

SECTION S: PERMANENT SIGNING PLAN

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                              | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------|-------|-----------------|
|                             | P-CR 0046(73)366<br>P-CR 0011(152)34 |       |                 |

Plotting Date: 10/09/2024

INDEX OF SHEETS

- S1
- S2 & S3
- S4 & S5
- S6 thru S9
- S10 & S11
- General Layout with Index
- Estimate of Quantities, Notes and Sign Removal Tables
- Delineation Layout s
- Signing Details
- Standard Plates



BEGIN P-CR 0046(73)366

Sta. 0+20.00 =Sta. 52+72.55 on  
P 0046(48)365 Approximately 0.43 feet  
South & 12.43 feet West of the Southeast  
corner of Section 32 - Township 96 North -  
Range 50 West 5th P.M.  
MRM = 366.56+0.000

BEGIN P-CR 0011(152)34

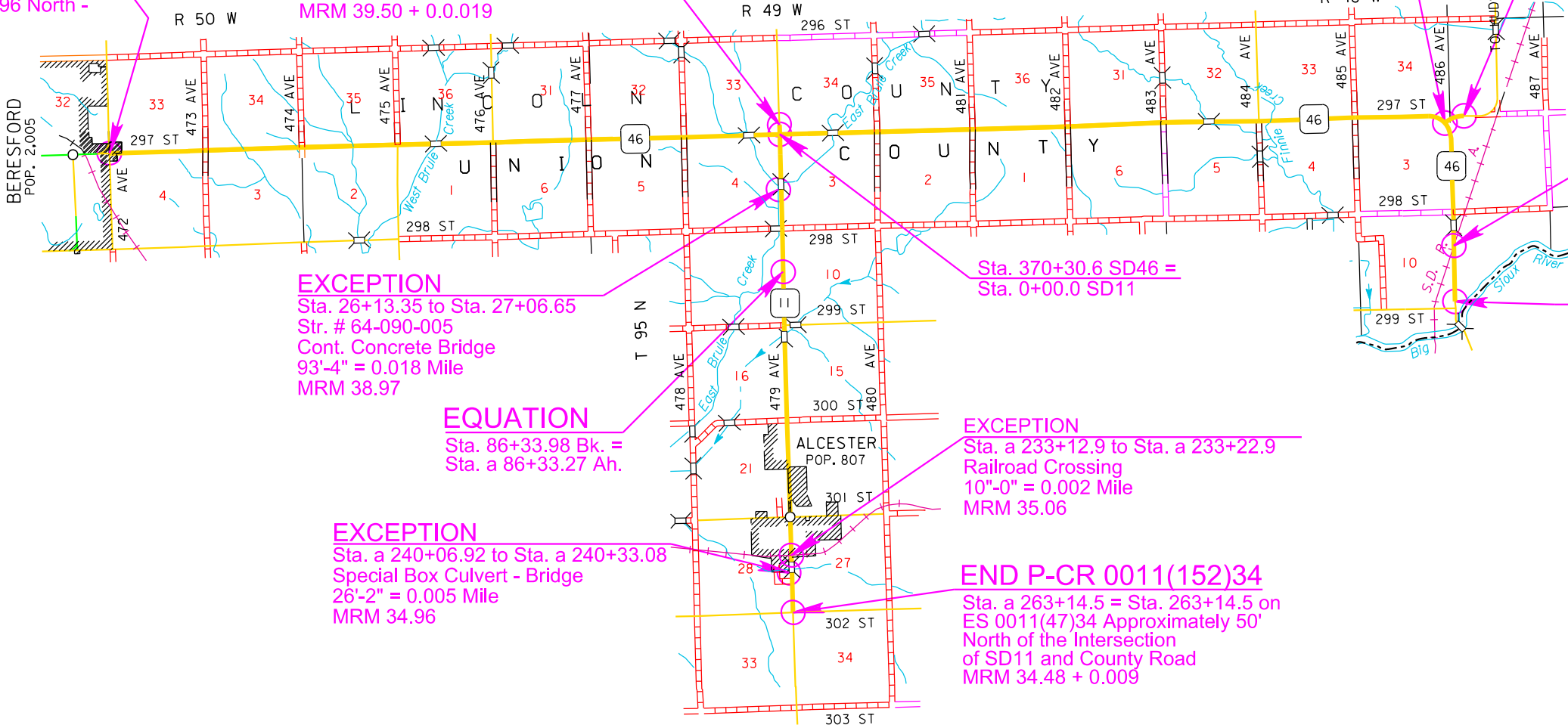
Sta. 0+00.0 -102.5' on  
ES 0011(47)34. Approximately  
102.5' North of the Intersection  
of SD11 and SD46  
MRM 39.50 + 0.0019

BEGIN XR 735

Sta. 0+38.00  
At 735+09.47 SD46

END XR 735

Sta. 13+60.00



EXCEPTION

Sta. 26+13.35 to Sta. 27+06.65  
Str. # 64-090-005  
Cont. Concrete Bridge  
93'-4" = 0.018 Mile  
MRM 38.97

EQUATION

Sta. 86+33.98 Bk. =  
Sta. a 86+33.27 Ah.

EXCEPTION

Sta. a 240+06.92 to Sta. a 240+33.08  
Special Box Culvert - Bridge  
26'-2" = 0.005 Mile  
MRM 34.96

Sta. 370+30.6 SD46 =  
Sta. 0+00.0 SD11

EXCEPTION

Sta. a 233+12.9 to Sta. a 233+22.9  
Railroad Crossing  
10'-0" = 0.002 Mile  
MRM 35.06

END P-CR 0011(152)34

Sta. a 263+14.5 = Sta. 263+14.5 on  
ES 0011(47)34 Approximately 50'  
North of the Intersection  
of SD11 and County Road  
MRM 34.48 + 0.009

EXCEPTION

Sta. 800+35.5 to Sta. 800+66.0  
Railroad Crossing  
30'-5" = 0.006 Mile  
MRM 381.75

END P-CR 0046(73)366

Sta. 828+60.0 = Sta. 822+81.84 on  
F 0046(00)366 Approximately 852.5 feet North  
& 105.8 feet West of the Southeast corner of  
Section 10 - Township 95 North - Range 48  
West 5th P.M.  
MRM = 382.00+0.123

|                             |                                      |       |                 |
|-----------------------------|--------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                              | SHEET | TOTAL<br>SHEETS |
|                             | P-CR 0046(73)366<br>P-CR 0011(152)34 | S2    | S11             |

### ESTIMATE OF QUANTITIES – PCN 05J5

| BID ITEM NUMBER | ITEM                        | QUANTITY | UNIT |
|-----------------|-----------------------------|----------|------|
| 110E7150        | Remove Sign for Reset       | 87       | Each |
| 110E7152        | Remove Delineator for Reset | 357      | Each |
| 632E2100        | Reset Delineator            | 357      | Each |
| 632E3500        | Reset Sign                  | 87       | Each |

**REMOVE SIGN FOR RESET AND RESET SIGN**

Signs that are scheduled for reset will be dismantled and reassembled to the extent needed by the Contractor to properly reset the sign. Signs will be handled with care so that the existing signs, posts, and bases are not damaged during the relocation process. The Contractor will replace and pay for any reset signs damaged in their care.

All costs for removing, dismantling, and disposing of any existing posts will be incidental to the contract unit price per each for "Remove Sign for Reset". All costs for resetting the existing signs will be incidental to the contract unit price per each for "Reset Sign". All quantities for Remove Sign for Reset and Reset Sign will be per assembly at the contract unit price per each.

| SIGN REMOVE & RESET TABLE                                                 |                         |                              |                            |                           |                    |          |                 |                   |                         |                       |                            |                           |                    |          |   |
|---------------------------------------------------------------------------|-------------------------|------------------------------|----------------------------|---------------------------|--------------------|----------|-----------------|-------------------|-------------------------|-----------------------|----------------------------|---------------------------|--------------------|----------|---|
| STATION                                                                   | SIGN                    |                              | SIGN<br>REMOVE<br>110E5020 | SIGN<br>RESET<br>632E3520 | TYPE<br>OF<br>POST | ANCHOR # |                 | STATION           | SIGN                    |                       | SIGN<br>REMOVE<br>110E5020 | SIGN<br>RESET<br>632E3520 | TYPE<br>OF<br>POST | ANCHOR # |   |
|                                                                           | ASSEMBLY<br>DESCRIPTION | SIGN<br>SIZE<br>(IN)         |                            |                           |                    |          |                 |                   | ASSEMBLY<br>DESCRIPTION | SIGN<br>SIZE<br>(IN)  |                            |                           |                    |          |   |
|                                                                           |                         |                              |                            |                           |                    |          |                 |                   |                         |                       |                            |                           |                    |          |   |
|                                                                           |                         |                              |                            |                           |                    |          |                 |                   |                         |                       |                            |                           |                    |          |   |
| SD 46 EASTBOUND                                                           |                         |                              |                            |                           |                    |          | SD 46 EASTBOUND |                   |                         |                       |                            |                           |                    |          |   |
| 1+14                                                                      | R                       | SPEED LIMIT 45               | 24 X 30                    | 1                         | 1                  | PT       | A               | 628+79            | R                       | Lincoln 135 County    | 18 X 24                    | 1                         | 1                  | PT       | A |
|                                                                           |                         |                              |                            |                           |                    |          |                 |                   |                         | ←                     | 18 X 12                    |                           |                    |          |   |
| 3+12                                                                      | R                       | EAST SD 46                   | 24 X 12                    | 1                         | 1                  | PT       | A               | 651+50            | L                       | No Passing Zone       | 48X48X36                   | 1                         | 1                  | PT       | A |
|                                                                           |                         |                              | 24 X 24                    |                           |                    |          |                 | 668+56            | R                       | School Bus Stop Ahead | 30 X 30                    | 1                         | 1                  | PT       | A |
| 13+33                                                                     | R                       | SPEED LIMIT 65               | 24 X 30                    | 1                         | 1                  | PT       | A               | 687+00            | L                       | No Passing Zone       | 48X48X36                   | 1                         | 1                  | PT       | A |
|                                                                           |                         |                              |                            |                           |                    |          |                 | 702+04            | R                       | School Bus Stop Ahead | 30 X 30                    | 1                         | 1                  | PT       | A |
| 75+00                                                                     | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               | 719+02            | R                       | RIGHT CURVE           | 30 X 30                    | 1                         | 1                  | PT       | A |
| 82+49                                                                     | R                       | School Bus Stop Ahead 850 FT | 30 X 30                    | 1                         | 1                  | PT       | A               | 730+50            | R                       | Lincoln 143 County    | 18 X 24                    | 1                         | 1                  | PT       | A |
|                                                                           |                         |                              | 24 X 24                    |                           |                    |          |                 |                   |                         | ←                     | 18 X 12                    |                           |                    |          |   |
| 101+14                                                                    | R                       | Lincoln 121 County           | 18 X 24                    | 1                         | 1                  | PT       | A               | 732+50            | R                       | ← Hudson 4            | 108 X 30                   | 1                         | 1                  | PT       | A |
|                                                                           |                         | ←                            | 18 X 12                    |                           |                    |          |                 |                   |                         | Hawarden IA 6 ↑       |                            |                           |                    |          |   |
| 105+50                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               | 748+36            | R                       | EAST SD 46            | 24 X 12                    | 1                         | 1                  | PT       | A |
| 139+00                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               |                   |                         | 24 X 24               |                            |                           |                    |          |   |
| 151+35                                                                    | R                       | Union 25 County              | 18 X 24                    | 1                         | 1                  | PT       | A               | 792+14            | L                       | No Passing Zone       | 48X48X36                   | 1                         | 1                  | PT       | A |
|                                                                           |                         | →                            | 18 X 12                    |                           |                    |          |                 | 792+82            | R                       | RAILROAD CROSSING     | 36" Round                  | 1                         | 1                  | PT       | A |
| 182+50                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               | 826+58            | R                       | LEFT CURVE            | 30 X 30                    | 1                         | 1                  | PT       | A |
| 206+86                                                                    | R                       | Lincoln 125 County           | 18 X 24                    | 1                         | 1                  | PT       | A               | 828+99            | R                       | Lincoln 12 County     | 18 X 24                    | 1                         | 1                  | PT       | A |
|                                                                           |                         | ←                            | 18 X 24                    |                           |                    |          |                 |                   |                         | →                     | 18 X 12                    |                           |                    |          |   |
| 230+00                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               | SD 46 WESTBOUND   |                         |                       |                            |                           |                    |          |   |
| 269+50                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               | 836+49            | L                       | SOUTH DAKOTA          | 72 X 36                    | 1                         | 1                  | PT       | A |
| 307+00                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               |                   |                         | GREAT FACES/PLACES    |                            |                           |                    |          |   |
| 355+36                                                                    | R                       | JCT SD 11                    | 21 X 15                    | 1                         | 1                  | PT       | A               | 835+12            | L                       | SPEED LIMIT           | 24 X 30                    | 1                         | 1                  | PT       | A |
|                                                                           |                         |                              | 24 X 24                    |                           |                    |          |                 |                   |                         | STRICTLY ENFORCED     |                            |                           |                    |          |   |
| 356+00                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               | 832+38            | L                       | WEST SD 46            | 24 X 12                    | 1                         | 1                  | PT       | A |
| 359+70                                                                    | R                       | Intersection Warning         | 30 X 30                    | 1                         | 1                  | PT       | A               |                   |                         | 24 X 24               |                            |                           |                    |          |   |
| 364+41                                                                    | R                       | ↑ Hawarden IA 13             | 108 X 42                   | 2                         | 2                  | PT       | A               | 823+89            | L                       | SPEED LIMIT 65        | 24 X 30                    | 1                         | 1                  | PT       | A |
|                                                                           |                         | ← Canton 17                  |                            |                           |                    |          |                 |                   |                         |                       |                            |                           |                    |          |   |
|                                                                           |                         | Alcester 4 →                 |                            |                           |                    |          |                 |                   |                         |                       |                            |                           |                    |          |   |
| 369+12                                                                    | R                       | SD 46                        | 24 X 24                    | 1                         | 1                  | PT       | A               | 808+32            | L                       | No Passing Zone       | 48X48X36                   | 1                         | 1                  | PT       | A |
|                                                                           |                         | ↔                            | 21 X 15                    |                           |                    |          |                 | 808+20            | L                       | RAILROAD CROSSING     | 36" Round                  | 1                         | 1                  | PT       | A |
|                                                                           |                         | SOUTH                        | 24 X 24                    |                           |                    |          |                 | 793+86            | L                       | UNLAWFUL              | 30 X 30                    | 1                         | 1                  | PT       | A |
|                                                                           |                         | SD 11                        | 24 X 24                    |                           |                    |          |                 |                   |                         | TO LITTER             |                            |                           |                    |          |   |
|                                                                           |                         | ↑                            | 21 X 15                    |                           |                    |          |                 |                   |                         | HIGHWAYS              |                            |                           |                    |          |   |
| 371+66                                                                    | R                       | EAST SD 46                   | 24 X 12                    | 1                         | 1                  | PT       | A               | 792+15            | R                       | No Passing Zone       | 48X48X36                   | 1                         | 1                  | PT       | A |
|                                                                           |                         |                              | 24 X 24                    |                           |                    |          |                 | 752+08            | L                       | Left Curve            | 36 X 36                    | 1                         | 1                  | PT       | A |
| 376+50                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               | 740+00            | L                       | Lincoln 143 County    | 12 X 18                    | 1                         | 1                  | PT       | A |
| 467+58                                                                    | R                       | Intersection Warning         | 30 X 30                    | 1                         | 1                  | PT       | A               |                   |                         | →                     |                            |                           |                    |          |   |
|                                                                           |                         | 800 FEET                     | 24 X 24                    |                           |                    |          |                 | 737+50            | L                       | ↑ Beresford 14        | 84 X 30                    | 1                         | 1                  | PT       | A |
| 470+58                                                                    | R                       | Lincoln 135 County           | 18 X 24                    | 1                         | 1                  | PT       | A               |                   |                         | Hudson 4 →            |                            |                           |                    |          |   |
|                                                                           |                         | ←                            | 18 X 12                    |                           |                    |          |                 | 723+27            | L                       | WEST SD 46            | 24 X 12                    | 1                         | 1                  | PT       | A |
|                                                                           |                         | Union 27 County              | 18 X 24                    | 1                         | 1                  | PT       | A               |                   |                         | 24 X 24               |                            |                           |                    |          |   |
|                                                                           |                         | →                            | 18 X 12                    |                           |                    |          |                 | 709+00            | R                       | No Passing Zone       | 48X48X36                   | 1                         | 1                  | PT       | A |
| 519+00                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               | 700+81            | L                       | School Bus Stop Ahead | 30 X 30                    | 1                         | 1                  | PT       | A |
| 551+00                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               | 679+50            | R                       | No Passing Zone       | 48X48X36                   | 1                         | 1                  | PT       | A |
| 558+47                                                                    | R                       | School Bus Stop Ahead        | 30 X 30                    | 1                         | 1                  | PT       | A               | 638+66            | L                       | Lincoln 139 County    | 18 X 24                    | 1                         | 1                  | PT       | A |
| 577+50                                                                    | L                       | No Passing Zone              | 48X48X36                   | 1                         | 1                  | PT       | A               |                   |                         | →                     | 18 X 12                    |                           |                    |          |   |
| SUBTOTALS                                                                 |                         |                              |                            | 29                        | 29                 |          |                 | SUBTOTALS         |                         |                       |                            | 29                        | 29                 |          |   |
| PT - Perforated Tube Post                                                 |                         |                              |                            |                           |                    |          |                 | TOTALS THIS SHEET |                         |                       |                            | 58                        | 58                 |          |   |
| # - (W)inged Anchor (WS) Winged anchor with Slip base, (A)nchor Stub Post |                         |                              |                            |                           |                    |          |                 | SHEET 1 OF 2      |                         |                       |                            |                           |                    |          |   |

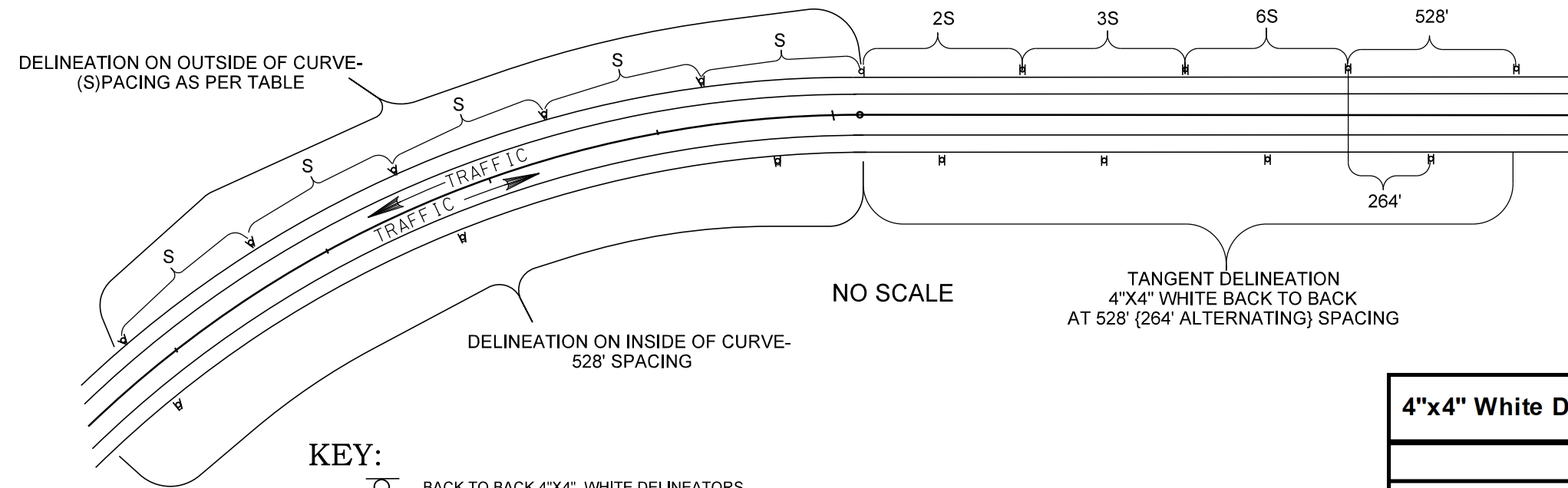


PLOT SCALE - 1+2.8

PLOTTED FROM - TRM111119

# REMOVE & RESET DELINEATOR LOCATION DETAILS

|                             |                                      |       |                 |
|-----------------------------|--------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                              | SHEET | TOTAL<br>SHEETS |
|                             | P-CR 0046(73)366<br>P-CR 0011(152)34 |       |                 |
| Plotting Date: 10/02/2024   |                                      | S4    | S11             |



KEY:

- BACK TO BACK 4"X4" WHITE DELINEATORS
- BRACKET MOUNTED 4"X4" WHITE DELINEATORS

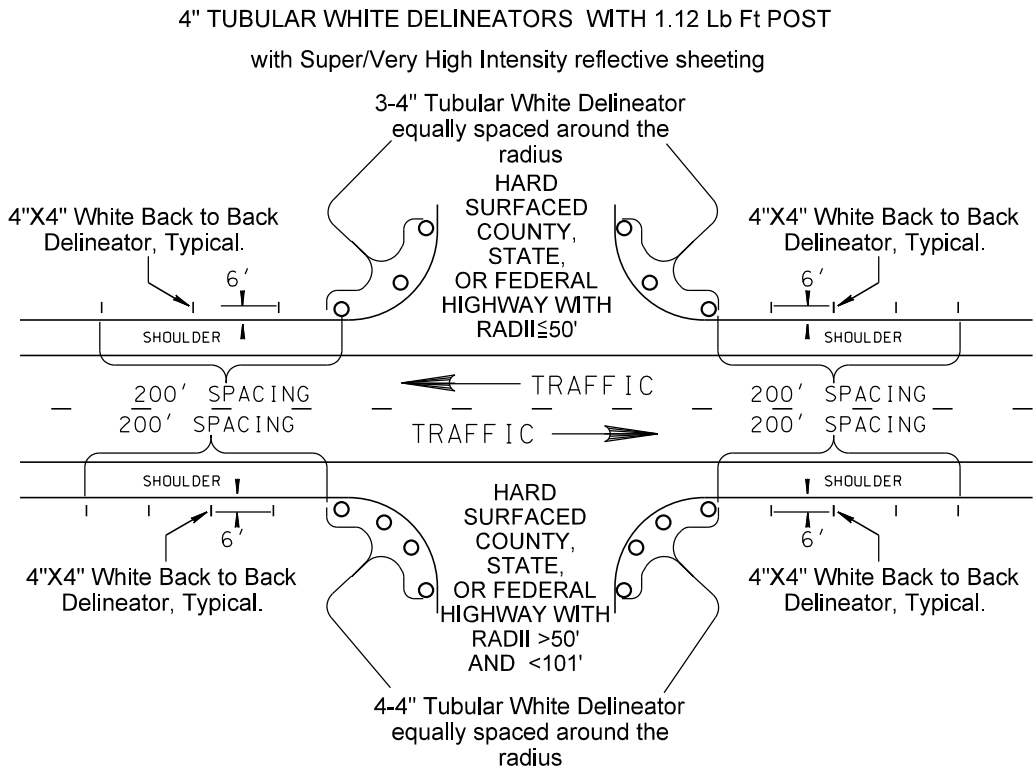
NOTES:  
S, SPACING IN THE CURVE, AND 2S, 3S, AND 6S, SPACING IN ADVANCE OF AND PROCEEDING AWAY FROM A CURVE; SHALL NOT EXCEED 300'.

2S, 3S, AND 6S DELINEATOR QUANTITIES, IF ANY, ARE INCLUDED IN CURVE DELINEATION QUANTITIES.

MATCH INTO EXISTING DELINEATION AT BEGIN AND END PROJECT

| 4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post |        |        |     |         |          |
|----------------------------------------------------------|--------|--------|-----|---------|----------|
| 632E2022                                                 |        |        |     |         |          |
| STATION                                                  |        |        |     | SPACING | QUANTITY |
| 0+20                                                     | L&R TO | 836+96 | L&R | 528'#   | 317      |
|                                                          |        |        |     |         |          |
|                                                          |        |        |     |         |          |
| # - ALTERNATING                                          |        |        |     | TOTALS  | 317      |

| 4" Tubular White Delineator with 1.12 Lb/Ft Post |            |                    |          |
|--------------------------------------------------|------------|--------------------|----------|
| 632E2028                                         |            |                    |          |
| ROUTE                                            | STATION    | INTERSECTING ROUTE | QUANTITY |
| SD 46                                            | 195+01 R   | 475th Ave          | 6        |
| SD 46                                            | 211+89 L   | 476th Ave          | 6        |
| SD 46                                            | 370+74 L&R | SD 11              | 8        |
| SD 46                                            | 633+74 L   | 484th Ave          | 6        |
| SD 46                                            | 735+09 L   | 297th St           | 6        |
| SD 46                                            | 837+14 R   | 299th St           | 8        |
| TOTAL                                            |            |                    | 40       |



FILE - ... \SIGNING\DELINEATION.DGN PLOT NAME - 2

|                             |                                      |       |                 |
|-----------------------------|--------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                              | SHEET | TOTAL<br>SHEETS |
|                             | P-CR 0046(73)366<br>P-CR 0011(152)34 |       |                 |
|                             |                                      | S5    | S11             |

FILE - ... \SIGNING\DELINEATION.DGN

PLOTTED FROM - TRMI111119

PLOT SCALE - 1:204.687

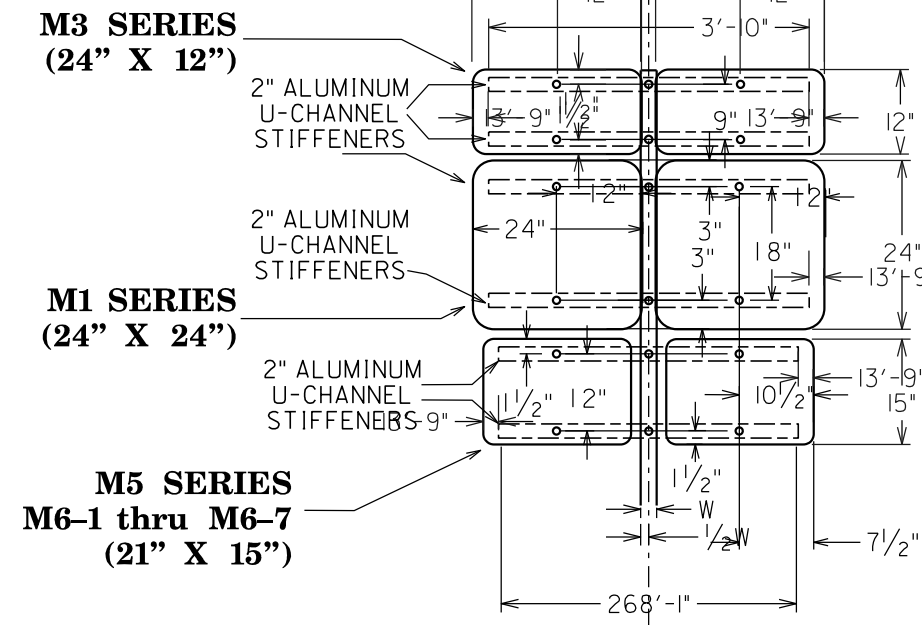
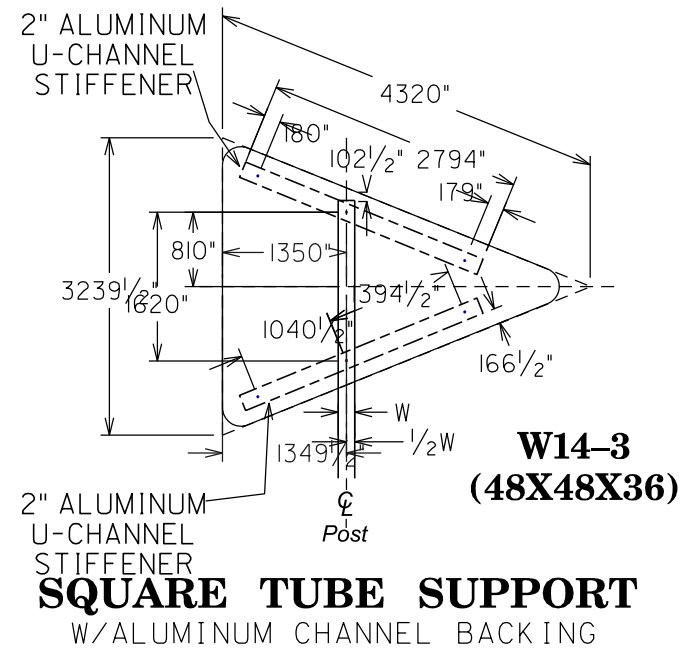
PLOTTED FROM - TRM111119

# TYPICAL SIGN INSTALLATION DETAILS

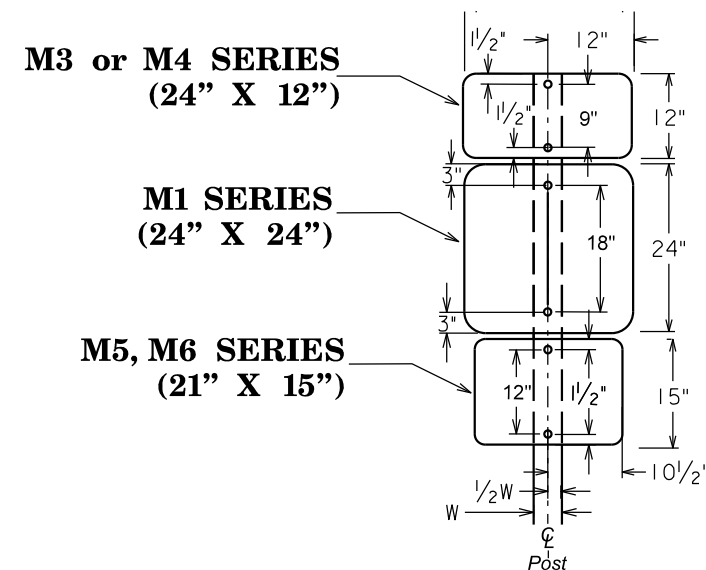
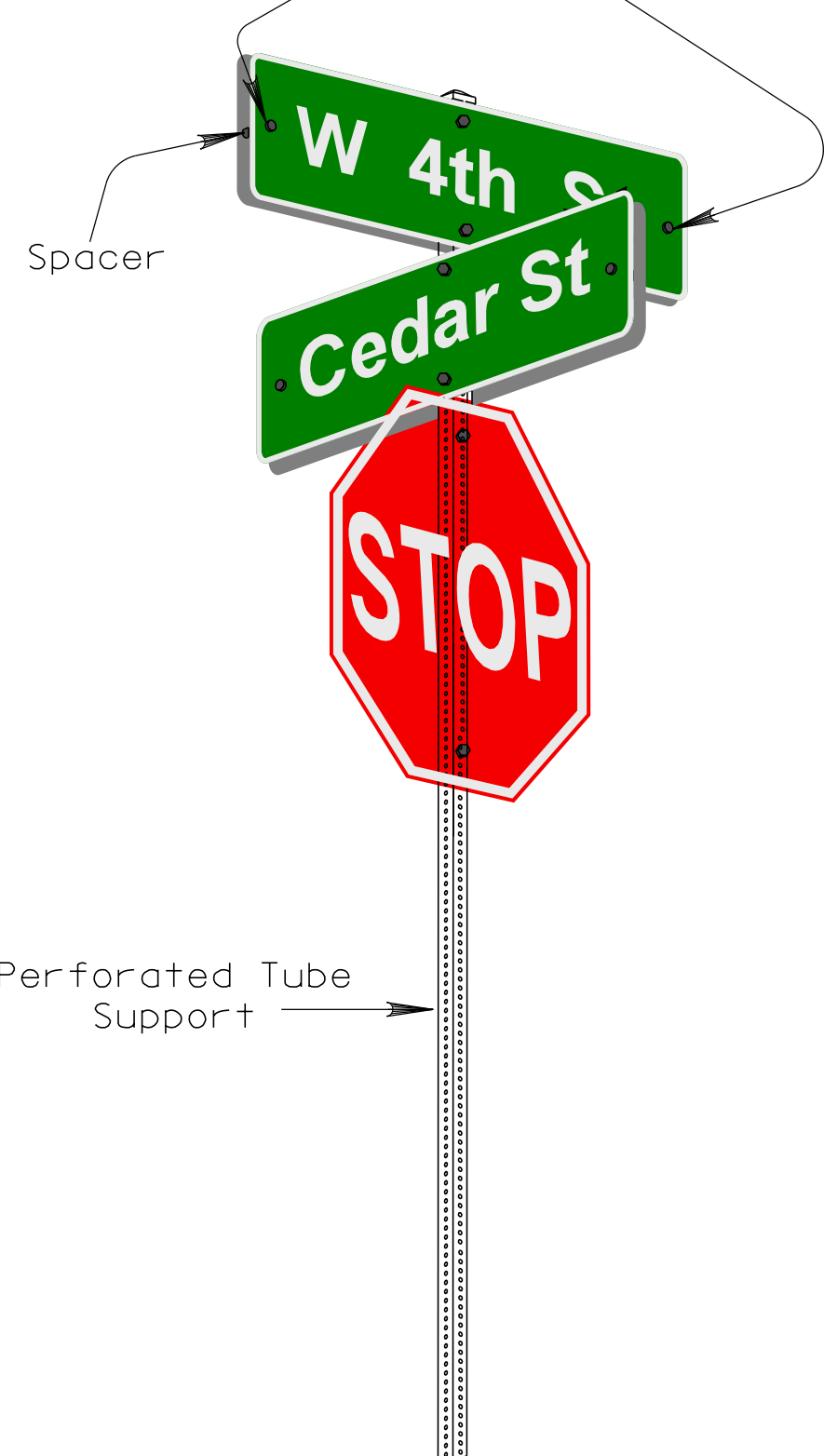
|                             |                                      |       |                 |
|-----------------------------|--------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                              | SHEET | TOTAL<br>SHEETS |
|                             | P-CR 0046(73)366<br>P-CR 0011(152)34 |       |                 |

Plotting Date: 10/02/2024

## PEFORATED TUBE SUPPORTS



Blind Aluminum Rivet with Aluminum Sleeve Mandrel & Aluminum Tubular Component (or Engineer approved Fastener)



W/SIGN MOUNTED ON SUPPORT

{TYPICAL OF FASTENER LOCATIONS IN ANY MOUNTING CONFIGURATION}

TYPICAL STOP SIGN WITH STREET SIGNS ASSEMBLY

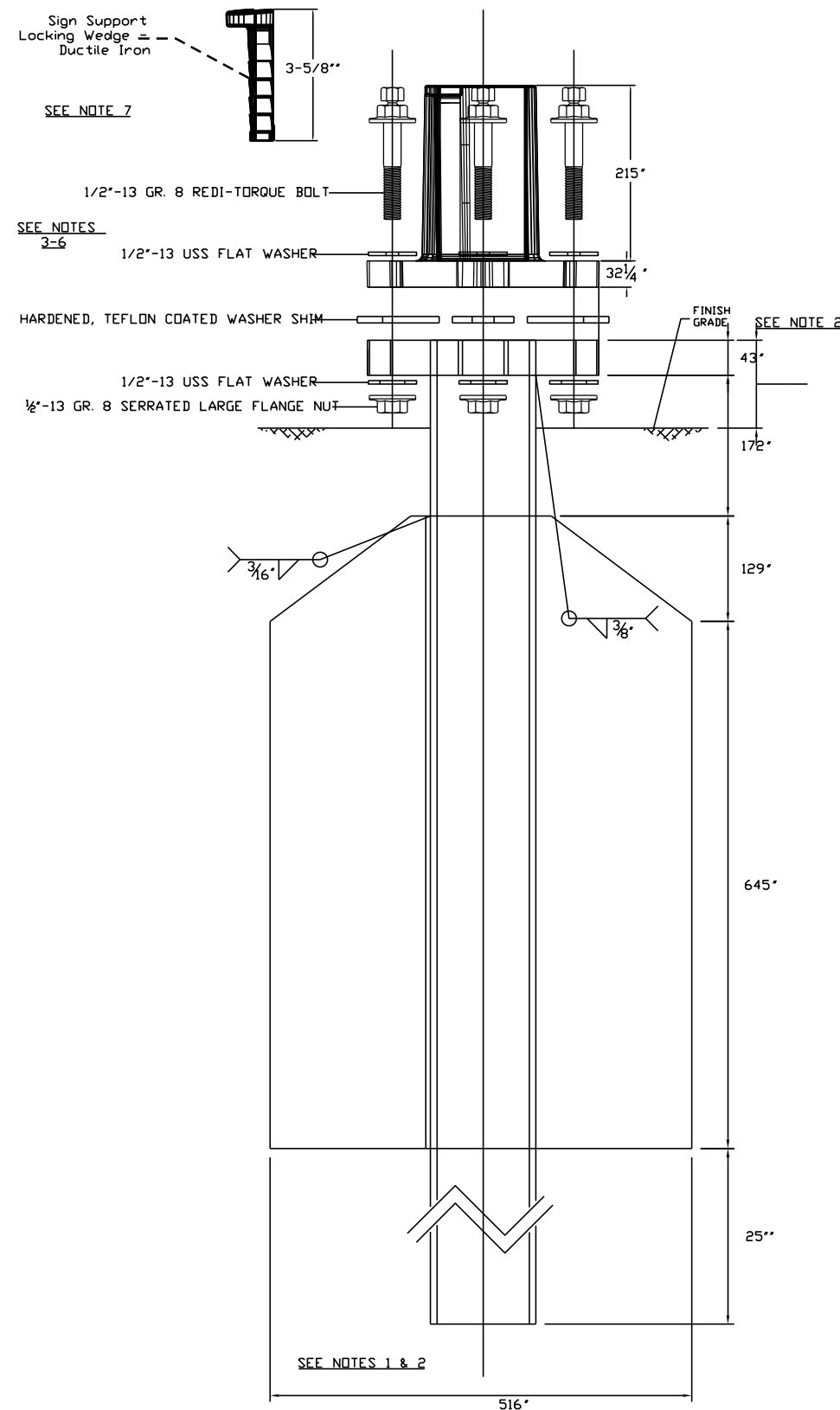
PLOT NAME - 4

FILE - ... \SIGNING\STANDARDPLATES.DGN

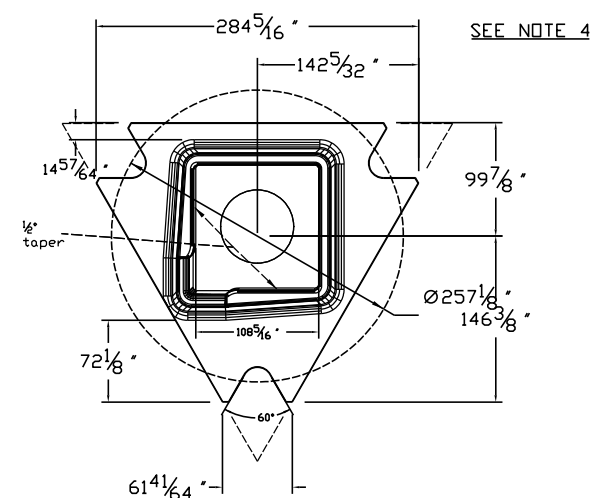
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                              | SHEET | TOTAL<br>SHEETS |
|-----------------------------|--------------------------------------|-------|-----------------|
|                             | P-CR 0046(73)366<br>P-CR 0011(152)34 |       |                 |
|                             |                                      | S7    | S11             |

Plotting Date: 10/02/2024

# Typical Perforated Tube Support-Slip Base with Winged Anchor



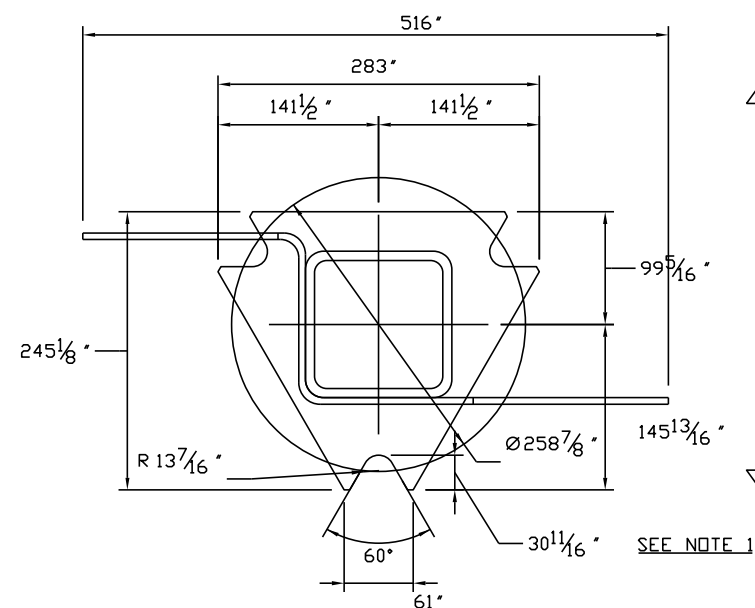
TOP POST RECEIVER for 1/2" SQUARE POST\*



MATERIAL: Single Piece Cast Receiver 2-1/2" x 2-1/2" and Plate - DUCTILE IRON

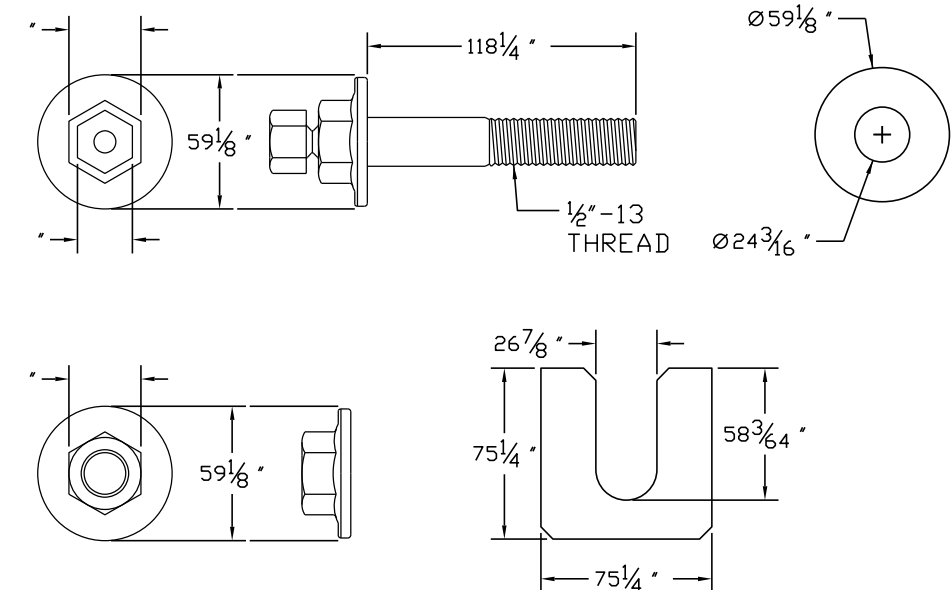
- \* 2-1/4" X 12 GA. MAY BE INSERTED INTO 2 1/2" X 12 GA. FOR ADDITIONAL WINDLOAD.
- \* 2-3/8" X 10 GA. MAY BE INSERTED INTO 2 1/2" X 10 GA. FOR ADDITIONAL WINDLOAD.

BOTTOM UNIBASE SOIL STUB



MATERIALS: Tube - 3" x 3" x 7 ga. ASTM A500 Grade B tube  
Stabilizing Wing - 7 ga. H.R.P.D. ASTM A 569  
Plate - ASTM A572 grade 50

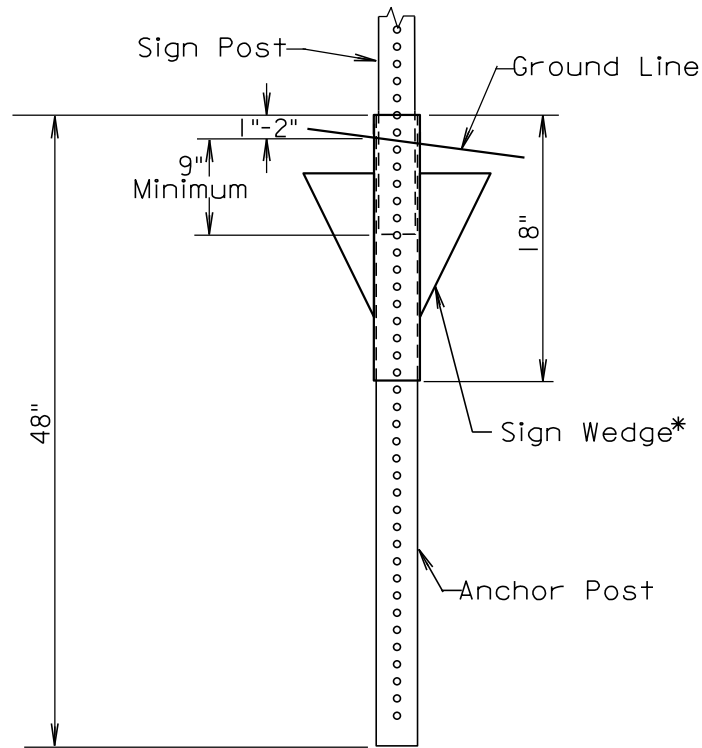
REDI-TORQUE MATCH PLATE HARDWARE



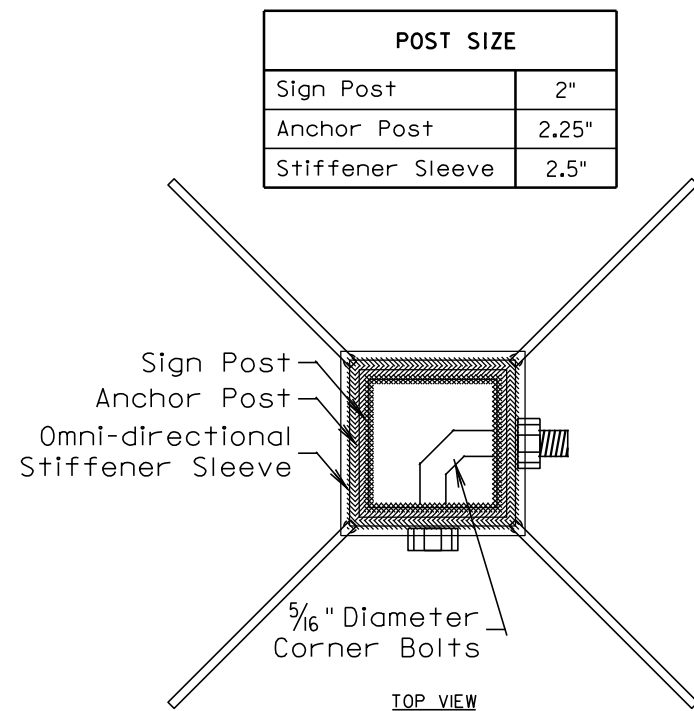
NOTES FOR INSTALLATION PROCEDURES

1. INSTALL BOTTOM UNIBASE SOIL ANCHOR STUB PLUMB AND SQUARED UP WITH ROAD, WITH POINT OF PLATE FACING ONCOMING TRAFFIC.
2. DEPTH OF IMBEDMENT TO LEAVE 2-1/2" FROM GRADE TO TOP OF UNIBASE.
3. PLACE 1 EACH TEFLON COATED WASHER SHIM ON EACH OF THE 3 NOTCHED POINTS, WITH THE OPEN SIDE FACING TOWARDS THE CENTER OF THE TRIANGLE.
4. PLACE TOP POST RECEIVER, SO THAT THE SIGN POST IS IN CORRECT POSITION FOR SIGN VISIBILITY, ON TO THE UNIBASE AND WASHER SHIMS.
5. PLACE 1 EACH 1/2" WASHER ONTO REDI-TORQUE BOLT AND PLACE IN EACH NOTCHED POINT OF THE TRIANGLE. PUSH EACH TEFLON COATED WASHER SHIM AGAINST THE SHANK OF EACH BOLT AND FINGER TIGHTEN 1/2" FLANGED LOCK NUT. SECOND 1/2" FLAT WASHER SHOULD BE PLACED BETWEEN FLANGE NUT AND UNDER SIDE OF BOTTOM SLIP PLATE.
6. FULLY TIGHTEN ALL THREE REDI-TORQUE BOLTS USING THE SMALLER 3/16" HEX HEAD UNTIL IT TWISTS OFF.  
 \*NOTE: SECONDARY (3/16" HEX) HEAD WILL TWIST OFF AT DESIRED TORQUE LEVEL TO MEET FEDERAL COMPLIANCE.
7. INSERT SIGN SUPPORT INTO THE TUBULAR PORTION OF TOP POST RECEIVER AND SECURE WITH A LOCKING WEDGE.  
 \*NOTE: WHERE HIGHER WINDLOAD IS DESIRED, INSERT THE NEXT SIZE SMALLER SQUARE POST INSIDE BOTTOM OF MAIN UPRIGHT POST  
 \*NOTE: ON MULTI-LEG INSTALLATIONS, BE SURE THAT ALL ANCHORS ARE SQUARED AND LINED UP WITH EACH OTHER.

NOTE:  
 Engineer may approve equal.

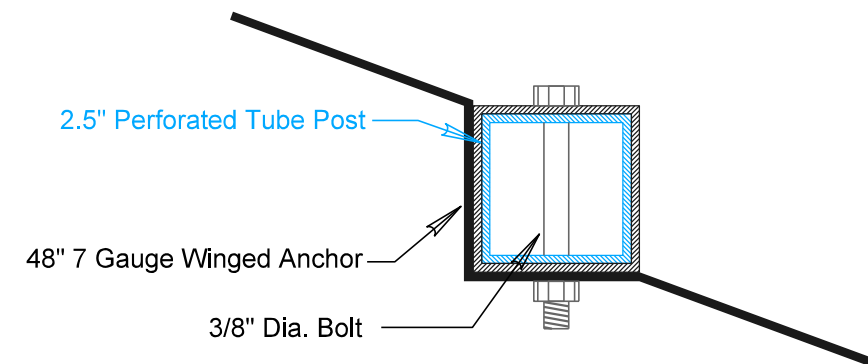
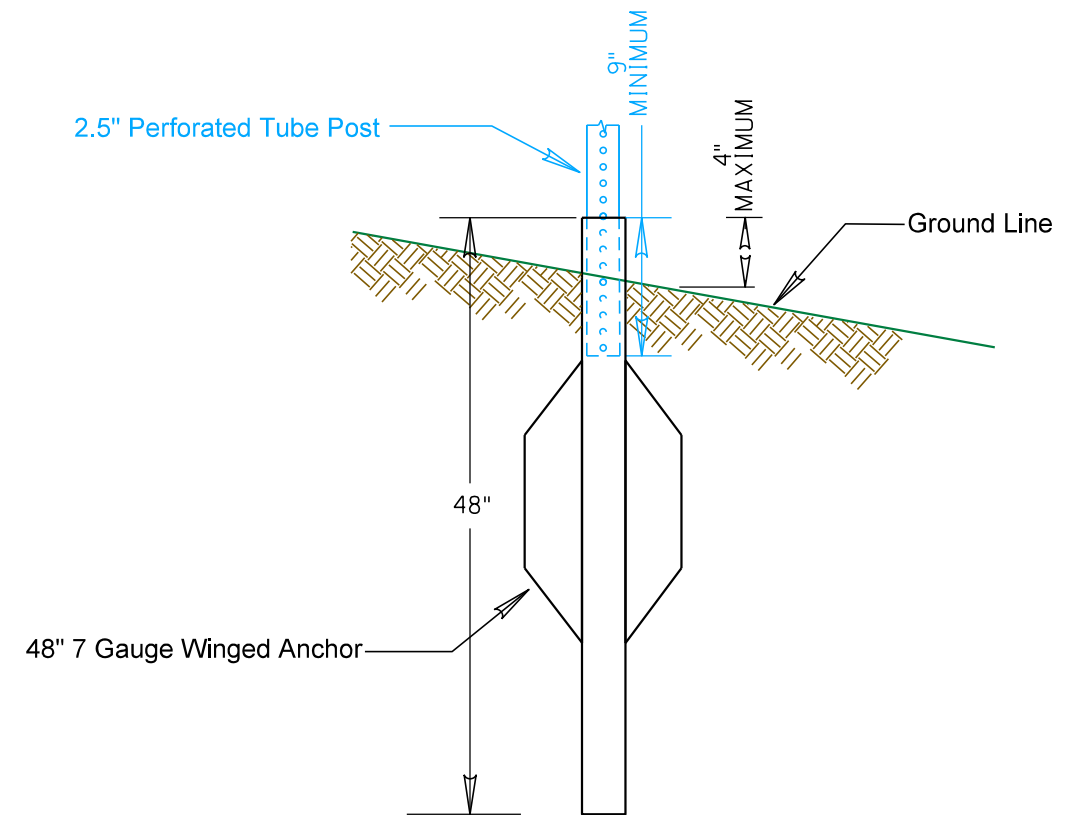


\* - 18" Omni-directional Sleeve w/4 Blades, or Equivalent.  
Manufacturer Recommended Dimensions and Installation.



NOTE:  
Sign installations must meet or exceed NCHRP 350 or  
MASH breakaway requirements.

**2" PERFORATED TUBE POST  
WINGED ANCHOR BASE DETAILS  
(Typical)**

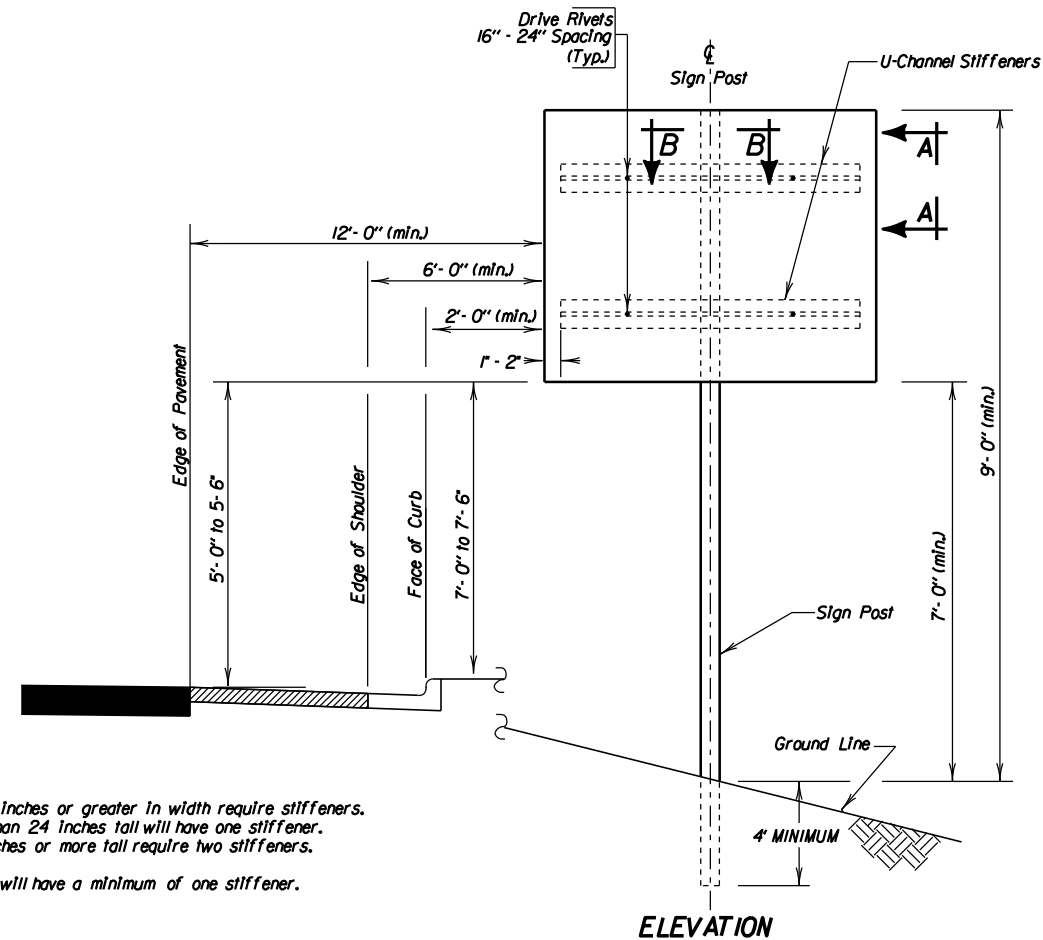


Configuraton of Anchor Blade may vary with Manufacturer.  
Manufacturer's Installation Recommendations will be followed.  
Installatios will meet NCHRP350 and MASH Requirements.

**2.5" PERFORATED TUBE POST  
WITH 7 GAUGE HEAVY DUTY ANCHOR  
(Typical)**

|                             |                                      |       |                 |
|-----------------------------|--------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                              | SHEET | TOTAL<br>SHEETS |
|                             | P-CR 0046(73)366<br>P-CR 0011(152)34 |       |                 |
|                             |                                      | S9    | S11             |

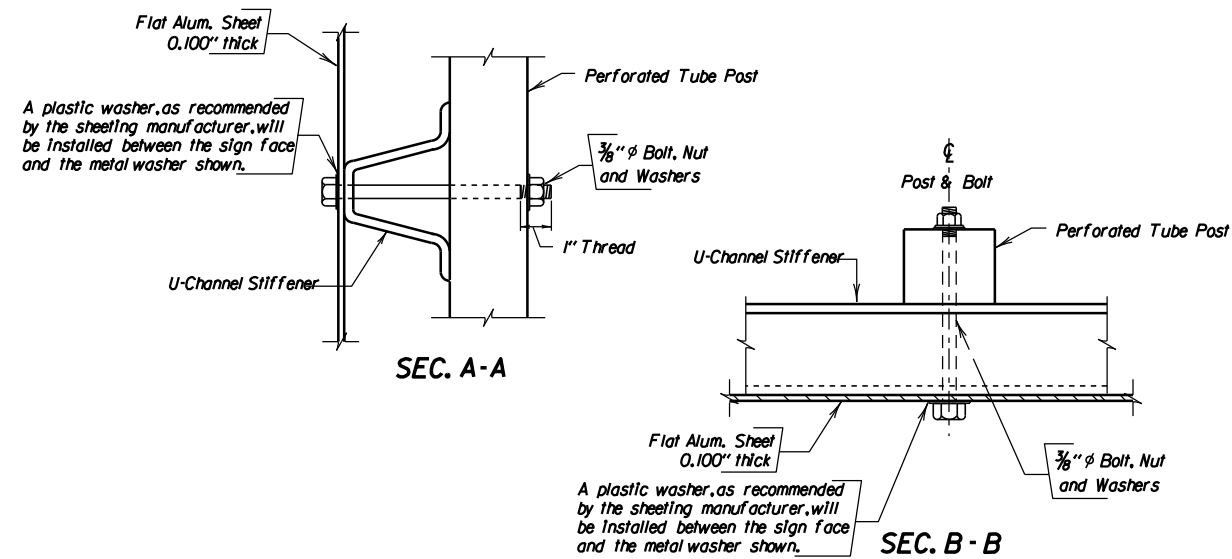
Plotting Date: 10/02/2024



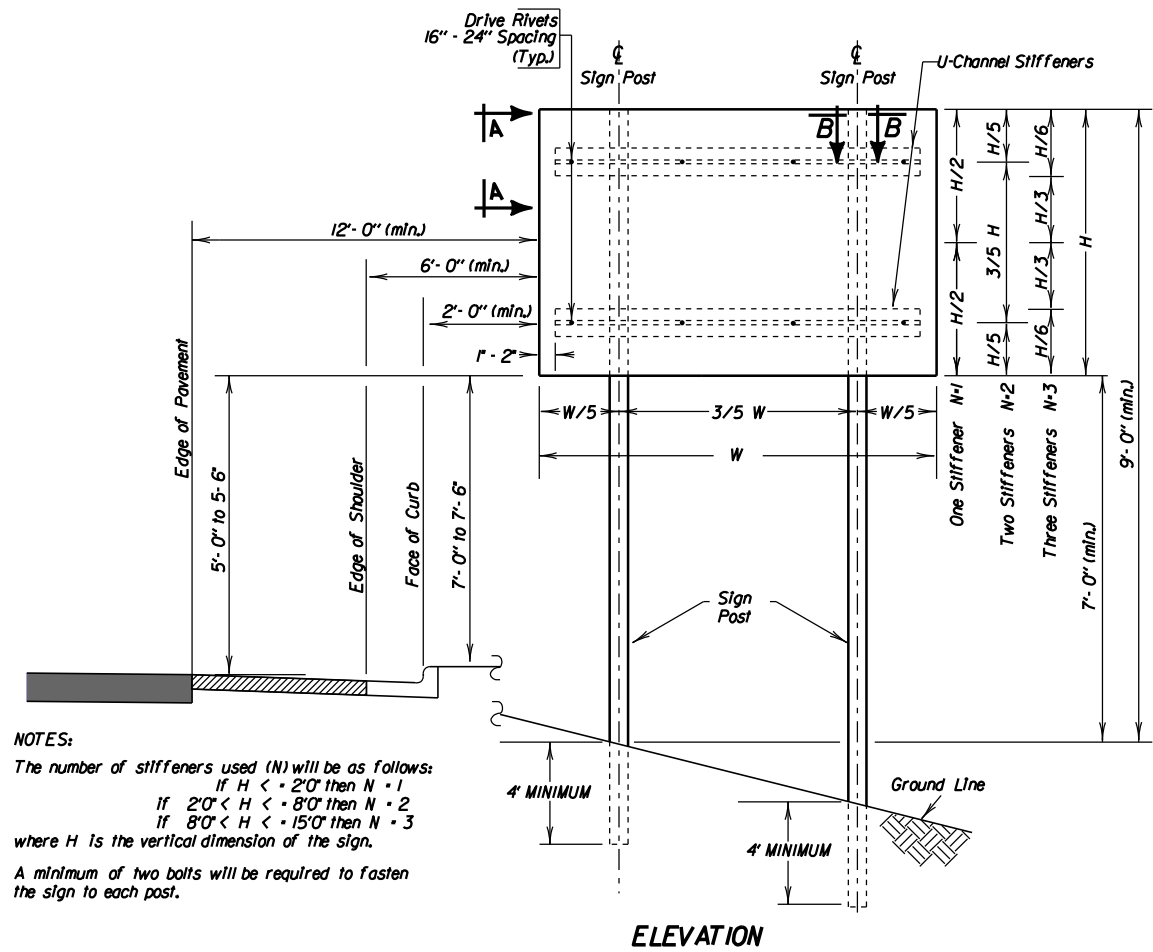
**NOTES:**

*All signs 36 inches or greater in width require stiffeners.  
Signs less than 24 inches tall will have one stiffener.  
Signs 24 inches or more tall require two stiffeners.*

W14-3 signs will have a minimum of one stiffener.



**SINGLE POST BREAKAWAY SIGN SUPPORT**  
(Typical Sign and Stiffener Details)

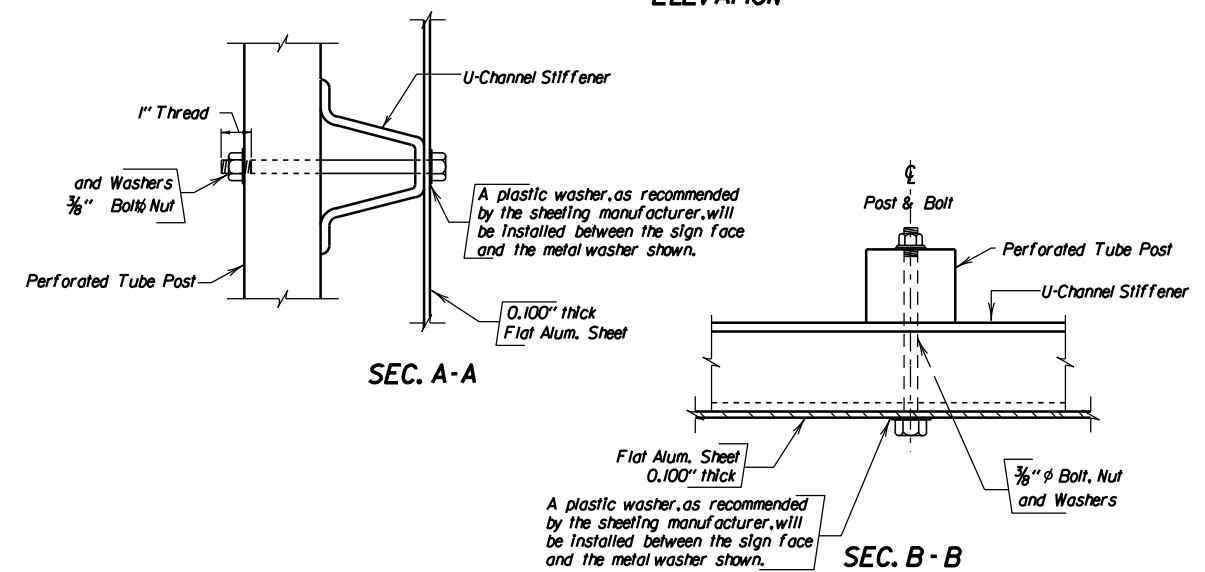


**NOTES:**

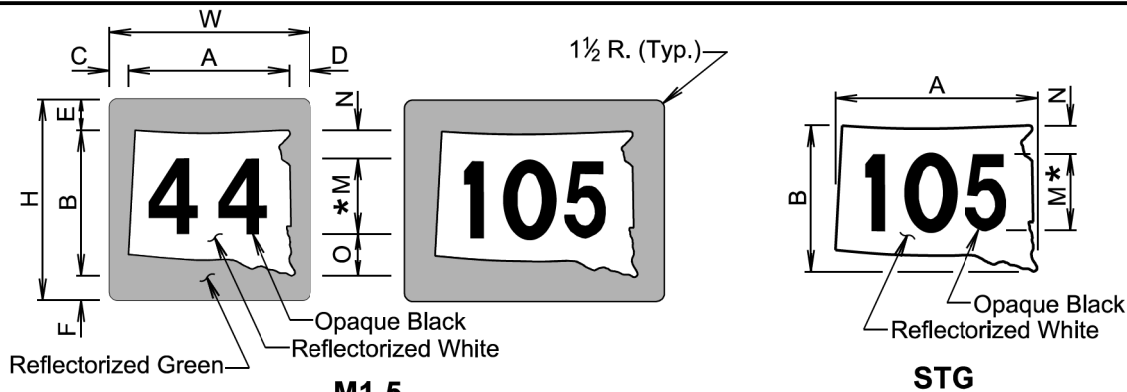
The number of stiffeners used (N) will be as follows:

where  $H$  is the vertical dimension of the sign.

*A minimum of two bolts will be required to fasten the sign to each post.*



**TWO POST BREAKAWAY SIGN SUPPORTS**  
(Typical Sign and Stiffener Details)

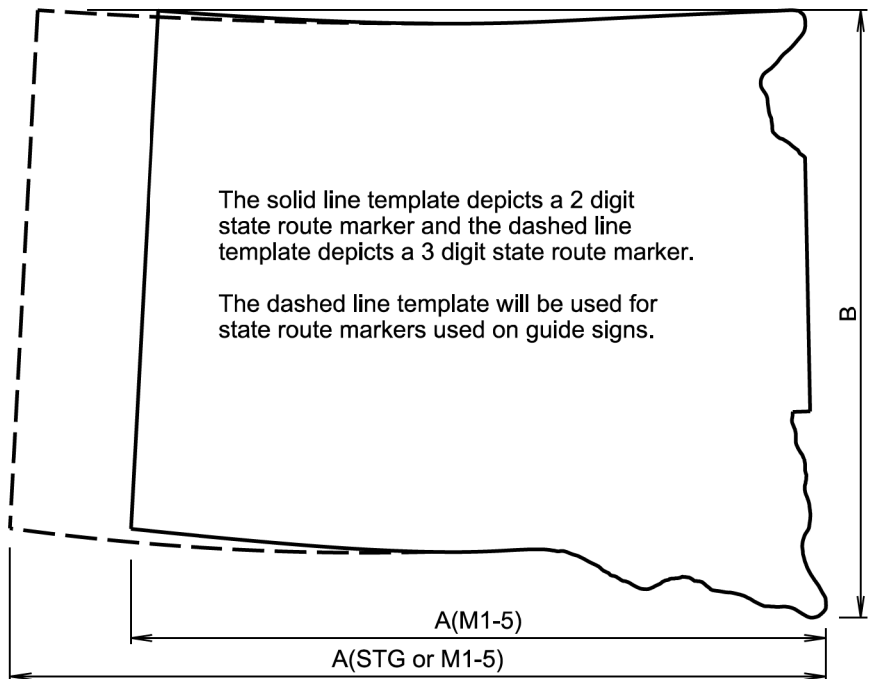


| SIGN CODE | WxH   | A   | B   | C  | D  | E  | F  | M*  | N  | O |
|-----------|-------|-----|-----|----|----|----|----|-----|----|---|
| M1-5      | 24x24 | 20½ | 18  | 2  | 1½ | 3½ | 2½ | 12D | 2  | 4 |
| M1-5 **   | 30x24 | 24  | 18  | 2¼ | 1¾ | 3½ | 2½ | 12D | 2  | 4 |
| M1-5      | 30x30 | 25⅝ | 22½ | 2½ | 1⅞ | 4⅜ | 3⅞ | 15D | 2½ | 5 |
| M1-5      | 36x36 | 30¾ | 27  | 3  | 2¼ | 5¼ | 3¾ | 18D | 3  | 6 |

| SIGN CODE | AxB   | M*  | N  |
|-----------|-------|-----|----|
| STG-24    | 24x18 | 10D | 4  |
| STG-32    | 32x24 | 12D | 4¾ |
| STG-48    | 48x36 | 18D | 7  |
| STG-64    | 64x48 | 24D | 9½ |

\* In the few cases where there is not enough space for the numerals, the standard D series font may be replaced with C series font if approved by the Engineer.

\*\* 3 Digits



TEMPLATE FOR STATE ROUTE MARKER

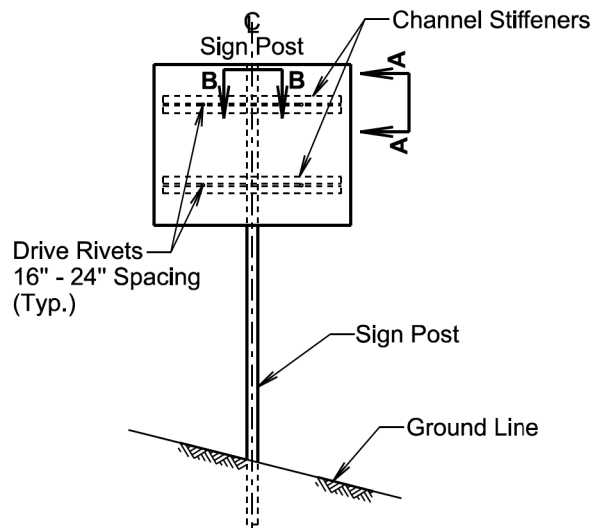
GENERAL NOTES:

The unit for all dimensions shown is inches.

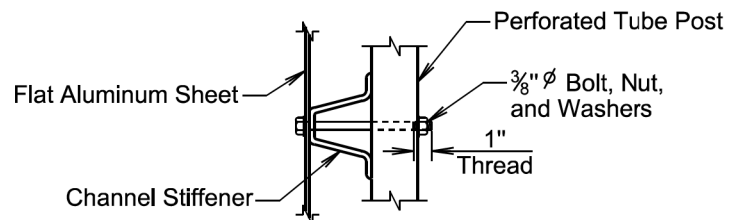
Numerals will be D series font for all state route markers except as noted above.

December 23, 2019

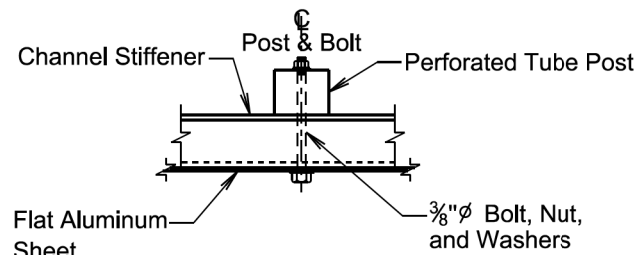
|                      |                       |                     |                        |
|----------------------|-----------------------|---------------------|------------------------|
| Published Date: 2025 | S<br>D<br>D<br>O<br>T | STATE ROUTE MARKERS | PLATE NUMBER<br>632.20 |
|                      |                       |                     | Sheet 1 of 1           |



ELEVATION VIEW  
(One post breakaway sign supports.)



SEC. A-A



SEC. B-B  
(Typical sign and stiffener details.)

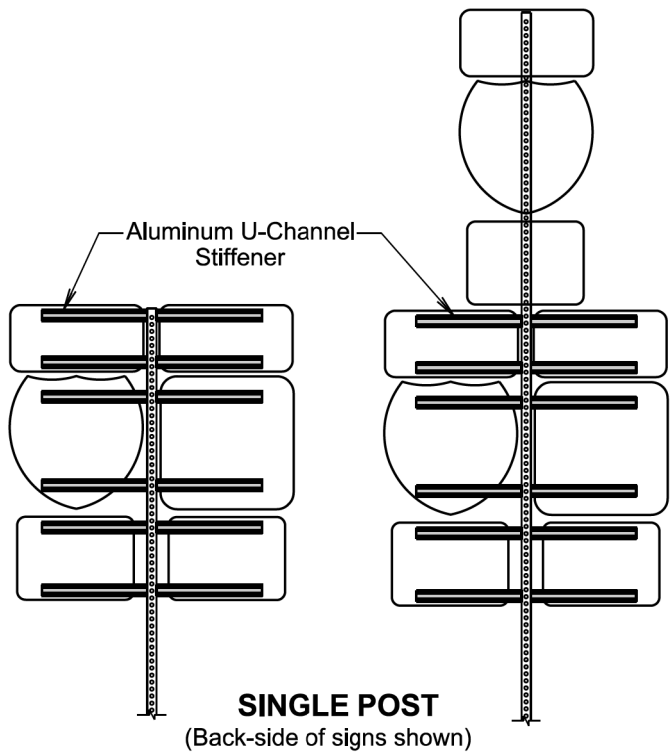
∅ A plastic washer, as recommended by the sheeting manufacturer, will be installed between the sign face and the metal washer shown.

November 19, 2020

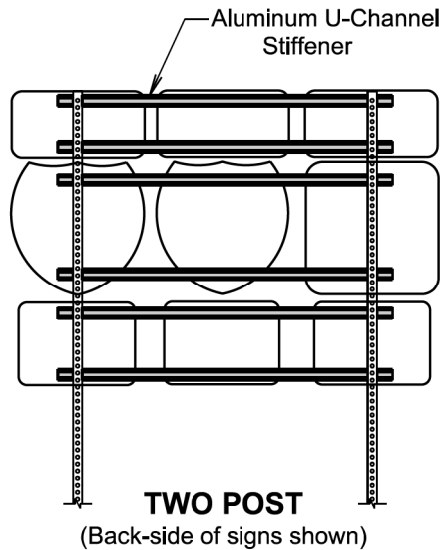
|                      |                       |                        |                        |
|----------------------|-----------------------|------------------------|------------------------|
| Published Date: 2025 | S<br>D<br>D<br>O<br>T | SIGN STIFFENER DETAILS | PLATE NUMBER<br>632.60 |
|                      |                       |                        | Sheet 1 of 2           |

|                             |                                      |       |                 |
|-----------------------------|--------------------------------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT                              | SHEET | TOTAL<br>SHEETS |
|                             | P-CR 0046(73)366<br>P-CR 0011(152)34 | S11   | S11             |

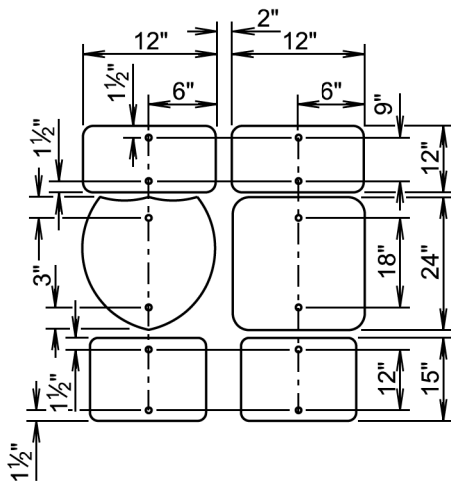
Plotting Date: 10/02/2024



**SINGLE POST**  
(Back-side of signs shown)



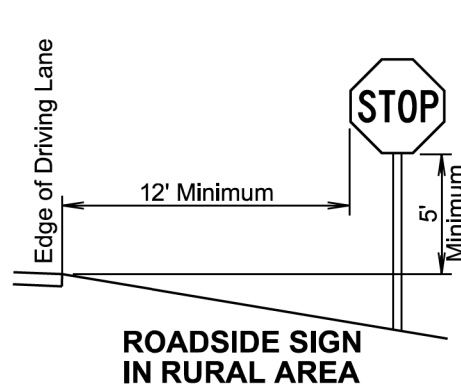
**TWO POST**  
(Back-side of signs shown)



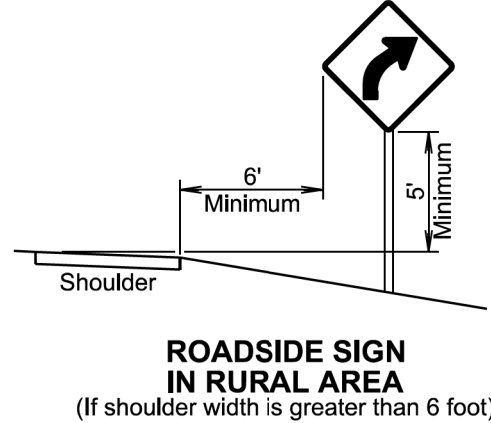
**TYPICAL ROUTE MARKER  
BOLT HOLE LOCATIONS**

November 19, 2020

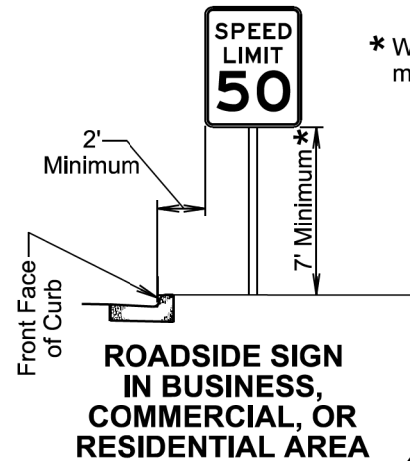
|                             |                                  |                                                                      |                        |
|-----------------------------|----------------------------------|----------------------------------------------------------------------|------------------------|
| <i>Published Date: 2025</i> | <b>S<br/>D<br/>D<br/>O<br/>T</b> | <b>MULTIPLE ROUTE MARKER<br/>SIGN STIFFENER INSTALLATION DETAILS</b> | PLATE NUMBER<br>632.62 |
|                             |                                  |                                                                      | Sheet 1 of 1           |
|                             |                                  |                                                                      |                        |



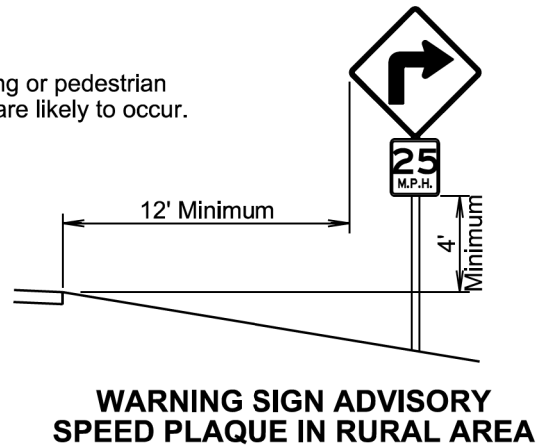
**ROADSIDE SIGN  
IN RURAL AREA**



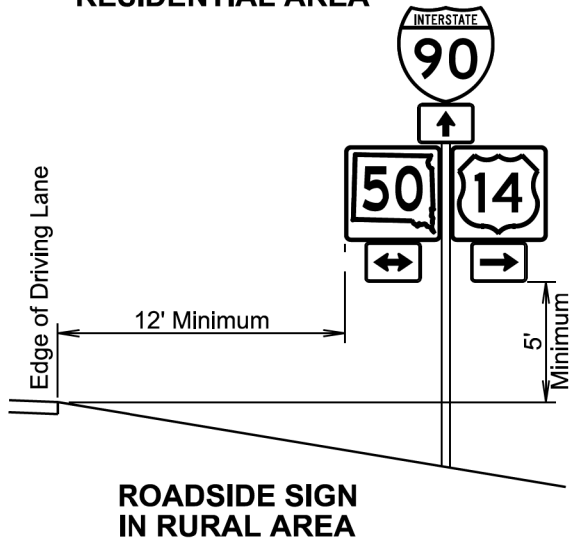
**ROADSIDE SIGN  
IN RURAL AREA**  
(If shoulder width is greater than 6 foot)



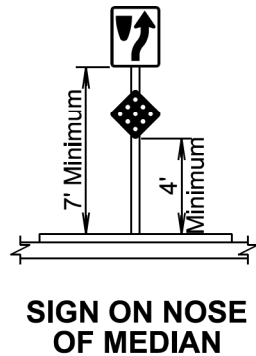
**ROADSIDE SIGN  
IN BUSINESS,  
COMMERCIAL, OR  
RESIDENTIAL AREA**



**WARNING SIGN ADVISORY  
SPEED PLAQUE IN RURAL AREA**



**ROADSIDE SIGN  
IN RURAL AREA**



**SIGN ON NOSE  
OF MEDIAN**

November 19, 2020

|                             |                                  |                                      |                        |
|-----------------------------|----------------------------------|--------------------------------------|------------------------|
| <i>Published Date: 2025</i> | <b>S<br/>D<br/>D<br/>O<br/>T</b> | <b>OFFSETS FOR SIGN INSTALLATION</b> | PLATE NUMBER<br>632.90 |
|                             |                                  |                                      | Sheet 1 of 1           |
|                             |                                  |                                      |                        |