

Section S: Permanent Signing Plans

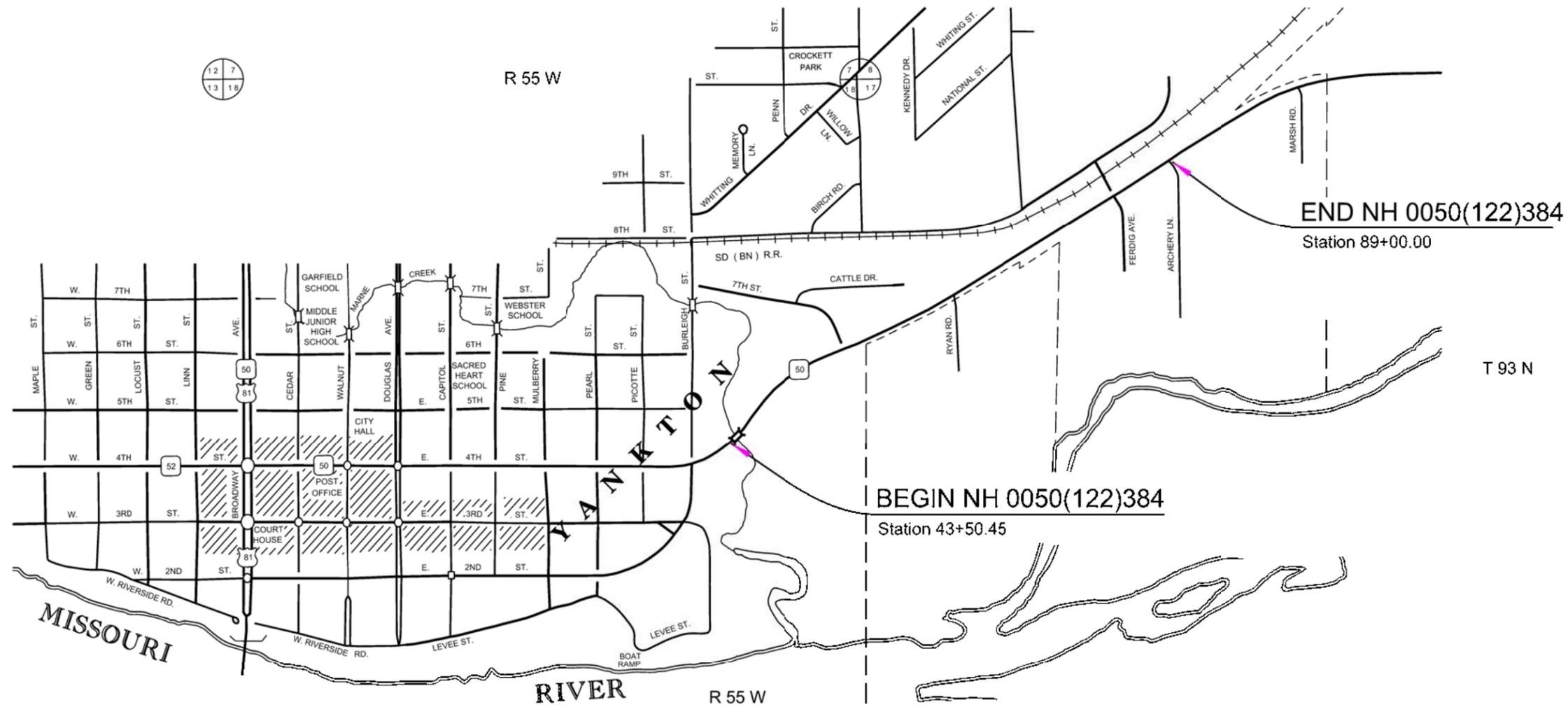
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| | | | |
|-----------------------|-----------------|-------|--------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | NH 0050(122)384 | S1 | S12 |

Plotting Date: 05/31/2016

INDEX OF SHEETS

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PLOT SCALE - 1:210.314

PLOTTED FROM - ITHIND17

PLOT NAME - 1

FILE - ... \05HD SIGNING CONTAINER.DGN

SECTION S PERMANENT SIGNING ESTIMATE OF QUANTITIES

| BID ITEM NUMBER | ITEM | QUANTITY | UNIT |
|-----------------|---|----------|------|
| 110E0100 | Remove Concrete Footing(s) | Lump Sum | LS |
| 110E5020 | Salvage Traffic Sign | 29 | Each |
| 632E0010 | 1.25' Diameter Breakaway Support Concrete Footing | 24.0 | Ft |
| 632E1320 | 2.0"x2.0" Perforated Tube Post | 70.8 | Ft |
| 632E1340 | 2.5"x2.5" Perforated Tube Post | 72.6 | Ft |
| 632E3203 | Flat Aluminum Sign, Nonremovable Copy High Intensity | 67.2 | SqFt |
| 632E3205 | Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity | 77.0 | SqFt |
| 632E3520 | Remove, Salvage, Relocate, and Reset Traffic Sign | 12 | Each |

SCOPE OF PERMANENT SIGN WORK

The permanent sign work includes, but is not limited to, the following:

- A. Items to be removed by the Contractor:
 - Concrete footings
- B. Items to be removed and salvaged by the Contractor:
 - 1. Existing permanent signs
 - 2. Existing breakaway sign posts
 - 3. Object markers
- C. Items to be furnished and installed by the Contractor:
 - 1. Breakaway steel post sign supports with concrete footings
 - 2. Flat sheet aluminum signs
 - 3. Breakaway steel post sign supports
 - 4. Delineators and object markers
- D. Items to be removed, salvaged, relocated, and reset by the Contractor.

SALVAGE TRAFFIC SIGN

The Community Wayfinding Guide Signs in the removal table shall be removed and delivered to the City of Yankton. The Contractor shall remove the sign from its supports before removing the supports with their footings. The Contractor shall replace in kind any signs, supports, support bases or related hardware lost or damaged during removal and transport. Any replacement materials shall be in kind and at the Contractor's expense.

Any sign without a state date decal displaying the year of manufacture, existing street name signs, and supports shall be delivered to the City of Yankton. Stockpiling of salvaged city material shall be coordinated with the City of Yankton.

All bolts, nuts, and washers shall be placed in individual five-gallon pails.

Signs, reusable posts, and hardware damaged or lost due to carelessness shall be replaced in kind at the Contractor's expense.

Signs shall be separated from supports prior to stockpiling. Salvaged signs shall be neatly stockpiled without damaging them.

Cost for salvaging the WATCH FOR TURNING TRAFFIC sign assemblies at 75+31R and 86+85L, including signs, support, hardware, 1 section vehicle signal head, conduit, and attached conductor shall be included in the contract unit price per each for Salvage Traffic Sign.

The Contractor shall neatly stockpile salvaged signs, posts, and related hardware [nuts, bolts, and miscellaneous mounting hardware] at the Sioux Falls Department of Transportation Maintenance Complex, 5316 W. 60th St. N., Sioux Falls, SD. Stockpiling of salvaged state material shall be coordinated with the Project Engineer and Mr. Ken Bennett (605.367.4970X2501).

REMOVE, SALVAGE, RELOCATE AND RESET PERMANENT SIGNS

The Contractor shall remove, salvage, relocate, and reset signs as indicated in the Permanent Sign Table.

The Contractor shall replace in kind any signs, supports, support bases or related hardware lost or damaged during the time the signs were removed, salvaged, stockpiled and reset. Any replacement materials shall be in kind and at the Contractor's expense.

To complete the project sign work, resetting of signs shall be at their original locations or as near as practicable to their original locations as completed project related work allows.

FURNISH AND INSTALL TRAFFIC SIGNS

The signs listed on the Permanent Sign Table in the plans as new installations shall be provided for the locations specified.

Flat aluminum signs shall be 0.100" flat sheet aluminum.

SIGN LEGEND, BORDER AND BACKGROUND

All signs are to be installed in accordance with Sections 632 and 982 of the Specifications.

All sign legend, border and background sheeting material shall meet or exceed standards for ASTM D4956 classified Type IV high intensity sheeting or Type XI super/very high intensity sheeting, as indicated in the plans.

Sheeting material on warning signs shall be fluorescent yellow and meet or exceed standards for ASTM D4956 classified Type XI super/very high intensity sheeting.

Post mounted street signs shall be single-faced with high intensity white border and text on high intensity green sheeting.

SIGN POSTS

The plan post lengths shall be field verified by the Contractor.

Breakaway anchor perforated tube post lengths listed in the Post Size/ Quantity columns of the SIGN INSTALLATION TABLE include 0.8' (9")/post minimum subgrade length.

Supports shall be cut to provide the proper sign height where necessary.

Post anchors shall be 48" long. Two-piece anchor post systems are required for 2" perforated tube post anchor stub posts. Heavy duty 7 gauge galvanized steel anchor stub posts that do not require stiffener sleeves are required for 2 1/2" perforated tube post non slip base post installations.

All sign support bases shall conform to Plate number 634.99.

Direct drive perforated tube post lengths listed in the Post Size/ Quantity columns of the Sign Installation table include the minimum 4'/post subgrade length.

DATE DECAL

Each date decal is 2" X 2" having black numerals on a white background (as typified below).



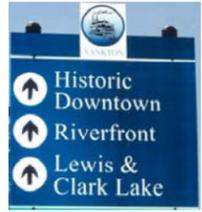
Cost for furnishing and installing of date decals on new signs shall be incidental to the contract unit price for the various signing bid items.

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|-----------------------|-----------------|-------|--------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | NH 0050(122)384 | S3 | S12 |

SIGN REMOVAL TABLE

| SIGN DATA | | | | |
|----------------------|---|----------------------------------|---------------------------|------------------|
| STATION | DESCRIPTION | SIGN SIZE Width X Hgt (FT) | SALVAGE TRAFFIC SIGN * | REMOVE AND RESET |
| SD 50 | | | 110E5020 | 632E3520 |
| 45+49 L | SPEED LIMIT 30 | 2.00X 2.50 | 1{L} | |
| 45+50 R | SPEED LIMIT 35 | 2.00X 2.50 | | 1{PT} |
| 46+83 R | STOP | 2.50X 2.50 | 1{U} | |
| 47+19 L | ADVANCE SIGNAL | 3.00X 3.00 | 1{L} | |
| 48+07 L |  | 4.00X 4.25 | 1{2PF} | |
| 48+86 L |  | 2.50X 3.00 | 1{L} | |
| 52+14 L |  | 2.00X 2.00 | 1{L} | |
| | | 2.00X 1.00 | | |
| | | 1.75X 1.25 | | |
| 56+24 L | STOP | 2.50X 2.50 | 1{U} | |
| 55+60 L | TRUCK ROUTE | 2.00X 1.50 | 1{L} | |
| | UP ARROW | 1.75X 1.25 | 1{L} | |
| 56+89 L | E HWY 50 | 1.50X 0.75 | 1{P} | |
| | E 7th St | 1.50X 0.75 | | |
| 60+21 R | 1001 (911 ADDRESS) | 0.75X 0.50 | | 1{U} |
| 62+73 L | 385 (MRM) | 0.38X 1.50 | 1{U} | |
| 62+76 R | EAST | 2.00X 1.00 | 1{WU} | |
| | SD50 ROUTE MARKER | 2.00X 2.00 | 1{WU} | |
| | 385 (MRM) | 0.38X 1.50 | 1{WU} | |
| 62+80 R | 1011 (911 ADDRESS) | 0.75X 0.50 | | 1{U} |
| 63+37 L |  | 2.00X 1.50 | | 1{U} |
| |  | 1.50X 1.00 | | |
| 66+95 R | RYAN RD | 1.50X 0.75 | | 1{U} |
| COLUMN TOTALS | | | 14 | 5 |

| SIGN DATA | | | | |
|-----------------------|--|----------------------------------|---------------------------|------------------|
| STATION | DESCRIPTION | SIGN SIZE Width X Hgt (FT) | SALVAGE TRAFFIC SIGN * | REMOVE AND RESET |
| SD 50 | | | 110E5020 | 632E3520 |
| 67+00 L |  | 4.00X 4.25 | 1{2PF} | |
| 70+95 R | 1207 (911 ADDRESS) | 0.75X 0.50 | | 1{U} |
| 72+47 R | 1211 (911 ADDRESS) | 0.75X 0.50 | | 1{U} |
| 74+70 R | 1303 (911 ADDRESS) | 0.75X 0.50 | | 1{U} |
| 74+71 L | SPEED LIMIT 35 | 2.00X 2.50 | 1{W} | |
| 75+31 R | WATCH FOR TURNING TRAFFIC | 4.00X 4.00 | 1{PF} | |
| 75+36 L |  | 2.00X 1.50 | | 1{U} |
| |  | 2.00X 1.50 | | |
| 77+20 R | 1309 (911 ADDRESS) | 0.75X 0.50 | | 1{U} |
| 79+46 R | STOP | 2.50X 2.50 | 1{W} | |
| 77+20 R | 1505 (911 ADDRESS) | 0.75X 0.50 | | 1{U} |
| 82+69 L | STOP | 2.50X 2.50 | 1{U} | |
| 83+15 R | STOP | 2.50X 2.50 | 1{W} | |
| 83+35 L | RR X-ing | 36" ROUND | 1{U} | |
| 83+49 L | HIWAY 50 | 1.00X 0.75 | 1{P} | |
| | FERDIG AVE | 1.00X 0.75 | | |
| 83+89 R | SPEED LIMIT 35 | 2.00X 2.50 | 1{W} | |
| 83+91 L | SPEED LIMIT 35 | 2.00X 2.50 | 1{W} | |
| 86+85 L | WATCH FOR TURNING TRAFFIC | 4.00X 4.00 | 1{PF} | |
| 88+77 R | STOP | 2.50X 2.50 | 1{U} | |
| 88+77 R | 1601 (911 ADDRESS) | 0.75X 0.25 | | 1{U} |
| | 1603 (911 ADDRESS) | 0.75X 0.25 | | |
| 88+88 L | OBJECT MARKER | 1.00X 2.00 | 1{U} | |
| 88+93 L | OBJECT MARKER | 1.00X 2.00 | 1{U} | |
| 88+98 L | OBJECT MARKER | 1.00X 2.00 | 1{U} | |
| COLUMN TOTALS | | | 15 | 7 |
| PROJECT TOTALS | | | 29 | 12 |

* -Number and type- {U}-Channel {W}ood {L}-Luminaire {P}ipe {PF} Pipe on Footing {2PF} Two Pipe on Footing {PT} Perforated Tube {S} Signal Pole {WU} Wood Utility {2I} Two I-Beam- of support(s)

SIGN INSTALLATION TABLE

| SIGN DATA | | | | | | | POST DATA | | | | | FOOTING DATA | | | | | | |
|-----------------------|---|-----------|----------------|------------------|-------------|-------------------------|------------|--|--------------------------|---------|--------------|--------------------|----------------|----------------------|---------------|---------|-----------------|--|
| STATION | DESCRIPTION | SIGN CODE | SIGN SIZE (Ft) | SIGN AREA (SqFt) | | OFFSET* (R)IGHT/ (L)EFT | SIGN FACES | COMMENTS | POST LENGTHS X | | BREAK-AWAY # | SIZE/QUANTITY (Ft) | | | FOOTINGS (Ft) | | FOOTING LENGTHS | |
| | | | | Type IV | TYPE XI | | | | INSIDE | OUTSIDE | | 2.0"x2.0" TUBE | 2.5"x2.5" TUBE | BREAKAWAY 1.25' DIA. | INSIDE | OUTSIDE | | |
| SD 50/4th | | | | 632E3203 | 632E3205 | | | | | | | 632E1320 | 632E1340 | 632E0010 | | | | |
| 45+77 L | SPEED LIMIT 30 | R2-1 | 2.00X 2.50 | 5.0 | | 1.5' R | NE | | 10.3' | | A | 10.3 | | | | | | |
| 46+79 R | STOP | R1-1 | 2.50X 2.50 | 5.2 | | 2.0' R | SE | | 10.3' | | A | 10.3 | | | | | | |
| 47+40 L | SIGNAL AHEAD | W3-3 | 4.00X 4.00 | 16.0 | | 1.3' R | NE | | 12.7' | | S | | 12.7 | 4.0 | | 4.0 | | |
| 53+00 L |  | D9-2 | 2.00X 2.00 | 4.0 | | 1.5' R | NE | | 11.1 | | A | 11.1 | | | | | | |
| | | SPECIAL | 2.00X 1.00 | 2.0 | | | | | WHITE ON INTERSTATE BLUE | | | | | | | | | |
| | | M6-3 | 1.75X 1.25 | 2.2 | | | | | WHITE ON INTERSTATE BLUE | | | | | | | | | |
| 56+13 L | STOP | R1-1 | 2.50X 2.50 | 5.2 | | 7.5' R | NORTH | | 11.5 | | S | | 11.5 | 4.0 | | 4.0 | | |
| | E 4th St | D3-1 | 3.42X 1.00 | 3.5 | NORTH | | | | | | | | | | | | | |
| | E 4th St | D3-1 | 3.42X 1.00 | 3.5 | SOUTH | | | | | | | | | | | | | |
| | E 7th St | D3-1 | 3.33X 1.00 | 3.4 | EAST | | | | | | | | | | | | | |
| | E 7th St | D3-1 | 3.33X 1.00 | 3.4 | | WEST | | | | | | | | | | | | |
| 75+40 R | WATCH FOR TURNING TRAFFIC | SPECIAL | 4.00X 4.00 | 16.0 | | 1.5' R | WEST | SUPPORT IS 10 GAUGE. SEE SECTION L FOR BEACON AND WIRING INFORMATION. | 12.7 | | S | | 12.7 | 4.0 | | 4.0 | | |
| 81+27 L | SPEED LIMIT 35 | R2-1 | 2.00X 2.50 | 5.0 | | 1.5' R | NE | | 10.3 | | A | 10.3 | | | | | | |
| 82+73 L | STOP | R1-1 | 2.50X 2.50 | 5.2 | | 2.0' R | NORTH | | 11.5 | | S | | 11.5 | 4.0 | | 4.0 | | |
| | E 4th St | D3-1 | 3.42X 1.00 | 3.5 | NORTH | | | | | | | | | | | | | |
| | E 4th St | D3-1 | 3.42X 1.00 | 3.5 | SOUTH | | | | | | | | | | | | | |
| | Ferdig Av | D3-1 | 3.75X 1.00 | 3.8 | EAST | | | | | | | | | | | | | |
| | Ferdig Av | D3-1 | 3.75X 1.00 | 3.8 | | WEST | | | | | | | | | | | | |
| 83+30 R | STOP | R1-1 | 2.50X 2.50 | 5.2 | | 2.0' R | SE | | 10.4' | | A | 10.4 | | | | | | |
| 84+30 R | SPEED LIMIT 35 | R2-1 | 2.00X 2.50 | 5.0 | | 6.0' R | SW | | 10.4 | | A | 10.4 | | | | | | |
| 87+00 L | WATCH FOR TURNING TRAFFIC | SPECIAL | 4.00X 4.00 | 16.0 | | 2.0' R | NE | SUPPORT IS 10 GAUGE. SEE SECTION L FOR BEACON AND WIRING INFORMATION. | 12.7 | | S | | 12.7 | 4.0 | | 4.0 | | |
| 88+81 R | STOP | R1-1 | 2.50X 2.50 | 5.2 | | 6.0' R | SOUTH | | 11.5 | | S | | 11.5 | 4.0 | | 4.0 | | |
| | E 4th St | D3-1 | 3.42X 1.00 | 3.5 | NORTH | | | | | | | | | | | | | |
| | E 4th St | D3-1 | 3.42X 1.00 | 3.5 | SOUTH | | | | | | | | | | | | | |
| | Archery Ln | D3-1 | 4.25X 1.00 | 4.3 | EAST | | | | | | | | | | | | | |
| | Archery Ln | D3-1 | 4.25X 1.00 | 4.3 | | WEST | | | | | | | | | | | | |
| 89+00 L | Object Marker | OM3-R | 1.00X 3.00 | 3.0 | | 0.1' R | NE | THE NEAR EDGE OF THE OBJECT MARKER SHALL BE INSTALLED IN LINE WITH THE BACK OF THE CURB. | 8.0 | | D | 8.0 | | | | | | |
| PROJECT TOTALS | | | | 67.2 | 77.0 | | | | | | | 70.8 | 72.6 | 24.0 | | | | |

* - Distance from edge of shoulder or back of curb to edge of the sign.

- (S)lip Base, (A)nchor Stub Post, or (D)irect Drive

X - Plan post lengths are estimates. The post lengths shall be field verified by the Contractor.

PLOT SCALE - 1:52,0258

PLOTTED FROM - IRWIN17

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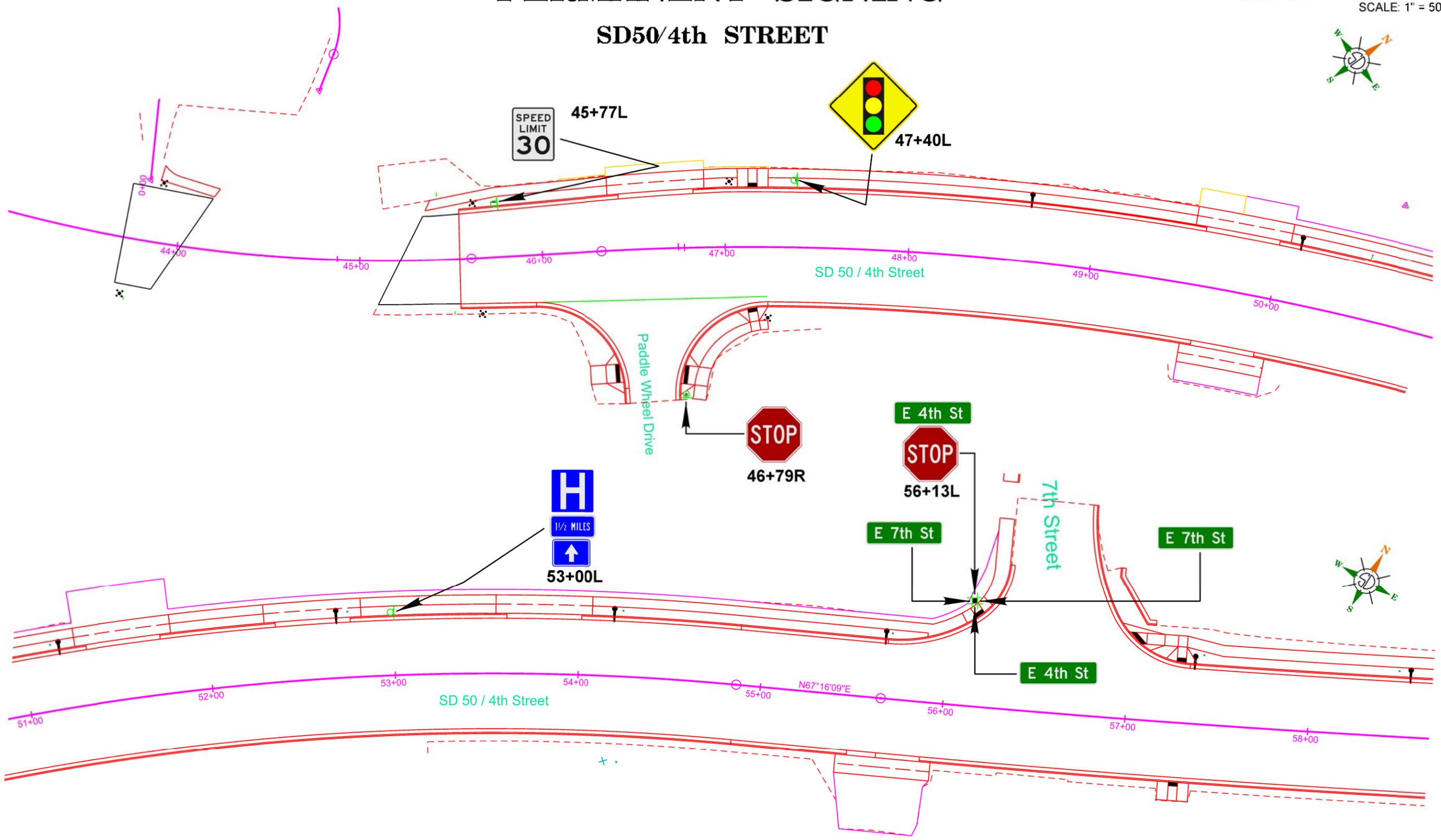
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| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | NH 0050(122)384 | S5 | S12 |

Plotting Date: 05/31/2016

SCALE: 1" = 50'

PERMANENT SIGNING

SD50/4th STREET



NOTE:
 THERE ARE NO SIGN INSTALLATIONS
 BETWEEN STATIONS 58+00 AND 75+00.

PLOT NAME - 2

FILE - ... \05HD SIGNING CONTAINER.DGN

PLOT SCALE - 1:52.0258

PLOTTED FROM - ITRHIND17

PERMANENT SIGNING

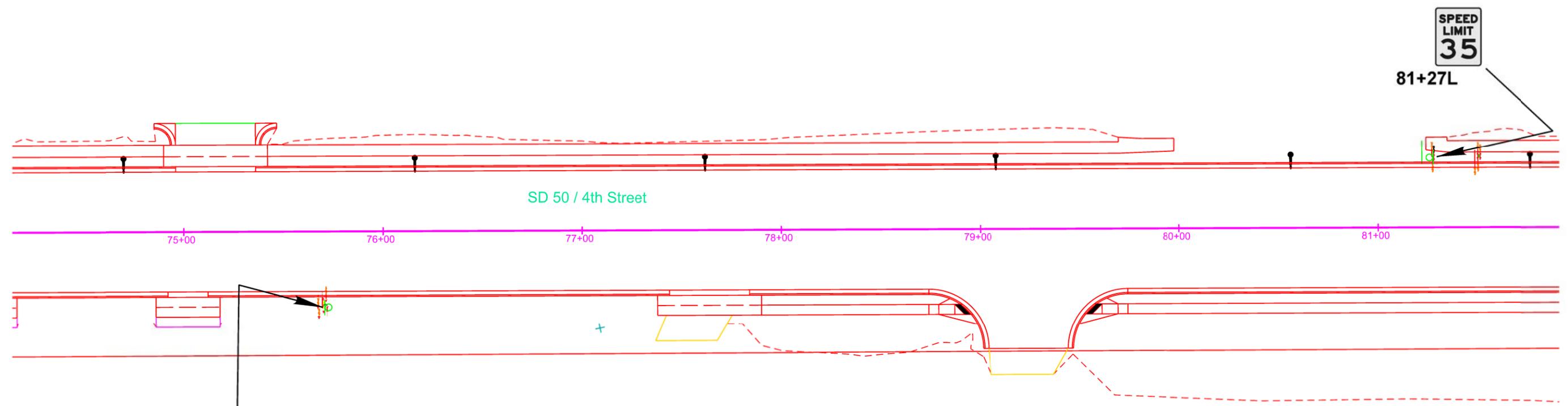
SD50/4th STREET

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| | | | |
|-----------------------|-----------------|-------|--------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | NH 0050(122)384 | S6 | S12 |

Plotting Date: 05/31/2016

SCALE: 1" = 50'



NOTE:
THERE ARE NO SIGN INSTALLATIONS
BETWEEN STATIONS 58+00 AND 75+00.

FILE - ... \05HD SIGNING CONTAINER.DGN

PLOT SCALE - 1:52,0258

PLOTTED FROM - ITRH1117

PERMANENT SIGNING

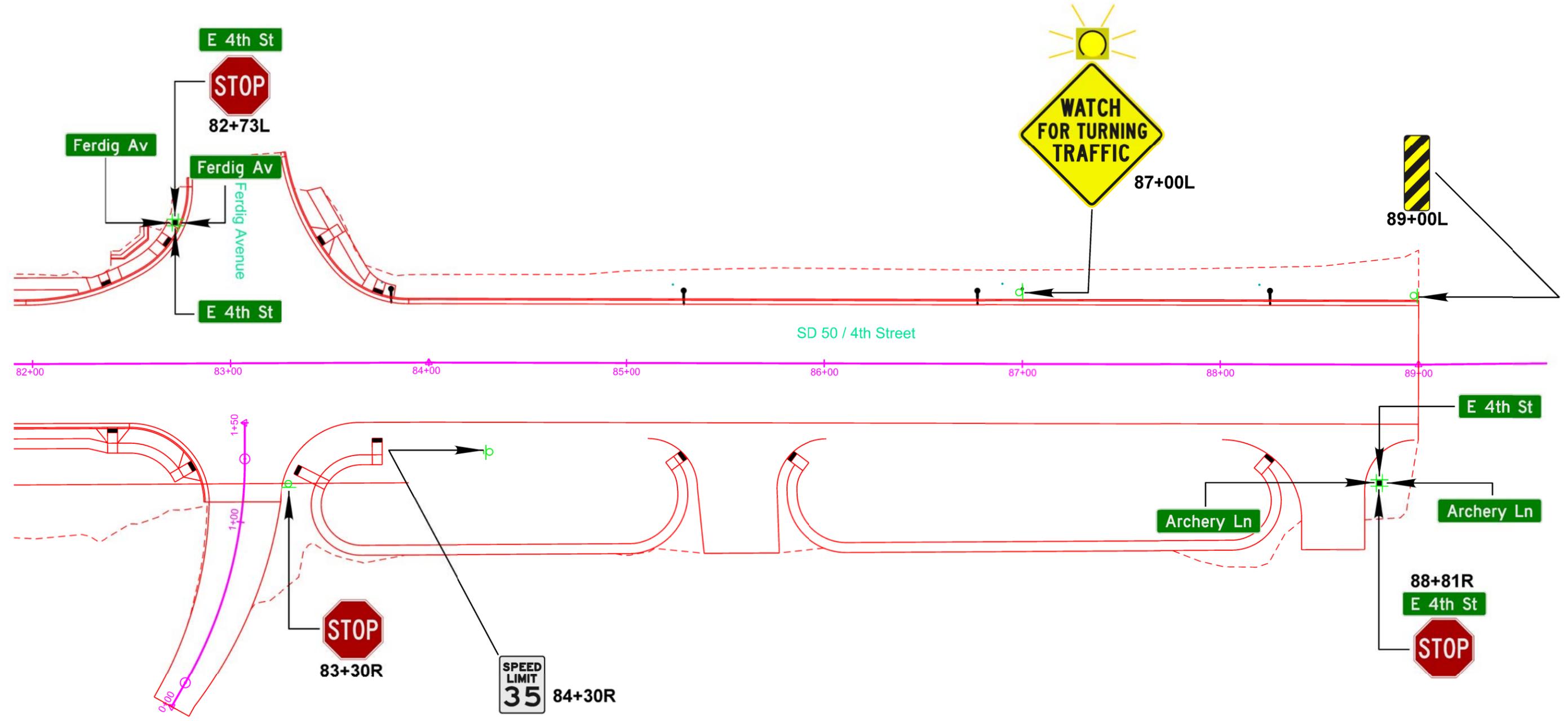
SD50/4th STREET

FOR BIDDING PURPOSES ONLY

| | | | |
|-----------------------|-----------------|-------|--------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | NH 0050(122)384 | S7 | S12 |

Plotting Date: 05/31/2016

SCALE: 1" = 50'



PLOT NAME - 4

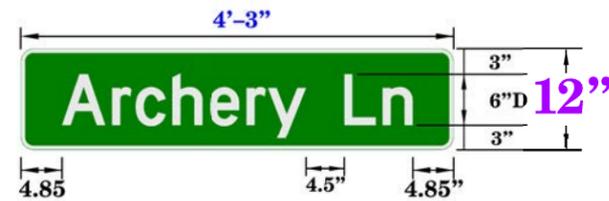
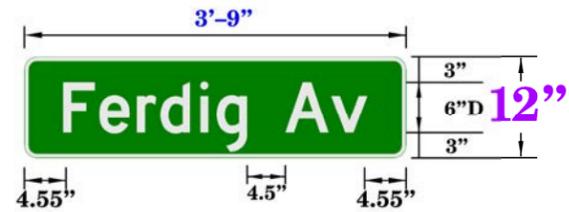
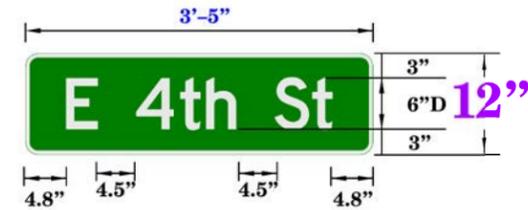
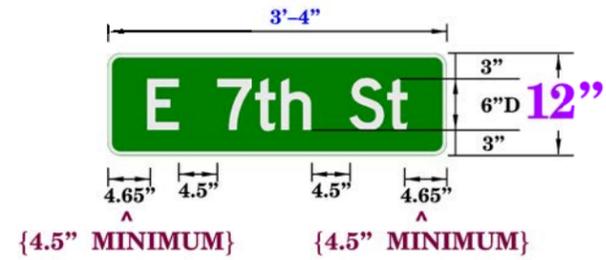
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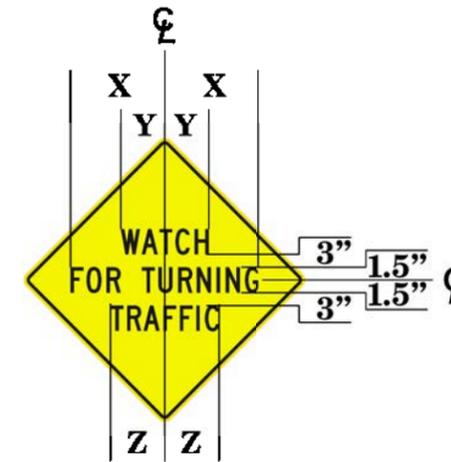
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| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
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Plotting Date: 05/31/2016

FLAT ALUMINUM SIGNS WITH NONREMOVABLE COPY-HIGH INTENSITY



| TYPICAL POST MOUNTED D3-1 SIGNS | |
|---------------------------------|----------------|
| WIDTH X HEIGHT | VARIABLE X 12" |
| BORDER WIDTH | 0.5' |
| CORNER RADIUS | 1.5' |
| LEGEND | 6'D |
| BACKGROUND | TYPE: IV |
| | COLOR: GREEN |
| LEGEND/BORDER | TYPE: IV |
| | COLOR: WHITE |



| SIGN CODE | SPECIAL |
|--------------------|---------------|
| SIGN SIZE | 4'-0" |
| BORDER-WIDTH/INSET | 1.25"/0.75" |
| CORNER RADIUS | 3.0' |
| LEGEND | 6"C |
| BACKGROUND | TYPE: XI |
| | COLOR: YELLOW |
| LEGEND/BORDER | TYPE: OPAQUE |
| | COLOR: BLACK |



| SIGN CODE | SPECIAL |
|----------------|---------------|
| WIDTH X HEIGHT | 2'-0" X 1'-0" |
| BORDER-WIDTH | 0.75" |
| CORNER RADIUS | 1.875" |
| LEGEND | 4"B |
| BACKGROUND | TYPE: IV |
| | COLOR: BLUE |
| LEGEND/BORDER | TYPE: IV |
| | COLOR: WHITE |

PLOT SCALE - 1/4" = 1'-0"

PLOTTED FROM - ITRM1117

PLOT NAME - 5

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| | | | |
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| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
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Plotting Date: 05/31/2016

SIGN INSTALLATIONS

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

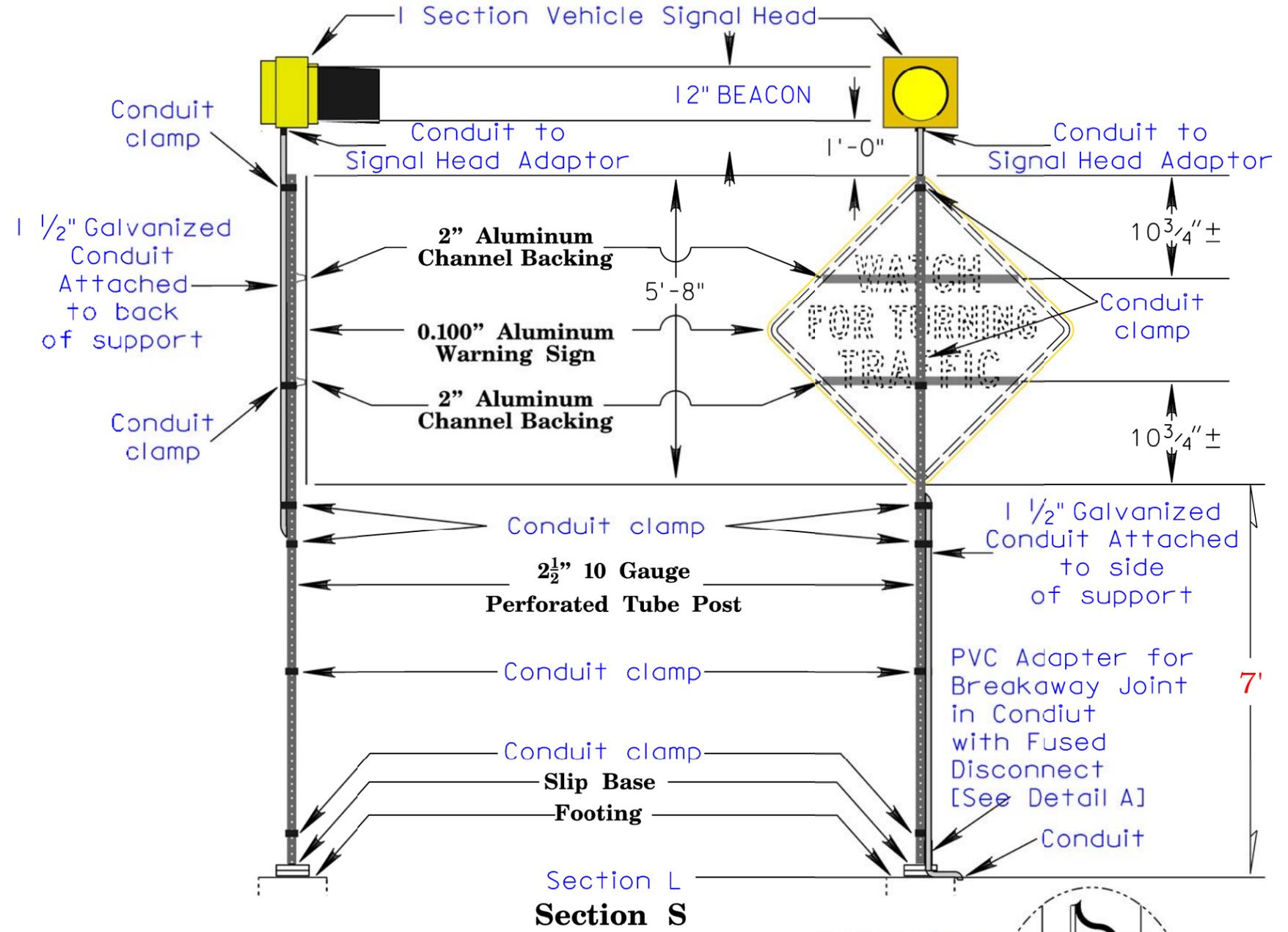
Spacer



Perforated Tube Support



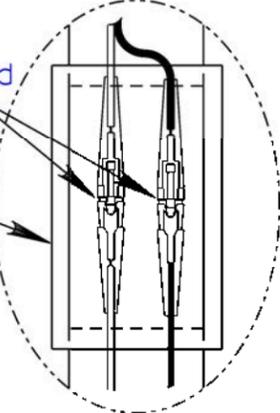
TYPICAL STOP SIGN WITH STREET SIGNS ASSEMBLY



TYPICAL 48" WARNING SIGN ASSEMBLY WITH BEACON

Breakaway Fused Disconnect

PVC Adapter



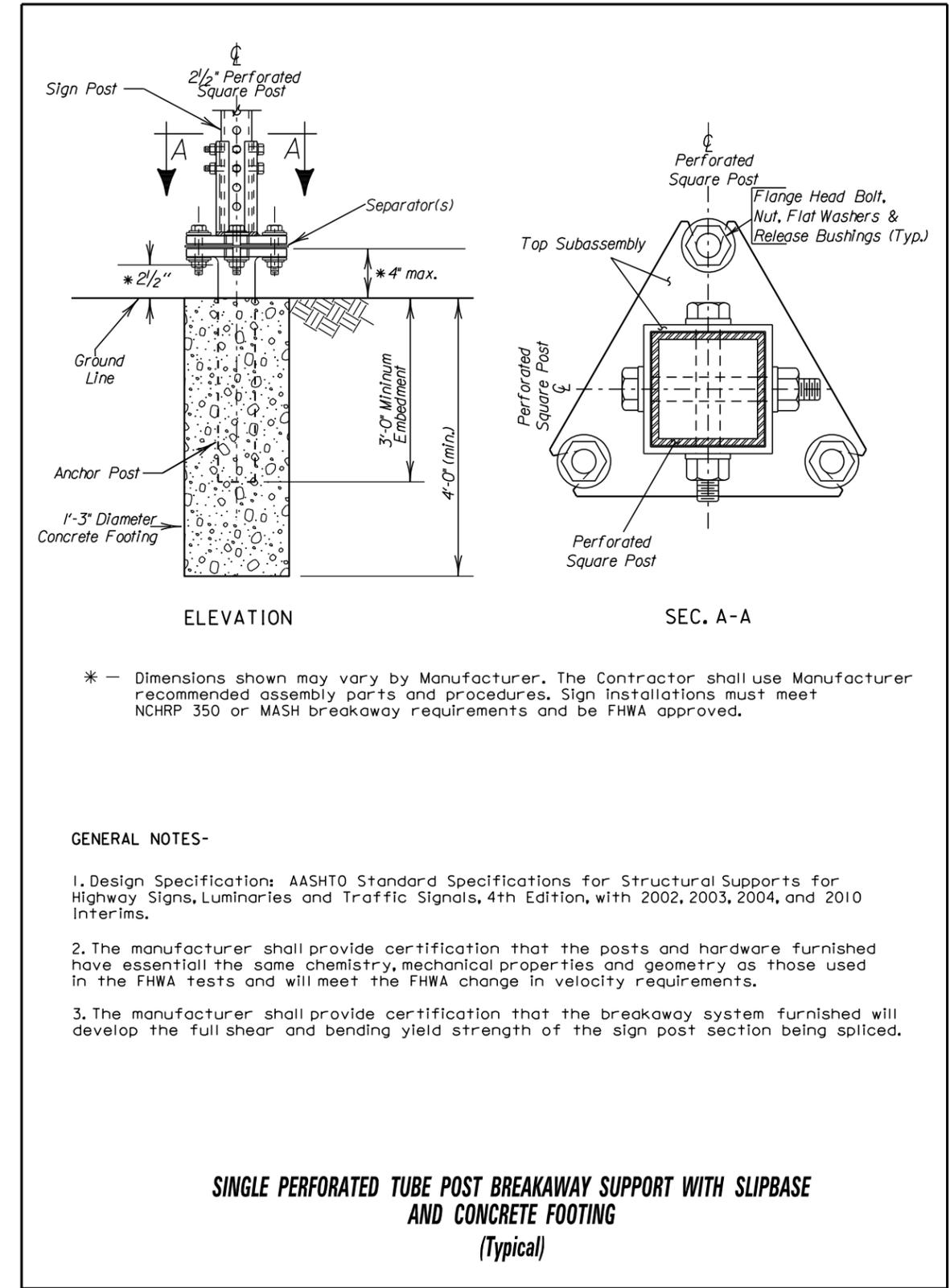
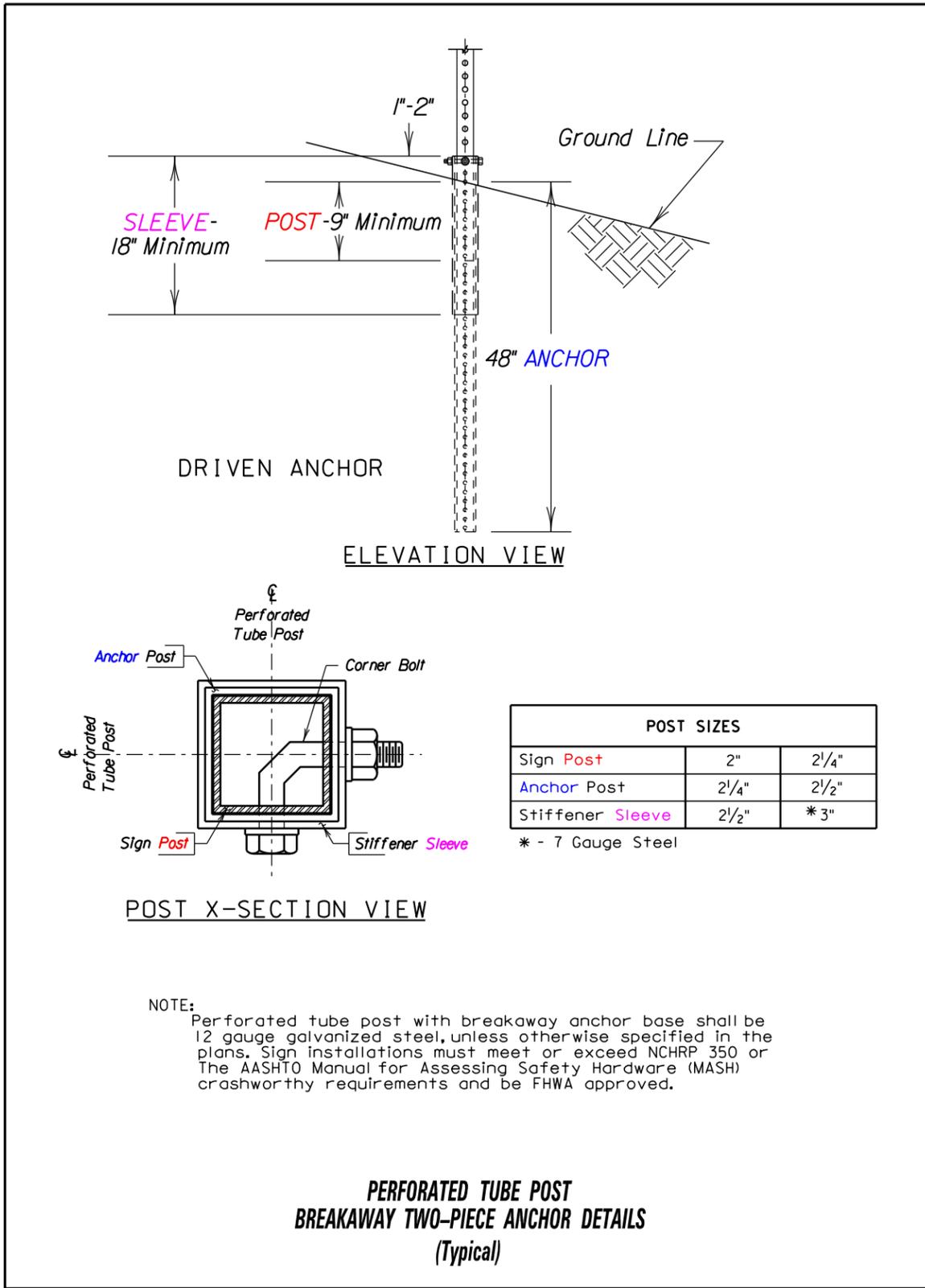
DETAIL A

PLOT SCALE - 1:2.47123

PLOTTED FROM - ITHUN117

PLOT NAME - 6

FILE - ... \05HD SIGNING CONTAINER.DGN



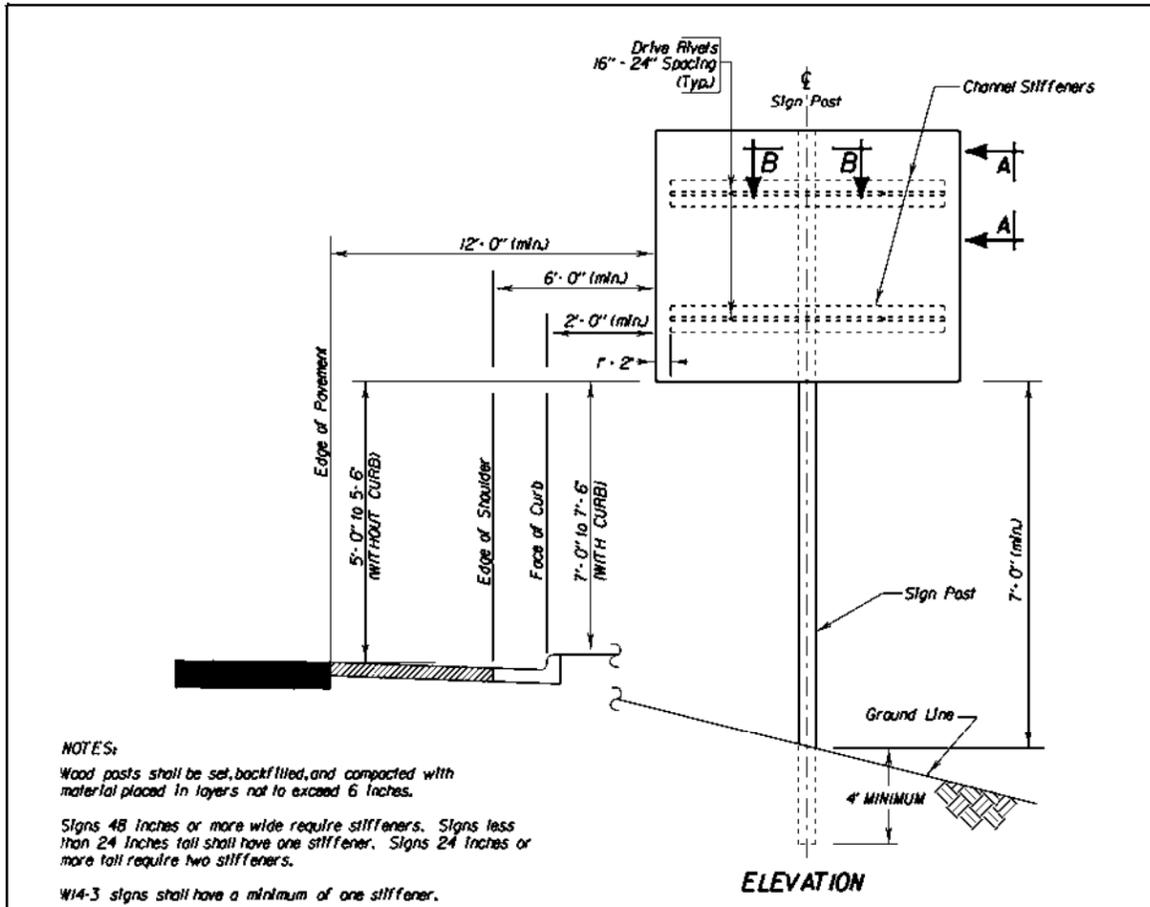
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| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | NH 0050(122)384 | S11 | S12 |

Plotting Date: 05/31/2016

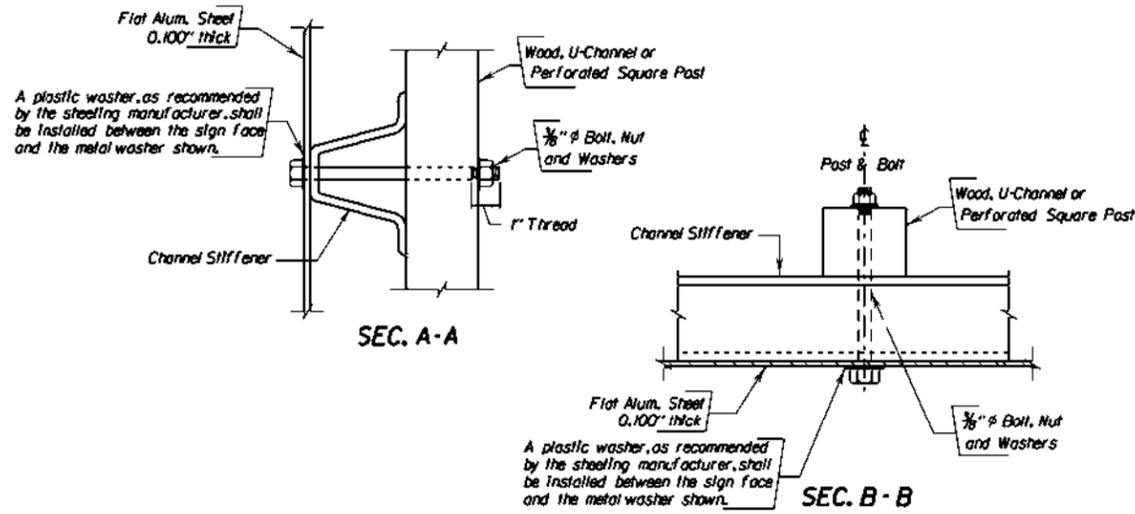
PLOT SCALE - 1:206.452

PLOT NAME - 8

FILE - ... \05HD SIGNING CONTAINER.DGN



NOTES:
 Wood posts shall be set, backfilled, and compacted with material placed in layers not to exceed 6 inches.
 Signs 48 inches or more wide require stiffeners. Signs less than 24 inches tall shall have one stiffener. Signs 24 inches or more tall require two stiffeners.
 W14-3 signs shall have a minimum of one stiffener.



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

PLOTTED FROM - ITRH11117

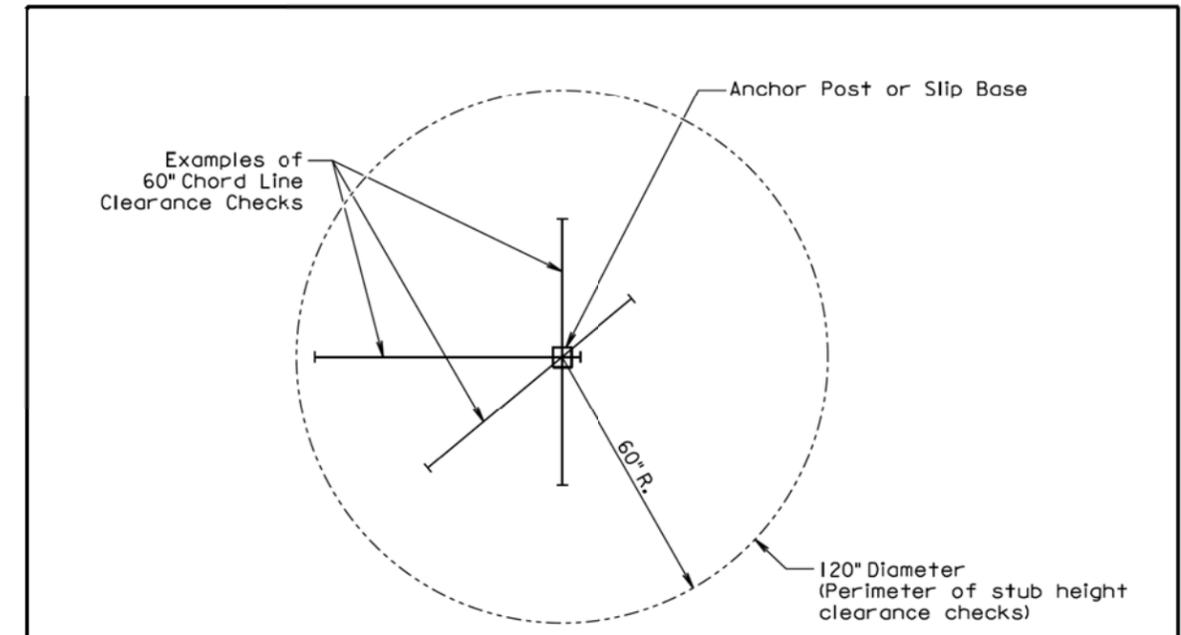
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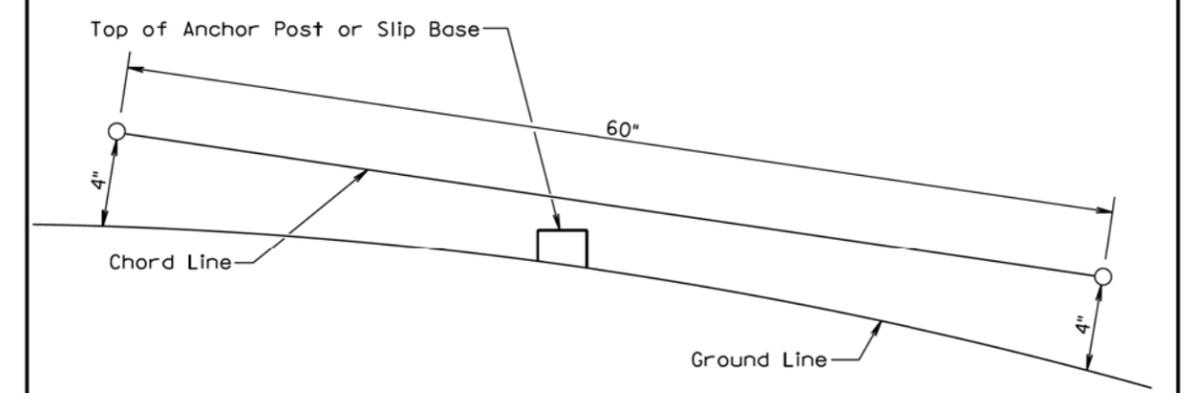
Plotting Date: 05/31/2016

PLOT SCALE - 1:206.452

PLOT NAME - 9



PLAN VIEW
(Examples of stub height clearance checks)



ELEVATION VIEW

GENERAL NOTES:

The top of anchor posts and slip bases SHALL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height shall be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

The 4" stub height clearance is not necessary for U-channel lap splices where the support is designed to yield (bend) at the base.

July 1, 2005

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|-------------------------------|-----------------------|----------------------------------|--------------|
| Published Date: 2nd Qtr. 2016 | S D D O T | BREAKAWAY SUPPORT STUB CLEARANCE | PLATE NUMBER |
| | | | 634.99 |
| | | | Sheet 1 of 1 |

PLOTTED FROM - ITRHINT17

FILE - ... \05HD SIGNING CONTAINER.DGN