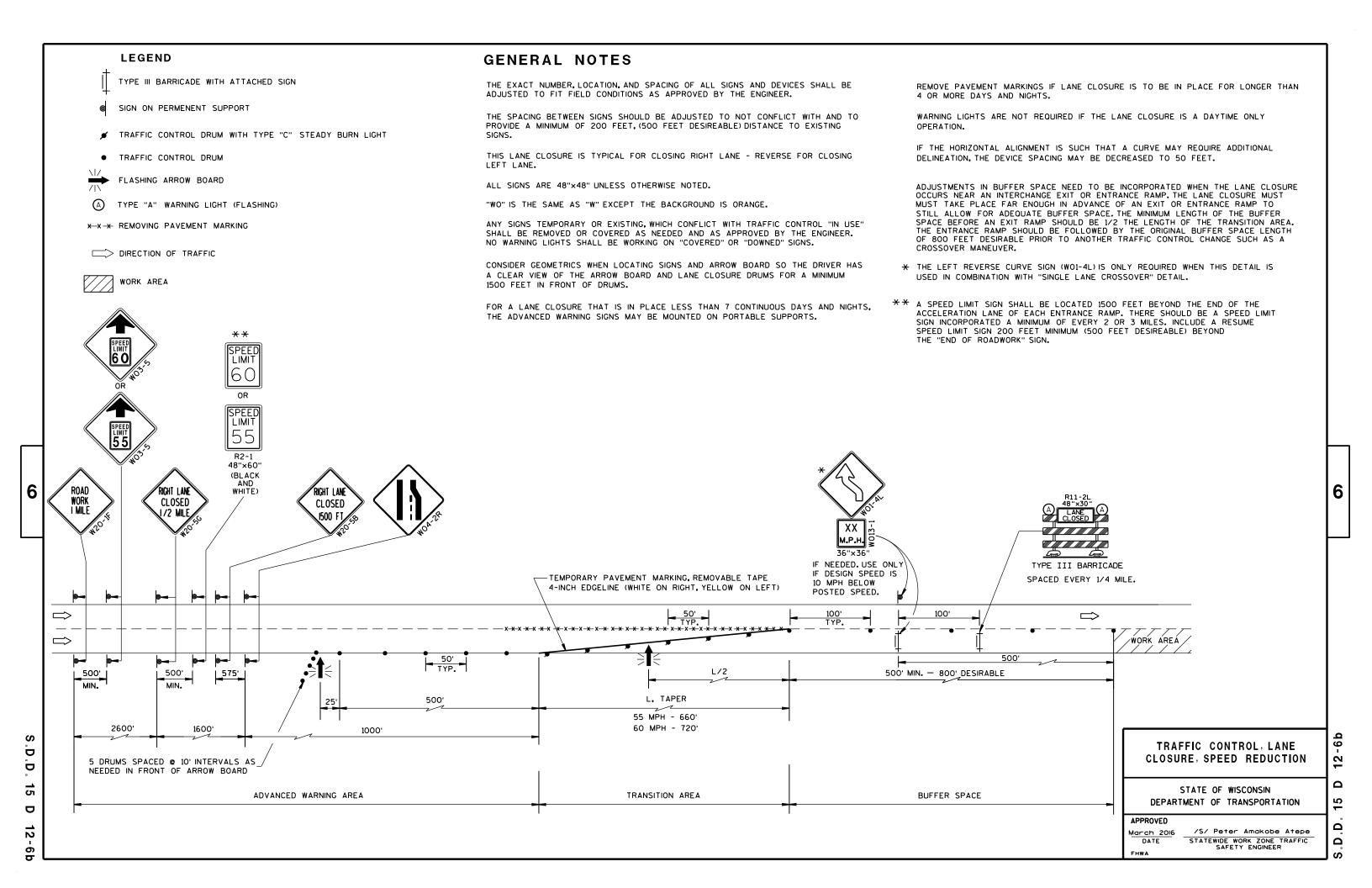
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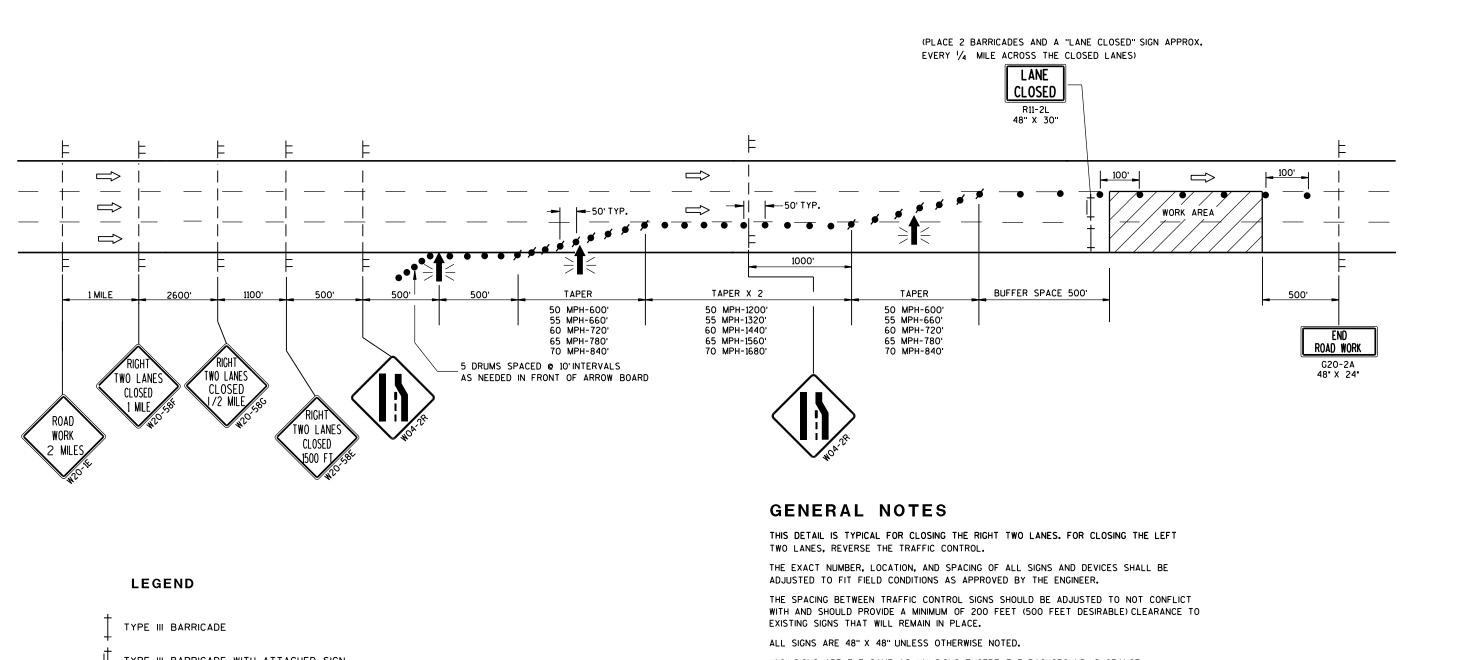
June 2017
DATE

WORK ZONE ENGINEER
FHWA

S.D.D. 15 C 1

GENERAL NOTES LEGEND THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. 4 OR MORE DAYS AND NIGHTS. TYPE III BARRICADE WITH ATTACHED SIGN THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION. SIGN ON PERMENENT SUPPORT IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING DELINEATION. THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. LEFT LANE. TRAFFIC CONTROL DRUM ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST FLASHING ARROW BOARD "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE. MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" TYPE "A" WARNING LIGHT (FLASHING) 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 SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS. * X -X REMOVING PAVEMENT MARKING CROSSOVER MANEUVER. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS * THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL. DIRECTION OF TRAFFIC 1500 FEET IN FRONT OF DRUMS. FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. 6 6 WORK CLOSED CLOSED I MILE 1500 F XX м.Р.н 36"×36" IF NEEDED. USE ONLY TYPE III BARRICADE IF DESIGN SPEED IS TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE SPACED EVERY 1/4 MILE. 10 MPH BELOW 4-INCH EDGELINE (WHITE ON RIGHT, YELLOW ON LEFT) POSTED SPEED. 100' \Rightarrow \Rightarrow \Longrightarrow WORK AREA 50' L/2 500' MIN. - 800' DESIRABLE 575 L. TAPER 500 50 MPH - 600' 55 MPH - 660' 2600' 1600' 1000' 60 MPH - 720' TRAFFIC CONTROL, 9 65 MPH - 780' D 70 MPH - 840' LANE CLOSURE 5 DRUMS SPACED @ 10' INTERVALS AS 2 Ö NEEDED IN FRONT OF ARROW BOARD 15 Δ STATE OF WISCONSIN ADVANCED WARNING AREA TRANSITION AREA BUFFER SPACE DEPARTMENT OF TRANSPORTATION D **APPROVED** /S/ Peter Amakobe Atepe 2 March 2016 STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER Ω 6 FHWA





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TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TRAFFIC CONTROL DRUM

FLASHING ARROW BOARD

DIRECTION OF TRAFFIC

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

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

W20-IE AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

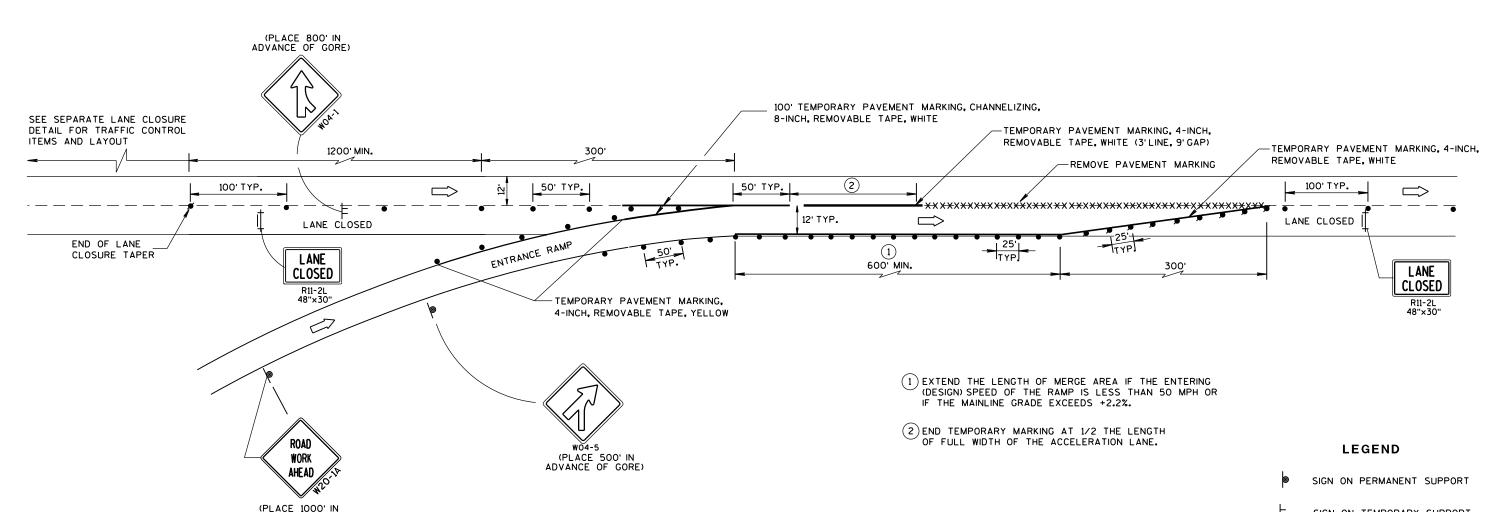
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM (LESS THAN 24 HOURS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

July 14, 2015 /S/ Peter Amakobe Atepe DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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PARALLEL ENTRANCE RAMP

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.

ADVANCE OF GORE)

ALL SIGNS ARE 48"x48" 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 CONTINUOUS DAYS AND NIGHTS. OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

REMOVING PAVEMENT MARKING

DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

| APPROVED | |
|-------------|--------------------|
| Sept., 2017 | /S/ Andrew Heidtke |
| DATE | WORK ZONE ENGINEER |

Ö 15

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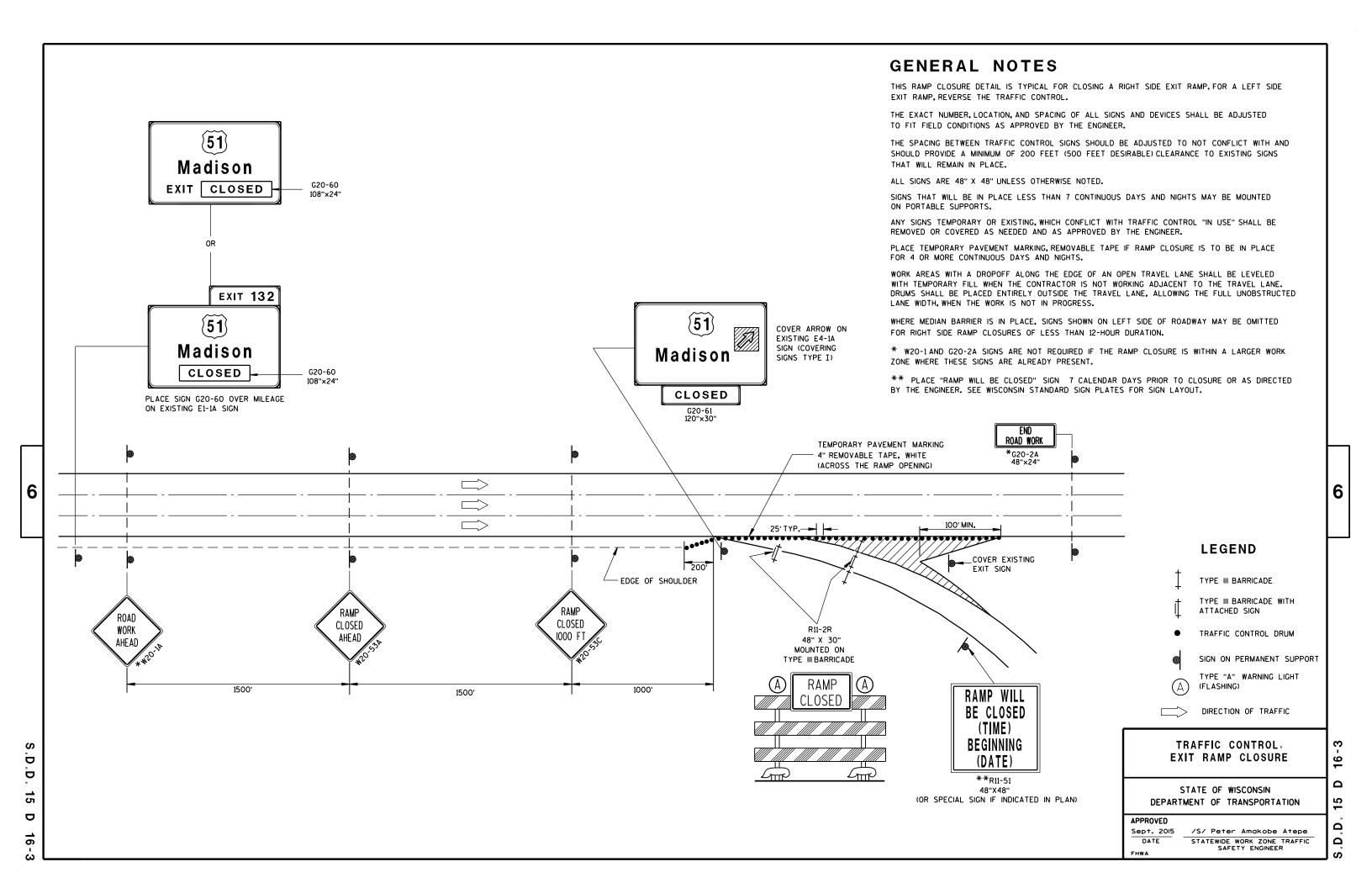
6

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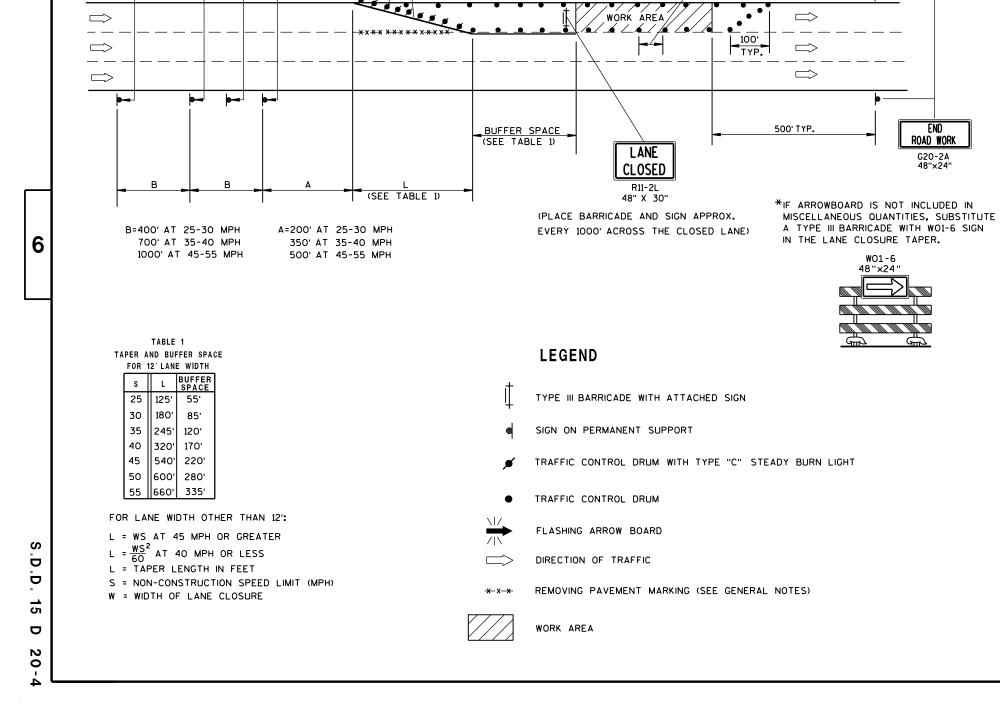
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(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

TEMPORARY PAVEMENT MARKING.

4-INCH REMOVABLE TAPE (WHITE ON RIGHT,

25'@ 35 MPH OR LESS 50'@ 40 MPH OR MORE

YELLOW ON LEFT)

SPACING:

ROAD WORK

NEXT___MILES

G20-1

60" X 24"

CLOSED

AHEAD

AHEAD

GENERAL NOTES

**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

50' MAX. @ 35 MPH OR LESS

100' MAX. @ 40 MPH OR MORE

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

SPACING:

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"×48" 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.

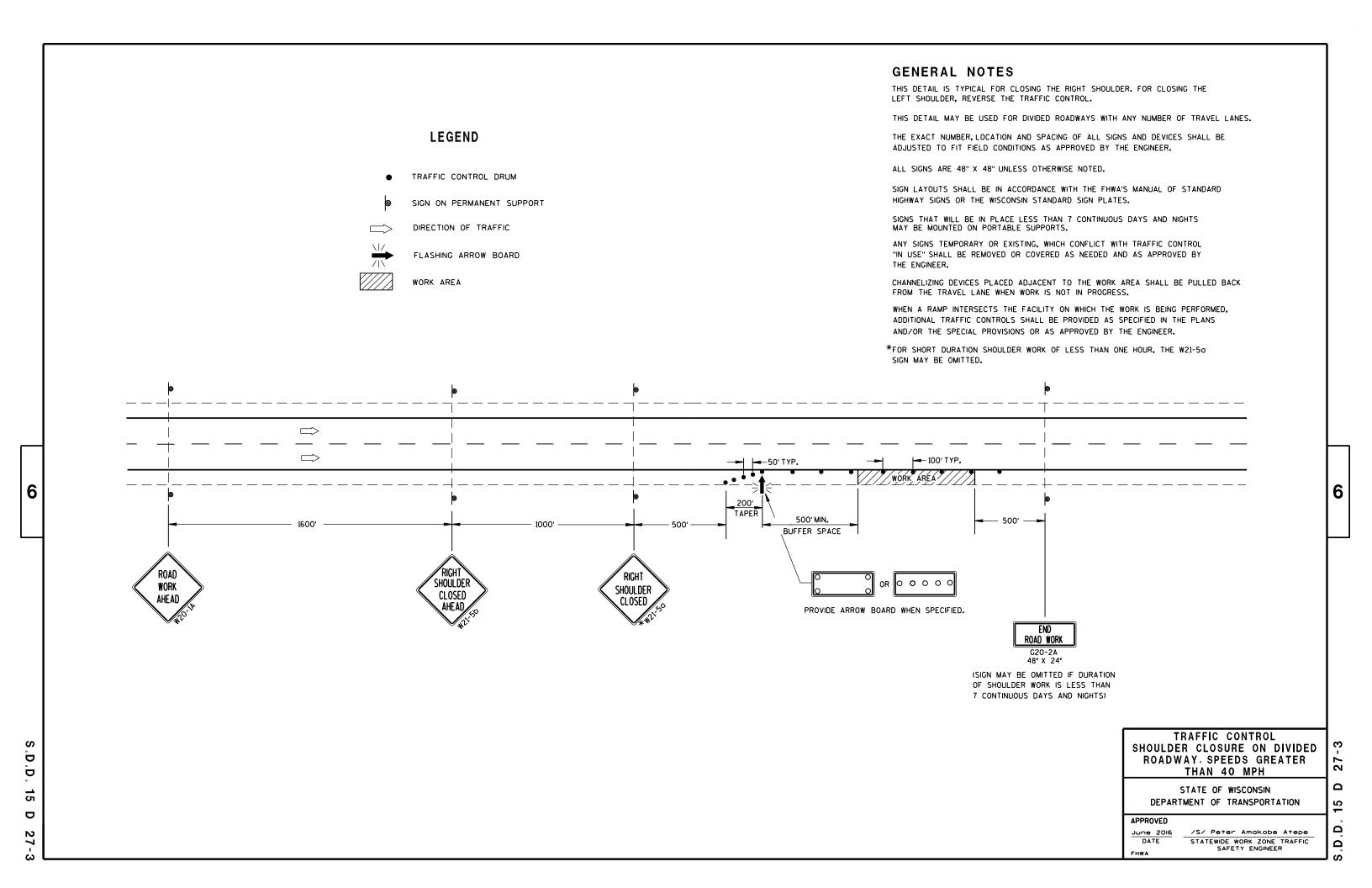
TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

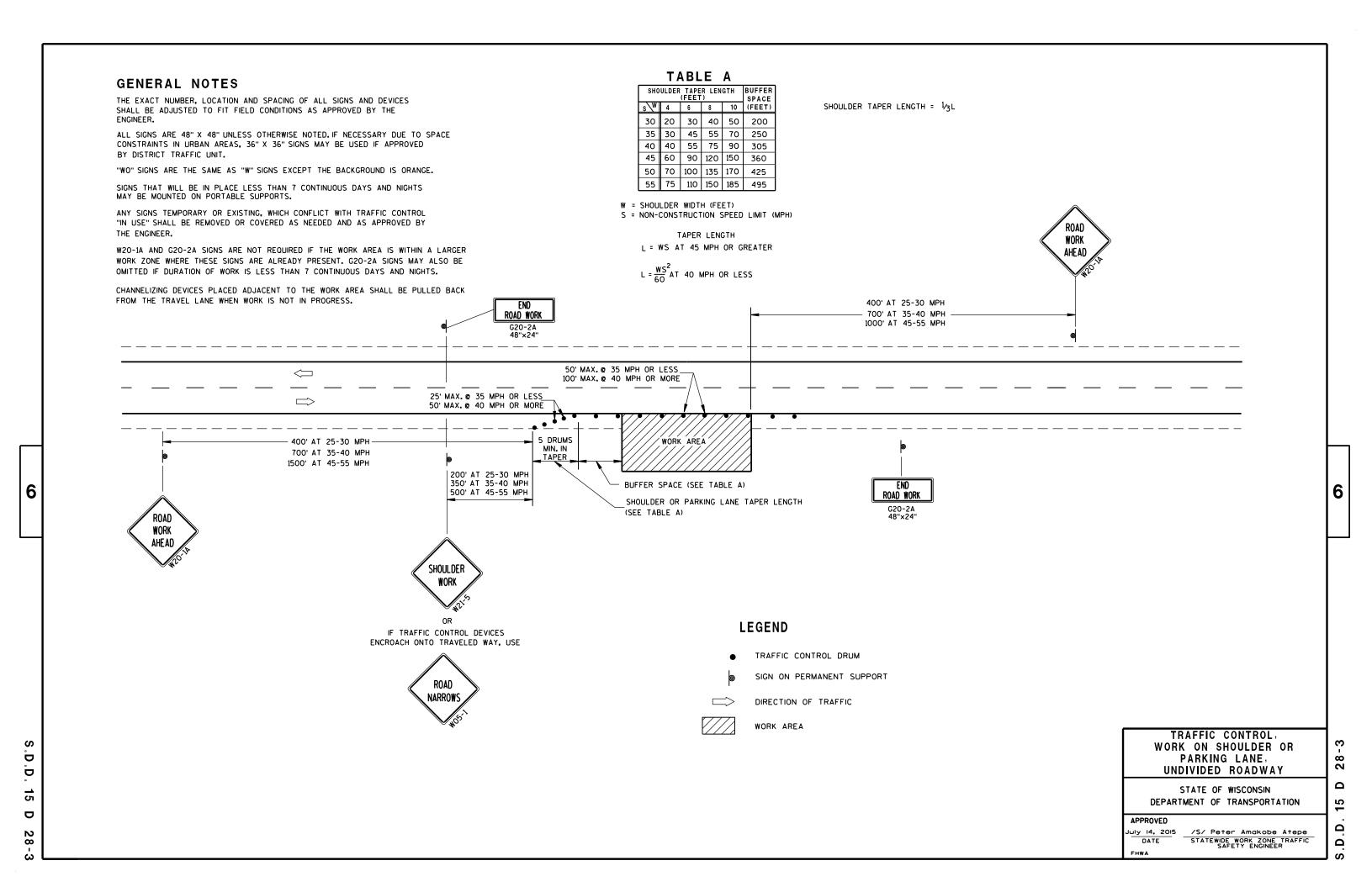
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2016

/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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TUBULAR STEEL POSTS

| AREA OF SIGN INSTALLATION (SO. 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 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

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 REQUIREM | MENTS | NUMBER OF WOOD POSTS | | |
|--|-------|-------------------------|---|--|
| L | E | REQUIRED | | |
| 48" OR LESS AND LESS THAN 20 SO.FT. | - | 1 | | |
| LESS THAN 60" | 12" | 2 | ٤ | |
| 60" TO 120" | L/5 | 2 | | |
| GREATER THAN 120" LESS THAN 168" | 12" | 3 | | |
| 168" AND GREATER | 12" | 4 | | |

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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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 POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 1/32 " (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 FOR ALL TYPE H SIGNS

* 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.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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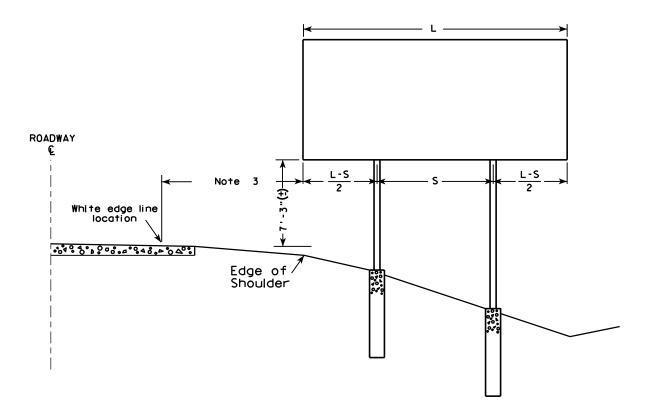
6

2 b

18

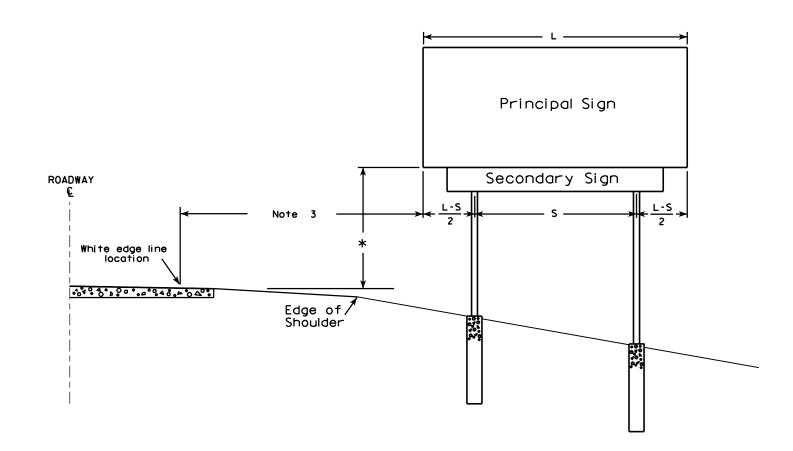
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38-2b



GENERAL NOTES

- 1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
- 2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
- 3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
- 4. The (+) tolerance shown on this sheet is 3 in.
- 5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
- 6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
- 7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.



* Clearance is $8'-3''(\pm)$ when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be $5'-3''(\pm)$.

> TYPICAL INSTALLATION OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer PLATE NO. <u>A4-1.9</u>

DATE 4/02/08

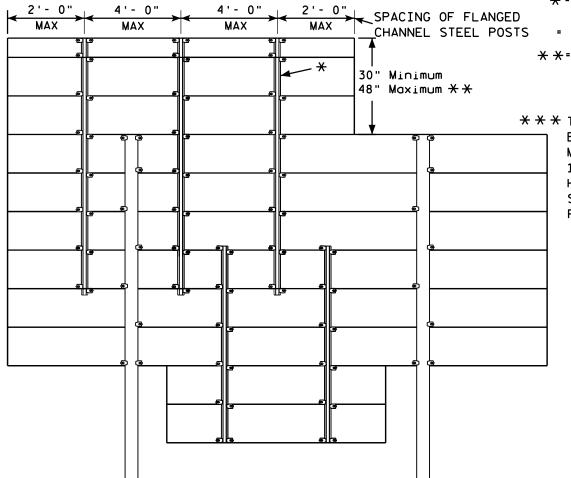
SHEET NO:

PROJECT NO:

PLOT DATE: 02-APR-2008 15:49

PLOT BY : ditjph





*=2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH

CHANNEL STEEL POSTS = 60,000 PSI (GRADE 60) GALVANIZED

SIGN BRIDGE MOUNTED SIGN

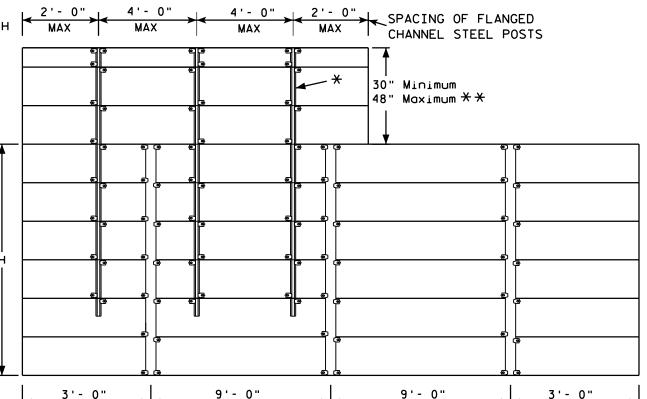
* *= FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

* * THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL

NOT TO SCALE

1/₄ →



MAX * * *

SPACING OF ALUMINUM SIGN SUPPORTS 5" X 3.5" X 3.7 LBS./ft.

MAX ***

MAX ***

GENERAL NOTES

- 1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
- 2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.

3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.

MAX * * *

2'- 0"

- 4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
- 5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
- 6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 12/05/13

PLATE NO. A4-6.12

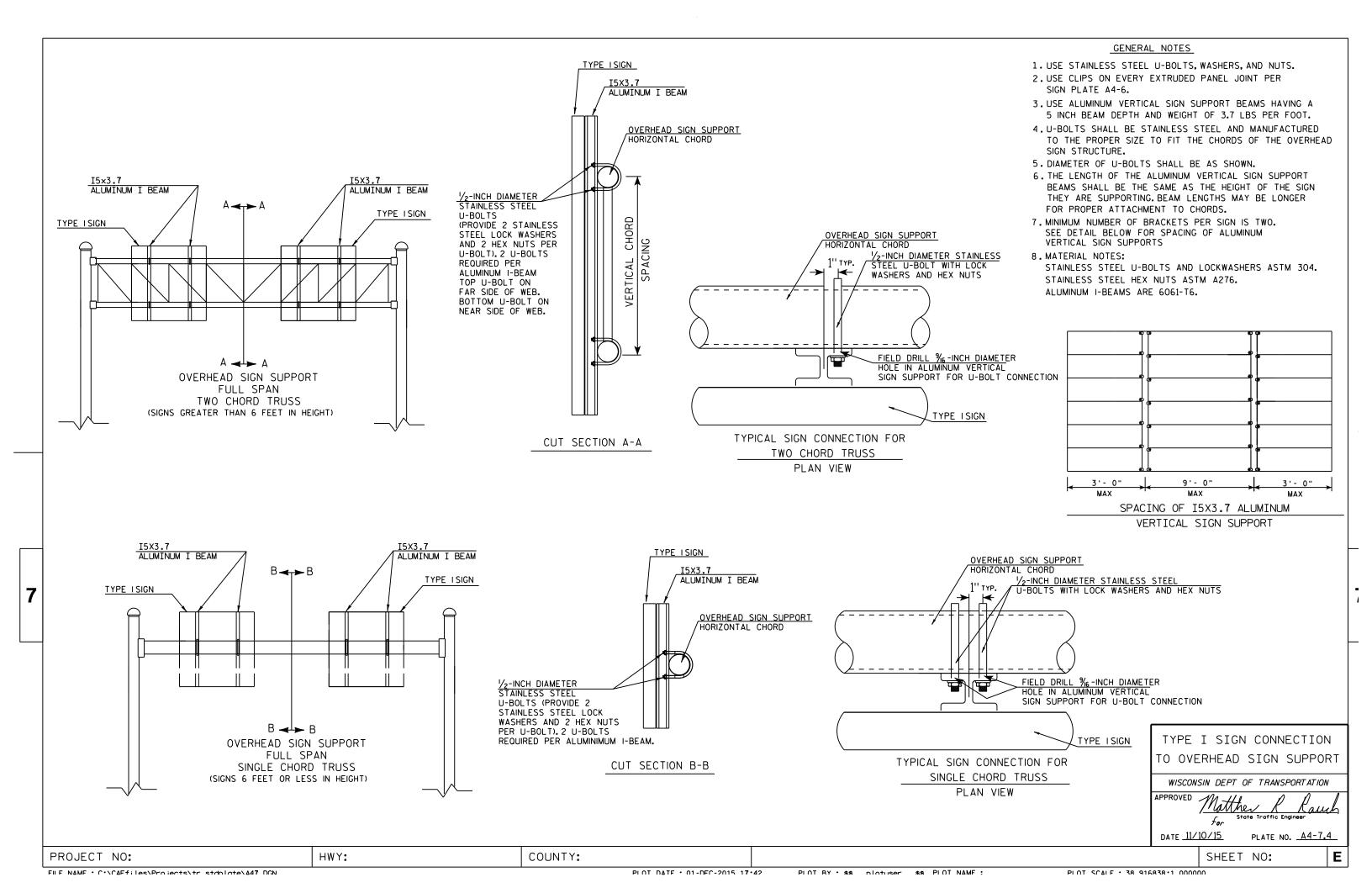
SHEET NO:

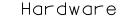
PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A46.DGN

PLOT DATE: 05-DEC-2013 12:47

PLOT BY: mscs.ja



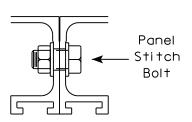


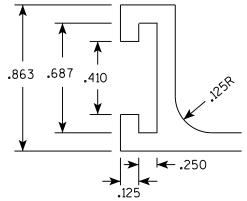
STITCH BOLT, WASHER & NUT

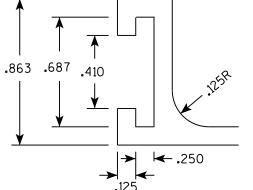
The hardware includes:

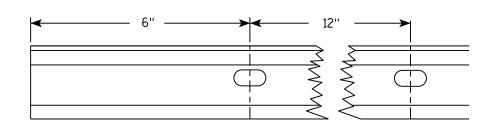
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy 3/8 " - Stainless steel stop nut

3/8" X .064 Flat Washers, Alclad 2024-T4 alloy





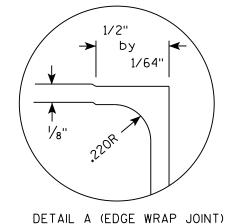




See Detail A

See Detail A

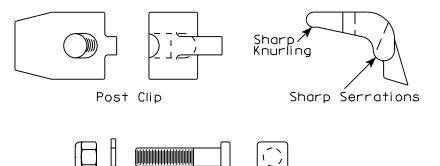
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.



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

POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6 Post Clip Bolt shall be Stainless Steel. Flat washer shall be 3/8" X .091. Stainless Steel. Stop nut shall be stainless steel.



Post Clip Bolt



- 1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
- 2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.

Flat Washer

Stop Nut

- 3. Post Clips shall be used to attach the sign panel to the sign support.
- 4. Edge wrapping of sign sheeting required on all extrusions ioints shown in Detail A.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 11/30/16 PLATE NO. A5-2.10

SHEET NO:

PROJECT NO:

Ε

12" Extrusion

Minimum Weight

2.5 lb./ft.

Extruded Shape

←.125

Ы

→ | ← .125

6" Extrusion Minimum Weight 1.4 lb./ft.

See Detail A

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 | Α | В | С | D | E | F | G | Н | I | J | К | L | М | N | 0 | Р | Q | R | S | T | U | ٧ | W | Х | 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 % | 6 3/4 | 16 ¾ | 2 1/2 | 1 3/4 | 18 ½ | | | | | | | | | | | | | 8.0 | 0.72 |
| 3 | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 % | 6 3/4 | 16 ¾ | 2 1/2 | 1 3/4 | 18 ½ | | | | | | | | | | | | | 8.0 | 0.72 |
| 4 | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 % | 6 3/4 | 16 ¾ | 2 1/2 | 1 3/4 | 18 ½ | | | | | | | | | | | | | 8.0 | 0.72 |
| 5 | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 1/8 | 6 3/4 | 16 ¾ | 2 1/2 | 1 3/4 | 18 ½ | | | | | | | | | | | | | 8.0 | 0.72 |

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 110 00 00 110

for State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

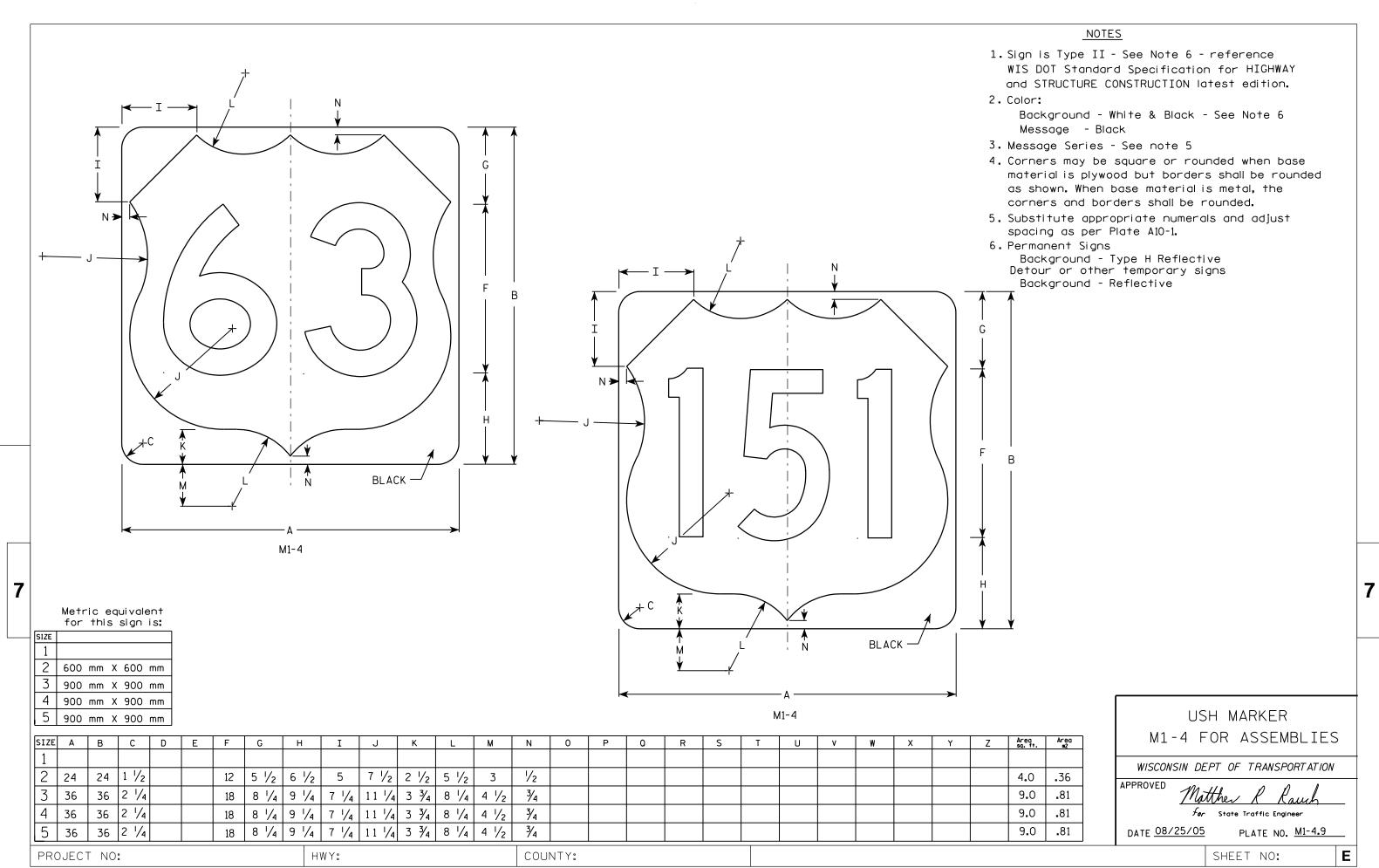
PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42



FILE NAME : C:\Users\Projects\tr_stdplate\M14.DGN







MP3-1









HWY:



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 | Α | В | С | D | E | F | G | Н | I | J | К | L | М | N | 0 | Р | 0 | R | S | Т | U | V | W | Х | 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 1/8 | 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 |

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

NOTES

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

Background - 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.

|) A G | |
|---------------------|---------------------------|
| | ; |
| → G → | |
| Y | |

Α С E F G H I J S Х Z D 0 10 10 1/4 1 1/8 3/8 3/8 24 2.0 3 36 1 1/8 3/8 1/2 4 1/2 14 5/8 14 1/2 4.5 4 5

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/10/10 PLATE NO. M4-8.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48.DGN

PROJECT NO:

HWY:

PLOT DATE: 10-NOV-2010 13:18

PLOT BY : ditjph

PLOT SCALE : 4.767

PLOT NAME :

PLOT SCALE: 4.767233:1.000000

WISDOT/CADDS SHEET 42

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.

 $D \longrightarrow$ Н M4-8A

| SIZE | Α | В | С | D | E | F | G | Н | I | J | K | L | М | N | 0 | Р | 0 | R | S | Т | U | ٧ | w | Х | Y | Z | Area sq. ft. |
|-------------------------|----|----|-------|-----|-----|---|-------|---|-------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| $\parallel 1 \parallel$ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | · | · | | | | | | · | | | | · | | | | | | | | | | | | |

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther

For State Traffic Engineer DATE 3/9/11

PLATE NO. M4-8A.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN

HWY:

PROJECT NO:

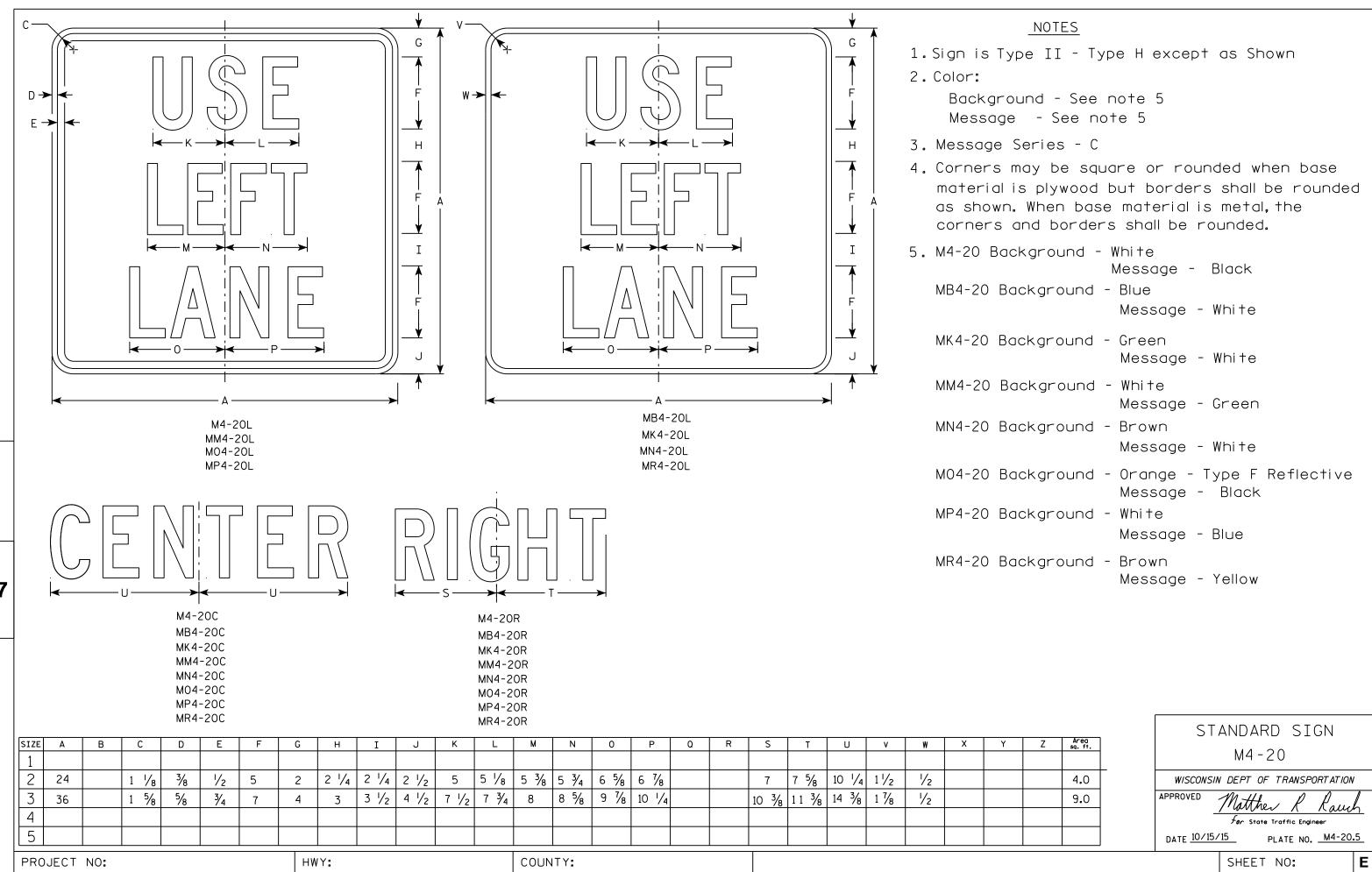
PLOT DATE: 09-MAR-2011 10:29

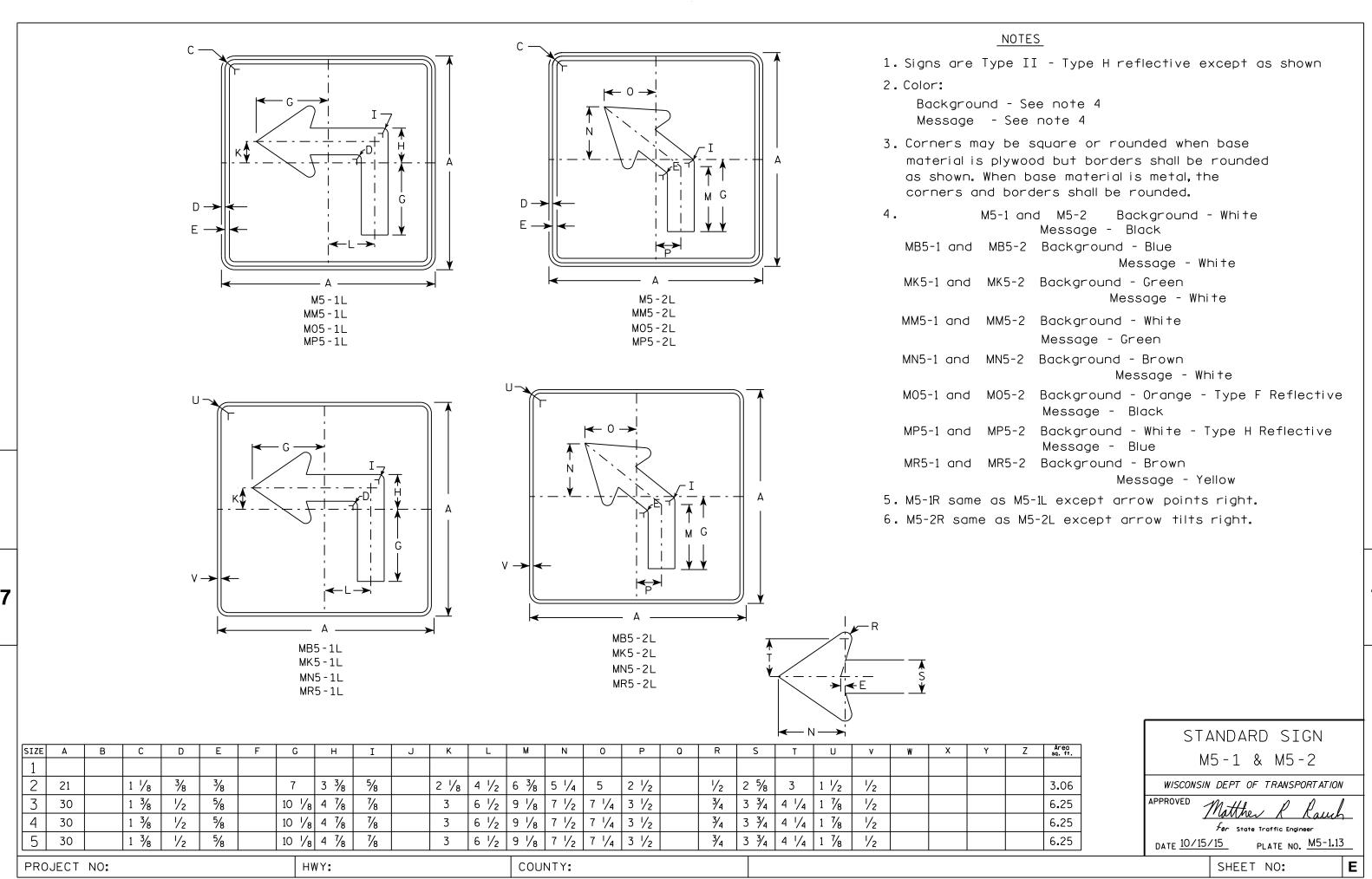
PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 3.972696:1.000000

WISDOT/CADDS SHEET 42





FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000







MR6-1

HWY:



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

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

Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



| SIZE | Α | В | С | D | E | F | G | Н | I | J | K | L | М | N | 0 | Р | ٥ | R | S | T | U | ٧ | W | Х | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|--------|--------|-----|-------|-------|-------|-------|-------|-----|---|---|---|---|---|-------|-----|---|---|---|---|-----------------|
| 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 21 | | 1 1/8 | 3/8 | 3/8 | | 7 1/2 | 7 1/8 | 5 % | 5 | 4 1/4 | 5 1/4 | 3 | 2 % | 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 1/8 | 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 1/8 | 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 1/8 | 1/2 | | | | | 6.25 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

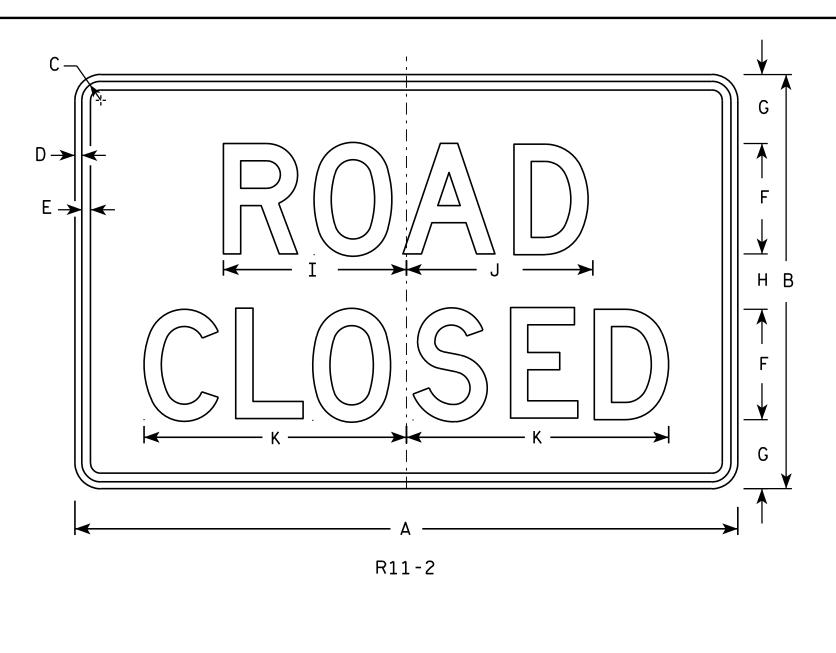
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

PLOT SCALE . 11 675051.1 000000

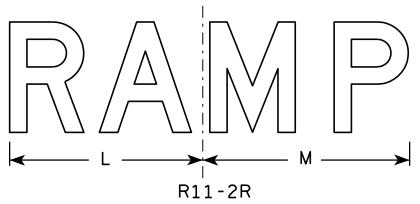


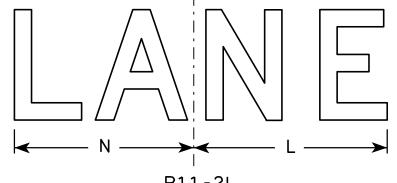
<u>NOTES</u>

- 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.





| R | 1 | 1 | - | 2 | L |
|---|---|---|---|---|---|
| | | | | | |

PLOT NAME :

| SIZ | Έ | A | В | С | D | Ε | F | G | Н | I | J | K | L | M | N | 0 | Р | 0 | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|-----|----------|----|----|-------|-----|-----|---|---|---|--------|--------|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | S | 48 | 30 | 1 3/8 | 1/2 | 5/8 | 8 | 5 | 4 | 13 1/4 | 13 1/2 | 19 | 14 | 15 | 13 | | | | | | | | | | | | | 10.0 |
| 21 | I | 48 | 30 | 1 3/8 | 1/2 | 5/8 | 8 | 5 | 4 | 13 1/4 | 13 ½ | 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 ½ | 19 | 14 | 15 | 13 | | | | | | | | | | | | | 10.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COUNTY:

STANDARD SIGN R11-2

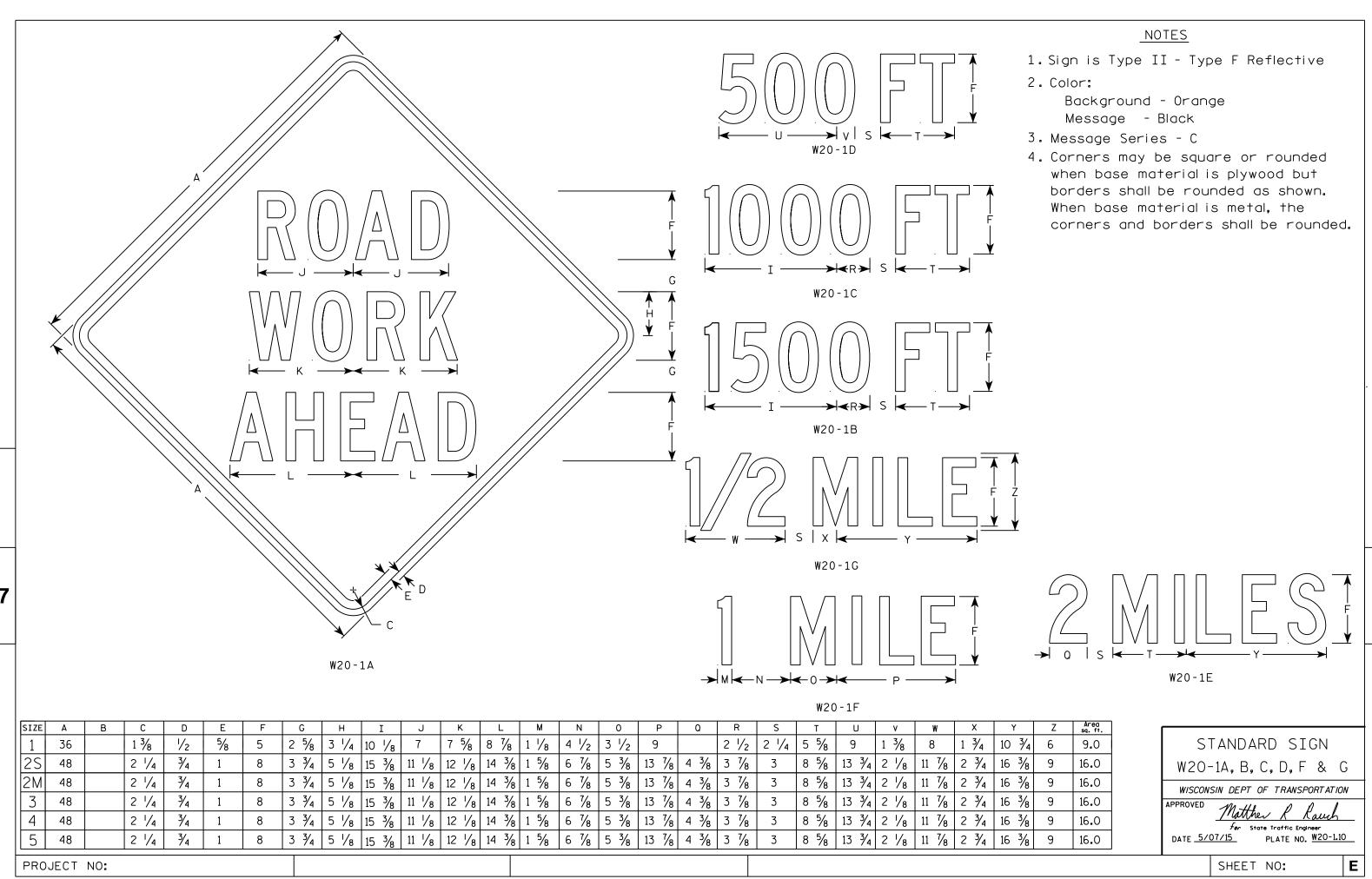
WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

HWY:

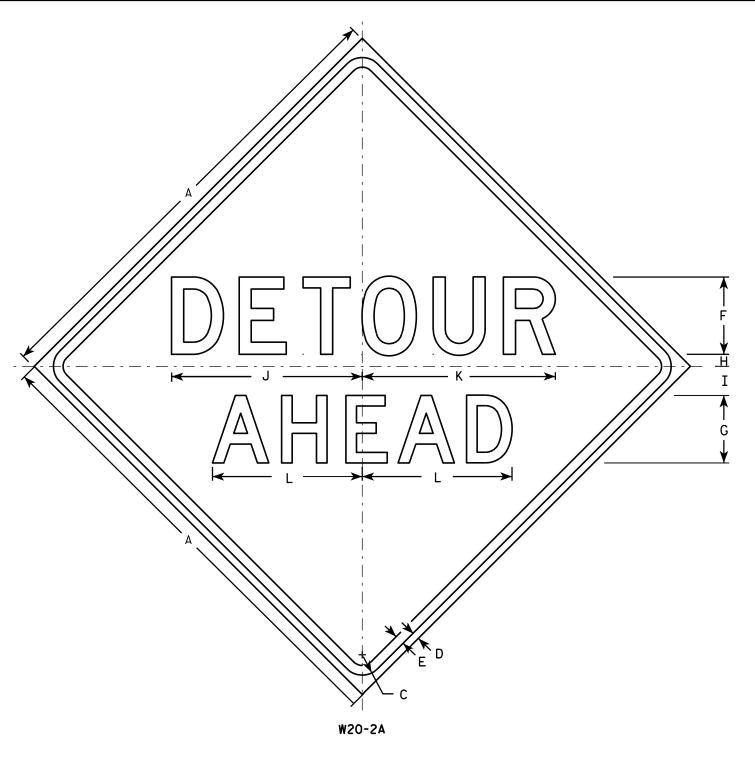
PROJECT NO:



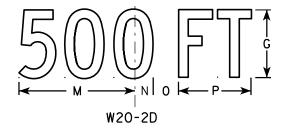
FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

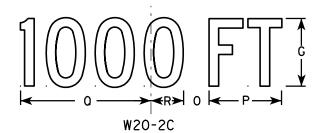
PLOT DATE . 01-DEC-2015 18.24

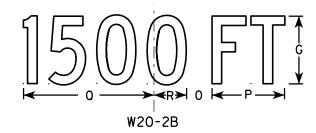
PIOT RY * \$\$ plotuser \$\$

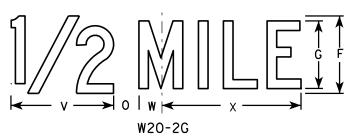


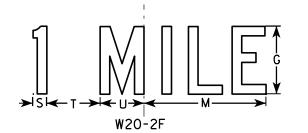
HWY:











PLOT BY: mscj9h

<u>NOTES</u>

- 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 | Α | В | С | D | E | F | G | Н | I | J | K | L | М | N | 0 | Р | 0 | R | S | Т | U | v | W | X | Y | Z | Areo 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 1/8 | 5 % | 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 ¾ | 20 | 15 1/2 | 12 | 1 1/8 | 2 % | 7 1/2 | 13 1/2 | 3 % | 1 1/2 | 6 | 4 % | 10 % | 2 3/8 | 14 3/8 | | | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 8 | 7 | 1 1/4 | 3 | 19 ¾ | 20 | 15 1/2 | 12 | 1 1/8 | 2 % | 7 1/2 | 13 1/2 | 3 % | 1 1/2 | 6 | 4 % | 10 % | 2 3/8 | 14 3/8 | | | 16.0 |
| 3 | 48 | | 2 1/4 | ¾ | 1 | 8 | 7 | 1 1/4 | 3 | 19 ¾ | 20 | 15 1/2 | 12 | 1 % | 2 % | 7 1/2 | 13 ½ | 3 % | 1 1/2 | 6 | 4 % | 10 % | 2 3/8 | 14 3/8 | | | 16.0 |
| 4 | 48 | | 2 1/4 | ¾ | 1 | 8 | 7 | 1 1/4 | 3 | 19 ¾ | 20 | 15 1/2 | 12 | 1 % | 2 % | 7 1/2 | 13 1/2 | 3 % | 1 1/2 | 6 | 4 % | 10 % | 2 3/8 | 14 3/8 | | | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 7 | 1 1/4 | 3 | 19 ¾ | 20 | 15 1/2 | 12 | 1 1/8 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 1 1/2 | 6 | 4 5/8 | 10 % | 2 3/8 | 14 3/8 | | | 16.0 |

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11 PLATE NO. W20-2.6

SHEET NO:

PROJECT NO:

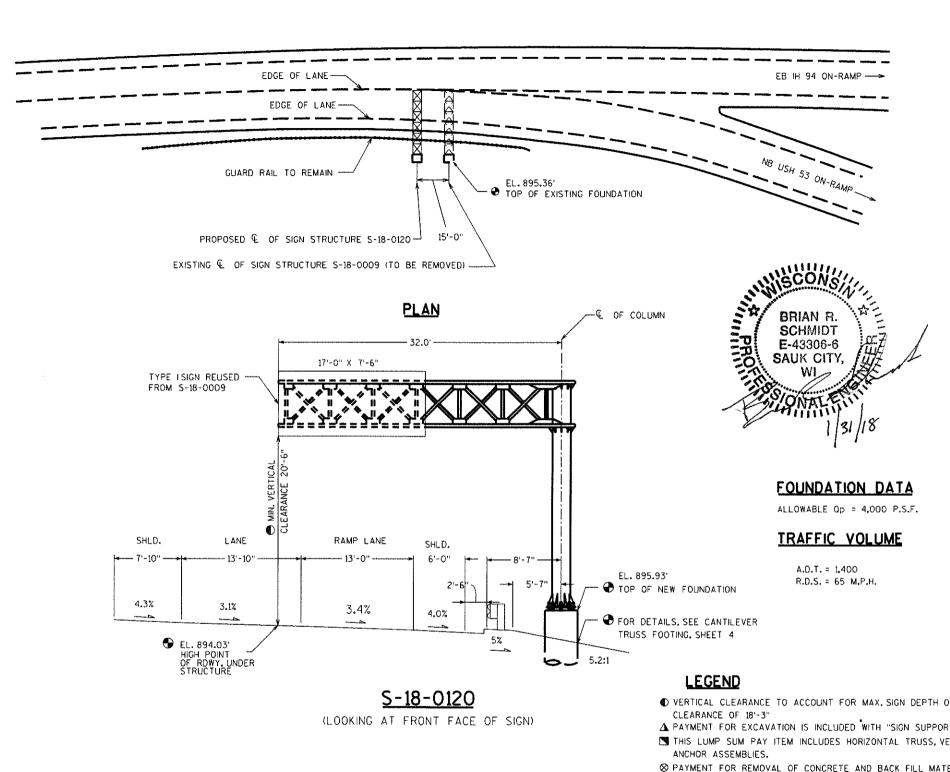
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN

PLOT DATE: 18-MAR-2011 10:00

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

WISDOT/CADDS SHEET 42



31, 5-70-0081

32. S-70-0085

33. 5-70-0100

34. 5-70-0102

35. S-70-0106

36. S-70-0107

37. S-70-0125

MAINTENANCE ITEMS

MAINTENANCE ITEMS

MAINTENANCE ITEMS

MAINTENANCE ITEMS MAINTENANCE ITEMS

MAINTENANCE ITEMS

MAINTENANCE ITEMS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

1009-30-13

STATE PROJECT NUMBER

ALTERNATE DESIGNS ARE NOT ALLOWED.

ALL STRUCTURAL STEEL MEMBERS, PLATES, ANCHOR RODS, H.S. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.

ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH $\frac{3}{4}$ " ϕ (DIAMETER) A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO FABRICATION OF STRUCTURE.

PREFABRICATE CAMBER INTO THE HORIZONTAL SUPPORT PROVIDING AN AMOUNT "Y" AT END OF TRUSS SHOWN IN "CAMBER DIAGRAM". DO NOT RAKE COLUMN BY ADJUSTMENT OF LEVELING NUTS.

WELD TEST AS PER AWS DLL

THE STRUCTURE MUST BE ASSEMBLED IN THE SHOP TO ASSURE FIT UP PER SECTION 641.3.3 OF THE WISDOT STANDARD SPECIFICATIONS.

EXACT LOCATION OF SIGN BRIDGE SHALL BE DETERMINED BY THE REGION TRAFFIC ENGINEER.

CONTRACTOR SHALL VERIFY UTILITY CONFLICTS PRIOR TO CONSTRUCTION OF FOOTINGS.

CENTER 17.0' X 7.5' SIGN VERTICALLY ON TRUSS.

SUBMIT SHOP DRAWINGS TO THE REGIONAL ANCILLARY ENGINEER

PROVIDE AN IDENTIFICATION PLAQUE FOR THE SIGN BRIDGE IN ACCORDANCE WITH SDD STRUCTURE IDENTIFICATION PLAQUES, SIGN BRIDGES AND OVERHEAD SIGN SUPPORT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "SIGN BRIDGE CANTILEVERED S-18-0120"

ULTIMATE DESIGN STRESSES

| CONCRETE MASONRY - | f'c = 3,500 P.S.I. |
|--|-----------------------|
| BAR STEEL REINFORCEMENT, GRADE 60 - | fy = 60,000 P.S.I. |
| COLUMN PIPE, API SPEC. 5L GRADE X42, PSL-2 - | fy = 42,000 P.S.I. ** |
| CHORD PIPE, API SPEC. 5L GRADE X42 - | fy = 42,000 P.S.I. ** |
| PLATES, BARS AND STRUCTURAL ANGLES, ASTM A709 GRADE 36 - | fy = 36,000 P.S.I. |
| ANCHOR RODS, ASTM F1554, GRADE 55 - ASTM A563A HEAVY HEX NUTS, AND ASTM F436 WASHERS. | fy = 55,000 P.S.I. |

CONTRACTOR MAY SUBSTITUTE ALTERNATE MATERIALS PER WISDOT BRIDGE MANUAL SECTION 39.3 AT NO ADDITIONAL COST, PROVIDED THAT APPROVAL IS OBTAINED FROM THE DEPARTMENT.

DESIGN DATA

DEAD LOAD - 3 PSF OF SIGN (INCLUDING SUPPORTING BRACKETS), CATWALK, LIGHTS AND RAILINGS, ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 90 MPH (3-SECOND GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. FATIGUE - CATEGORY I WITHOUT GALLOPING WIND EFFECTS.

DESIGNED ACCORDING TO THE 4TH EDITION AND INTERIM REVISIONS OF AASHTO "STANDARD SPECIFICTIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

| STRUCTURE | DESIGN SIGN AREA | MAX. SIGN DEPTH |
|-----------|------------------|-----------------|
| 5-18-0120 | 128 SF | 12.0' |

- VERTICAL CLEARANCE TO ACCOUNT FOR MAX. SIGN DEPTH OF 12'-0" WITH MIN. VERTICAL
- A PAYMENT FOR EXCAVATION IS INCLUDED WITH "SIGN SUPPORTS CONCRETE MASONRY".
- THIS LUMP SUM PAY ITEM INCLUDES HORIZONTAL TRUSS, VERTICAL STEEL COLUMN, AND
- & PAYMENT FOR REMOVAL OF CONCRETE AND BACK FILL MATERIAL IS INCLUDED WITH "REMOVING OVERHEAD SIGN SUPPORTS CANTILEVER (S-18-0009)".

TOTAL ESTIMATED QUANTITIES

| A 636.0100 SIGN SUPPORTS CONCRETE MASONRY 636.1500 SIGN SUPPORTS STEEL COATED REINFORCEMENT HS 641.1200 SIGN BRIDGE CANTILEVERED S-18-0120 638.2101 MOVING SIGNS TYPE 1 EA 1 | | BID ITEM NUMBER | BID ITEMS | UNIT | S-18-0009 | S-18-0120 |
|--|---|--------------------|---|------|-----------|-----------|
| 641.1200 SIGN BRIDGE CANTILEVERED S-18-0120 LS 638.2101 MOVING SIGNS TYPE I EA 1 | Δ | 636.0100 | SIGN SUPPORTS CONCRETE MASONRY | CY | | 8 |
| 638.2101 MOVING SIGNS TYPE I EA 1 | | 636.1500 | SIGN SUPPORTS STEEL COATED REINFORCEMENT HS | L8 | | 990 |
| | 9 | 641.1200 | SIGN BRIDGE CANTILEVERED S-18-0120 | L\$ | | 1 |
| 670 7450 05400W0 04550517 COV. 04550575 0447 5450 000 000 | | 638.2101 | MOVING SIGNS TYPE I | EΑ | 1 | |
| 9 638-3150 REMOVING OVERHEAD SIGN SUPPORTS CANTILEVER (S-18-009) EA 1 | 3 | 638.3150 | REMOVING OVERHEAD SIGN SUPPORTS CANTILEVER (S-18-009) | EΑ | 1 | |
| | | | | | | |

BUREAU OF STRUCTURE CONTACT:

CONSULTANT CONTACT:

NO. DATE REVISION BY ORIGINAL PLANS PERPARED BY:



3148 Deming Way Suite 160 Middleton, WI 53562



. Drehe DR 02/02/1 ACCEPTED William C CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE S-18-0120

OWN/CITY/VILLAGE EAU CLAIRE EAU CLAIRE DESIGN SPEC. AASHTO STD. SPEC. FOR HIGHWAY BRIDGES, 17TH EDITION DESIGNED DESIGN DRAWN BY BRS CK'D. TAD BY BRS CK'D. TAD

S-18-0120 GENERAL LAYOUT

SHEET 1 OF 37

10. S-05-0103 MAINTENANCE ITEMS 11. S-08-0001 MAINTENANCE ITEMS 12. S-08-0008 MAINTENANCE ITEMS

9. S-05-0101

13. S-09-0013 MAINTENANCE ITEMS 14. S-09-0032 MAINTENANCE ITEMS 15. S-16-0022 MAINTENANCE ITEMS

LIST OF DRAWINGS

1. S-18-0120 GENERAL LAYOUT

4. CANTILEVER TRUSS FOOTING

5. FOUNDATION REPAIR DETAILS

7. SIGN REPAIR DETAILS (1 OF 2)

B. SIGN REPAIR DETAILS (2 OF 2)

6. TRUSS REPAIR DETAILS

MAINTENANCE ITEMS

2. GALVANIZED STEEL CANTILEVER SIGN TRUSS

3. GALVANIZED STEEL CANTILEVER SIGN TRUSS DETAILS 18. S-44-0002

27. S-70-0042 28. S-70-0046 29. S-70-0062 30. S-70-0064

16. S-17-0004

17. S-18-0101

19. S-44-0006

20. S-44-0020

21. S-44-0028

22. S-44-0034

23. S-44-0035

24. L-55-0004

25. S-70-0036

26. 5-70-0041

MAINTENANCE ITEMS

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MAINTENANCE ITEMS

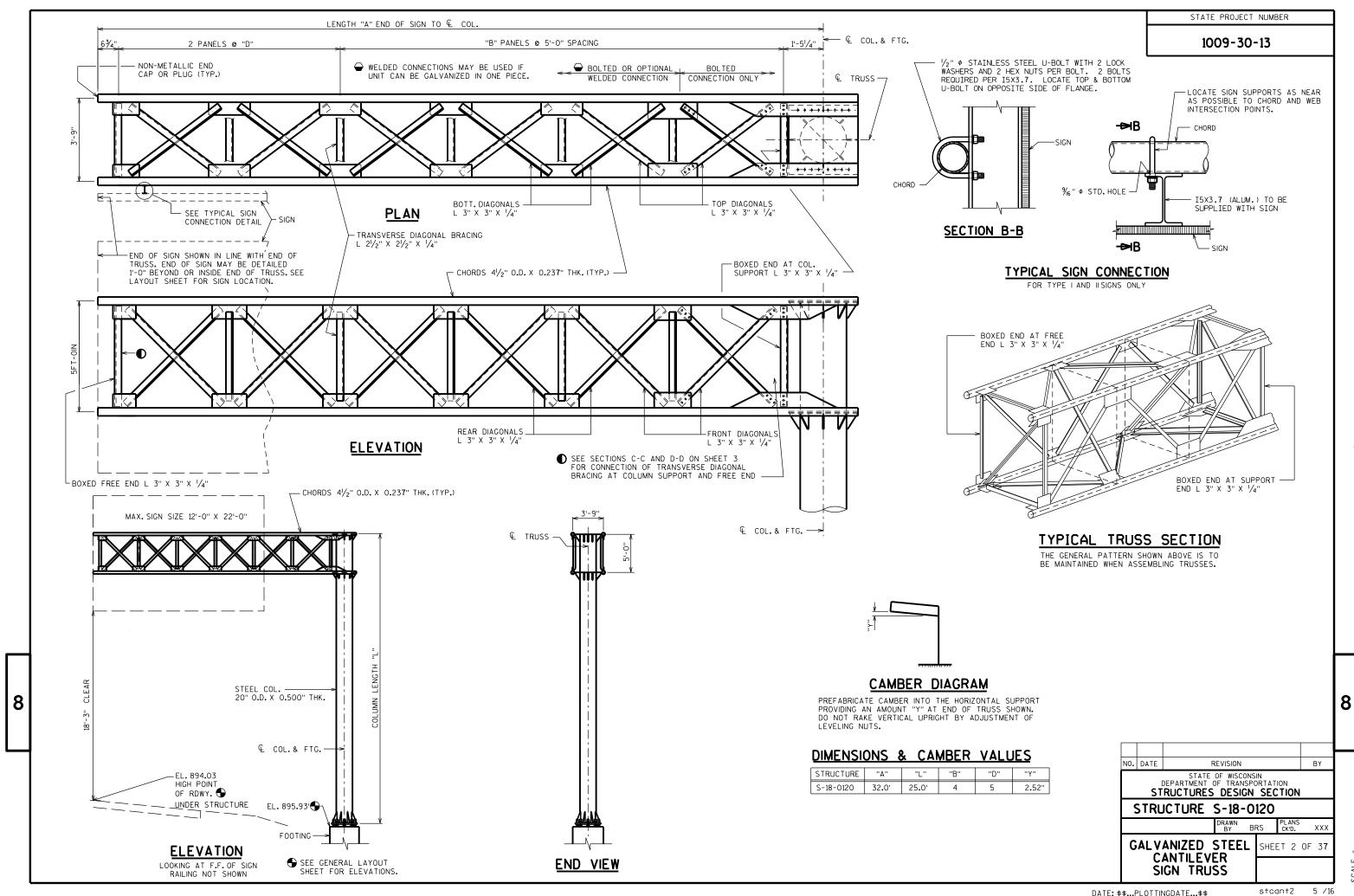
MAINTENANCE ITEMS

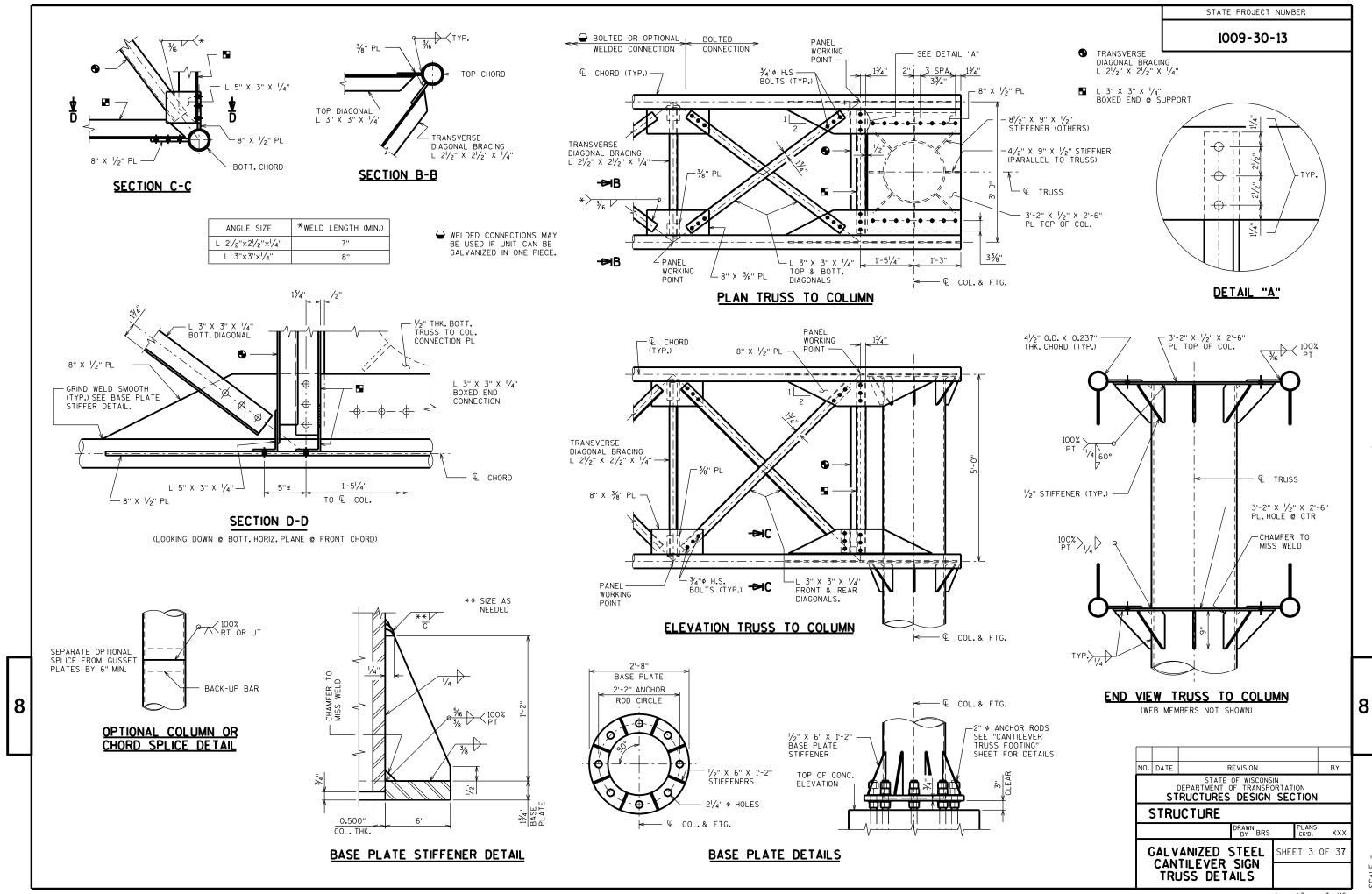
MAINTENANCE ITEMS

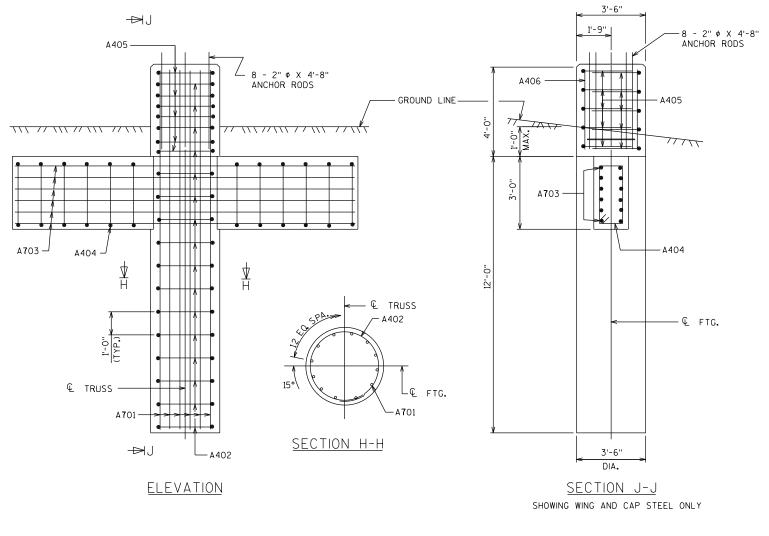
MAINTENANCE ITEMS

WILLIAM DREHER (608) 266-8489

BRIAN SCHMIDT (608) 831-3238



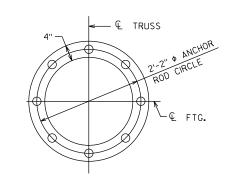


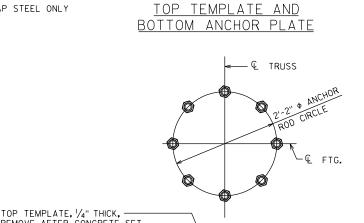


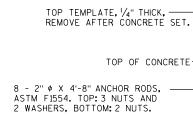
-€ TRUSS

6'-0"

− A**7**03







ANCHOR ROD ASSEMBLY DETAILS

BOTTOM ANCHOR PLATE, 1/2" THICK

NOTES

CONTRACTOR SHALL VERIFY UTILITY CONFLICTS PRIOR TO CONSTRUCTION OF FOOTING.

FOOTING BELOW THE WINGS SHALL BE EXCAVATED BY THE USE OF CIRCULAR AUGER.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

BENDING DIMENSIONS ARE OUT TO OUT OF BAR.

CENTER ANCHOR ROD ASSEMBLY TO MISS BAR STEEL REINFORCEMENT AND MAKE SURE IT IS PLUMB, MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED ON PLAN. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURE IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

PROVIDE A 34" CHAMFER ON ALL EXPOSED CONCRETE EDGES.

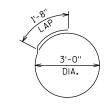
UNLESS NOTED ON PLAN, REMOVE ALL CASING AND FORMS USED TO CONSTRUCT THE FOOTING PRIOR TO BACKFILLING AROUND THE FOOTING. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE IN LAYERS OF 1'-O" OR LESS.

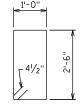
FOUNDATION DATA

ALLOWABLE Qp = 4,000 P.S.F.

BILL OF BARS

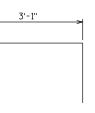
| BAR MARK | C047 | NO. REQ'D. | LENGTH | SEN, | BAR SERIES | LOCATION |
|---------------|------|---------------|--------|------|---------------|-------------------------|
| A 7 01 | Х | 12 | 15'-6" | | | FOOTING - COLUMN/TOP |
| A402 | Х | 16 | 11'-2" | Х | | FOOTING - COLUMN/TOP |
| A 7 03 | Х | 12 | 15'-0" | | | FOOTING - WINGS |
| A404 | Х | 12 | 7'-6" | Х | | FOOTING - WINGS |
| A405 | Х | 10 | 7'-11" | Х | | FOOTING - TOP |
| A406 | Х | 4 | 3'-6" | | | FOOTING - TOP - COLUMNS |
| | | | | | | |



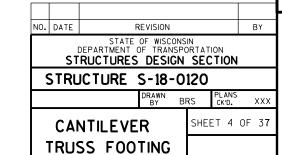


<u>A404</u>

<u> 4402</u>



<u> 4405</u>



8

6'-0"

- A**7**03

(TYP.)

A406

A405

<u>PLAN</u>

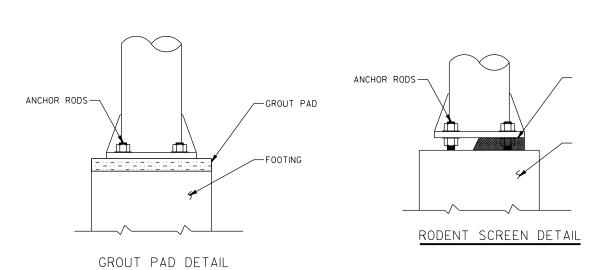
8

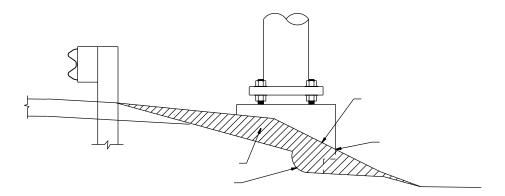
CALE =

cantftg 1/16

FOUNDATION NOTES

- 1. CONCRETE fc' = 3,500 PSI
- 2. BAR STEEL REINF. GRADE 60 fy = 60,000 PSI
- 3. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL REPAIRS.
- 4. THE CONTRACTOR SHALL FIELD VERIFY DIMENSION OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.
- 5. APPLY ZINC-RICH PAINT TO THE ANCHOR RODS, NUTS, WASHERS, AND LEVELING NUTS IN ACCORDANCE WITH SPECIFICATIONS AFTER REMOVING THE GROUT PAD, OR TENSIONING THE ANCHOR ROD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM, "REMOVE GROUT PAD" OR "TENSION ANCHOR RODS".
- 6. STEEL ANCHOR ROD NUTS AND WASHERS SHALL BE AASHTO M314 GRADE 55 fy = 55,000 PSI
- 7. THE TOP OF THE FOOTING SHALL BE SMOOTHED AND SLOPED TO DRAIN.

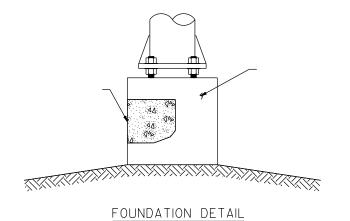




REGRADE/FILL EROSION AT STRUCTURE FOUNDATION



REPAIR FOUNDATION DETAIL



NO. DATE REVISION BY

SIGN BRIDGE REPLACEMENT

FOUNDATION REPAIR DETAILS

8

STATE PROJECT NUMBER

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL REPAIRS.

2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.

3. ALL STAINLESS STEEL BOLTS, LOCK WASHERS, FLAT WASHERS, AND NUTS SHALL CONFORM TO:

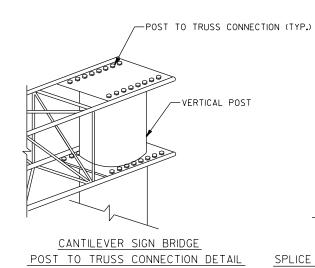
- -ANCHOR BOLTS/HEX BOLTS ASTM F593 ANY ALLOW GROUPS 1, 2, OR 3 -HEX NUTS ASTM F594
- -WASHERS ASTM A240

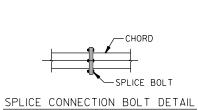
-ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSI AND ELONGATION OF 15% FOR OVER 3/4" DIAMETER AND 12% FOR 3/4" DIAMETER AND SMALLER.

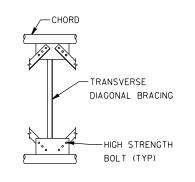
4. REPLACE MISSING BOLTS ON TOWER CAPS WITH STAINLESS STEEL BOLTS.

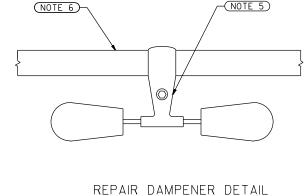
5. IF A DAMPENER IS CURRENTLY INSTALLED, REPLACEMENT DAMPENER TO BE OF THE SAME SIZE, SHAPE, AND WEIGHT OF CURRENT DAMPENER INSTALLED.

6. INSTALL DAMPENER ON A TOP CHORD DIAGONAL NEAR MID-SPAN IF LOCATED ON A TRUSSED STRUCTURE.



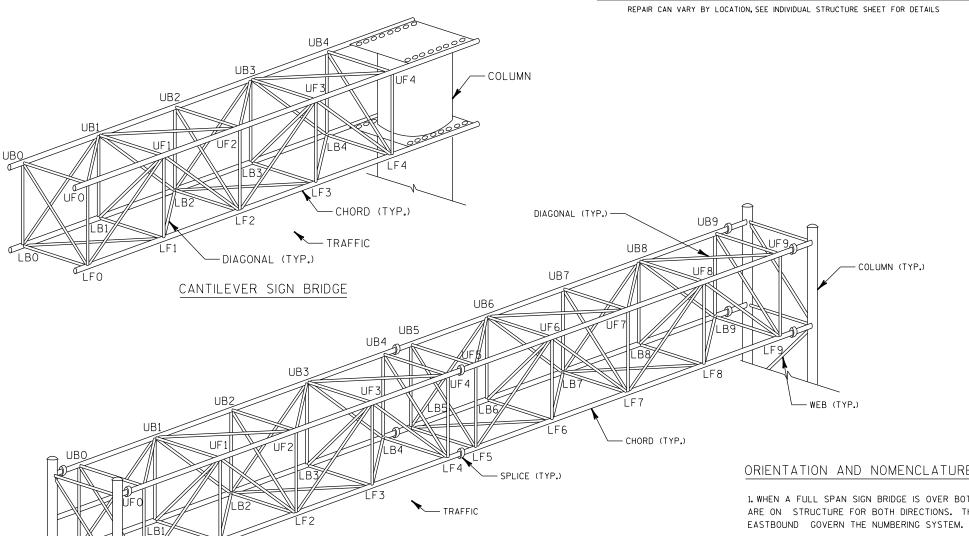




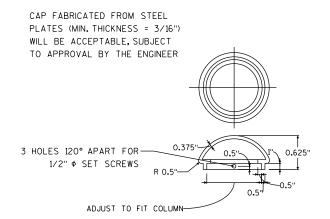


TYPICAL TRUSS ELEVATION

TENSION STRUCTURAL CONNECTION BOLT REPAIR DETAIL



4-CHORD FULL SPAN SIGN BRIDGE



POST/END CAP DETAIL

ORIENTATION AND NOMENCLATURE NOTES

1. WHEN A FULL SPAN SIGN BRIDGE IS OVER BOTH DIRECTIONS AND SIGNS ARE ON STRUCTURE FOR BOTH DIRECTIONS. THEN NORTHBOUND AND

2. THE CANTILEVER SIGN BRIDGE NUMBERING SYSTEM ALWAYS COUNTS UP FROM LEFT TO RIGHT REGARDLESS OF COLUMN LOCATION.

3. TYPICAL SIGN BRIDGE CONFIGURATION FOR INFORMATION ONLY.

| ٧٥. | DATE | REVISION | BY | | | | |
|-------------------------|-------------------------|-----------------------|----|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| SIGN BRIDGE REPLACEMENT | | | | | | | |
| | DRAWN BY: BRS BY: TD | | | | | | |
| | TRL | ISS REPAIR SHEET 6 OF | 37 | | | | |
| | [| DETAILS | | | | | |

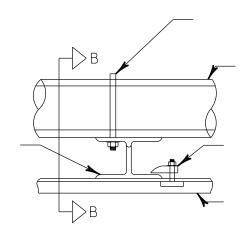
SIGN PANEL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL REPAIRS.

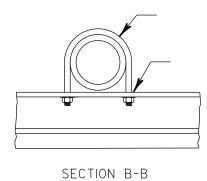
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.

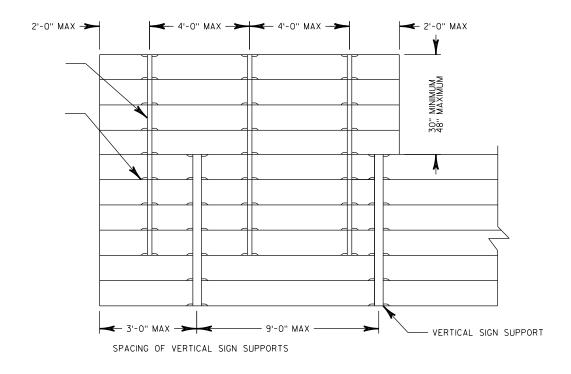
3. ALL STAINLESS STEEL BOLTS, LOCK WASHERS, FLAT WASHERS, AND NUTS SHALL CONFORM TO:

- -ANCHOR BOLTS/HEX BOLTS ASTM F593 ANY ALLOW GROUPS 1, 2, OR 3
- -HEX NUTS ASTM F594
- -WASHERS ASTM A240
- -ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSIAND ELONGATION OF 15% FOR OVER 3/4" DIAMETER AND 12% FOR 3/4" DIAMETER AND SMALLER.





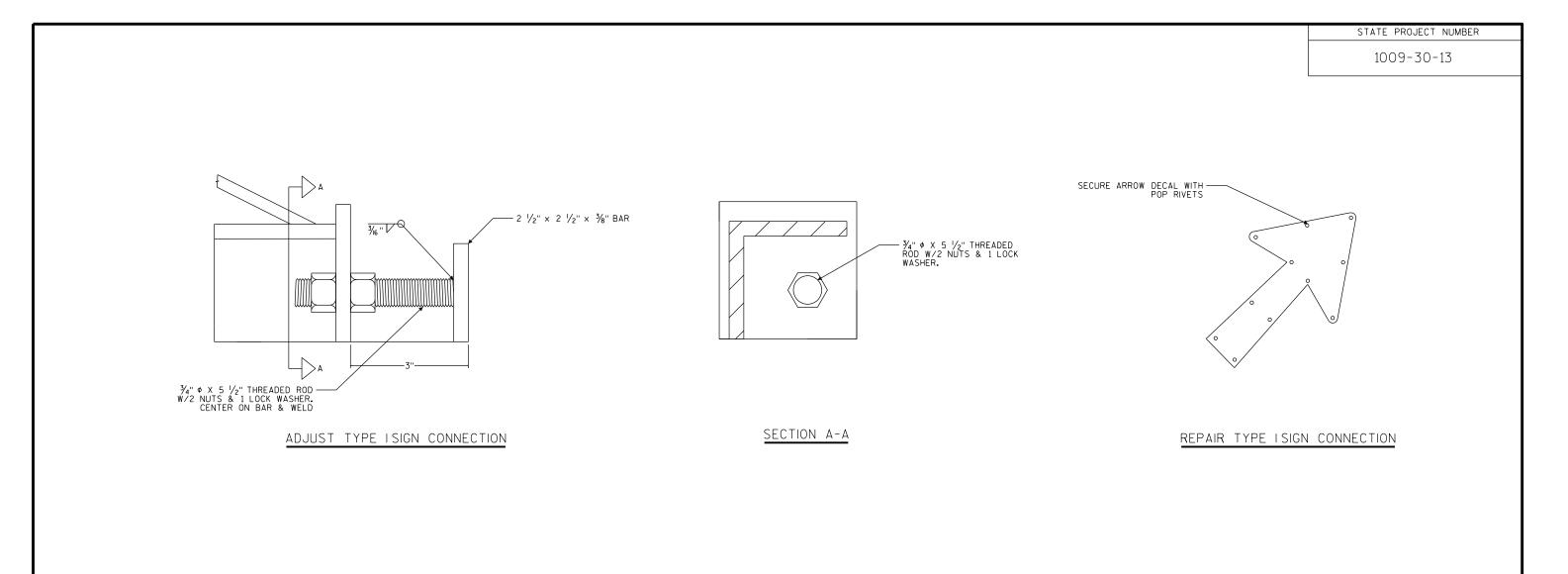


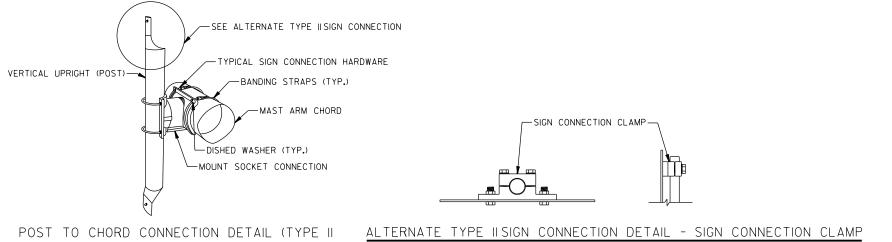


FLANGE CHANNEL SUPPORT/VERTICAL SIGN SUPPORT DETAILS

8

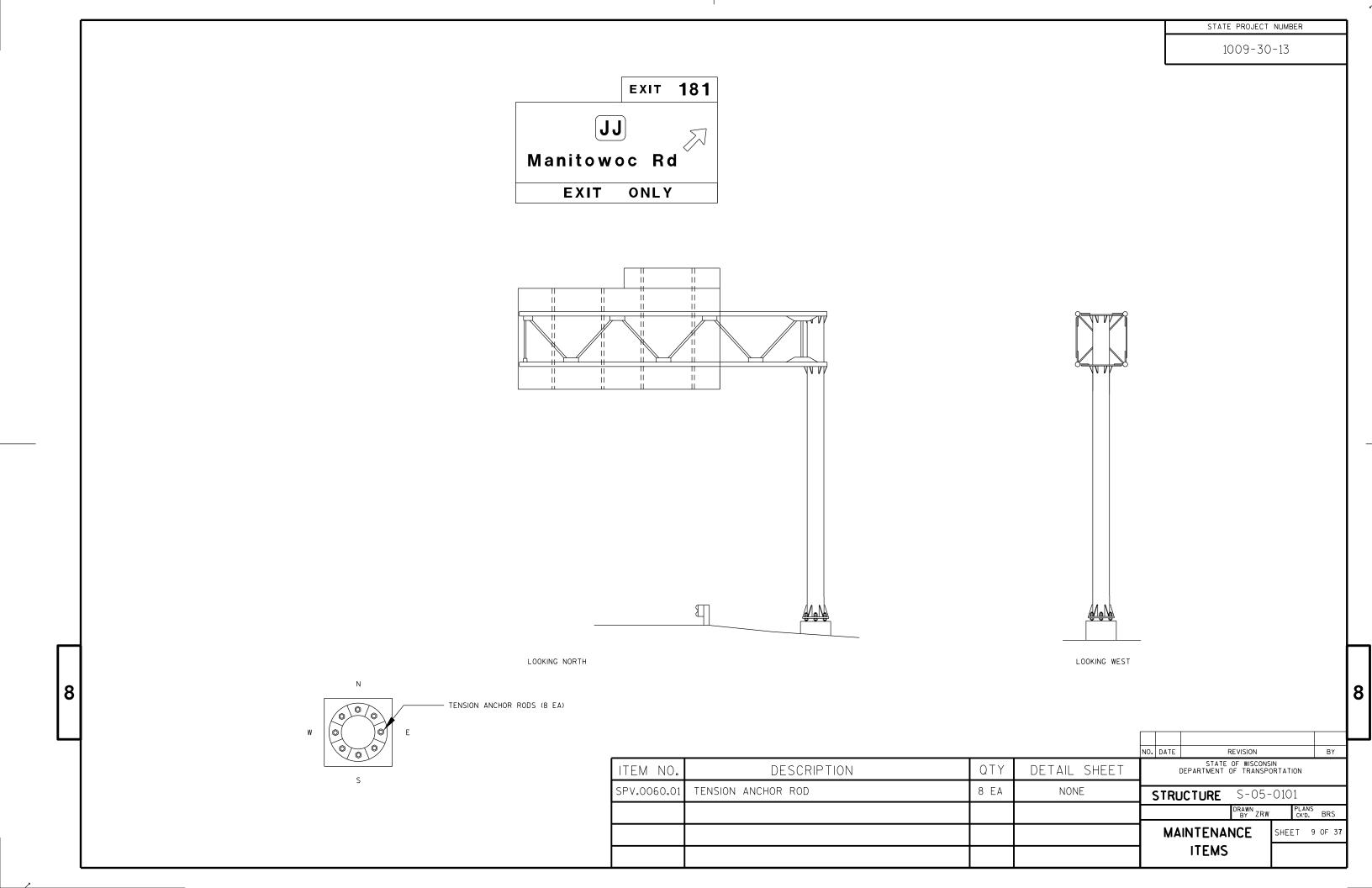
| NO. | DATE | | | R | EVISIO | N | | | BY |
|-----|------|------------|-------|------|--------------|-----|-------|---------------|------|
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| | SI | GN E | BRI[|) GI | E RE | EPL | . ACE | EMEI | ٧T |
| | | | | 1 | DRAWN BY: | BR | S | CHECKE BY: | D TD |
| | | N F FTA | . — . | | IR | | SHEE | T 7 OF | 37 |
| | D | | 41L | 2 | | | | | |
| | (1 | OF | - 2 | 2) | | | | | |

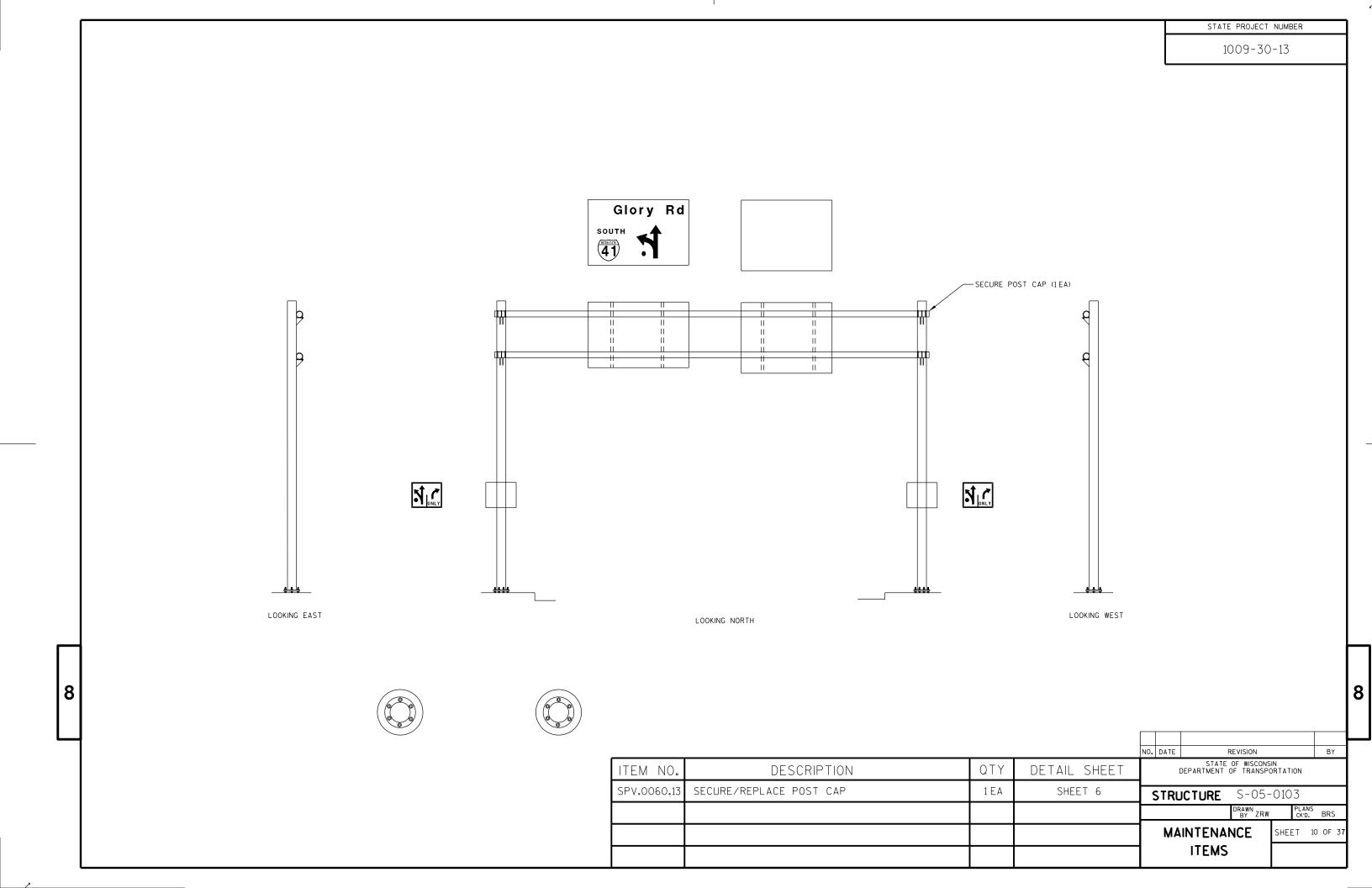




SIGN)/SIGN CONNECTION ASSEMBLY DETAIL

| NO. | DATE | REVISION | BY | | | | | | |
|-----|-------------------------|--------------------------|------|--|--|--|--|--|--|
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| | | | | | | | | | |
| | SIGN BRIDGE REPLACEMENT | | | | | | | | |
| | | DRAWN BY: BRS CHECKE BY: | D TD | | | | | | |
| | SIC | ON REPAIR SHEET 8 OF | 37 | | | | | | |
| | | DETAILS - 3 G | 31 | | | | | | |
| | (2 | 2 OF 2) | | | | | | | |



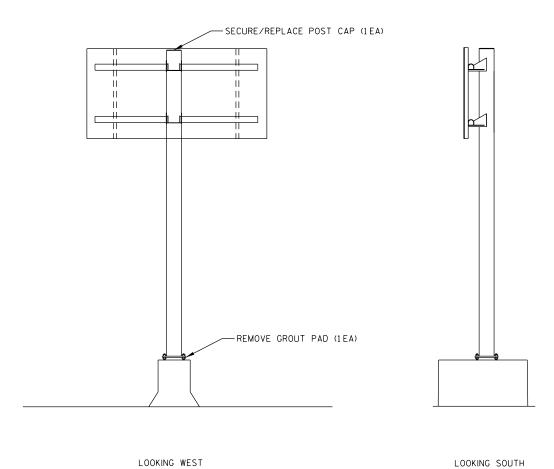


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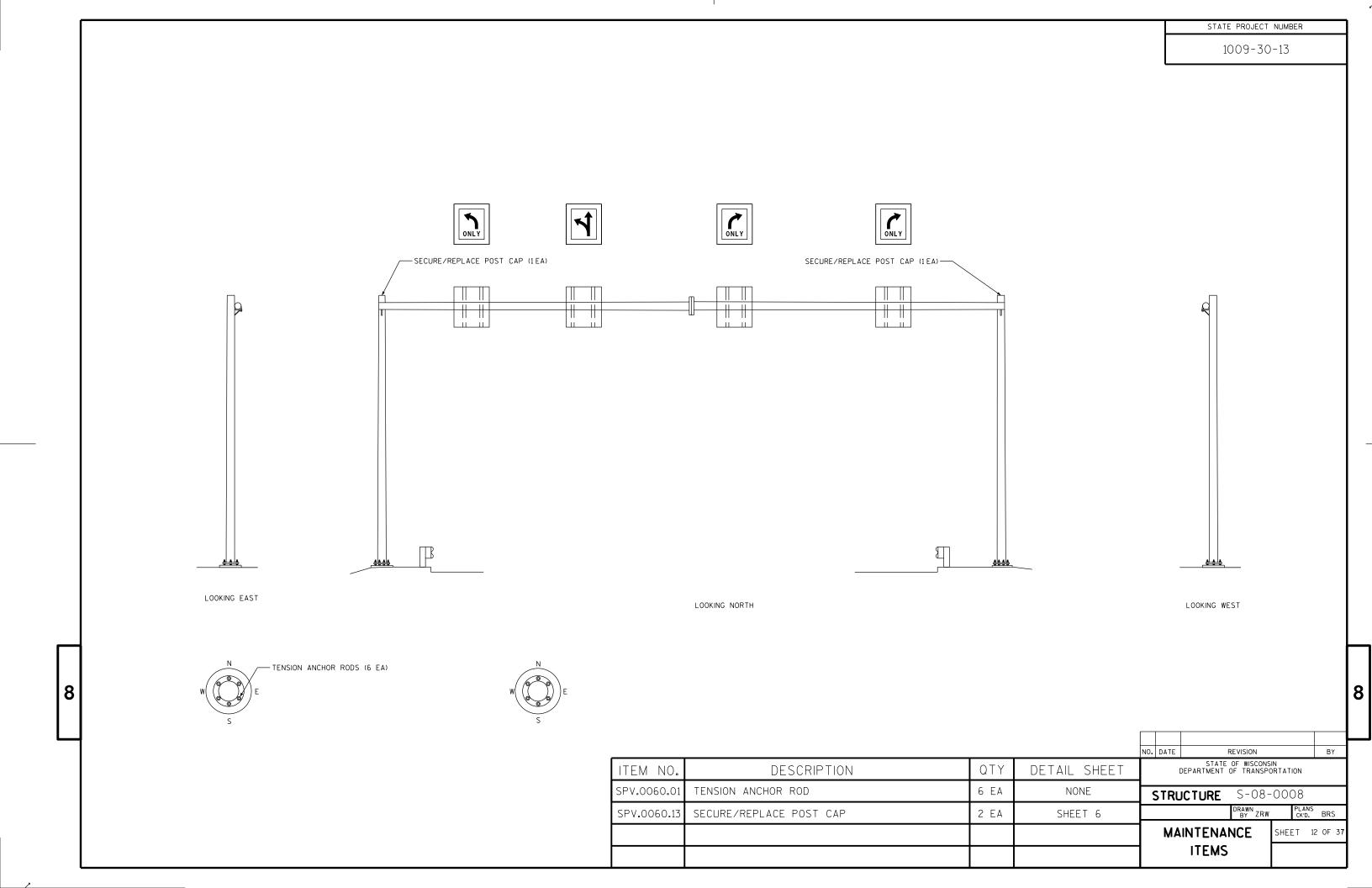
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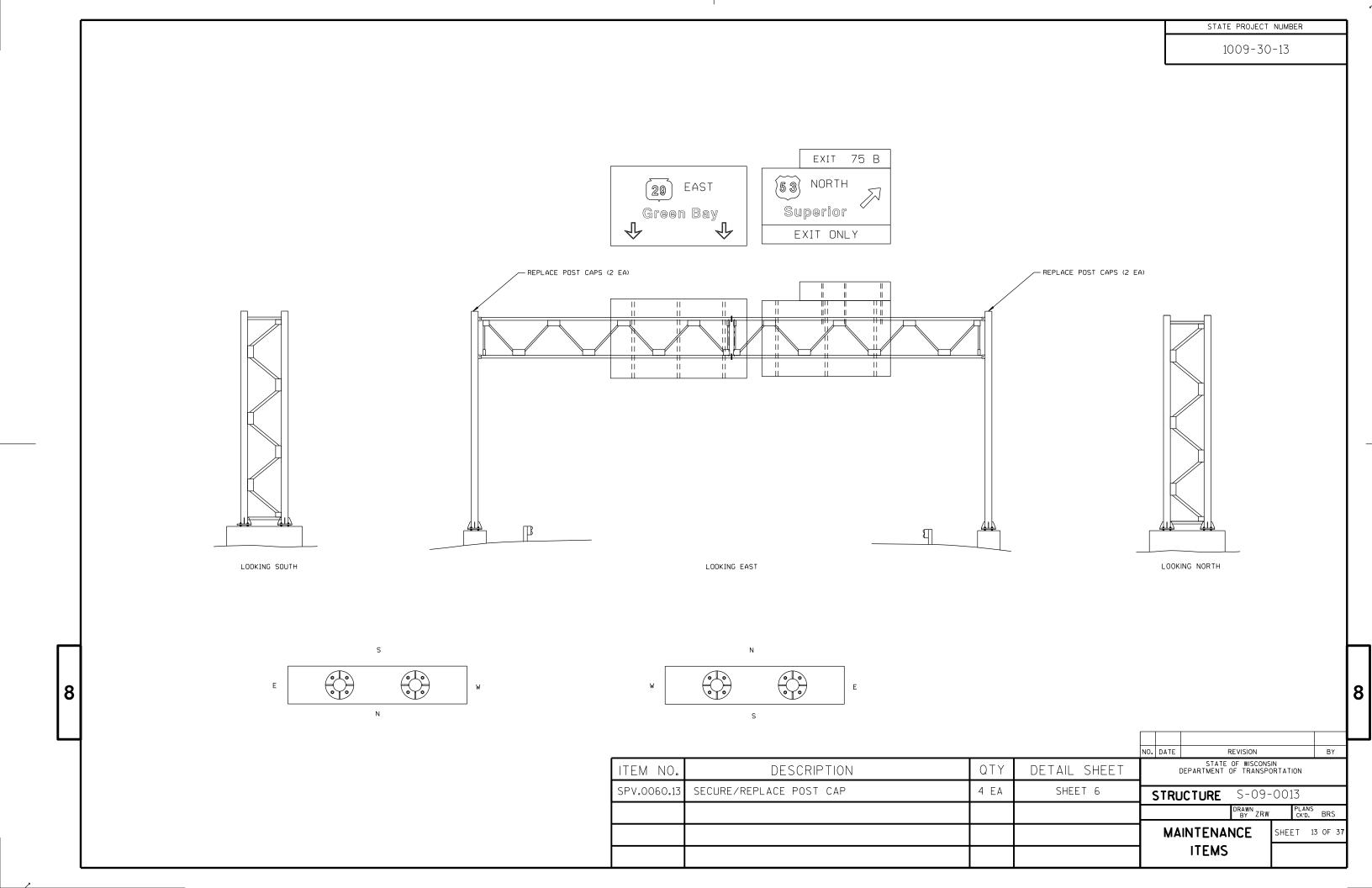
Hwy 10 3/4 Hwy 47 13/4 Hwy AP 23/4

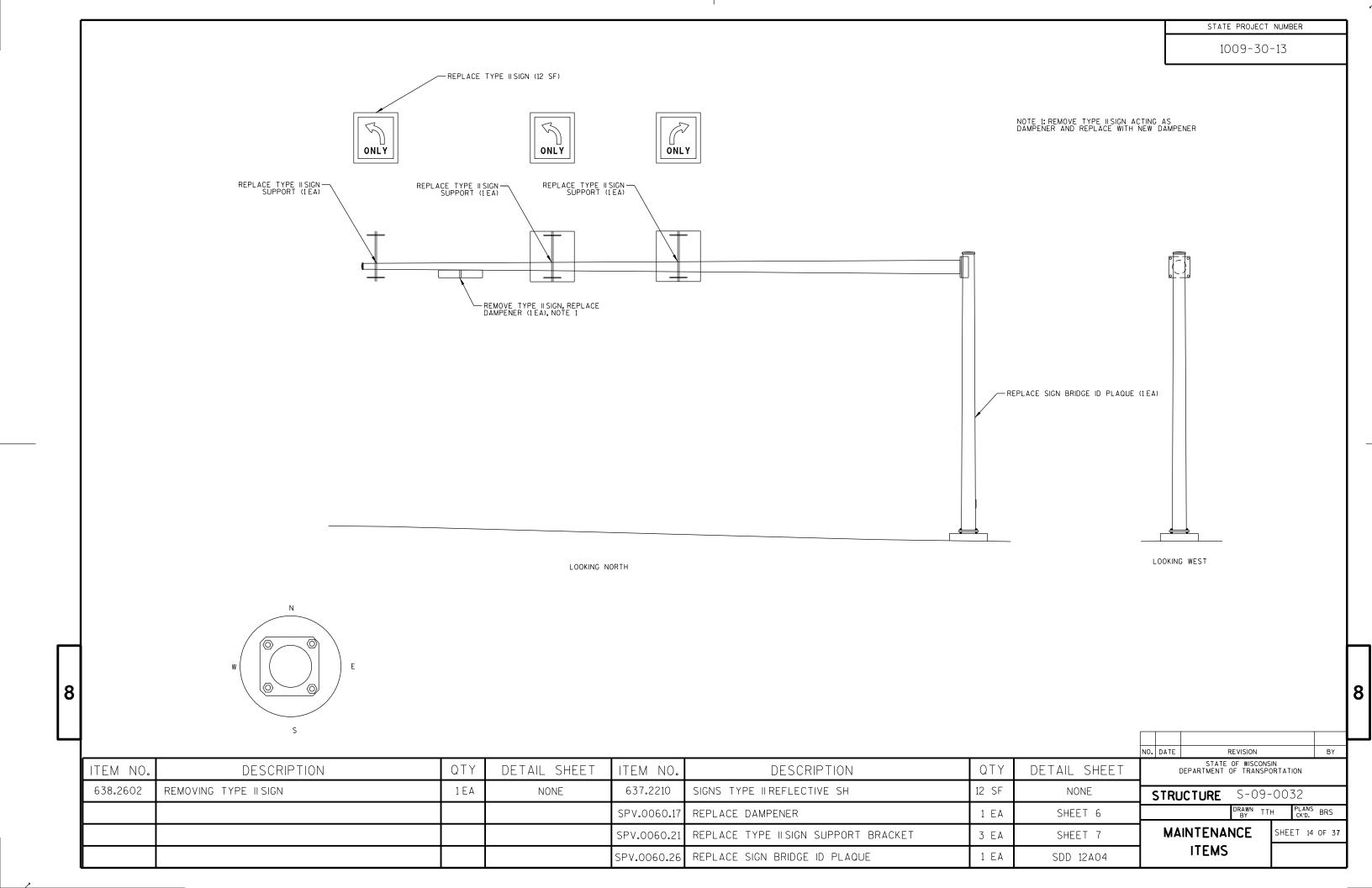


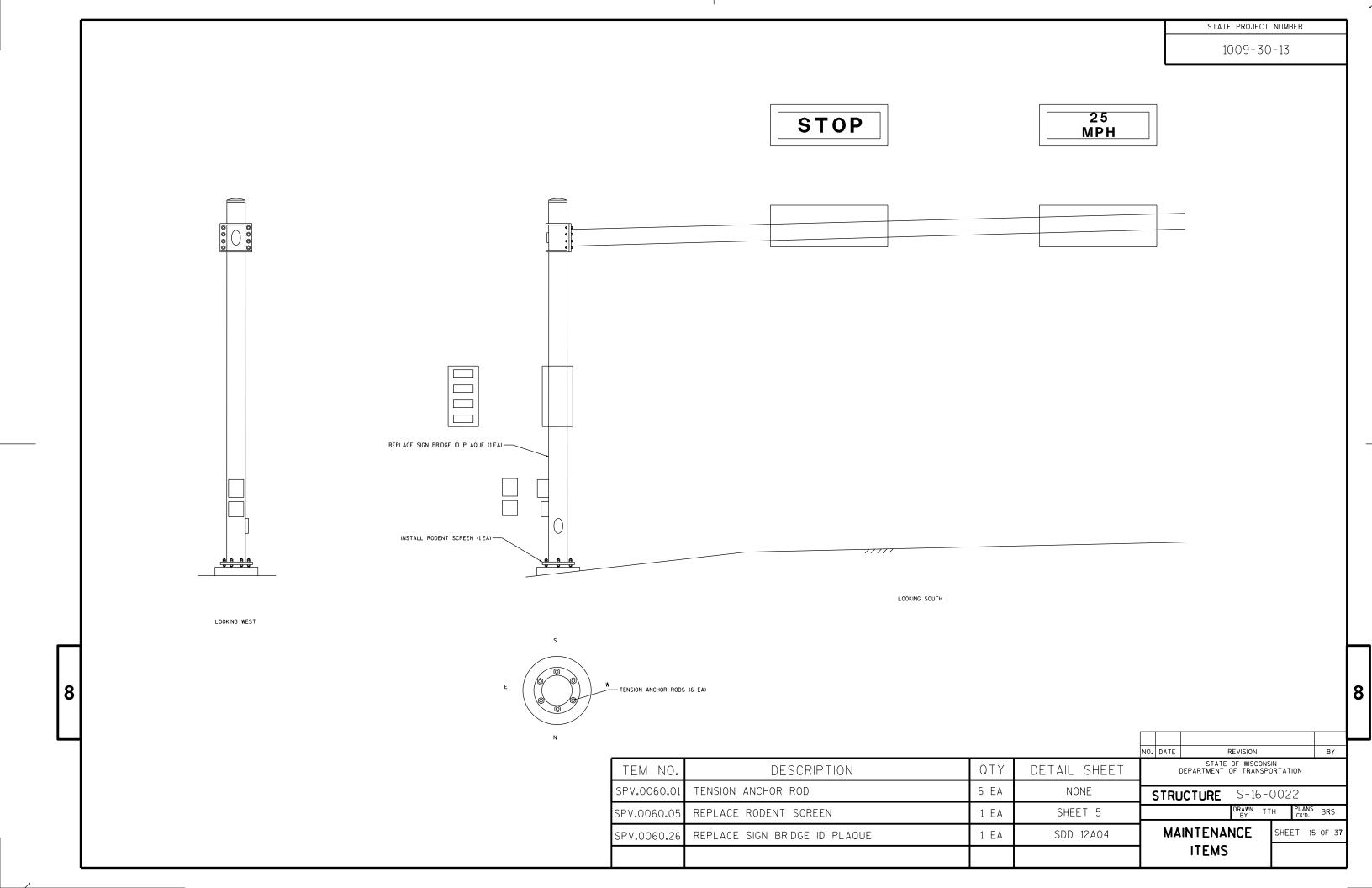
W S

NO. DATE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION QTY DESCRIPTION DETAIL SHEET ITEM NO. SPV.0060.06 REMOVE GROUT PAD 1EA SHEET 5 STRUCTURE S-08-0001 PLANS CK'D. BRS SPV.0060.13 SECURE/REPLACE POST CAP 1EA SHEET 6 MAINTENANCE SHEET 11 OF 37 ITEMS





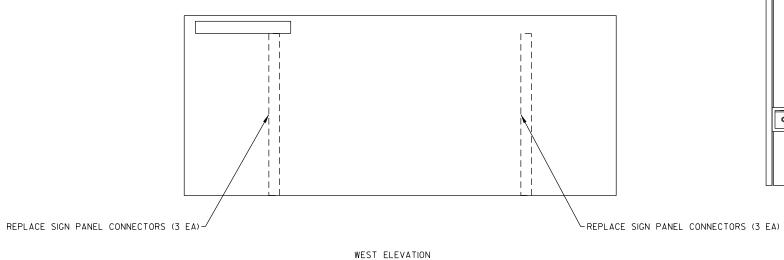




STATE PROJECT NUMBER

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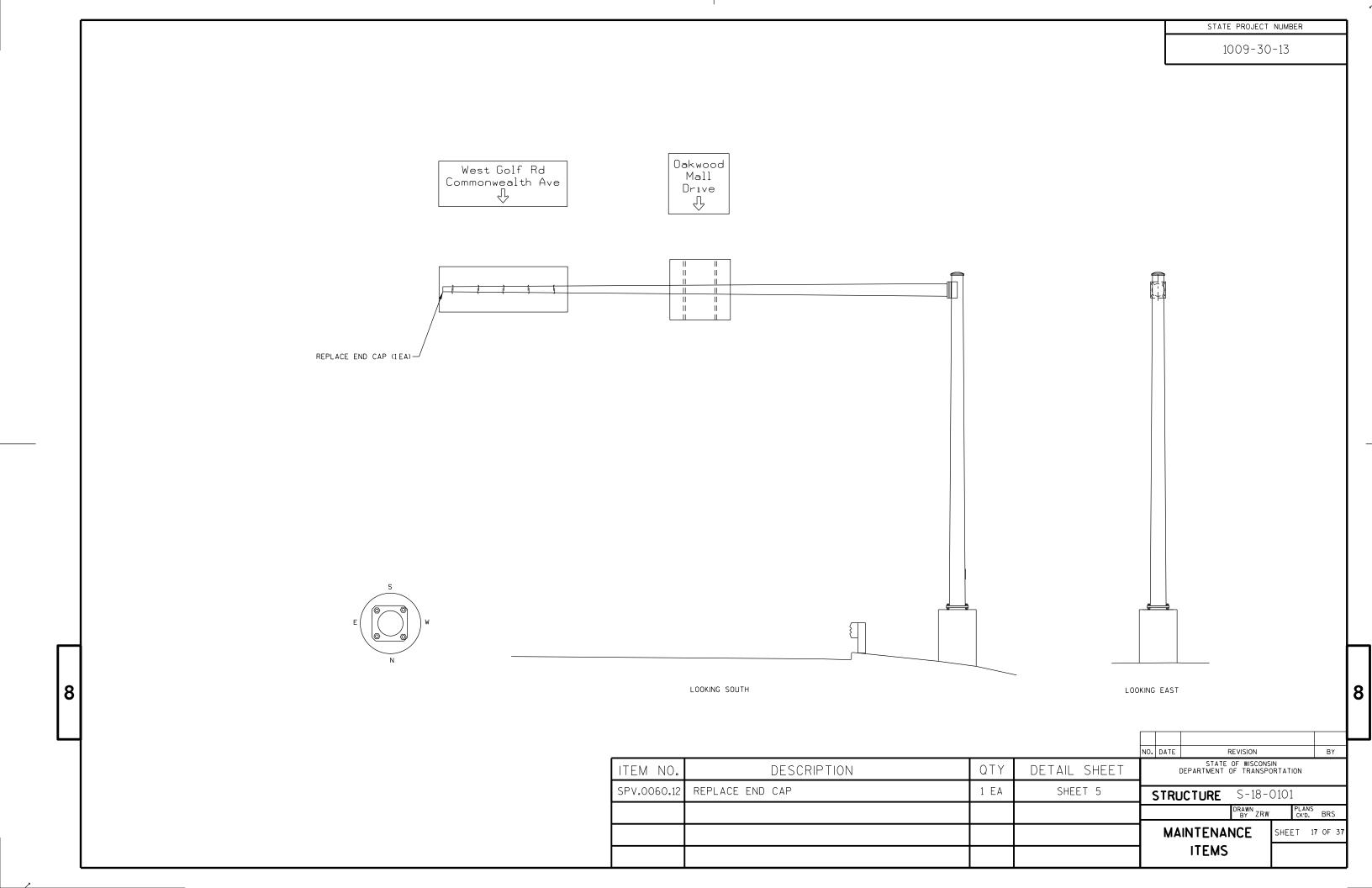


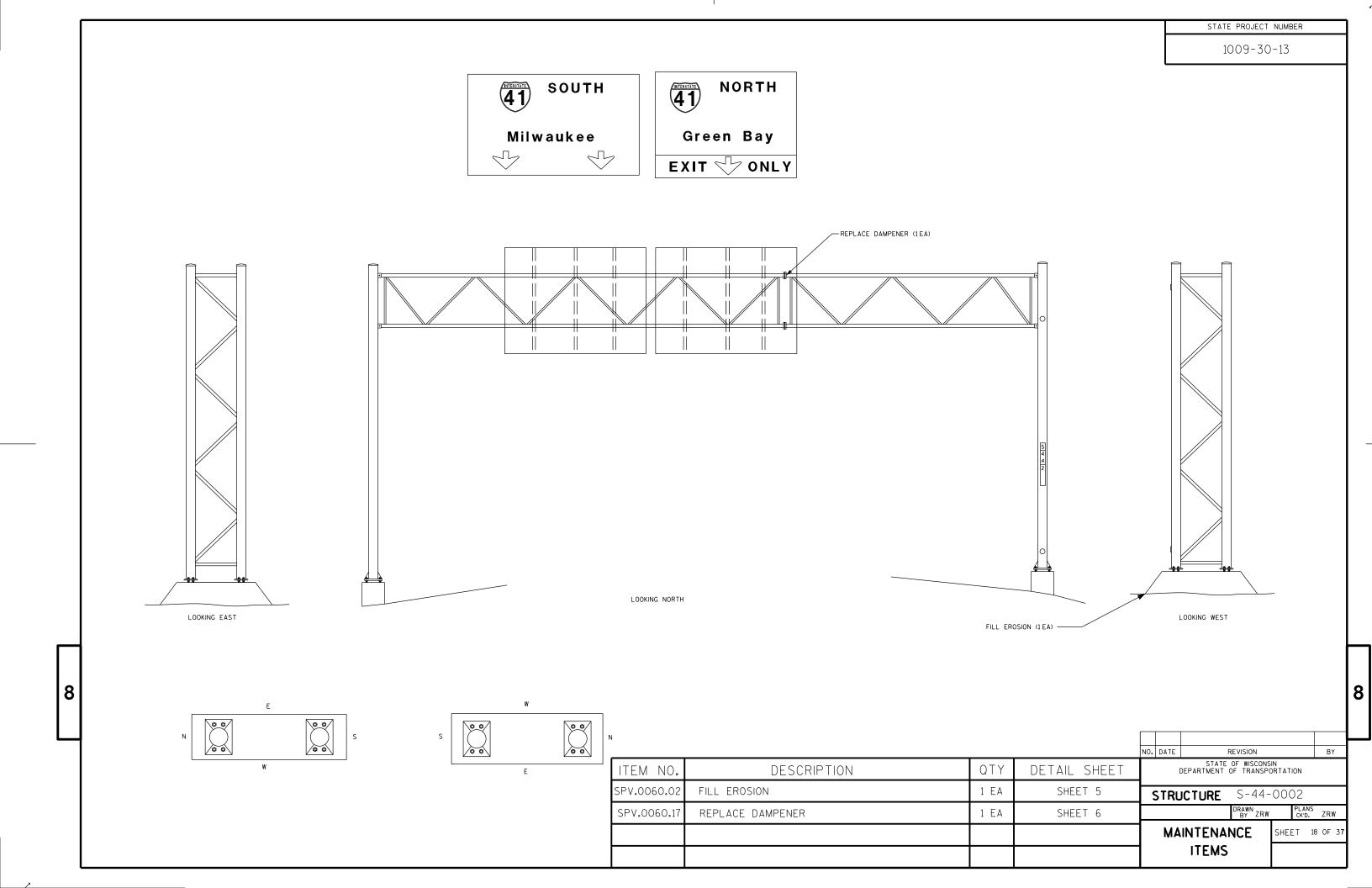
REPAIR BRIDGE MOUNTED TYPE ISIGN SUPPORT (IEA)

SOUTH ELEVATION

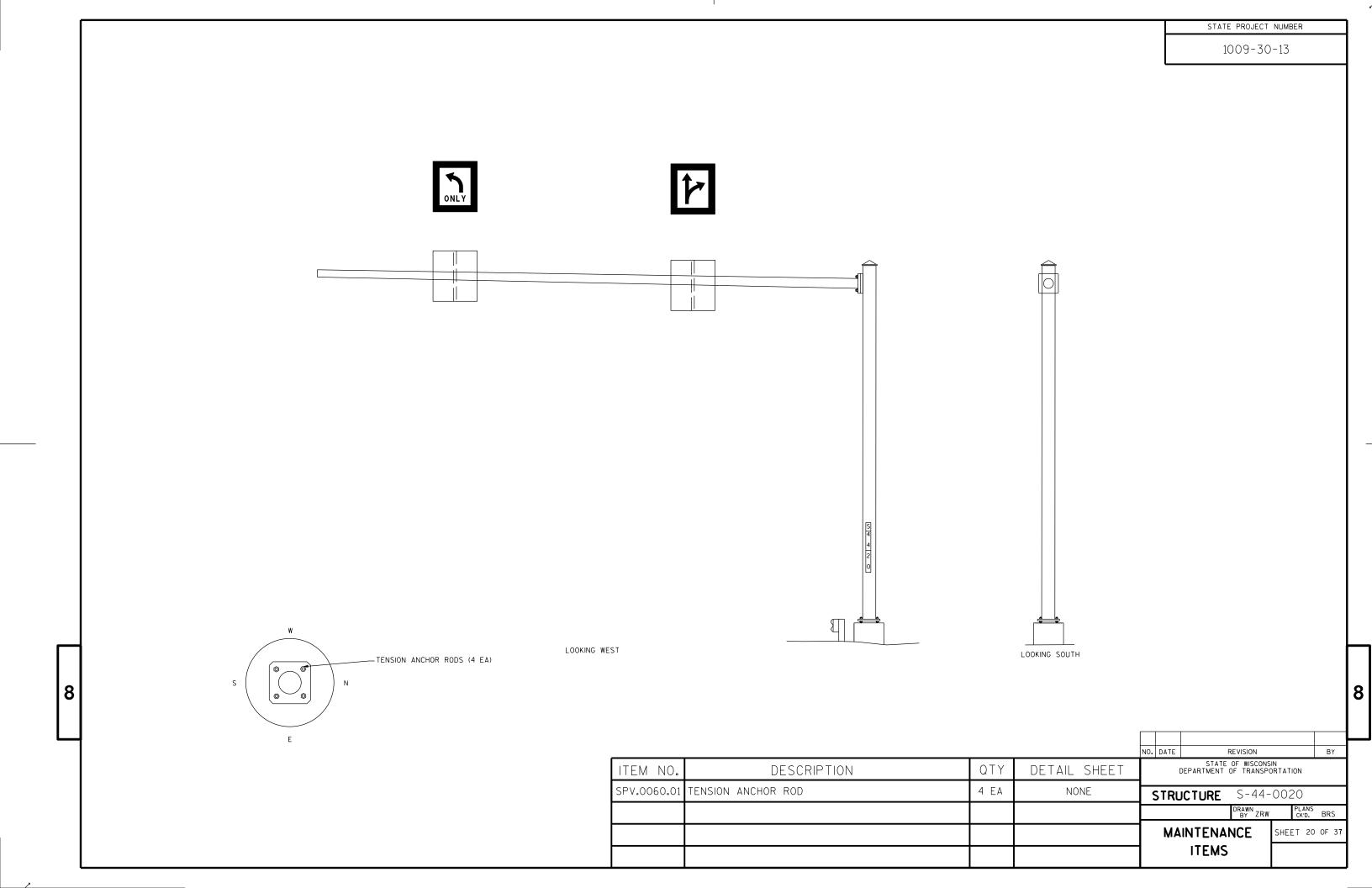
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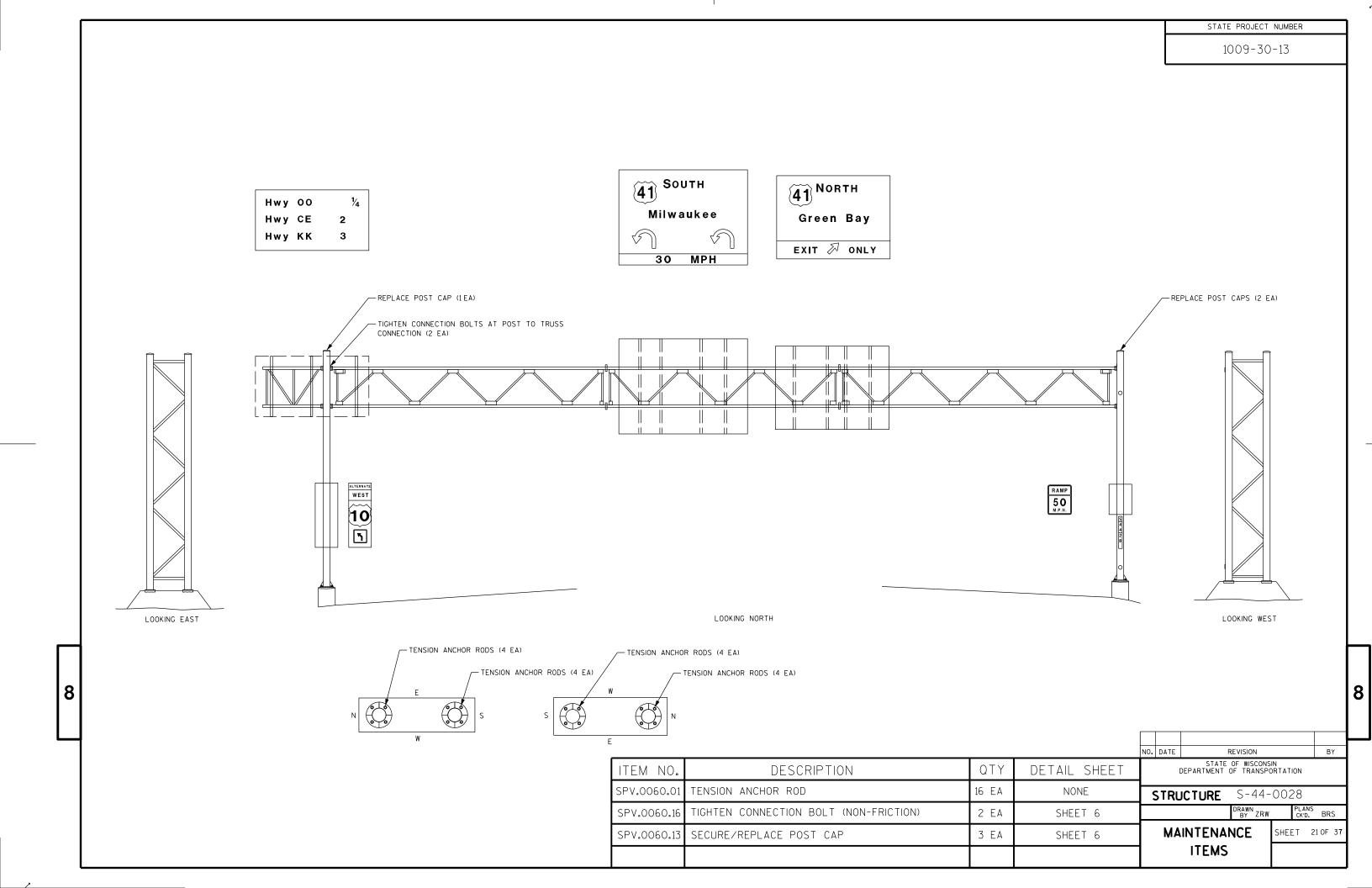
| | | | | NO. DATE | REVISION | | BY |
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| ITEM NO. | DESCRIPTION | QTY | DETAIL SHEET | | STATE OF WISCONSI DEPARTMENT OF TRANSPO | | |
| SPV.0060.20 | REPLACE SIGN PANEL CONNECTOR | 6 EA | SHEET 7 | STRL | ICTURE S-17-0 | 0004 | |
| SPV.0060.45 | REPAIR BRIDGE MOUNTED TYPE ISIGN SUPPORT | 1 EA | SHEET 8 | | DRAWN BY ZRW | PLANS CK'D. | BRS |
| | | | | MA | | SHEET 16 | OF 37 |
| | | | | | ITEMS | | |





STATE PROJECT NUMBER 1009-30-13 Hwy CE Hwy KK 2 1/4 Hwy OO Hwy 10 3 Hwy 47 3 Hwy 41 LOOKING NORTH LOOKING SOUTH -REPLACE POST CAP (1EA) LOOKING NORTH LOOKING EAST Ν 8 8 NO. DATE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION QTY DESCRIPTION DETAIL SHEET ITEM NO. SPV.0060.13 SEQURE/REPLACE POST CAP SHEET 6 1 EA STRUCTURE S-44-0006 DRAWN BY ZRW PLANS CK'D. BRS MAINTENANCE SHEET 19 OF 37 ITEMS

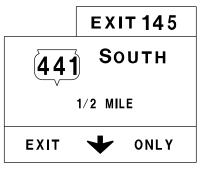


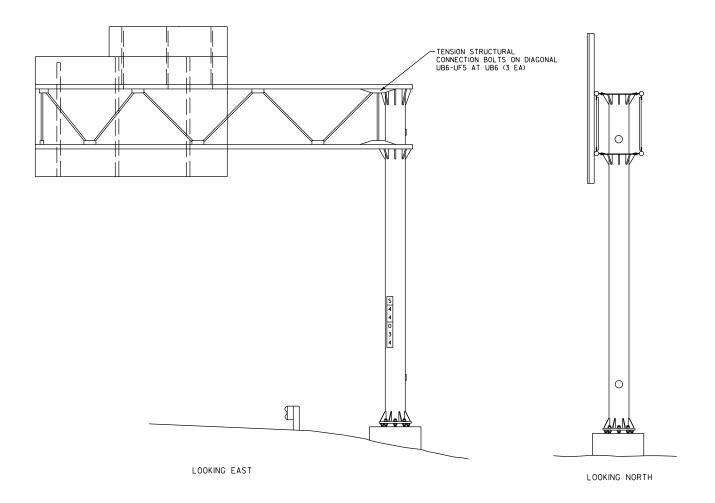


STATE PROJECT NUMBER

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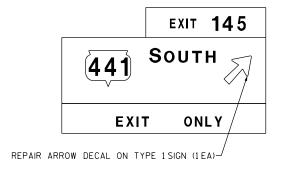
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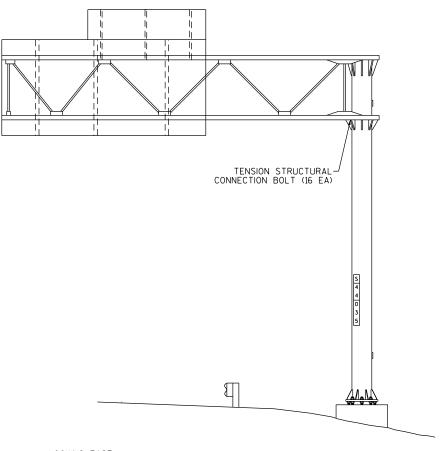
NO. DATE BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION QTY DESCRIPTION DETAIL SHEET ITEM NO. SPV.0060.10 3 EA TENSION STRUCTURAL CONNECTION BOLT SHEET 6 STRUCTURE S-44-0034 PLANS CK'D. BRS MAINTENANCE SHEET 22 OF 37 ITEMS

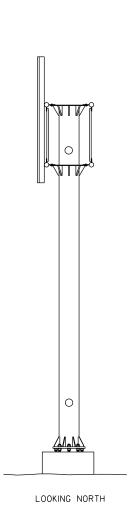
STATE PROJECT NUMBER

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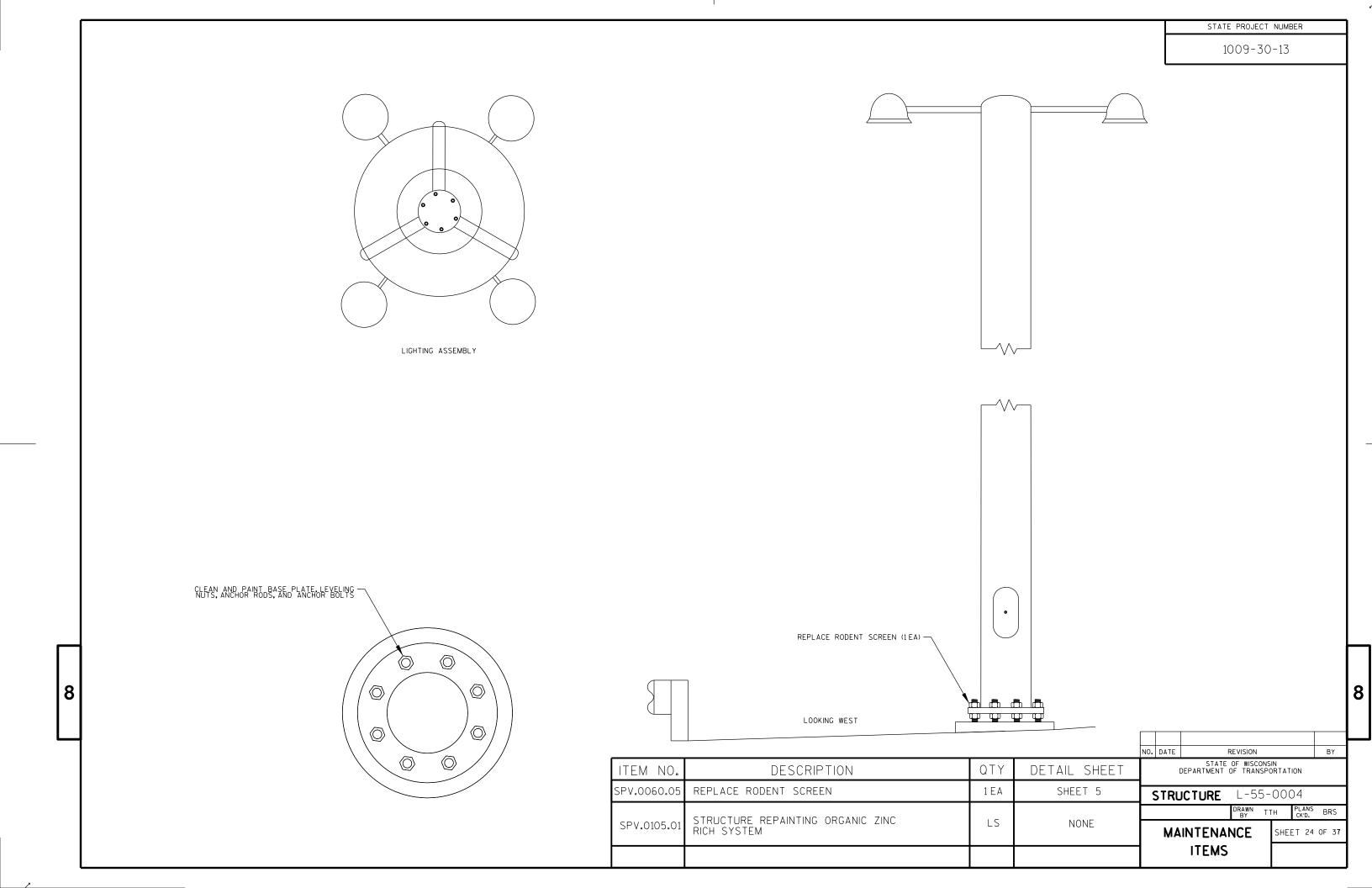


LOOKING EAST

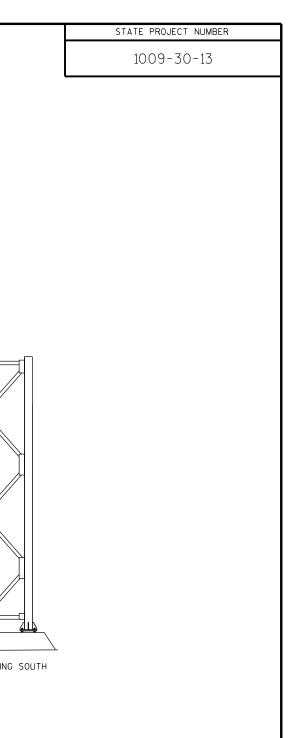
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|---|-----|---|
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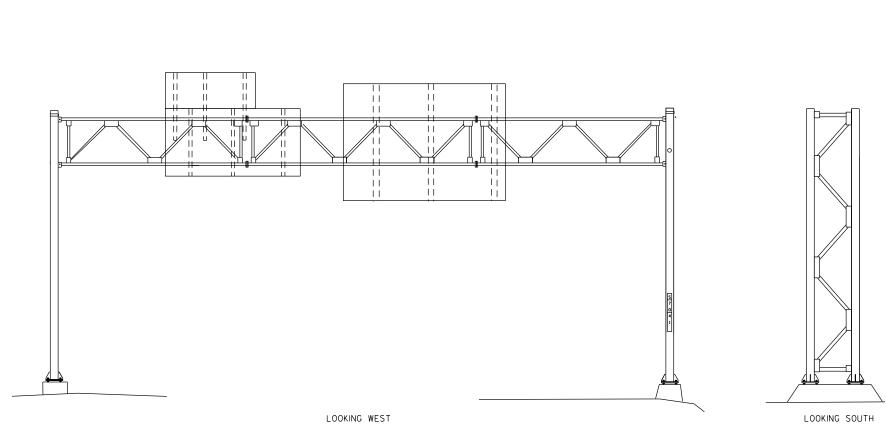
8

| | | | | NO. | DATE | REVISION | | ВҮ |
|-------------|------------------------------------|-------|--------------|--|------|-----------------|----------------|---------------|
| ITEM NO. | DESCRIPTION | QTY | DETAIL SHEET | STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | | |
| SPV.0060.10 | TENSION STRUCTURAL CONNECTION BOLT | 16 EA | SHEET 6 | <u>ا</u> [| STRL | JCTURE S-44- | -0035 | |
| SPV.0060.46 | REPAIR TYPE ISIGN | 1 EA | SHEET 8 | | | DRAWN BY ZRW | PLANS CK'D. | BRS |
| | | | | | MA | INTENANCE | SHEET 23 | OF 3 7 |
| | | | | ITEMS | | | | |



STATE PROJECT NUMBER 1009-30-13 **EXIT** 136 Prospect Ave REPLACE AND TENSION STRUCTURE-CONNECTION BOLTS, REAM HOLES TO PROPERLY ALIGN HOLES (16 EA) 0 0 0 0 8 8 LOOKING NORTH LOOKING WEST NO. DATE BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DESCRIPTION QTY DETAIL SHEET ITEM NO. 32 EA TENSION STRUCTURAL CONNECTION BOLT SPV.0060.10 SHEET 6 STRUCTURE S-70-0036 PLANS CK'D. BRS MAINTENANCE SHEET 25 OF 37 ITEMS

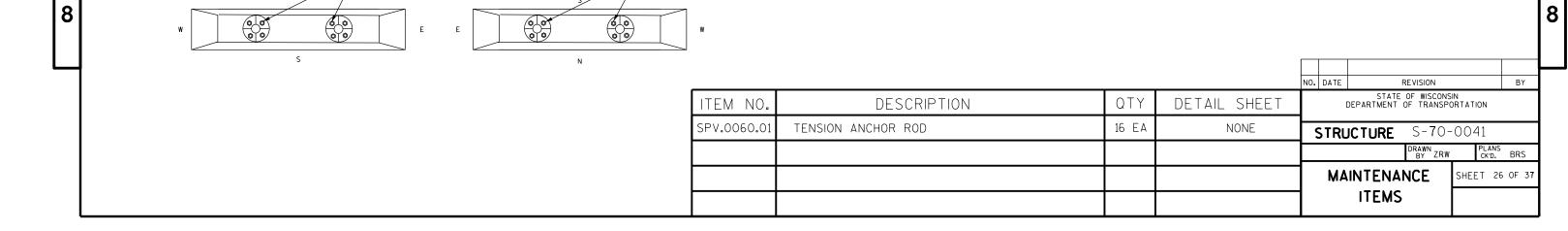




(10) (45) NORTH

Stevens Point New London

₹



TENSION ANCHOR RODS (8 EA)

LEFT

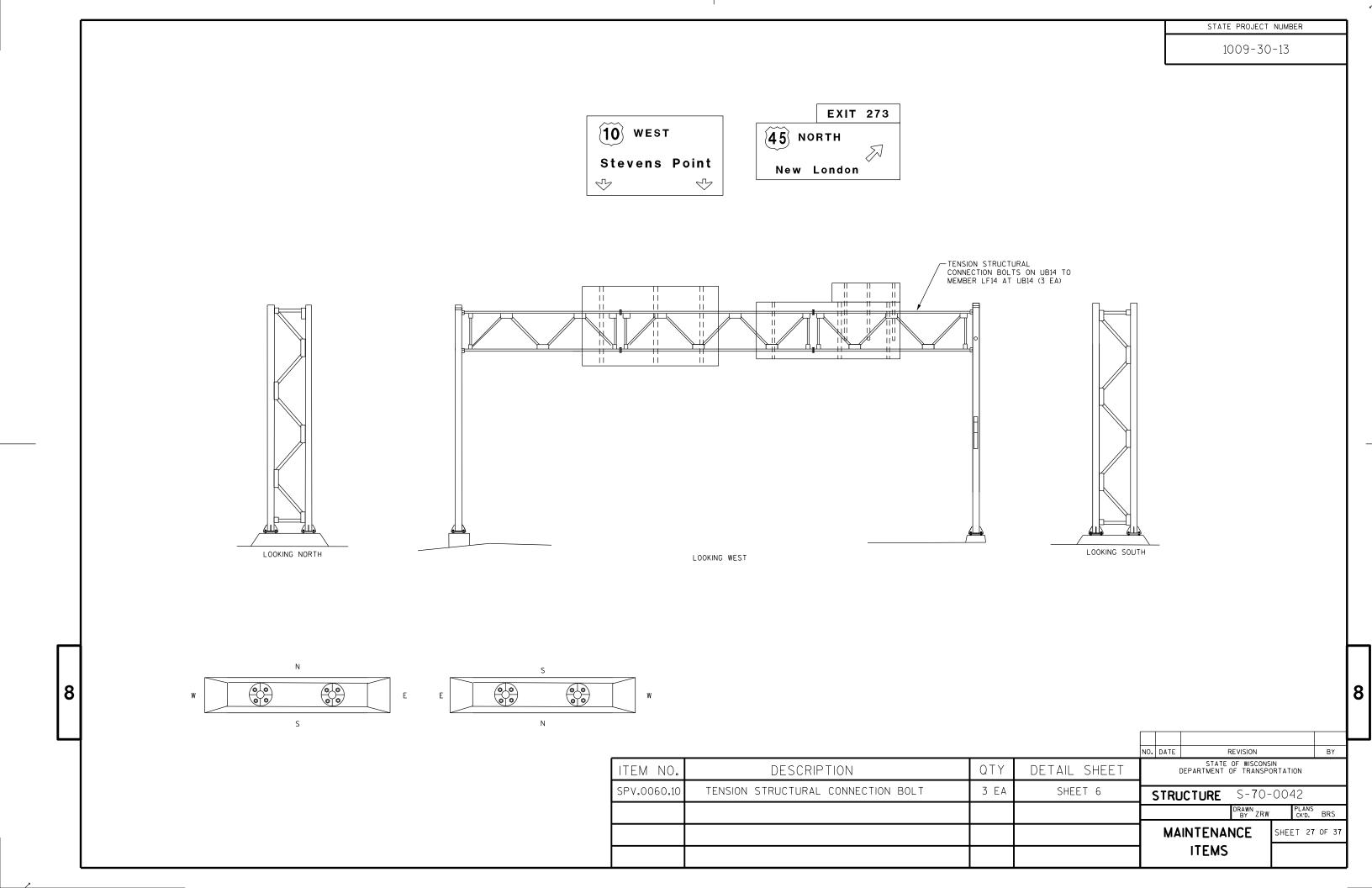
LOOKING NORTH

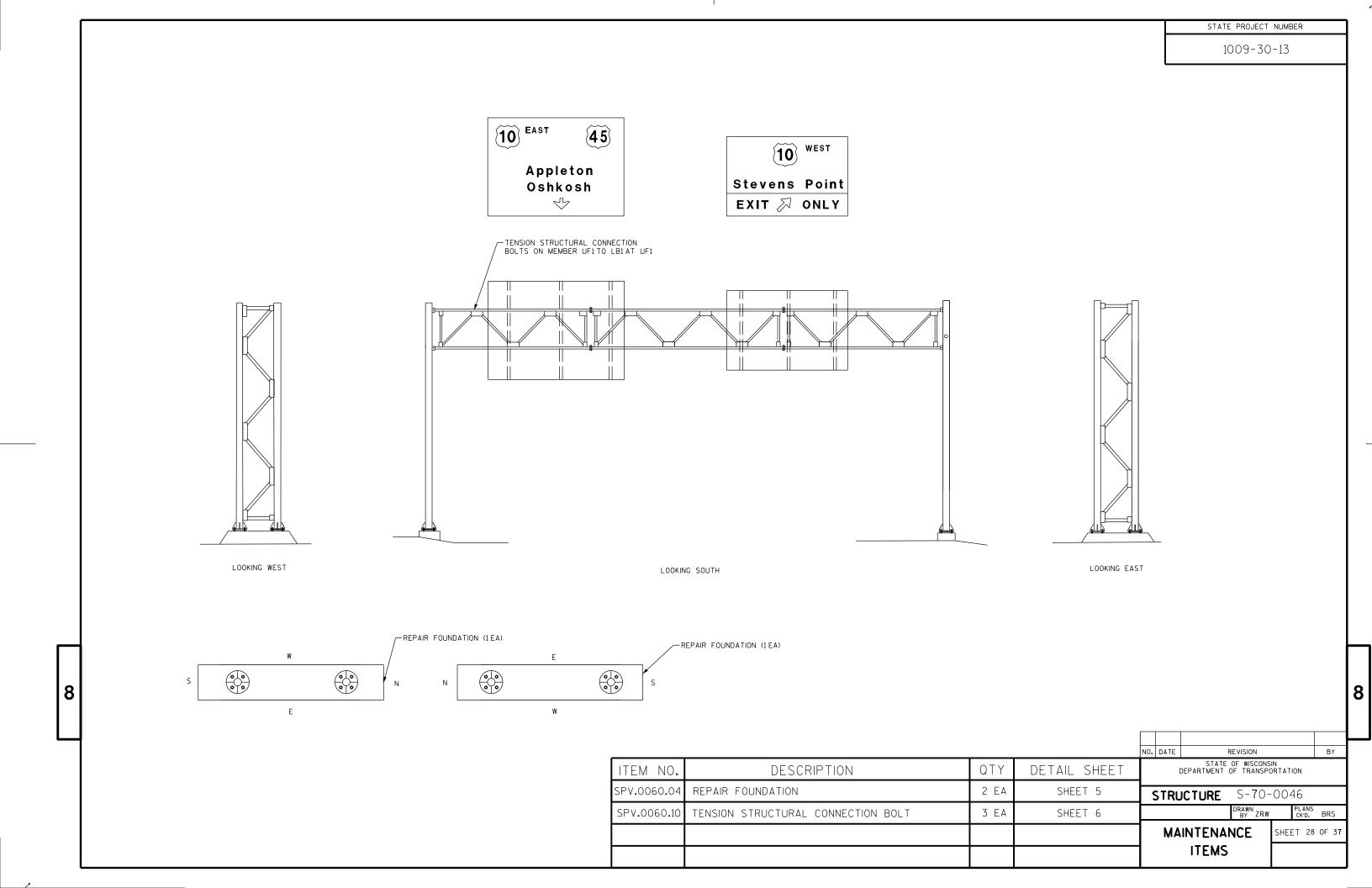
TENSION ANCHOR RODS (8 EA)

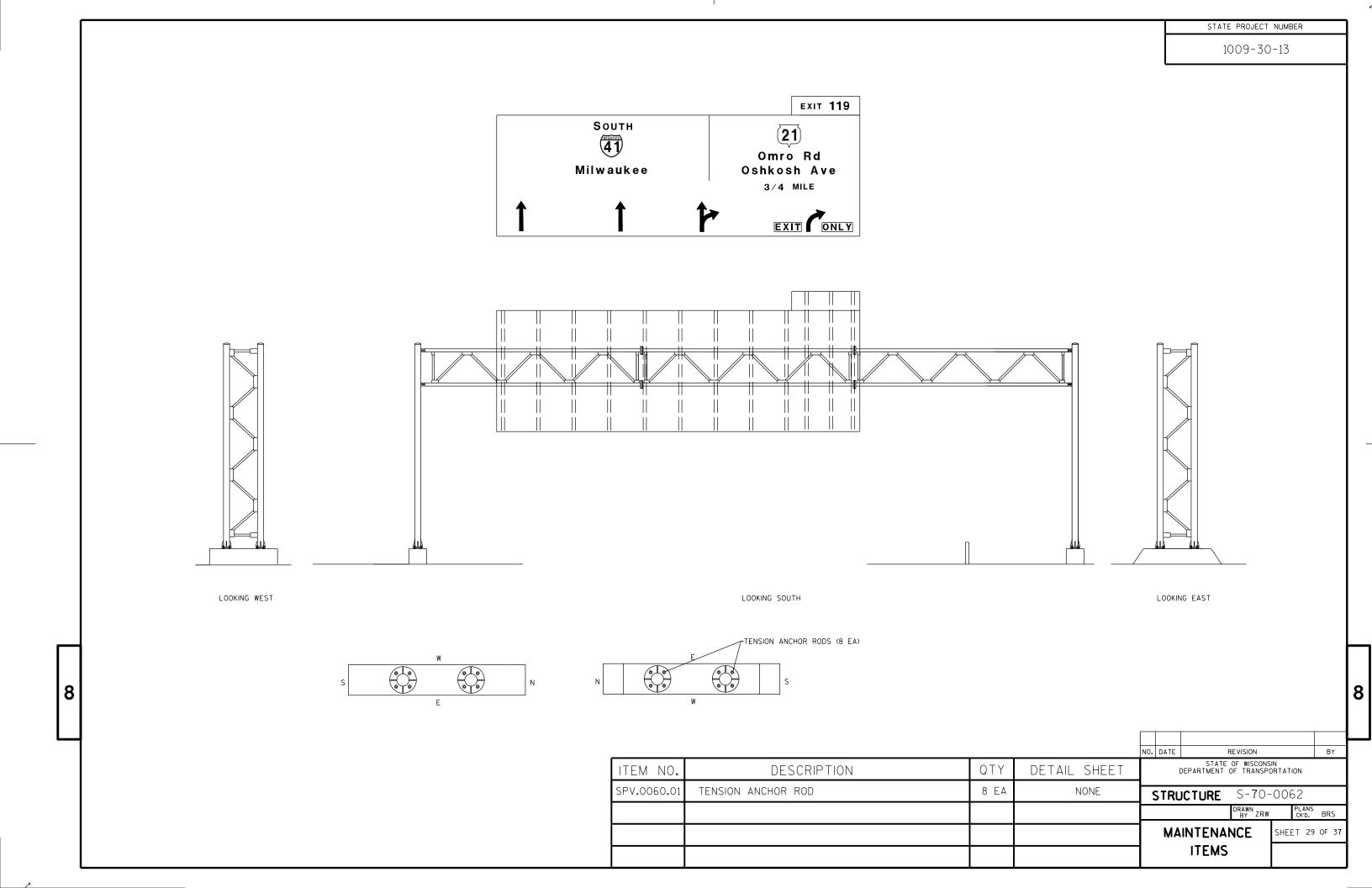
EXIT 276

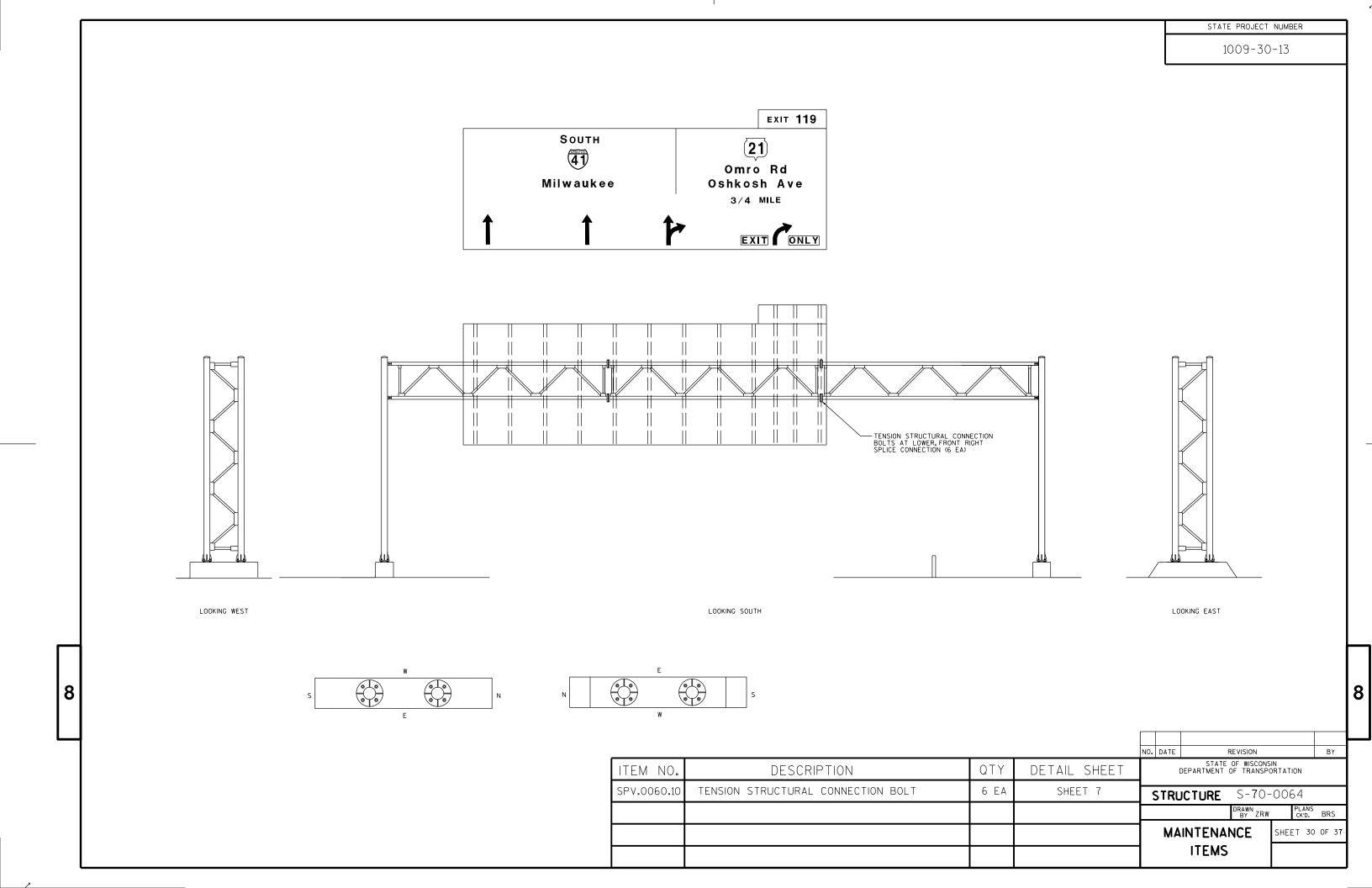
45 SOUTH

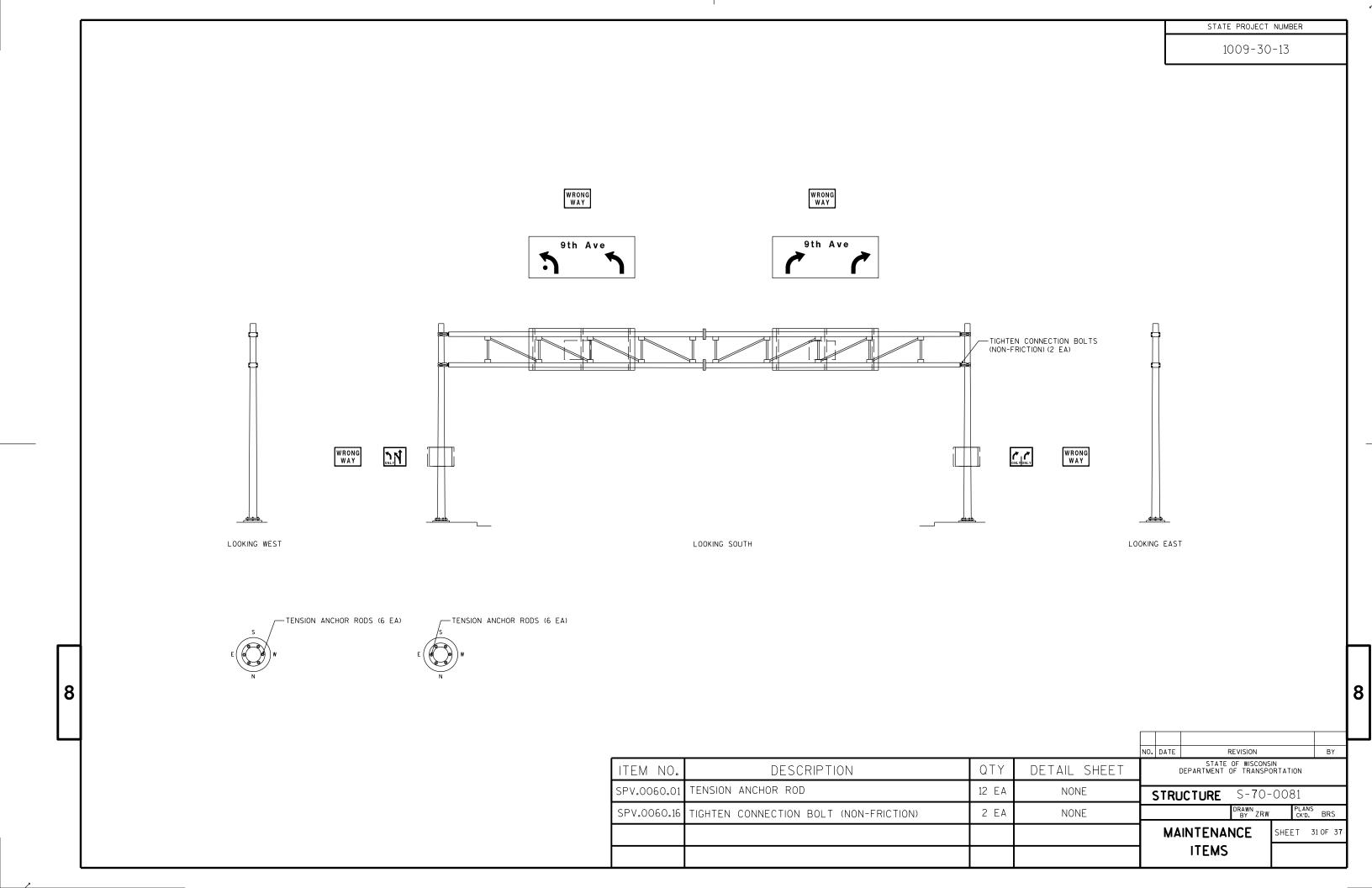
Oshkosh

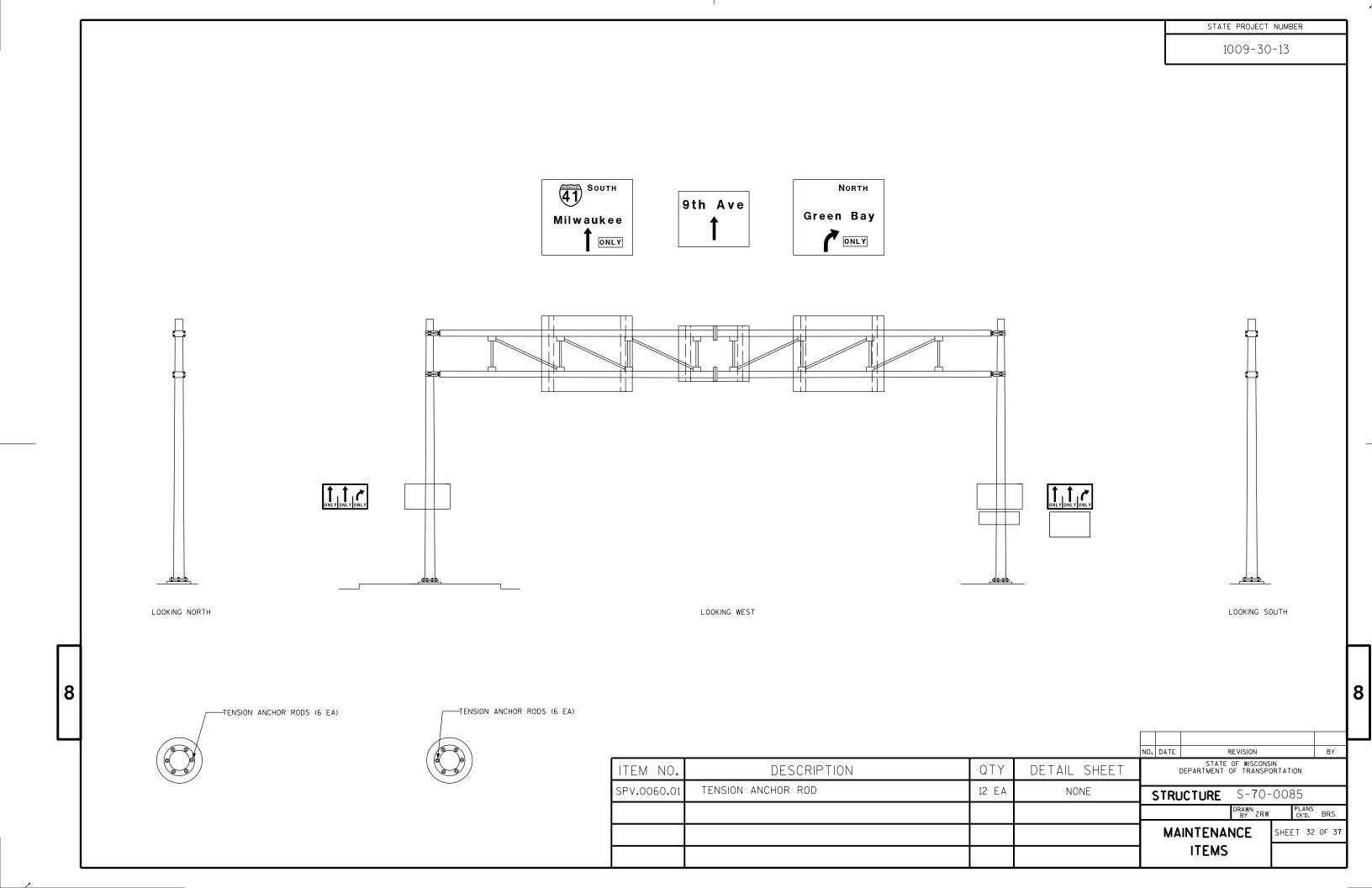


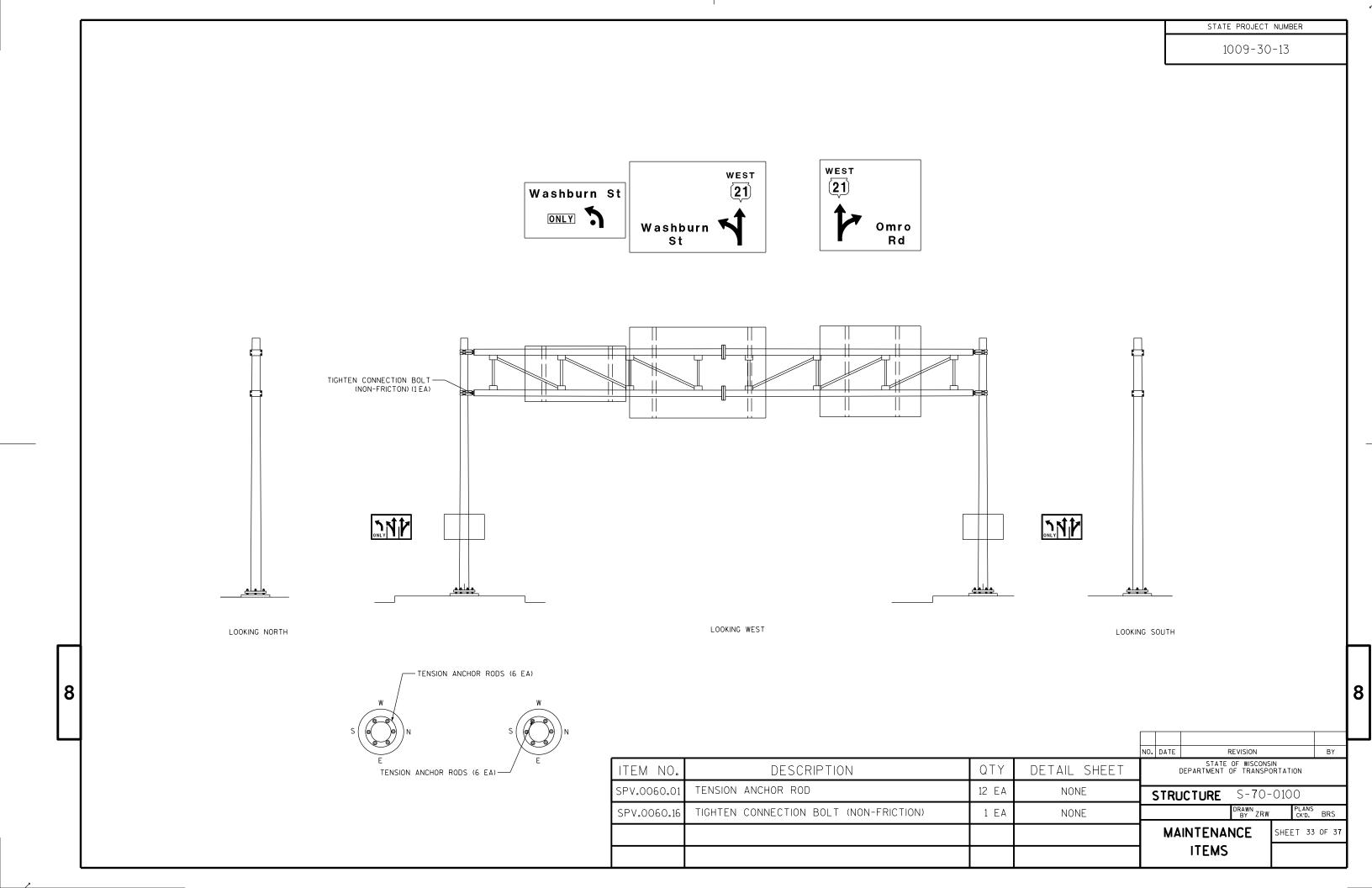


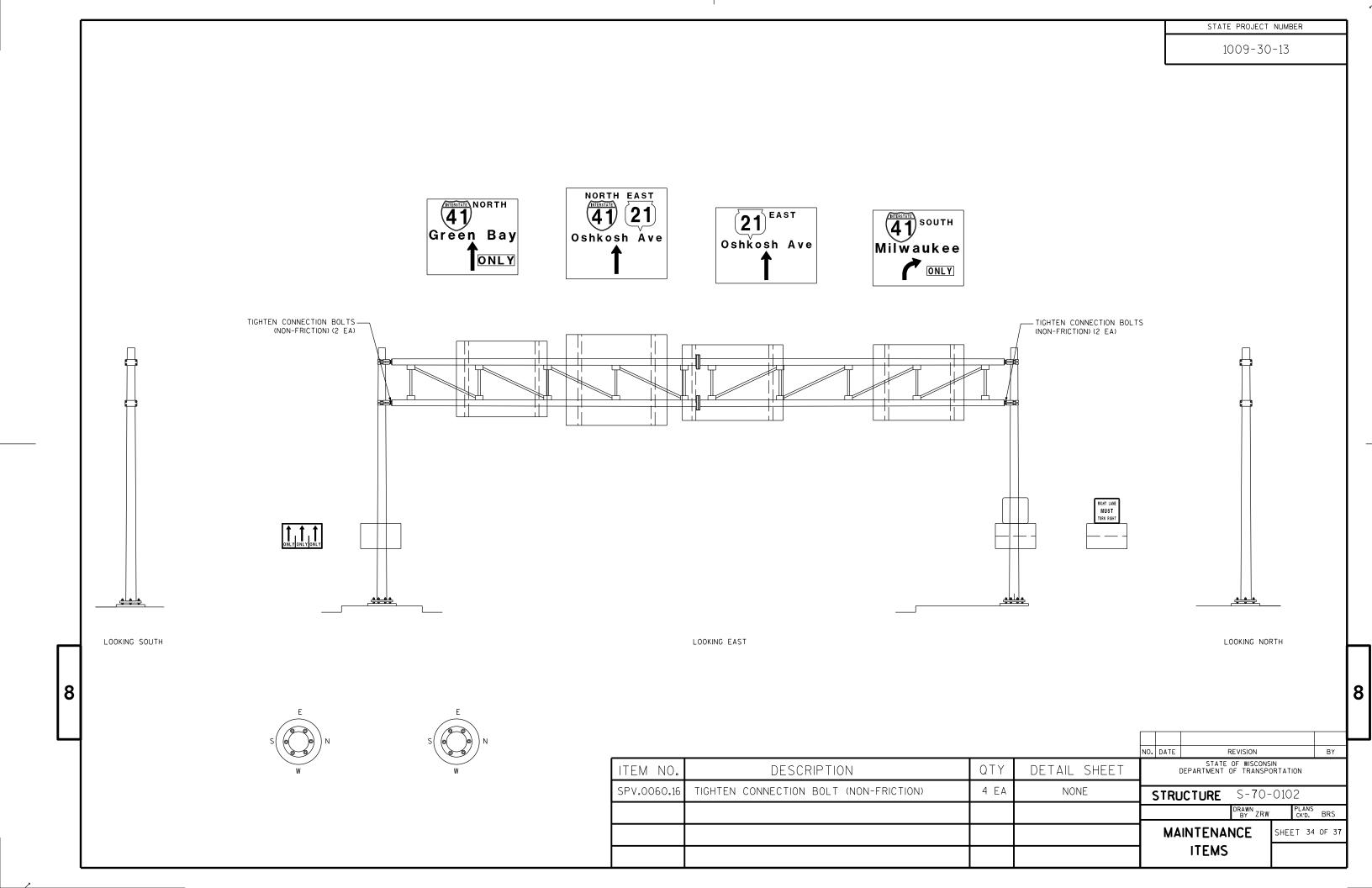


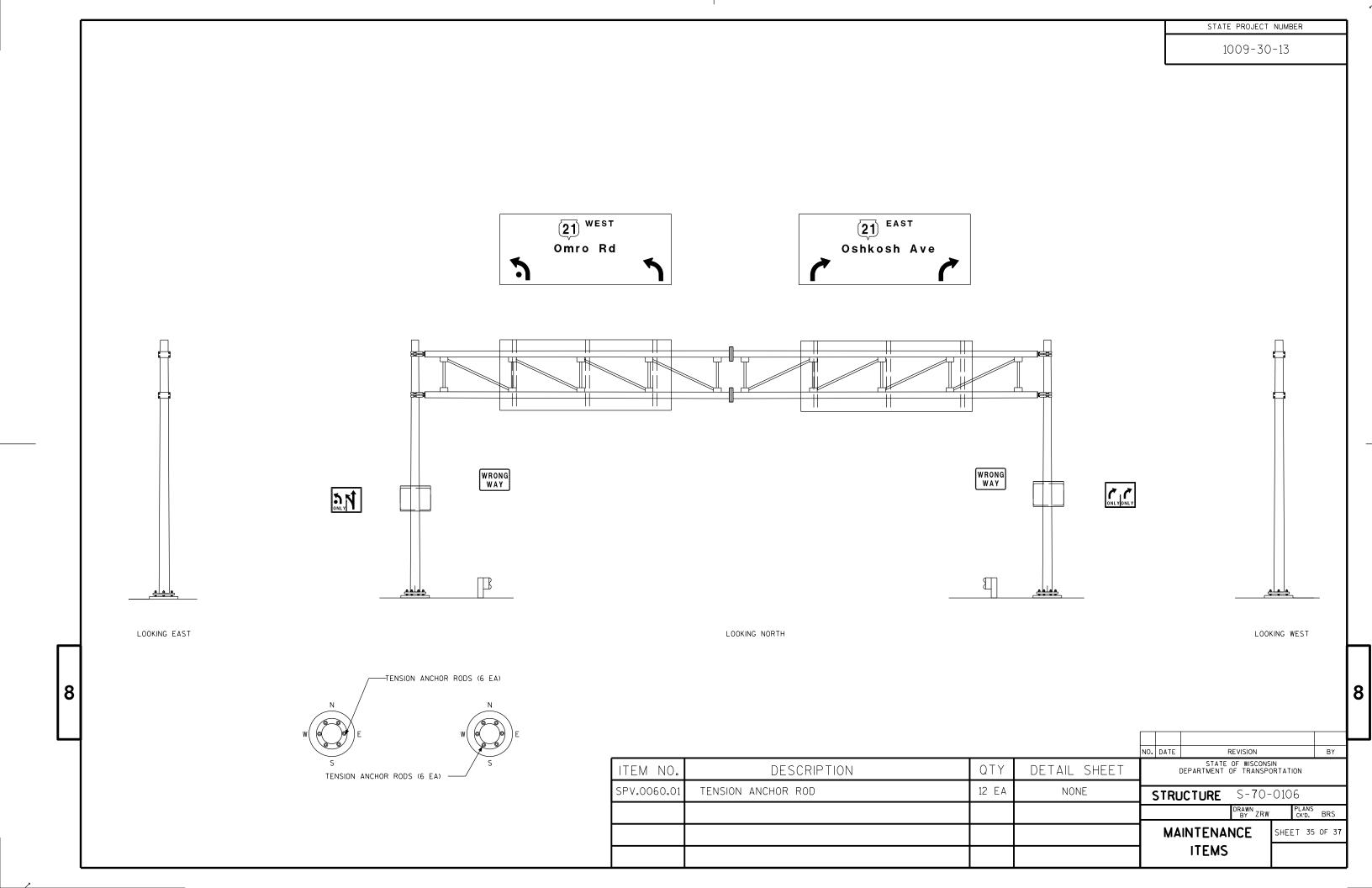


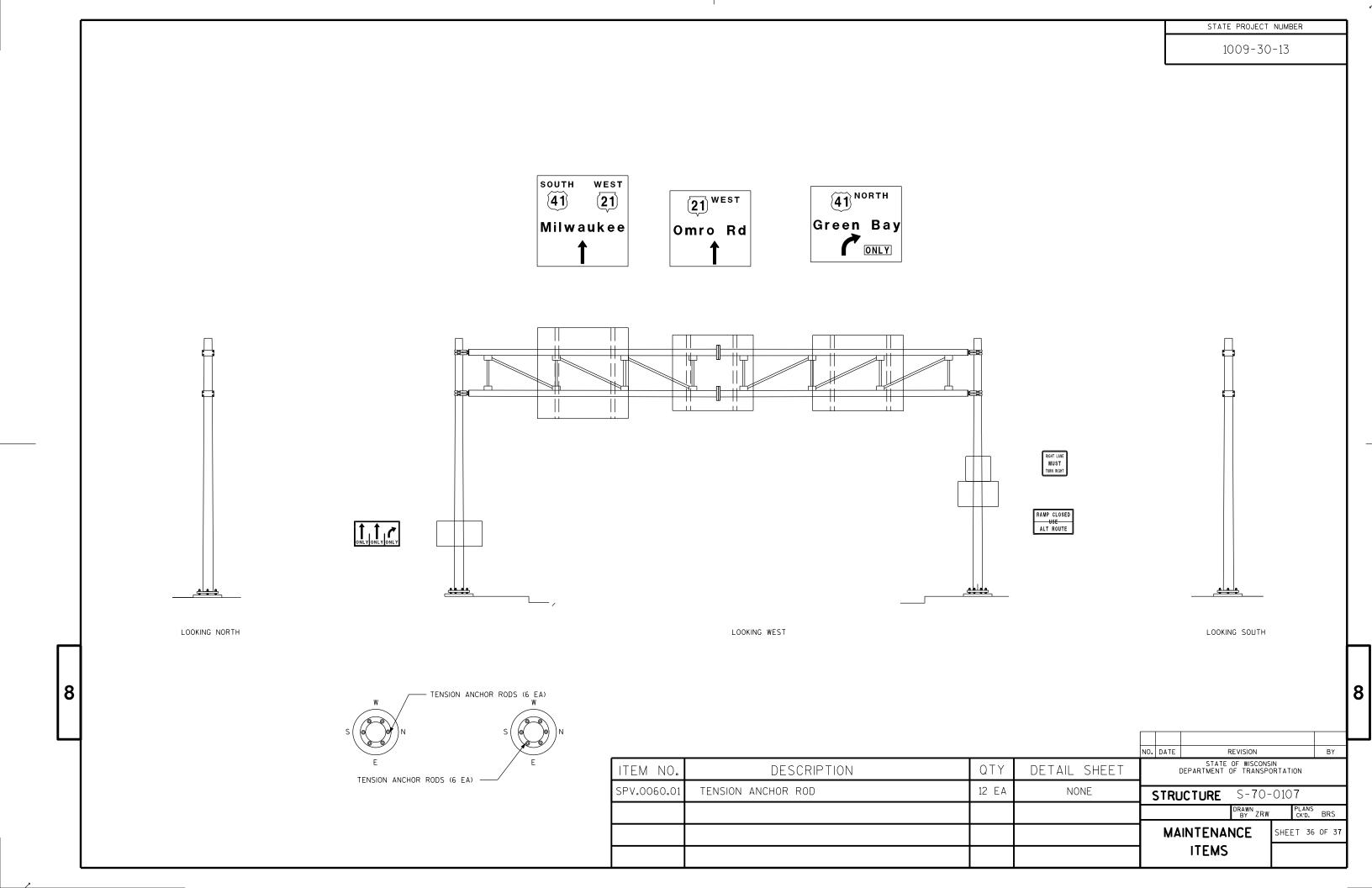


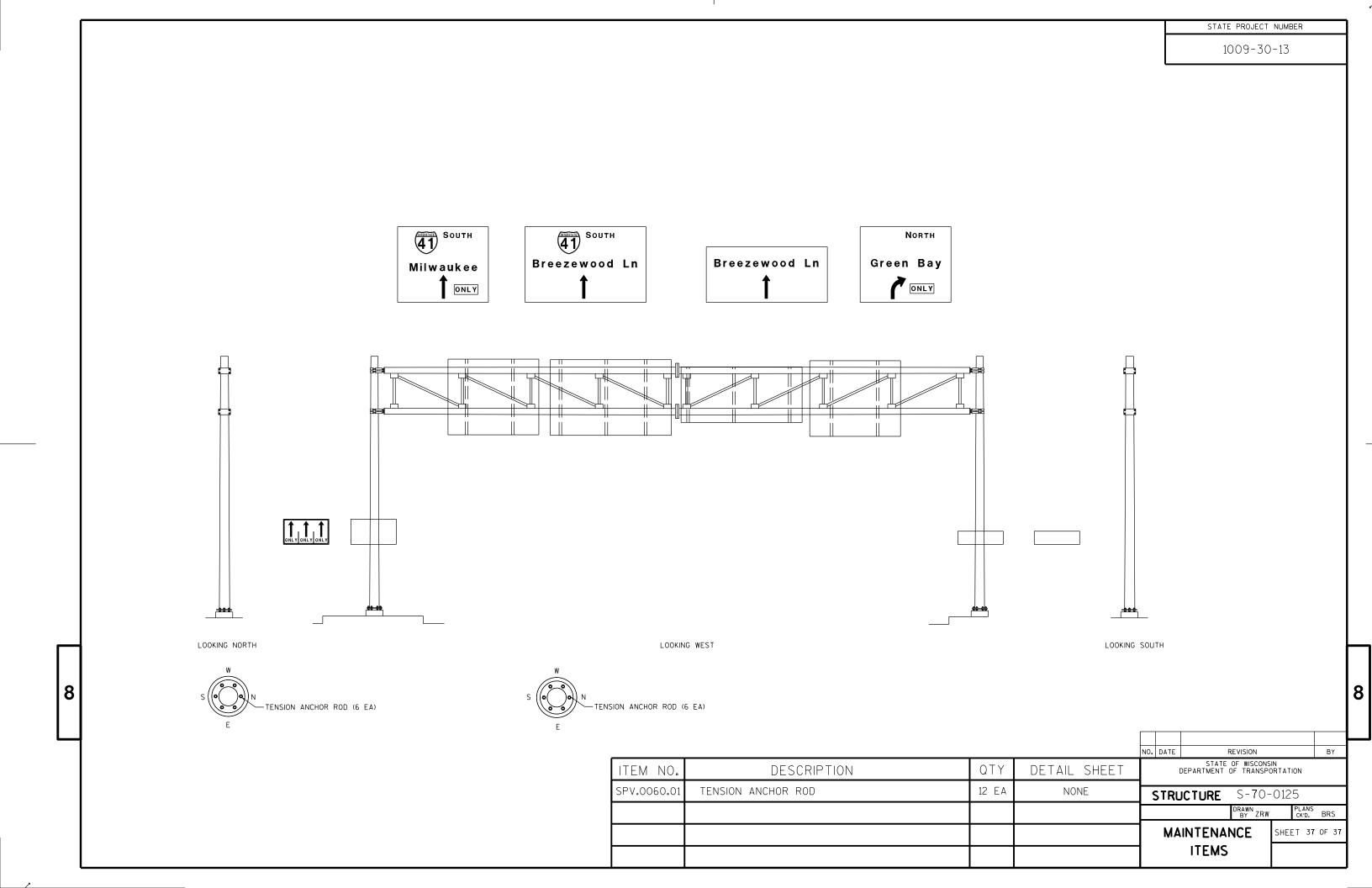














Wisconsin Department of Transportation

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