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09/08/15

5/22/2015 10:28:34 AM C:\Users\j.kopaskie\Documents\Projects\2015\Traffic\SA\TR3\017.06 (R-2915A) Signing & PMP\Signing\SIGN-1.dgn

**CONTRACT: C203593** **TIP PROJECT: R-2915A**

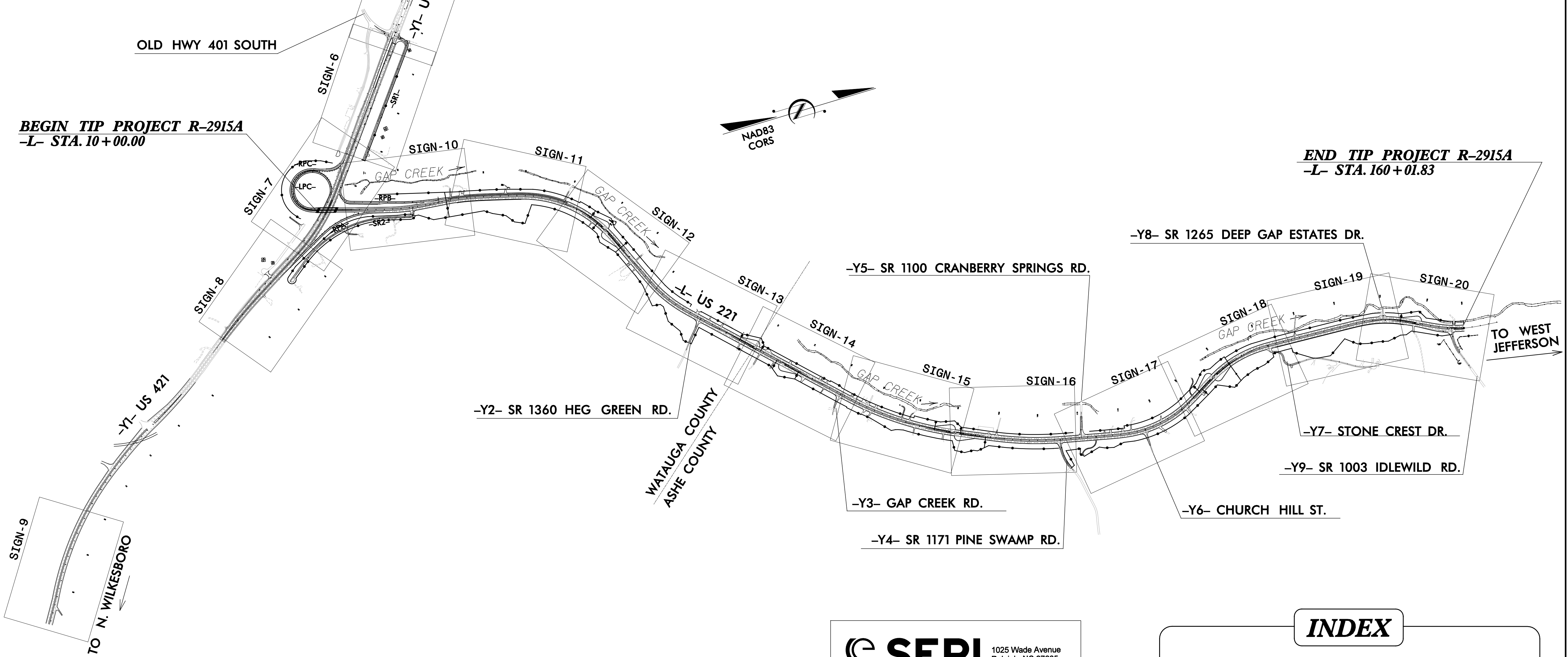
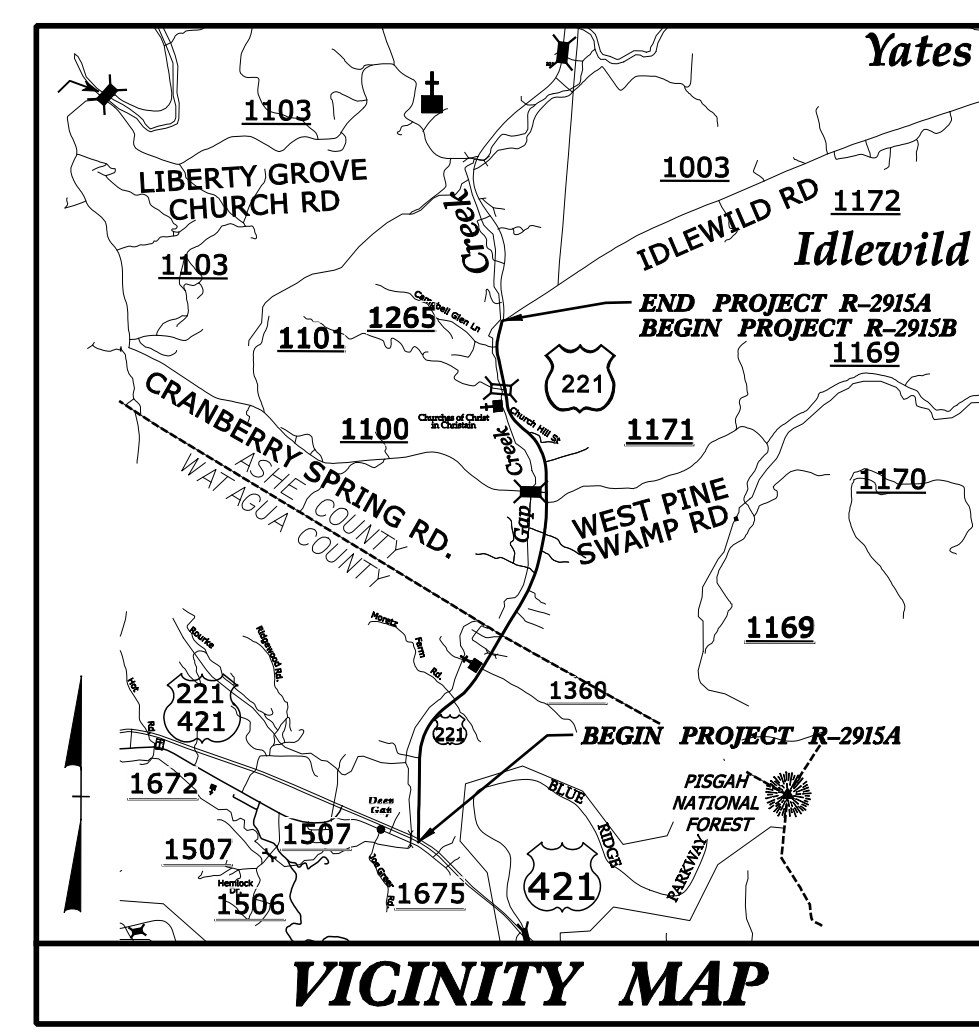
# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

## SIGNING PLAN

### WATAUGA & ASHE COUNTIES

LOCATION: US 221 FROM US 421 IN WATAUGA COUNTY TO  
SR 1003 (IDLEWILD RD) IN ASHE COUNTY

|                                  |           |
|----------------------------------|-----------|
| TIP NO.                          | SHEET NO. |
| R-2915A                          | SIGN-1    |
| APPROVED: <i>Joseph Kopaskie</i> |           |
| DATE: 5/27/2015                  |           |
| SEAL                             |           |



**SEPI**  
ENGINEERING & CONSTRUCTION  
1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9977  
Fax: 919-789-9591  
License: C-2197

|  |   |
|--|---|
| <b>PLAN PREPARED BY: SEPI ENGINEERING &amp; CONSTRUCTION</b> |   |
| <u>JOSEPH B. KOPASKIE, PE</u>                                | SIGNING & DELINEATION PROJECT ENGINEER        |
| <u>RICHARD DRAYTON</u>                                       | SIGNING & DELINEATION PROJECT DESIGN ENGINEER |

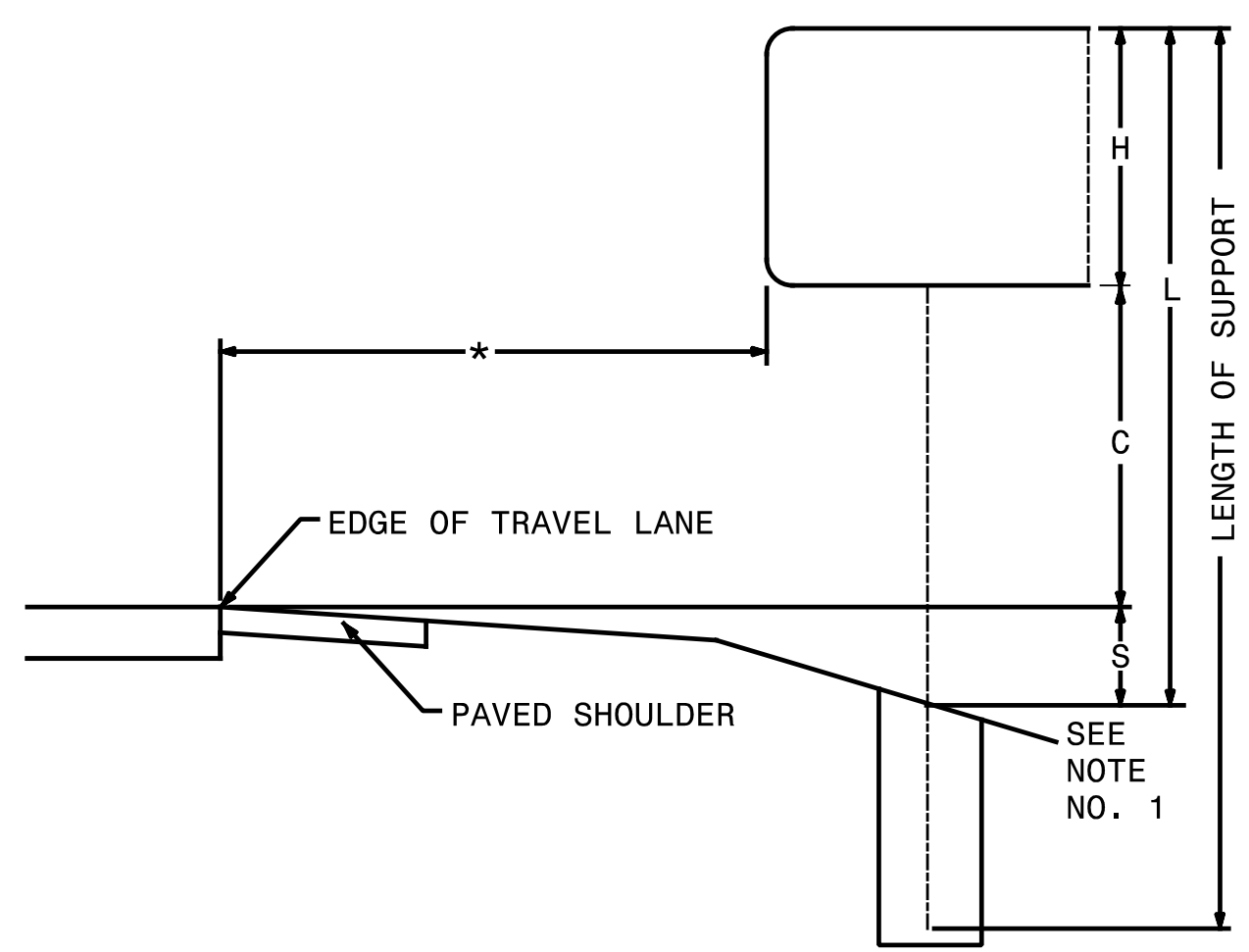
|                         |   |
|-------------------------|---|
| <b>NCDOT CONTACTS:</b>  |   |
| <u>KELVIN L. JORDAN</u> | SIGNING & DELINEATION REGIONAL ENGINEER       |
| <u>DERRICK H. BEARD</u> | SIGNING & DELINEATION PROJECT DESIGN ENGINEER |

| <b>INDEX</b> |   |
|--------------|---|
| SHEET NO.    | DESCRIPTION                                       |
| SIGN-1-1A    | TITLE SHEET, NOTES, QUANTITIES AND SPECIFICATIONS |
| SIGN-2-2B    | SUPPORT INFORMATION                               |
| SIGN-3 & 3A  | E & F   |
| SIGN-4-4J    | SIGN DESIGNS AND OVERHEAD DETAILS                 |
| SIGN-5-20    | R-2915A EXISTING & PROPOSED SIGN DETAIL SHEETS    |

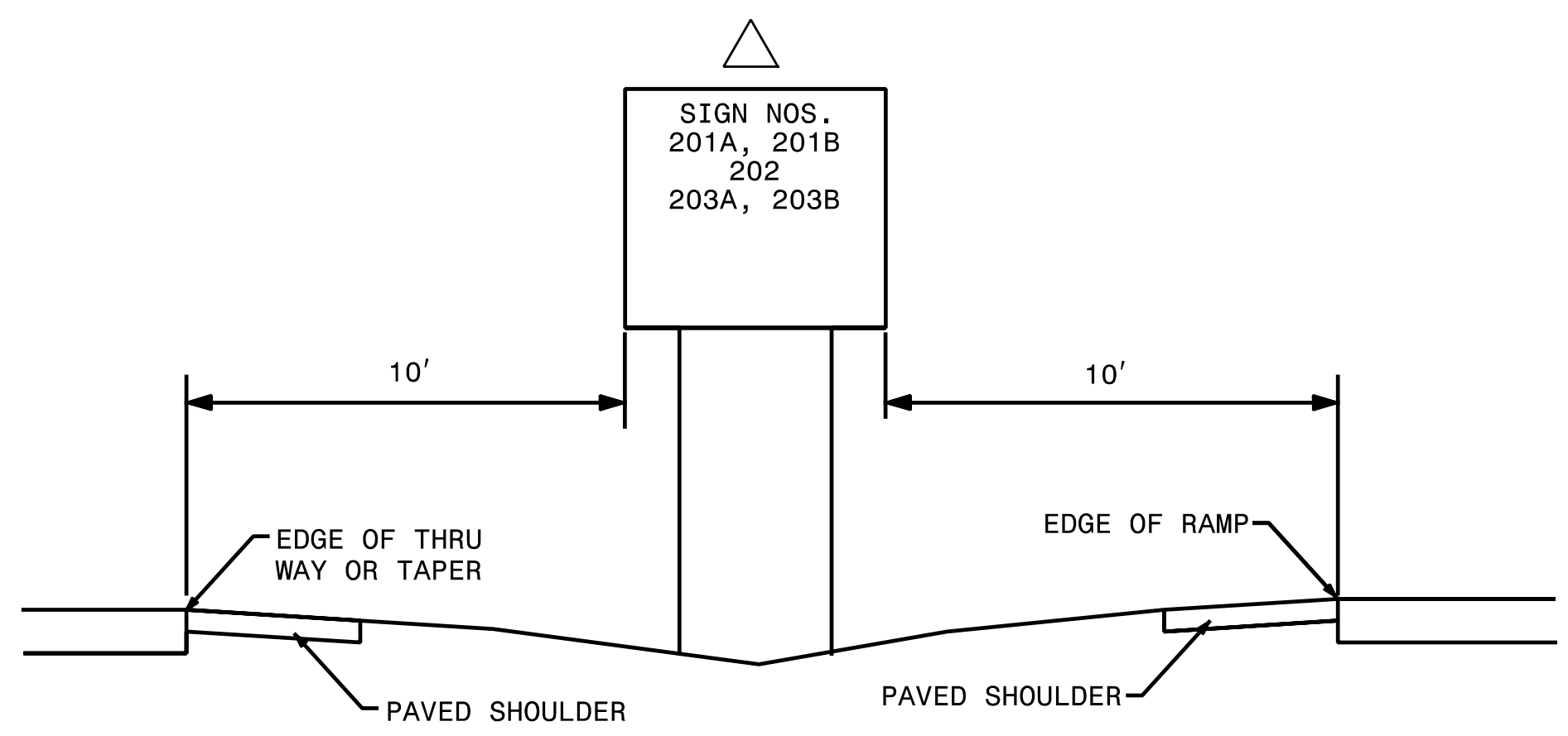


|   |                            |
|---|----------------------------|
| TIP NO.<br><b>R-2915A</b>   | SHEET NO.<br><b>SIGN-2</b> |
| Approved by: <u>Joseph Kopasick</u><br><small>REGISTERED PROFESSIONAL ENGINEER</small><br>DATE: 5/27/2015 |                            |
|   |                            |

| SIGN NO. | SIGN TYPE | SIGN SIZE (in.) |   |     | ROADWAY STATION | NO. OF SUP. | BEAM SECTION | SUPPORT TYPE BA or S | ATTACH METHOD | MOUNTING METHOD | HORIZ. CLR. (ft.) | LENGTH (ft) |          |            | LEFT SUPPORT (ft) |       |              | CENTER SUPPORT (ft) |       |              | RIGHT SUPPORT (ft) |       |              | FOOTING DIAMETER (ft.) | FOOTING DEPTH (ft.) | B/A SUPPORT WEIGHTS (lbs.) | SIMPLE SUPPORT WEIGHTS (lbs.) | REINF. FTGS. (c.y.) | PLAIN FTGS. (c.y.) | FIELD VERIFIED SEE NOTE 2 (mm/dd/yy) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------|-----------|-----------------|---|-----|-----------------|-------------|--------------|----------------------|---------------|-----------------|-------------------|-------------|----------|------------|-------------------|-------|--------------|---------------------|-------|--------------|--------------------|-------|--------------|------------------------|---------------------|----------------------------|-------------------------------|---------------------|--------------------|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|          |           | w               | x | h   |                 |             |              |                      |               |                 |                   | SNS HT H    | MTG HT C | EMBED-MENT | S                 | L     | TOTAL LENGTH | S                   | L     | TOTAL LENGTH | S                  | L     | TOTAL LENGTH |                        |                     |                            |                               |                     |                    |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 101      | A         | 222             | X | 126 | Sta. -26+00-Y1  | 3           | W10x22       | S                    | N/A           | N/A             | 18.00             | 10.50       | 7.00     | 6          | 1.00              | 18.50 | 24.50        | 5.00                | 22.50 | 28.50        | 9.00               | 26.50 | 32.50        | 2.5                    | 6.5                 | 0.00                       | 1881.00                       | 3.55                | 0.00               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 103      | A         | 222             | X | 138 | Sta. 19+00-Y1   | 3           | W8x18        | BA                   | N/A           | N/A             | 18.00             | 11.50       | 7.00     | 6          | 0.77              | 19.27 | 25.27        | 1.52                | 20.02 | 26.02        | 2.43               | 20.93 | 26.93        | 2                      | 6.5                 | 1617.96                    | 0.00                          | 2.27                | 0.00               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105      | A         | 114             | X | 72  | Sta. 37+00-Y1   | 2           | W6x9         | BA                   | N/A           | N/A             | 30.00             | 6.00        | 7.00     | 4.5        | 3.02              | 16.02 | 20.52        | 0.00                | 0.00  | 0.00         | 3.78               | 16.78 | 21.28        | 1.5                    | 5                   | 440.20                     | 0.00                          | 0.65                | 0.00               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 106      | A         | 222             | X | 138 | Sta. 44+00-Y1   | 3           | W6x16        | BA                   | N/A           | N/A             | 16.00             | 11.50       | 7.00     | 6.5        | 0.42              | 18.92 | 25.42        | 0.94                | 19.44 | 25.94        | 1.42               | 19.92 | 26.42        | 1.5                    | 7                   | 1385.48                    | 0.00                          | 1.37                | 0.00               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 108      | A         | 222             | X | 126 | Sta. 91+00-Y1   | 3           | W6x16        | BA                   | N/A           | N/A             | 18.00             | 10.50       | 8.00     | 6          | 1.00              | 19.50 | 25.50        | 1.00                | 19.50 | 25.50        | -1.00              | 17.50 | 23.50        | 1.5                    | 6.5                 | 1333.00                    | 0.00                          | 1.28                | 0.00               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110      | A         | 168             | X | 186 | Sta. 49+00-L    | 3           | W18x35       | S                    | N/A           | N/A             | 18.00             | 15.50       | 7.00     | 6          | 5.08              | 27.58 | 33.58        | 7.56                | 30.06 | 36.06        | 8.37               | 30.87 | 36.87        | 3                      | 6.5                 | 0.00                       | 3727.85                       | 5.11                | 0.00               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 111      | A         | 198             | X | 156 | Sta. 81+00-L    | 2           | W16x31       | BA                   | N/A           | N/A             | 18.00             | 13.00       | 7.00     | 6          | 4.18              | 24.18 | 30.18        | 0.00                | 0.00  | 0.00         | 4.42               | 24.42 | 30.42        | 3                      | 6.5                 | 2324.60                    | 0.00                          | 3.40                | 0.00               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 201A     | A         | 72              | X | 60  | Sta. 28+65-Y1   | 2           | S3x5.7       | BA                   | N/A           | 2               | △                 | 7.00        | 7.00     | 4.5        | 0.21              | 14.21 | 18.71        | 0.00                | 0.00  | 0.00         | 0.46               | 14.46 | 18.96        | 1                      | 5                   | 250.72                     | 0.00                          | 0.00                | 0.29               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 201B     | B         | 72              | X | 24  | Sta. 37+61-Y1   | 2           | S3x5.7       | BA                   | N/A           | N/A             | △                 | 5.00        | 7.00     | 3.5        | 0.35              | 12.35 | 15.85        | 0.00                | 0.00  | 0.00         | 0.51               | 12.51 | 16.01        | 1                      | 4                   | 217.60                     | 0.00                          | 0.00                | 0.23               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 202      | A         | 72              | X | 60  | Sta. 37+61-Y1   | 2           | S3x5.7       | BA                   | N/A           | N/A             | △                 | 5.00        | 7.00     | 3.5        | 0.35              | 12.35 | 15.85        | 0.00                | 0.00  | 0.00         | 0.51               | 12.51 | 16.01        | 1                      | 4                   | 217.60                     | 0.00                          | 0.00                | 0.23               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 203A     | A         | 72              | X | 60  | Sta. 21+95-L    | 2           | S4x7.7       | BA                   | N/A           | 2               | △                 | 7.00        | 7.00     | 4.5        | 1.20              | 15.20 | 19.70        | 0.00                | 0.00  | 0.00         | 1.34               | 15.34 | 19.84        | 1                      | 5                   | 344.46                     | 0.00                          | 0.00                | 0.29               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 203B     | B         | 72              | X | 24  | Sta. 21+95-L    | 2           | S4x7.7       | BA                   | N/A           | N/A             | △                 | 7.00        | 7.00     | 4.5        | 1.20              | 15.20 | 19.70        | 0.00                | 0.00  | 0.00         | 1.34               | 15.34 | 19.84        | 1                      | 5                   | 344.46                     | 0.00                          | 0.00                | 0.29               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 901      | A         | 150             | X | 84  | Sta. 5+00-Y1    | 2           | W6x9         | BA                   | N/A           | N/A             | 15.70             | 7.00        | 7.00     | 5          | 1.00              | 15.00 | 20.00        | 0.00                | 0.00  | 0.00         | 1.00               | 15.00 | 20.00        | 1.5                    | 5.5                 | 424.00                     | 0.00                          | 0.72                | 0.00               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 902      | B         | 144             | X | 36  | Sta. 27+00-Y1   | 2           | S4x7.7       | BA                   | N/A           | N/A             | 30.00             | 3.00        | 7.00     | 4.5        | 3.84              | 13.84 | 18.34        | 0.00                | 0.00  | 0.00         | 5.59               | 15.59 | 20.09        | 1                      | 5                   | 335.91                     | 0.00                          | 0.00                | 0.29               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 903      | A         | 90              | X | 54  | Sta. 30+00-Y1   | 2           | S4x7.7       | BA                   | N/A           | N/A             | 18.00             | 4.50        | 7.00     | 4.5        | 3.84              | 15.34 | 19.84        | 0.00                | 0.00  | 0.00         | 5.59               | 17.09 | 21.59        | 1                      | 5                   | 359.01                     | 0.00                          | 0.00                | 0.29               |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|          |           |                 |   |     |                 |             |              |                      |               |                 |                   |             |          |            |                   |       |              |                     |       |              |                    |       | TOTAL        | 9032.94                | TOTAL               | 5608.85                    | TOTAL                         | 18.35               | TOTAL              | 1.40                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|          |           |                 |   |     |                 |             |              |                      |               |                 |                   |             |          |            |                   |       |              |                     |       |              |                    |       | USE:         | 9033                   | 5609                | 19                         | 2                             |                     |                    |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



TYPICAL ELEVATION GROUND MOUNTED SIGNS



TYPICAL ELEVATION GORE MOUNTED SIGNS

NOTES

1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
2. FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (\*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (\*) ARTICLE 1072-1. (\*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES
3. PLAN LOCATIONS FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.
4. IF THE GROUNDWATER IS ENCOUNTERED AT AN DEPTH SHALLOWER THAN 7 FEET, THE SIGN FOUNDATION MUST BE REDESIGNED BASED UPON THE ACTUAL FIELD CONDITIONS. THE FOUNDATION DESIGN DOES NOT APPLY TO VERY SOFT OR LOOSE SOIL, MUCK, WEATHERED ROCK, OR HARD ROCK.

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**TYPE "A" AND TYPE "B" GROUND MOUNTED SIGNS**

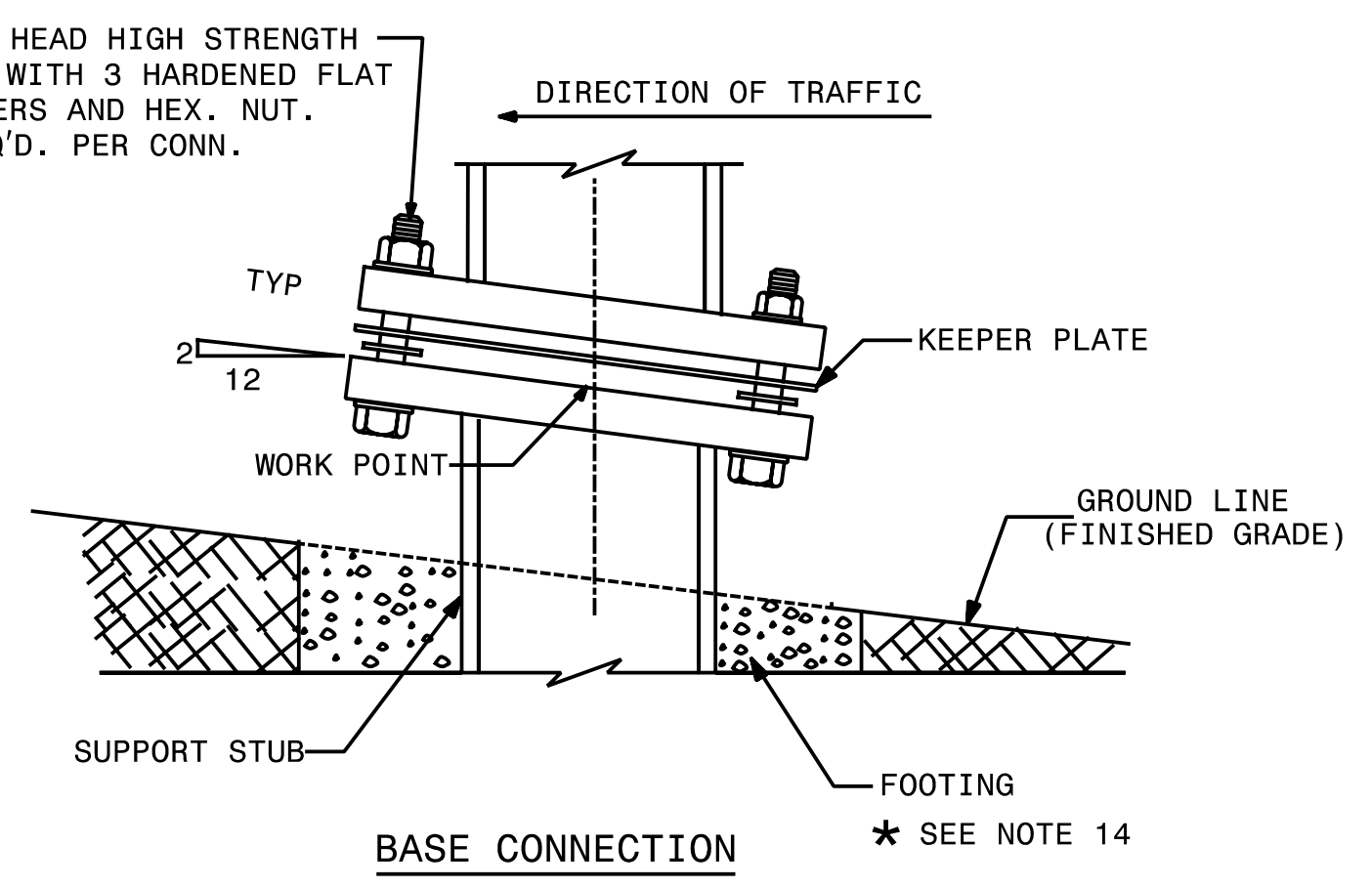
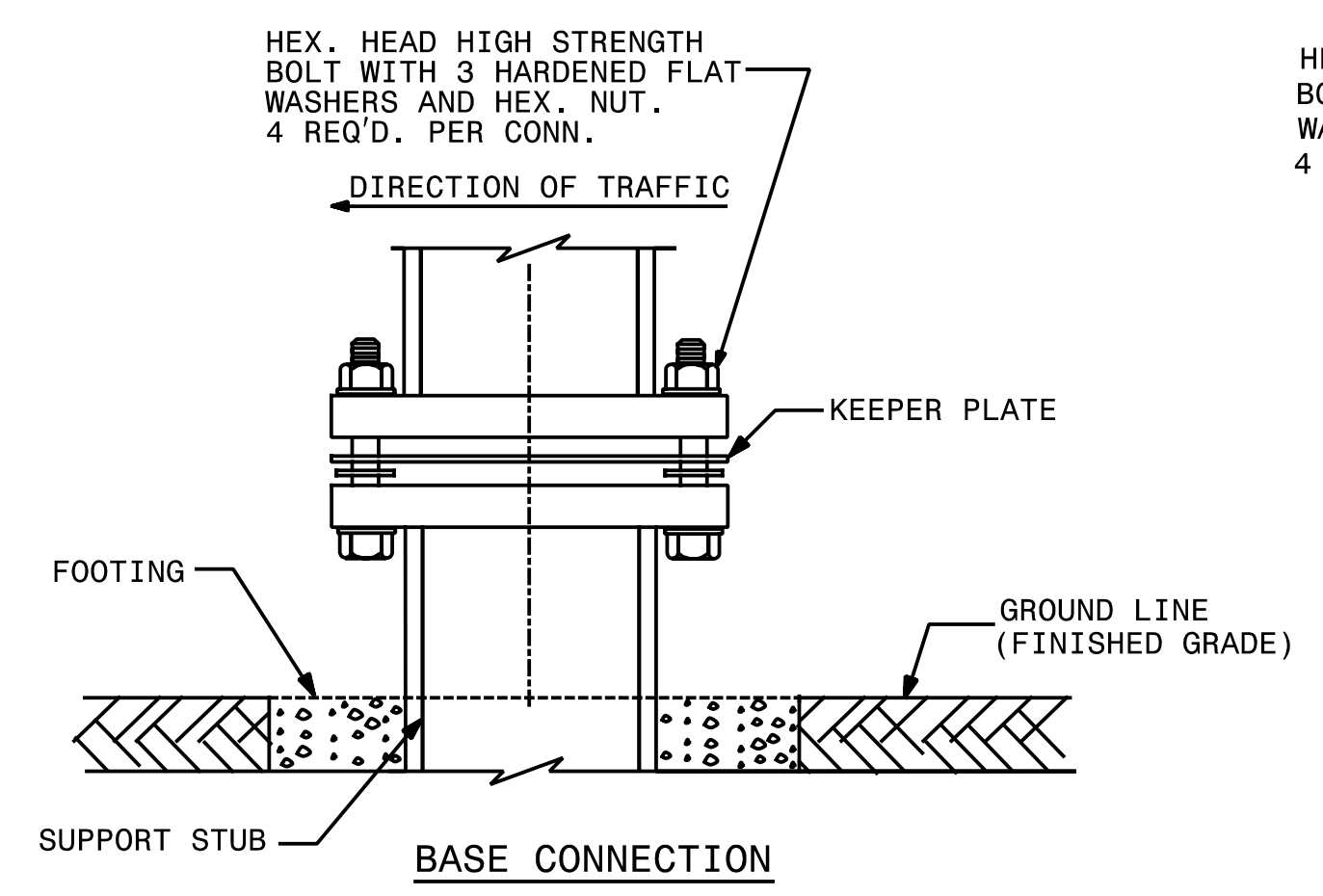
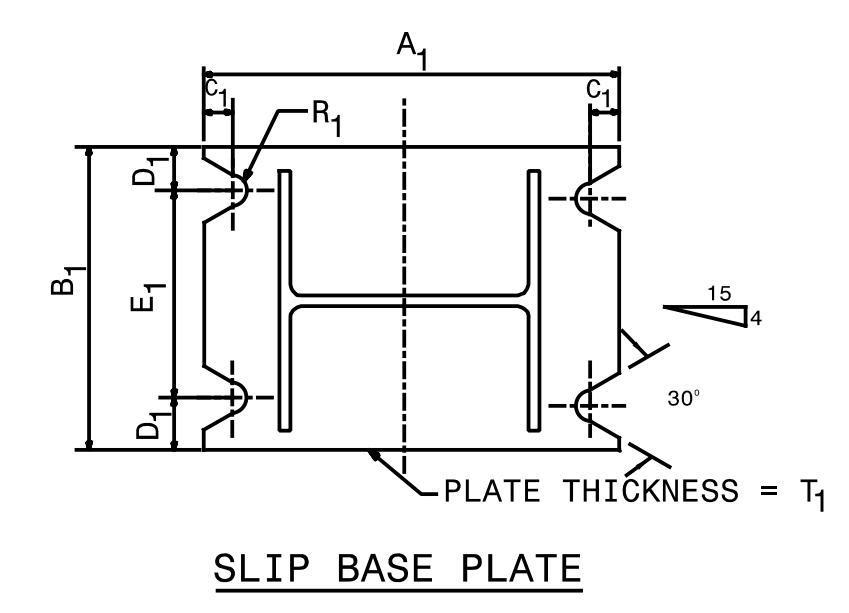
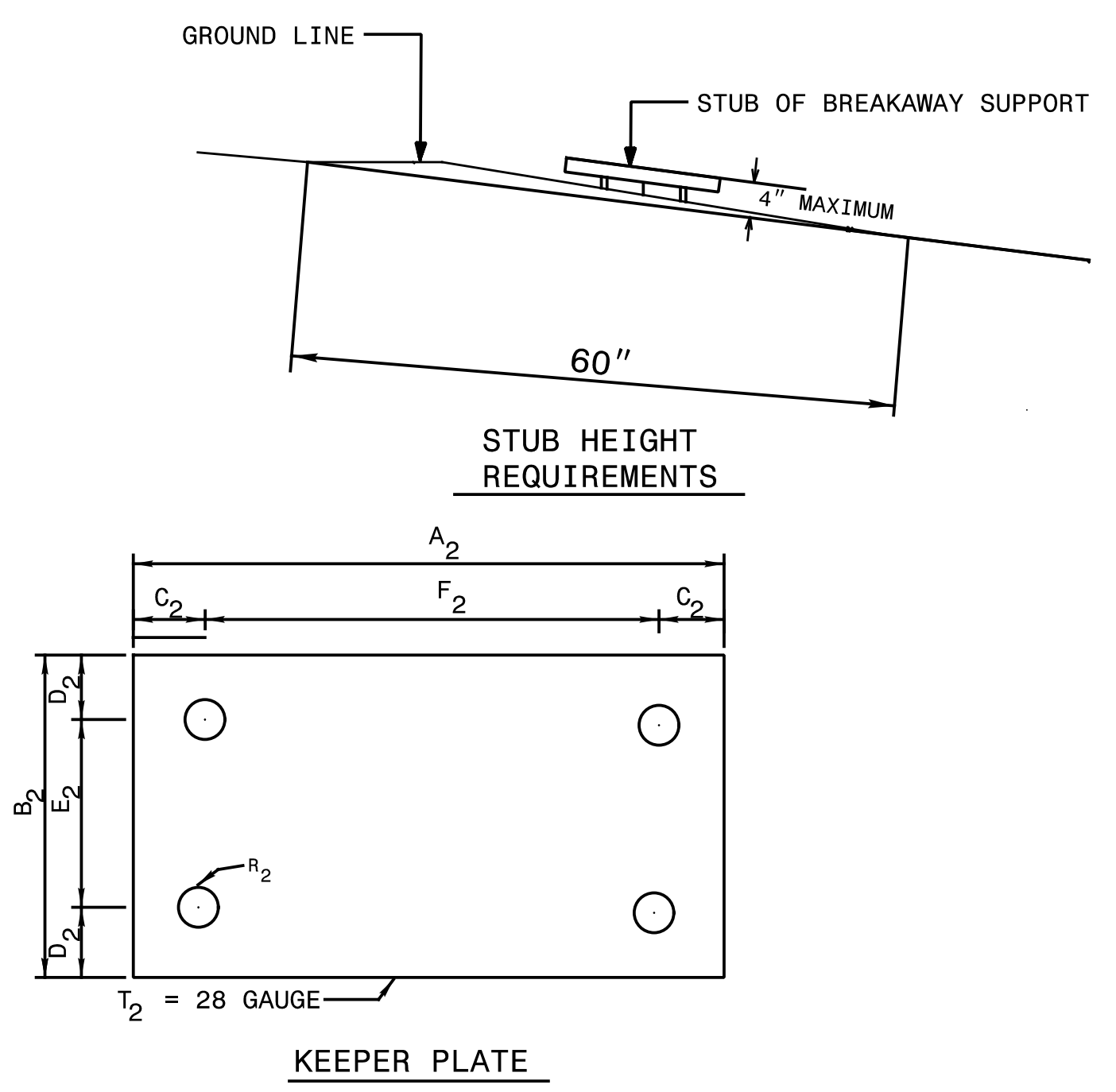
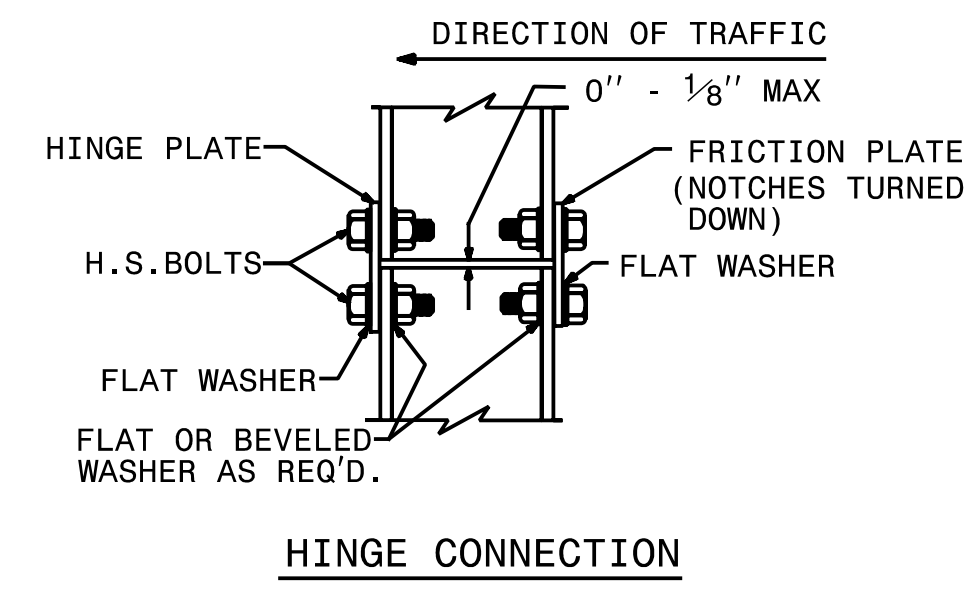
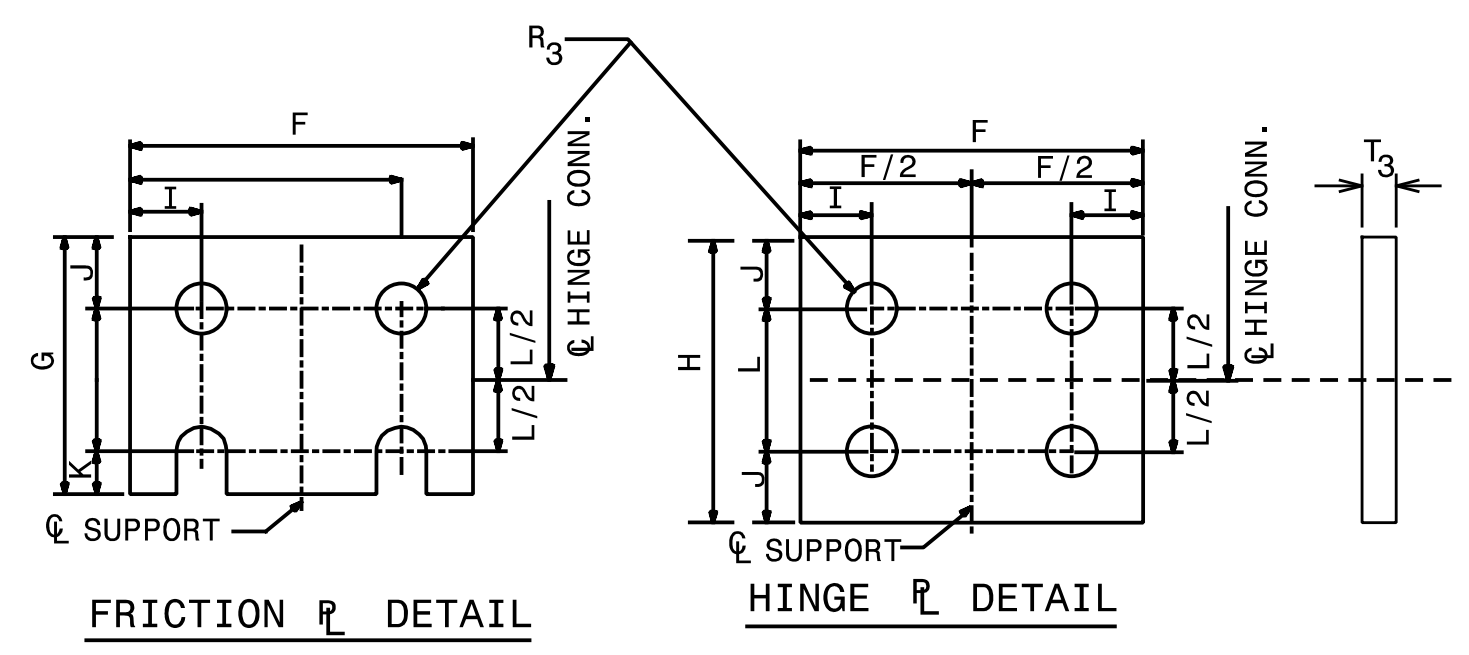
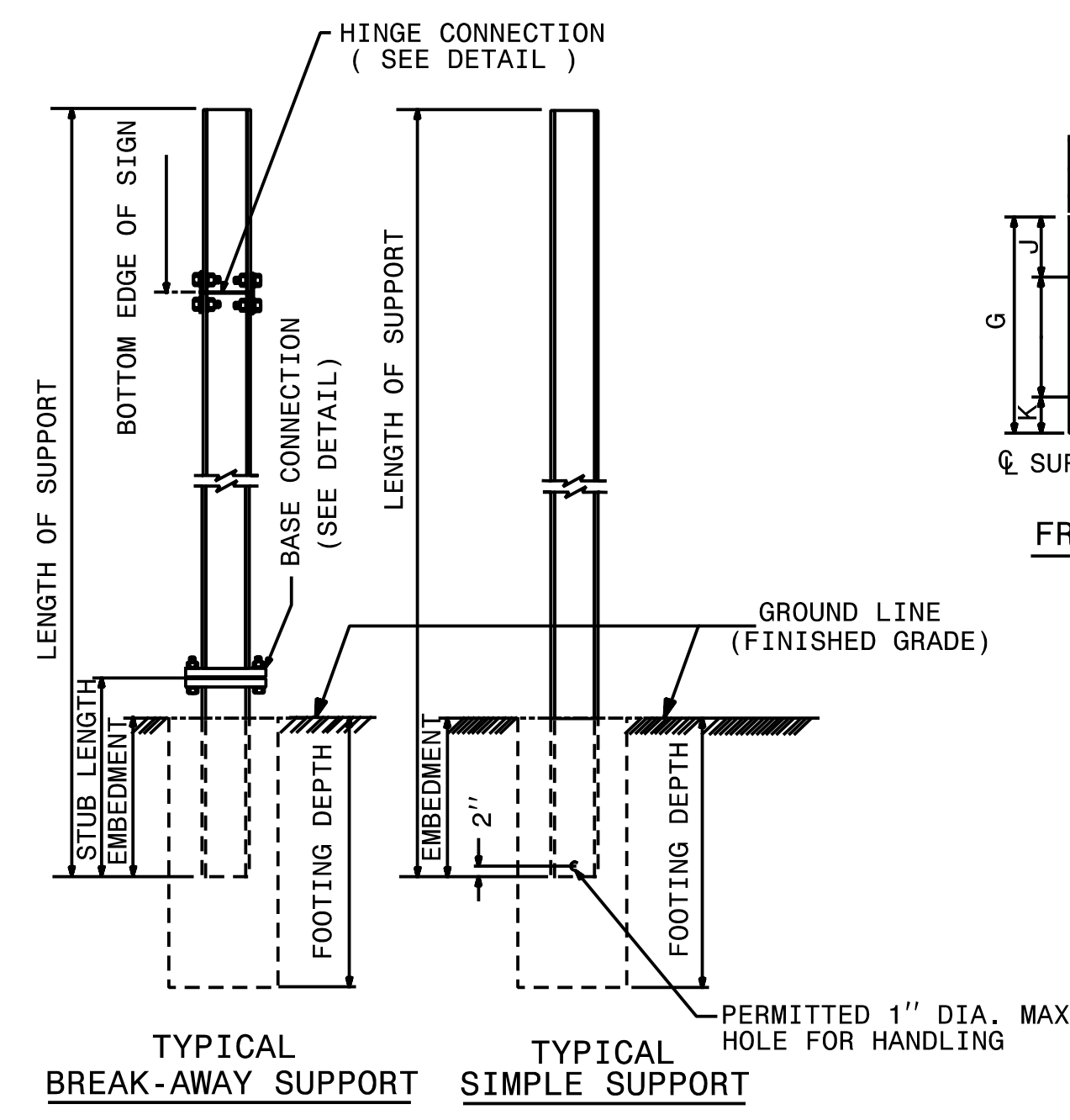
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|   |                             |
|---|-----------------------------|
| PROJECT REFERENCE NO.<br><b>R-2915A</b>                                 | SHEET NO.<br><b>SIGN-2A</b> |
| Approved by: <i>Joseph Kopasick</i><br><small>SCDREAEP0A5AFA...</small> |                             |
| DATE: 5/27/2015   |                             |
|   |                             |

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
**GROUND MOUNTED SIGN SUPPORTS**

SHEET 1 OF 3  
**903D10**



SEE SHEET 2 OF 3 FOR  
 BASE CONNECTION DATA  
 HINGE CONNECTION DATA  
 & FOUNDATION DATA.  
 SEE SHEET 3 OF 3 FOR  
 GENERAL NOTES.

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
**GROUND MOUNTED SIGN SUPPORTS**

SHEET 1 OF 3  
**903D10**

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 License: C-2197

**REVISED SIGNING  
 ROADWAY STANDARD DRAWING**

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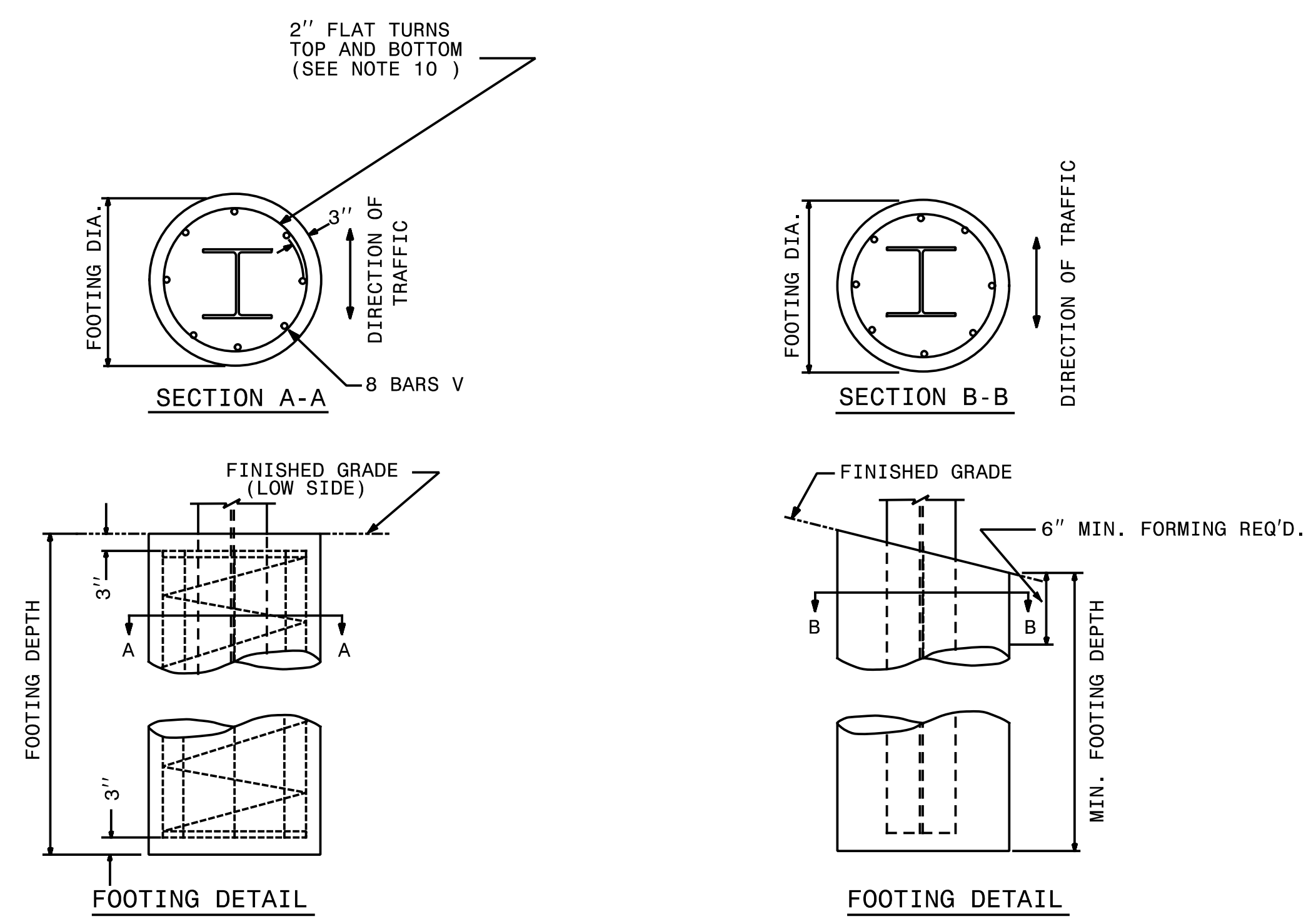
|  |                             |
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| PROJECT REFERENCE NO.<br><b>R-2915A</b>                              | SHEET NO.<br><b>SIGN-2B</b> |
| Approved by: <i>Joseph Kopasick</i><br><small>SCDREAEP08A4FA</small> |                             |
| DATE: 5/27/2015  |                             |
| SEAL   |                             |
|  |                             |

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**GROUND MOUNTED SIGN SUPPORTS**

SHEET 2 OF 3  
**903D10**

| BEAM SHAPE | SLIP BASE PLATE DATA |                |                |                |                |                |                |                | KEEPER PLATE DATA |                |                |                |                |                |                |                  | HINGE CONNECTION DATA |        |        |        |        |      |        |                | BREAK AWAY SUPPORT WEIGHT CONSTANT LBS. |                |
|------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|-----------------------|--------|--------|--------|--------|------|--------|----------------|---|----------------|
|            | BOLT SIZE            | A <sub>1</sub> | B <sub>1</sub> | C <sub>1</sub> | D <sub>1</sub> | E <sub>1</sub> | T <sub>1</sub> | R <sub>1</sub> | A <sub>2</sub>    | B <sub>2</sub> | C <sub>2</sub> | D <sub>2</sub> | E <sub>2</sub> | R <sub>2</sub> | T <sub>2</sub> | BOLT SIZE        | F                     | G      | H      | I      | J      | K    | L      | R <sub>3</sub> |   | T <sub>3</sub> |
| S3X5.7     | 1/2"DIA.X 3/4"       | 7"             | 4"             | 1"             | 3/4"           | 2 1/2"         | 1"             | 3/32"          | 7"                | 4"             | 1"             | 3/4"           | 2 1/2"         | 3/32"          | 28 GAUGE       | 1/2"DIA.X 1 3/4" | 2 1/4"                | 3 1/2" | 4"     | 1/2"   | 1"     | 1/2" | 2"     | 3/32"          | 3/8"                                    | 18             |
| S4X7.7     | 1/2"DIA.X 3/4"       | 8"             | 4"             | 1"             | 3/4"           | 2 1/2"         | 1"             | 3/32"          | 8"                | 4"             | 1"             | 3/4"           | 2 1/2"         | 3/32"          | 28 GAUGE       | 1/2"DIA.X 1 3/4" | 2 5/8"                | 3 1/2" | 4"     | 1/2"   | 1"     | 1/2" | 2"     | 3/32"          | 3/8"                                    | 20             |
| W6X9       | 1/2"DIA.X 3/4"       | 10"            | 5"             | 1"             | 3/4"           | 3 1/2"         | 1"             | 3/32"          | 10"               | 5"             | 1"             | 3/4"           | 3 1/2"         | 3/32"          | 28 GAUGE       | 1/2"DIA.X 1 3/4" | 4"                    | 3 1/2" | 4"     | 3/4"   | 1"     | 1/2" | 2"     | 3/32"          | 3/8"                                    | 32             |
| W6X12      | 5/8"DIA.X 4"         | 11"            | 5"             | 1 1/4"         | 7/8"           | 3 1/4"         | 1 1/4"         | 11/32"         | 11"               | 5"             | 1 1/4"         | 7/8"           | 3 1/4"         | 11/32"         | 28 GAUGE       | 5/8"DIA.X 2"     | 4"                    | 4"     | 4 1/2" | 3/4"   | 1 1/8" | 5/8" | 2 1/4" | 11/32"         | 3/8"                                    | 39             |
| W6X16      | 5/8"DIA.X 4 1/2"     | 12"            | 6"             | 1 1/4"         | 7/8"           | 4 1/4"         | 1 1/2"         | 11/32"         | 12"               | 6"             | 1 1/4"         | 7/8"           | 4 1/4"         | 11/32"         | 28 GAUGE       | 5/8"DIA.X 2 1/4" | 4"                    | 4"     | 4 1/2" | 3/4"   | 1 1/8" | 5/8" | 2 1/4" | 11/32"         | 1/2"                                    | 47             |
| W8X18      | 5/8"DIA.X 4 1/2"     | 13 1/2"        | 6 1/2"         | 1 1/4"         | 7/8"           | 4 3/4"         | 1 1/2"         | 11/32"         | 13 1/2"           | 6 1/2"         | 1 1/4"         | 7/8"           | 4 3/4"         | 11/32"         | 28 GAUGE       | 5/8"DIA.X 2 1/4" | 5 1/4"                | 4"     | 4 1/2" | 1"     | 1 1/8" | 5/8" | 2 1/4" | 11/32"         | 1/2"                                    | 70             |
| W8X21      | 3/4"DIA.X 4 1/2"     | 14"            | 7"             | 1 1/2"         | 1"             | 5"             | 1 1/2"         | 13/32"         | 14"               | 7"             | 1 1/2"         | 1"             | 5"             | 13/32"         | 28 GAUGE       | 3/4"DIA.X 2 1/2" | 5 1/4"                | 6"     | 7"     | 1"     | 1 3/4" | 3/4" | 3 1/2" | 13/32"         | 1/2"                                    | 73             |
| W10X22     | 3/4"DIA.X 4 1/2"     | 16"            | 8"             | 1 1/2"         | 1"             | 6"             | 1 1/2"         | 13/32"         | 16"               | 8"             | 1 1/2"         | 1"             | 6"             | 13/32"         | 28 GAUGE       | 3/4"DIA.X 2 1/2" | 5 3/4"                | 6"     | 7"     | 1"     | 1 3/4" | 3/4" | 3 1/2" | 13/32"         | 1/2"                                    | 119            |
| W10X26     | 3/4"DIA.X 5 1/2"     | 16 1/2"        | 8"             | 1 1/2"         | 1"             | 6"             | 1 3/4"         | 13/32"         | 16 1/2"           | 8"             | 1 1/2"         | 1"             | 6"             | 13/32"         | 28 GAUGE       | 3/4"DIA.X 2 3/4" | 5 3/4"                | 6"     | 7"     | 1"     | 1 3/4" | 3/4" | 3 1/2" | 13/32"         | 5/8"                                    | 140            |
| W12X26     | 3/4"DIA.X 5 1/2"     | 18 1/2"        | 9"             | 1 1/2"         | 1"             | 7"             | 1 3/4"         | 13/32"         | 18 1/2"           | 9"             | 1 1/2"         | 1"             | 7"             | 13/32"         | 28 GAUGE       | 3/4"DIA.X 2 3/4" | 6 1/2"                | 6"     | 7"     | 1"     | 1 3/4" | 3/4" | 3 1/2" | 13/32"         | 5/8"                                    | 176            |
| W14X30     | 1"DIA.X 6"           | 22"            | 9"             | 2"             | 1 1/2"         | 6"             | 2"             | 1 1/2"         | 22"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/2"         | 28 GAUGE       | 1"DIA.X 3"       | 6 3/4"                | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"     | 1 1/2"         | 5/8"                                    | 205            |
| W16X31     | 1"DIA.X 6"           | 24"            | 9"             | 2"             | 1 1/2"         | 6"             | 2"             | 1 1/2"         | 24"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/2"         | 28 GAUGE       | 1"DIA.X 3"       | 5 1/2"                | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"     | 1 1/2"         | 3/4"                                    | 223            |
| W18X35     | 1"DIA.X 6"           | 25"            | 9"             | 2"             | 1 1/2"         | 6"             | 2"             | 1 1/2"         | 25"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/2"         | 28 GAUGE       | 1"DIA.X 3"       | 6"                    | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"     | 1 1/2"         | 3/4"                                    | 243            |
| W18X40     | 1"DIA.X 6 1/2"       | 26"            | 9"             | 2"             | 1 1/2"         | 6"             | 2 1/4"         | 1 1/2"         | 26"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/2"         | 28 GAUGE       | 1"DIA.X 3 1/2"   | 6"                    | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"     | 1 1/2"         | 7/8"                                    | 278            |
| W21X44     | 1"DIA.X 7"           | 29"            | 9"             | 2"             | 1 1/2"         | 6"             | 2 1/2"         | 1 1/2"         | 29"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/2"         | 28 GAUGE       | 1"DIA.X 3 1/2"   | 6 1/2"                | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"     | 1 1/2"         | 7/8"                                    | 310            |



| FOUNDATION DATA * |               |                  |
|-------------------|---------------|------------------|
| FOOTING DIAMETER  | REINFORCEMENT | SPIRAL BAR       |
| 1'-6"             | 8 # 6 BARS    | #3 BAR, 6" PITCH |
| 2'                | 8 # 7 BARS    | #3 BAR, 6" PITCH |
| 2'-6"             | 8 # 9 BARS    | #3 BAR, 6" PITCH |
| 3'                | 8 # 11 BARS   | #3 BAR, 6" PITCH |
| 3'-6"             | 8 # 12 BARS   | #3 BAR, 6" PITCH |
| 4'                | 8 # 14 BARS   | #3 BAR, 6" PITCH |

\* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**GROUND MOUNTED SIGN SUPPORTS**


SHEET 2 OF 3  
**903D10**


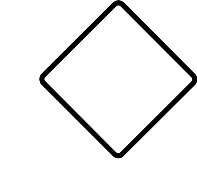
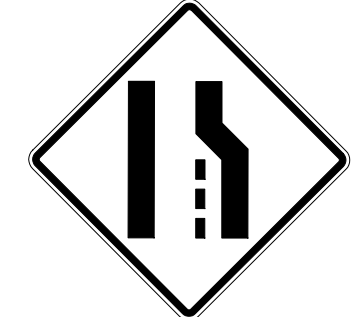
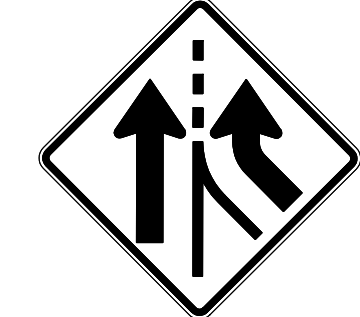
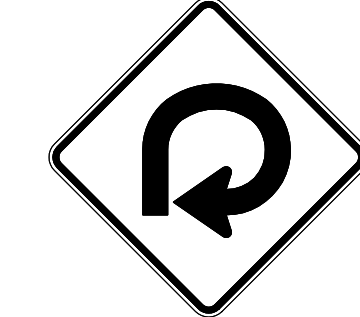
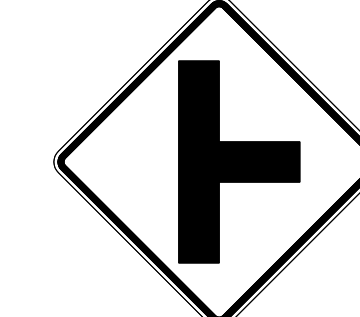
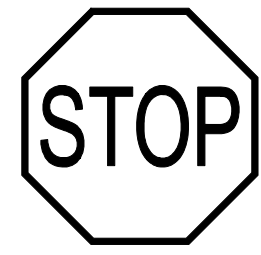


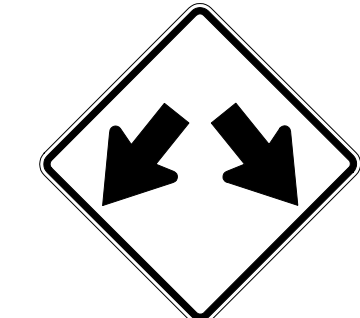
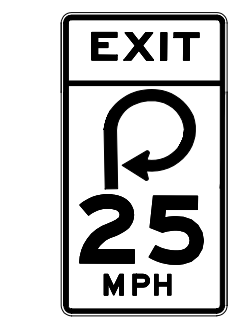
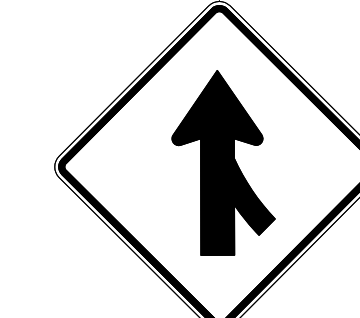


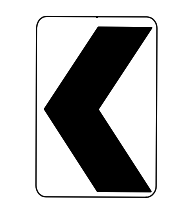


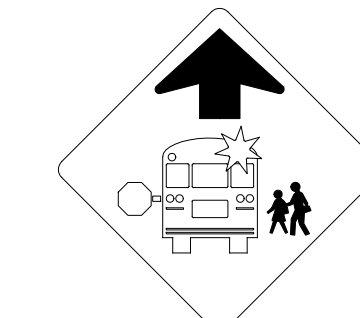


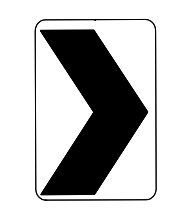

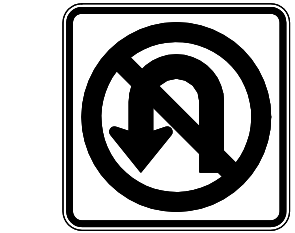



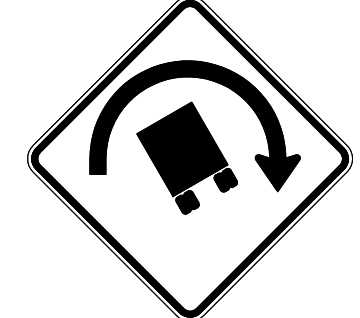
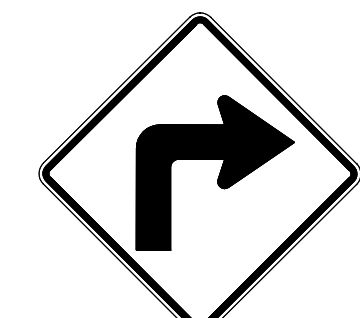


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1025 Wade Avenue  
 Raleigh, NC 27605  
 Tel: 919-789-9977  
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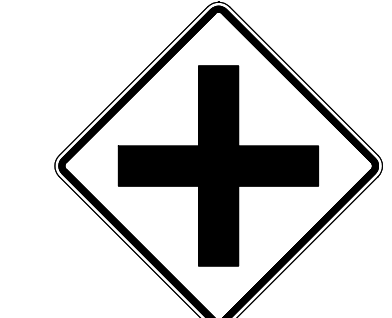
REVISED SIGNING  
 ROADWAY STANDARD DRAWING

5/13/2015 6:11:12 AM C:\transportation\TR13.017.06 NCDOT 2012 Traffic LSA\TR13.017.06 (R-2915A Signing & PMP)\Signing\Engseed 6-11-12.dgn

|   |                            |
|---|----------------------------|
| TIP NO.<br><b>R-2915A</b>   | SHEET NO.<br><b>SIGN-3</b> |
| APPROVED: <i>Joseph Kopaske</i><br>5/27/2015  |                            |
| SEAL<br> |                            |

|  |   |   |  |   |  |
|--|---|---|--|---|--|
| <p>401 QUANTITY REQ'D <u>4</u></p>  <p>36 X 48<br/>R2-1</p> <p>TWO "U" POSTS PER SIGN</p>                             | <p>406 QUANTITY REQ'D <u>3</u></p>  <p>18 X 18<br/>OM1-3</p> <p>MOUNT BELOW SIGN 403<br/>IN 2 INSTALLATIONS<br/>MOUNT BELOW SIGN 447<br/>IN 1 INSTALLATION</p>   | <p>411 QUANTITY REQ'D <u>2</u></p>  <p>48 X 48<br/>W4-2(R)</p> <p>TWO "U" POSTS PER SIGN</p>   | <p>416 QUANTITY REQ'D <u>1</u></p>  <p>48 X 48<br/>W4-3(R)</p> <p>TWO "U" POSTS PER SIGN</p>  | <p>421 QUANTITY REQ'D <u>1</u></p>  <p>36 X 36<br/>W1-15(R)</p> <p>ONE "U" POST PER SIGN</p> | <p>427 QUANTITY REQ'D <u>5</u></p>  <p>36 X 36<br/>W2-2(R)</p> <p>TWO "U" POSTS PER SIGN</p>  |
| <p>402 QUANTITY REQ'D <u>13</u></p>  <p>36 X 36<br/>R1-1</p> <p>TWO "U" POSTS PER SIGN</p>                            | <p>407 QUANTITY REQ'D <u>2</u></p>  <p>36 X 48<br/>W13-2</p> <p>TWO "U" POSTS PER SIGN</p>   | <p>412 QUANTITY REQ'D <u>2</u></p>  <p>36 X 36<br/>W1-13(L)</p> <p>ONE "U" POST PER SIGN</p>   | <p>417 QUANTITY REQ'D <u>10</u></p>  <p>36 X 36<br/>W12-1</p> <p>ONE "U" POST PER SIGN</p>    | <p>422 QUANTITY REQ'D <u>1</u></p>  <p>36 X 60<br/>W13-6</p> <p>TWO "U" POSTS PER SIGN</p>   | <p>428 QUANTITY REQ'D <u>2</u></p>  <p>48 X 48<br/>W4-1(R)</p> <p>TWO "U" POSTS PER SIGN</p>  |
| <p>403 QUANTITY REQ'D <u>2</u></p>  <p>36 X 48<br/>R4-7</p> <p>TWO "U" POSTS PER SIGN</p>                            | <p>408 QUANTITY REQ'D <u>5</u></p>  <p>24 X 24<br/>W13-1</p> <p>MOUNT BELOW SIGN 412<br/>IN 2 INSTALLATIONS<br/>MOUNT BELOW SIGN 415<br/>IN 1 INSTALLATION</p> <p>MOUNT BELOW SIGN 420<br/>IN 1 INSTALLATION<br/>MOUNT BELOW SIGN 421<br/>IN 1 INSTALLATION</p> | <p>413 QUANTITY REQ'D <u>8</u></p>  <p>30 X 36<br/>W1-8(L)</p> <p>ONE "U" POST PER SIGN</p>   | <p>418 QUANTITY REQ'D <u>2</u></p>  <p>36 X 60<br/>W13-7</p> <p>TWO "U" POSTS PER SIGN</p>   | <p>423 QUANTITY REQ'D <u>2</u></p>  <p>36 X 36<br/>W14-2</p> <p>ONE "U" POST PER SIGN</p>   | <p>430 QUANTITY REQ'D <u>1</u></p>  <p>36 X 36<br/>S3-1</p> <p>ONE "U" POST PER SIGN</p>     |
| <p>404 QUANTITY REQ'D <u>13</u></p>  <p>36 X 12<br/>R6-1(R)</p> <p>MOUNT ABOVE SIGN 402<br/>IN 13 INSTALLATIONS</p> | <p>409 QUANTITY REQ'D <u>2</u></p>  <p>24 X 24<br/>W13-1</p> <p>MOUNT BELOW SIGN 431<br/>IN 2 INSTALLATIONS</p>  | <p>414 QUANTITY REQ'D <u>11</u></p>  <p>30 X 36<br/>W1-8(L)</p> <p>ONE "U" POST PER SIGN</p> | <p>419 QUANTITY REQ'D <u>1</u></p>  <p>36 X 36<br/>W11-3</p> <p>ONE "U" POST PER SIGN</p>   | <p>425 QUANTITY REQ'D <u>1</u></p>  <p>36 X 36<br/>R3-4</p> <p>ONE "U" POST PER SIGN</p>   | <p>431 QUANTITY REQ'D <u>2</u></p>  <p>36 X 36<br/>W1-1(L)</p> <p>ONE "U" POST PER SIGN</p> |
| <p>405 QUANTITY REQ'D <u>11</u></p>  <p>54 X 18<br/>R6-1(L)</p> <p>TWO "U" POSTS PER SIGN</p>                       | <p>410 QUANTITY REQ'D <u>1</u></p>  <p>36 X 48<br/>W13-3</p> <p>TWO "U" POSTS PER SIGN</p>   | <p>415 QUANTITY REQ'D <u>1</u></p>  <p>36 X 36<br/>W1-13(R)</p> <p>ONE "U" POST PER SIGN</p> | <p>420 QUANTITY REQ'D <u>1</u></p>  <p>36 X 36<br/>W1-1(R)</p> <p>ONE "U" POST PER SIGN</p> | <p>426 QUANTITY REQ'D <u>1</u></p>  <p>36 X 36<br/>W14-1</p> <p>ONE "U" POST PER SIGN</p>  | <p>433 QUANTITY REQ'D <u>22</u></p>  <p>36 X 36<br/>R5-1</p> <p>ONE "U" POST PER SIGN</p>   |


434 QUANTITY REQ'D 1



36 X 36  
W2-1

TWO "U" POSTS PER SIGN


435 QUANTITY REQ'D 13



36 X 24  
R5-1A

ONE "U" POST PER SIGN

436 QUANTITY REQ'D 9




54 X 18  
R6-1(R)

TWO "U" POSTS PER SIGN

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TYPE "E" SIGNS

5/22/2015 9:42:11 AM C:\Transportation\TR13.017.00 NCDOT 2012 Traffic LSA\TR13.017.06 (R-2915A) Signing & PMP\Signing\Engseed 6-11-12.dgn ikopaske

|   |                      |
|---|----------------------|
| TIP NO.<br>R-2915A  | SHEET NO.<br>SIGN-3A |
| APPROVED: <u>Joseph Koparick</u><br><small>—SEPI—</small>                                   |                      |
| DATE: 5/27/2015   |                      |
| SEAL<br> |                      |

437 QUANTITY REQ'D ..1..

**Old 421**

24" X 8"  
W16-8P

(SEE SIGN-4G FOR SIGN DESIGN)

MOUNT BELOW SIGN 434 IN 1 INSTALLATION

442 QUANTITY REQ'D ..1..


**Idlewild Rd**

36" X 8"  
W16-8P

(SEE SIGN-4H FOR SIGN DESIGN)

MOUNT BELOW SIGN 427 IN 1 INSTALLATION

447 QUANTITY REQ'D ..1..



24 X 30  
R4-7

MOUNT ON BARRIER SIGN SUPPORT

501

**NORTH** 2 - 36" X 18"  
**421**

**SOUTH** 2 - 45" X 36"  
**221**

TWO "U" POSTS PER SIGN

521

**SOUTH** 1 - 36" X 18"  
**421**

1 - 45" X 36"

TWO "U" POSTS PER SIGN

438 QUANTITY REQ'D ..1..


**Heg Greene Rd**

42" X 8"  
W16-8P

(SEE SIGN-4G FOR SIGN DESIGN)

MOUNT BELOW SIGN 427 IN 1 INSTALLATION


443 QUANTITY REQ'D ..2..



48 X 48  
W7-1a

TWO "U" POSTS PER SIGN

448 QUANTITY REQ'D ..1..

**ONE WAY** 

54 X 18  
R6-1(R)

MOUNT ON TWO (2) BARRIER SIGN SUPPORTS

502 505 508 513 517

**NORTH** 1 - 36" X 18"  
**221**

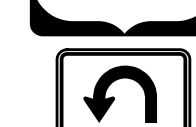
1 - 45" X 36"

TWO "U" POSTS PER SIGN

506 510 514 518

**NORTH** 1 - 36" X 18"  
**221**

1 - 45" X 36"

 1 - 30" X 21"  
(SEE SIGN-4I FOR SIGN DESIGN)

TWO "U" POSTS PER SIGN

439 QUANTITY REQ'D ..1..

**Gap Creek Rd**

36" X 8"  
W16-8P

(SEE SIGN-4H FOR SIGN DESIGN)

MOUNT BELOW SIGN 427 IN 1 INSTALLATION

444 QUANTITY REQ'D ..1..

**1 MILE AHEAD**

30" X 24"

(SEE SIGN-4I FOR SIGN DESIGN)

MOUNT BELOW SIGN 443 IN 1 INSTALLATION

449 QUANTITY REQ'D ..1..

**DO NOT ENTER**

36 X 36  
R5-1

MOUNT ON BARRIER SIGN SUPPORT

504 509 512 516 520

**SOUTH** 1 - 36" X 18"  
**221**

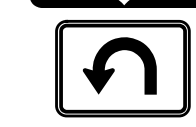
1 - 45" X 36"

TWO "U" POSTS PER SIGN

503 507 511 515 519

**SOUTH** 1 - 36" X 18"  
**221**

1 - 45" X 36"

 1 - 30" X 21"  
(SEE SIGN-4I FOR SIGN DESIGN)

TWO "U" POSTS PER SIGN

440 QUANTITY REQ'D ..1..

**W Pine Swamp Rd**

48" X 8"  
W16-8P

(SEE SIGN-4H FOR SIGN DESIGN)

MOUNT BELOW SIGN 427 IN 1 INSTALLATION

445 QUANTITY REQ'D ..1..

**1/2 MILE AHEAD**

30" X 24"

(SEE SIGN-4I FOR SIGN DESIGN)

MOUNT BELOW SIGN 443 IN 1 INSTALLATION

450 QUANTITY REQ'D ..1..

**WRONG WAY**

36 X 24  
R5-1A

MOUNT ON BARRIER SIGN SUPPORT

451 QUANTITY REQ'D ..1..

**STOP**

36 X 36  
R1-1

ONE "U" POST PER SIGN

451 QUANTITY REQ'D ..1..


**Cranberry Springs Rd**

36" X 15"  
W16-8P

(SEE SIGN-4H FOR SIGN DESIGN)

MOUNT BELOW SIGN 427 IN 1 INSTALLATION

446 QUANTITY REQ'D ..2..



36 X 36  
W4-2(R)

MOUNT ON BARRIER SIGN SUPPORT

451 QUANTITY REQ'D ..1..

**STOP**

36 X 36  
R1-1

ONE "U" POST PER SIGN

451 QUANTITY REQ'D ..1..

**Cranberry Springs Rd**

36" X 15"  
W16-8P

(SEE SIGN-4H FOR SIGN DESIGN)

MOUNT BELOW SIGN 427 IN 1 INSTALLATION

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TYPE "E" & "F" SIGNS

5/13/2015 G:\Transportation\TR13\017.00 NCDOT 2012 Traffic LSA\TR13\017.06 (R-2915A) Signing & PMP\Signing\Engseed 6-11-12.dgn



|   |                     |
|---|---------------------|
| TIP NO.<br>R-2915A  | SHEET NO.<br>SIGN-4 |
| APPROVED: <u>Joseph Kopaskie</u><br><small>Professional Engineer<br/>No. 029669</small> |                     |
| DATE: 5/27/2015   |                     |
|   |                     |

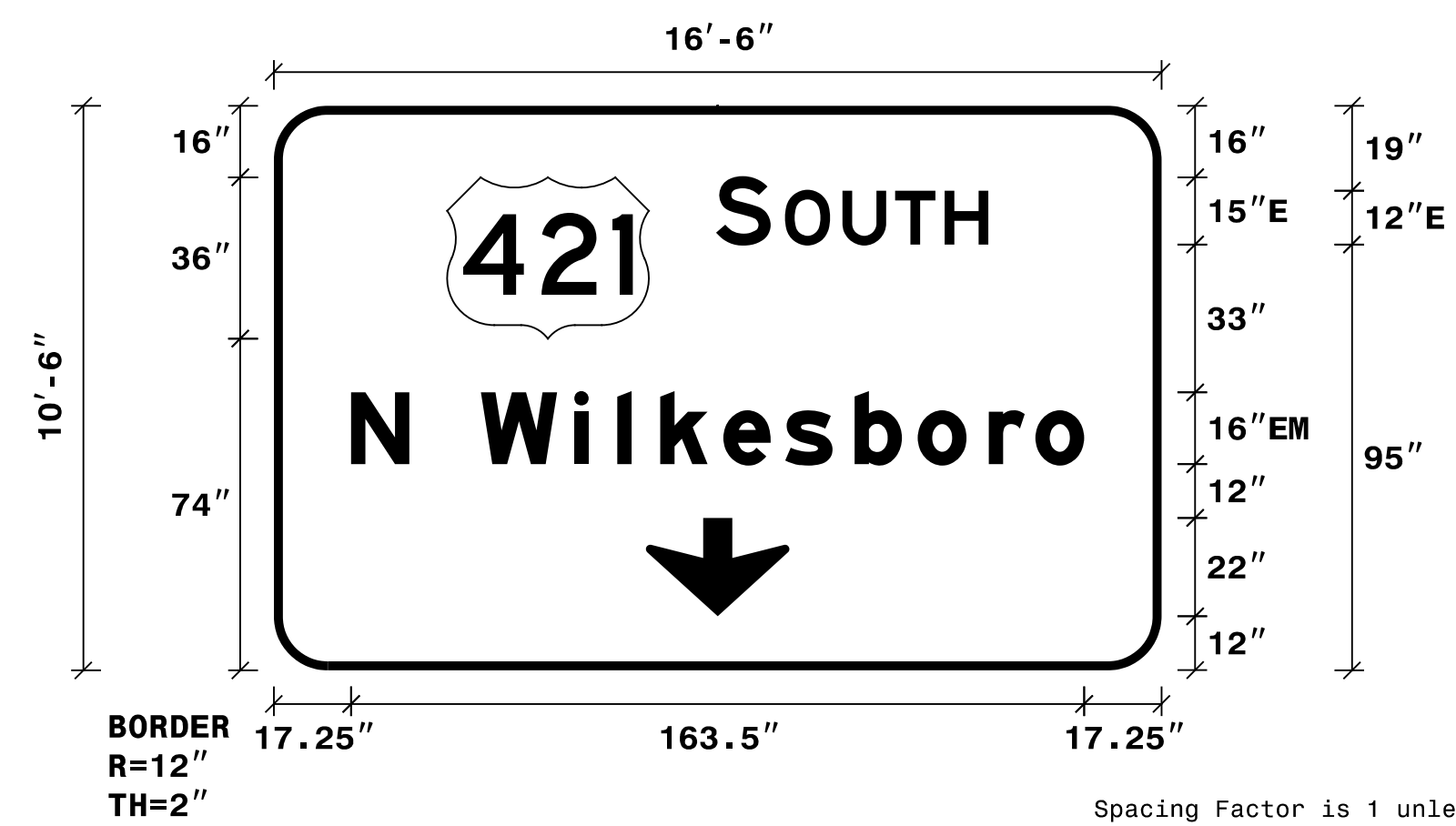
SIGN NUMBER: 1A  
TYPE: A  
QUANTITY: 1  
SIGN WIDTH: 16'-6"  
HEIGHT: 10'-0"  
TOTAL AREA: 165.0 Sq.Ft.  
BORDER TYPE: FLUSH  
RECESS: 0"  
WIDTH: 2"  
RADII: 12"  
NO. Z BARS: 3  
LENGTH: 190.0

BACKG COLOR: Green  
COPY COLOR: White

| SYMBOL  | X    | Y    | WID | HT |
|---------|------|------|-----|----|
| M1_4    | 38.6 | 68.3 | 45  | 36 |
| ARDDOWN | 83   | 6.3  | 32  | 22 |
|         |      |      |     |    |
|         |      |      |     |    |
|         |      |      |     |    |

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R Drayton  
PROJECT ID: R-2915A  
CHECKED BY: J Kopaskie  
DIV: 11  
DATE: Apr 08, 2015



USE NOTES: 1,2,3

- Legend and border(except those that are colored black) shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS

Letter spacings are to start of next letter

| Letter spacings are to start of next letter |      |     |      |      |     |      |      |      |      |      |      |      |      | Series/Size<br>Text Length |                  |
|---|------|-----|------|------|-----|------|------|------|------|------|------|------|------|----------------------------|------------------|
| S   | O    | U   | T    | H    |     |      |      |      |      |      |      |      |      |                            | E 2000<br>60.7   |
| 98.6  | 12.2 | 3.2 | 12.8 | 11.8 | 11  | 9.7  | 38.6 |      |      |      |      |      |      |                            |                  |
| N   | W    | i   | l    | k    | e   | s    | b    | o    | r    | o    |      |      |      |                            | EM 2000<br>163.5 |
| 17.2  | 13   | 16  | 20.8 | 9.6  | 9.6 | 14.1 | 13.8 | 15.5 | 14.1 | 15.8 | 10.4 | 10.9 | 17.2 |                            |                  |

Spacing Factor is 1 unless specified otherwise

FILENAME: Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

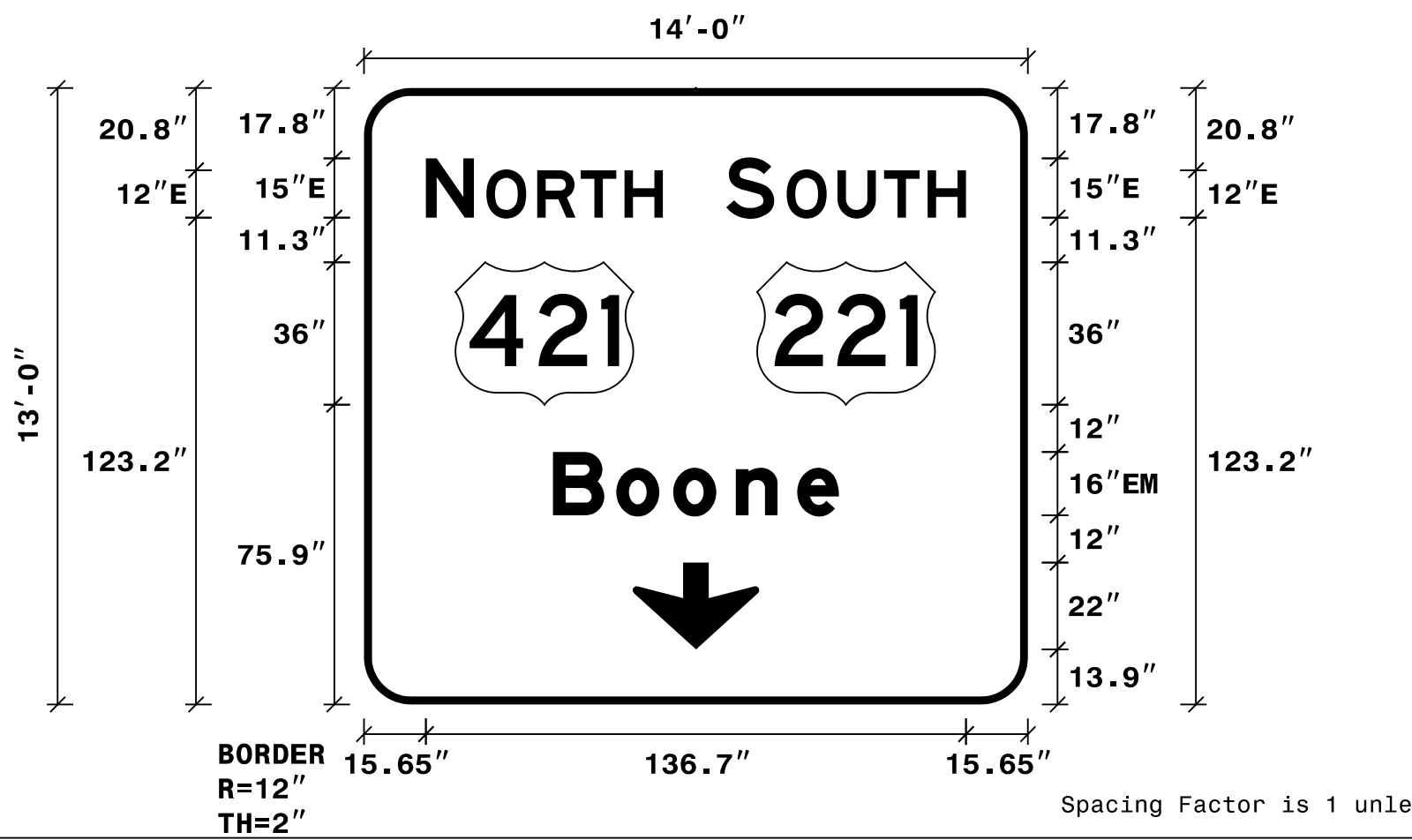
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TYPE: A  
QUANTITY: 1  
SIGN WIDTH: 14'-0"  
HEIGHT: 13'-0"  
TOTAL AREA: 182.0 Sq.Ft.  
BORDER TYPE: FLUSH  
RECESS: 0"  
WIDTH: 2"  
RADII: 12"  
NO. Z BARS: 4  
LENGTH: 160.0

BACKG COLOR: Green  
COPY COLOR: White

| SYMBOL  | X    | Y    | WID | HT |
|---------|------|------|-----|----|
| M1_4    | 23.1 | 75.9 | 45  | 36 |
| M1_4    | 99.5 | 75.9 | 45  | 36 |
| ARDDOWN | 68   | 13.9 | 32  | 22 |
|         |      |      |     |    |
|         |      |      |     |    |

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R Drayton  
PROJECT ID: R-2915A  
CHECKED BY: J Kopaskie  
DIV: 11  
DATE: Apr 08, 2015



USE NOTES: 1,2,3

- Legend and border(except those that are colored black) shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS

Letter spacings are to start of next letter

| Letter spacings are to start of next letter |      |      |      |      |      |      |      |  |  |  |  |  |  | Series/Size<br>Text Length |                 |
|---|------|------|------|------|------|------|------|--|--|--|--|--|--|----------------------------|-----------------|
| N   | O    | R    | T    | H    |      |      |      |  |  |  |  |  |  |                            | E 2000<br>59.9  |
| 15.7  | 12.2 | 3.1  | 12.8 | 11   | 11   | 9.7  | 92.4 |  |  |  |  |  |  |                            |                 |
| S   | O    | U    | T    | H    |      |      |      |  |  |  |  |  |  |                            | E 2000<br>60.7  |
| 91.6  | 12.2 | 3.2  | 12.8 | 11.8 | 11   | 9.7  | 15.7 |  |  |  |  |  |  |                            |                 |
| B   | o    | o    | n    | e    |      |      |      |  |  |  |  |  |  |                            | EM 2000<br>72.3 |
| 47.8  | 16   | 14.4 | 15.8 | 15.5 | 10.6 | 47.8 |      |  |  |  |  |  |  |                            |                 |


Spacing Factor is 1 unless specified otherwise

FILENAME: Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

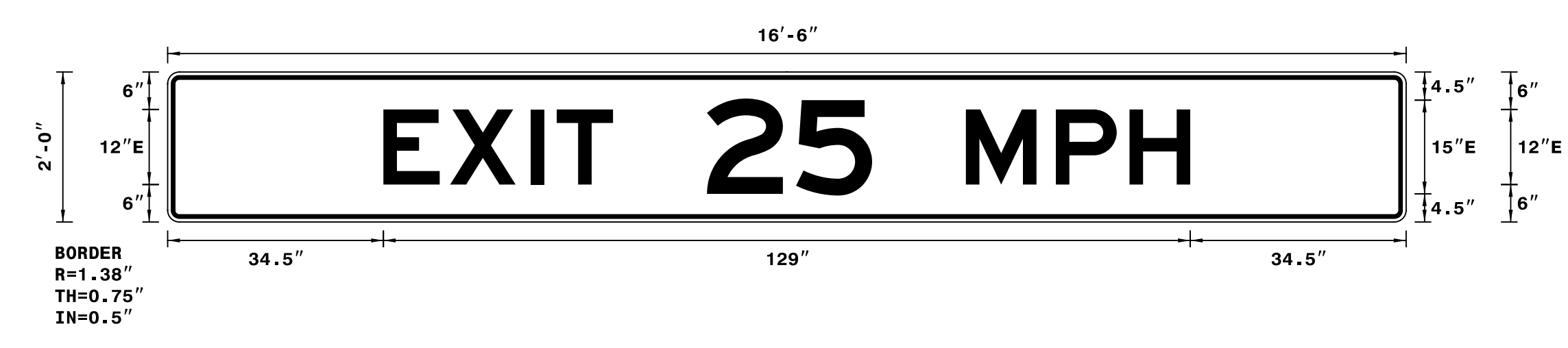
5/13/2015 8:17:00 AM C:\Transportation\TR13\017.00 NCDOT 2012 Traffic LSA\TR13\017.00 (R-2915A) Signing & PMP\Signing\Engseed 6-11-12.dgn

1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9977  
Fax: 919-789-9591  
License: C-2197

SIGN DESIGNS

|   |                             |
|---|-----------------------------|
| TIP NO.<br><b>R-2915A</b>   | SHEET NO.<br><b>SIGN-4A</b> |
| APPROVED: <i>Joseph Kopaskie</i><br>5/27/2015   |                             |
| SEAL<br> |                             |

|  |   |                                   |                    |
|--|---|-----------------------------------|--------------------|
| SIGN NUMBER: 1B<br>TYPE: A<br>QUANTITY: 1<br>SIGN WIDTH: 16'-6"<br>HEIGHT: 2'-0"<br>TOTAL AREA: 33.0 Sq.Ft.<br>BORDER TYPE: FLUSH<br>RECESS: 0.5"<br>WIDTH: 0.75"<br>RADII: 1.38"<br>NO. Z BARS: 2<br>LENGTH: 190.0<br>MAT'L: 0.125" (3.2 mm) ALUMINUM | DESIGN BY: R Drayton<br>PROJECT ID: R-2915A | CHECKED BY: J Kopaskie<br>DIV: 11 | DATE: Apr 27, 2015 |
|--|---|-----------------------------------|--------------------|



Spacing Factor is 1 unless specified otherwise

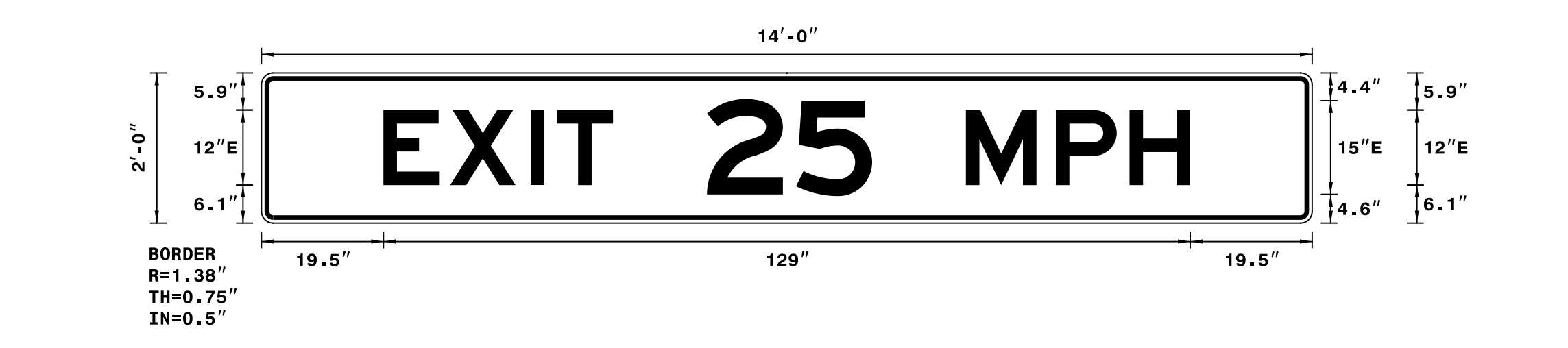
LETTER POSITIONS

Letter spacings are to start of next letter

| Letter Spacings |      |      |     |   |    |      |      |    |      |      |     |      | Series/Size |
|-----------------|------|------|-----|---|----|------|------|----|------|------|-----|------|-------------|
| E               | X    | I    | T   | 2 | 5  | M    | P    | H  |      |      |     |      | Text Length |
| 34.5            | 10.7 | 12.8 | 4.2 | 9 | 15 | 14.2 | 12.2 | 15 | 14.4 | 11.8 | 9.7 | 34.5 | E 2000      |
|                 |      |      |     |   |    |      |      |    |      |      |     |      | 129         |

FILENAME: Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

|  |   |                                   |                    |
|--|---|-----------------------------------|--------------------|
| SIGN NUMBER: 2B<br>TYPE: A<br>QUANTITY: 1<br>SIGN WIDTH: 14'-0"<br>HEIGHT: 2'-0"<br>TOTAL AREA: 28.0 Sq.Ft.<br>BORDER TYPE: FLUSH<br>RECESS: 0.5"<br>WIDTH: 0.75"<br>RADII: 1.38"<br>NO. Z BARS: 2<br>LENGTH: 160.0<br>MAT'L: 0.125" (3.2 mm) ALUMINUM | DESIGN BY: R Drayton<br>PROJECT ID: R-2915A | CHECKED BY: J Kopaskie<br>DIV: 11 | DATE: Apr 27, 2015 |
|--|---|-----------------------------------|--------------------|



Spacing Factor is 1 unless specified otherwise


LETTER POSITIONS

Letter spacings are to start of next letter

| Letter Spacings |      |      |     |   |    |      |      |    |      |      |     |      | Series/Size |
|-----------------|------|------|-----|---|----|------|------|----|------|------|-----|------|-------------|
| E               | X    | I    | T   | 2 | 5  | M    | P    | H  |      |      |     |      | Text Length |
| 19.5            | 10.7 | 12.8 | 4.2 | 9 | 15 | 14.2 | 12.2 | 15 | 14.4 | 11.8 | 9.7 | 19.5 | E 2000      |
|                 |      |      |     |   |    |      |      |    |      |      |     |      | 129         |

FILENAME: Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

5/13/2015 9:11:12 AM C:\Users\jdrayton\Documents\Projects\2012 Traffic\SA\TR13\017.06 (R-2915A) Signing & PMP\Signing\Engseed 6-11-12.dgn



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SIGN DESIGNS

|                                  |           |
|----------------------------------|-----------|
| TIP NO.                          | SHEET NO. |
| R-2915A                          | SIGN-4B   |
| APPROVED: <i>Joseph Kopaskie</i> |           |
| DATE: 5/27/2015                  |           |
| SEAL                             |           |
|                                  |           |

**SIGN NUMBER:** 101 & 108  
**TYPE:** A  
**QUANTITY:** 2  
**SIGN WIDTH:** 18'-6"  
**HEIGHT:** 10'-6"  
**TOTAL AREA:** 194.3 Sq.Ft.

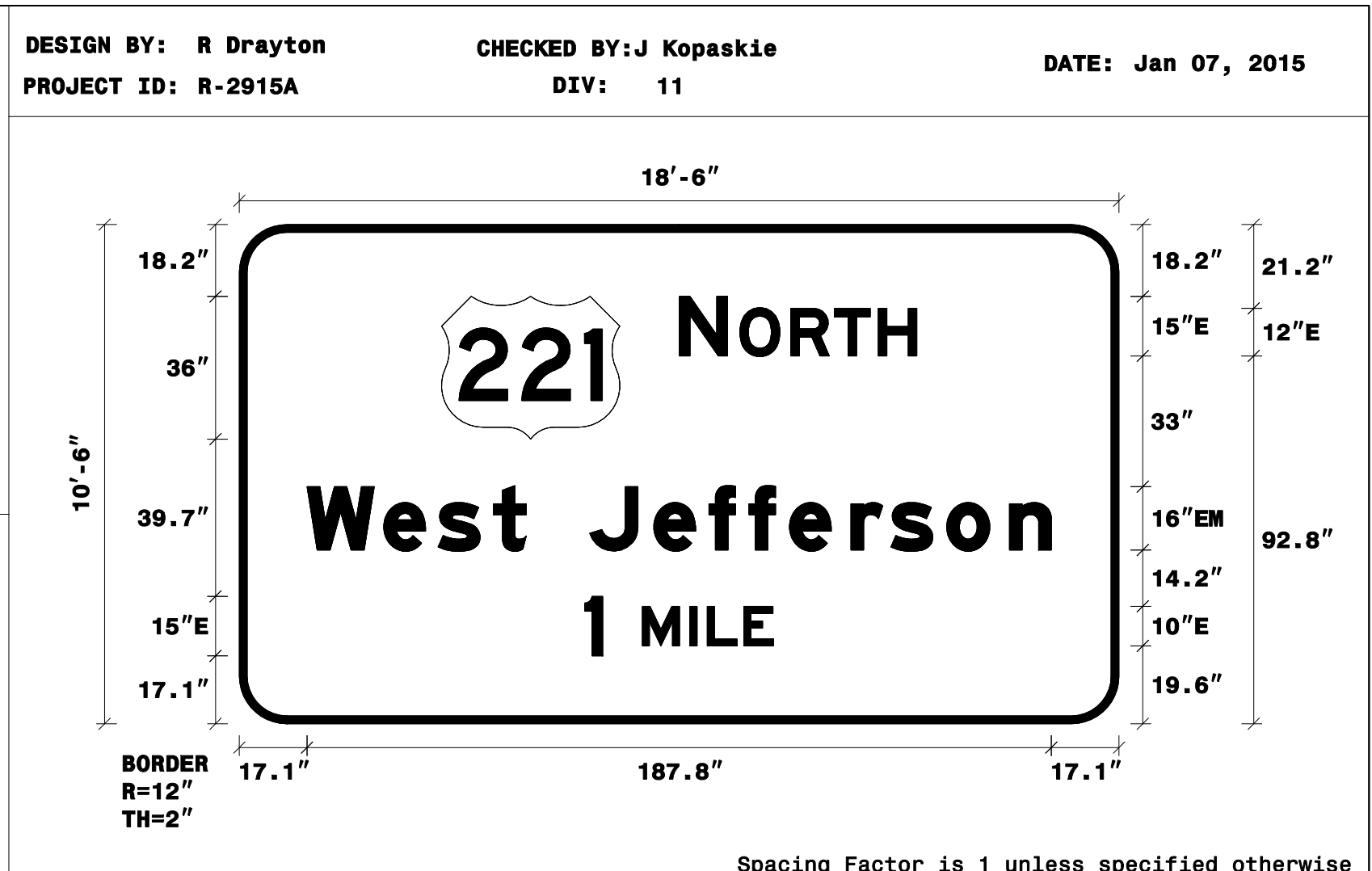
**BACKG COLOR:** Green  
**COPY COLOR:** White

| SYMBOL | X  | Y    | WID | HT |
|--------|----|------|-----|----|
| M1_4   | 51 | 71.8 | 45  | 36 |

**BORDER TYPE:** FLUSH  
**RECESS:** 0"  
**WIDTH:** 2"  
**RADII:** 12"

**NO. Z BARS:** 3  
**LENGTH:** 214.0

**MAT'L:** 0.125" (3.2 mm) ALUMINUM



**USE NOTES:**

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

**LETTER POSITIONS**

Letter spacings are to start of next letter

|      | N    | O    | R    | T   | H   |      | Series/Size Text Length |        |      |      |      |      |      |      |         |        |      |
|------|------|------|------|-----|-----|------|-------------------------|--------|------|------|------|------|------|------|---------|--------|------|
| 111  | 12.2 | 3.1  | 12.8 | 11  | 11  | 9.7  | 51                      | E 2000 | 59.9 |      |      |      |      |      |         |        |      |
|      | W    | e    | s    | t   | J   | e    | f                       | f      | e    | r    | s    | o    | n    |      | EM 2000 | 187.8  |      |
| 17.1 | 19.4 | 13.8 | 13.9 | 8.3 | 16  | 16.2 | 13.9                    | 10.1   | 10.2 | 15.5 | 10.1 | 14.1 | 15.8 | 10.6 | 17.1    |        |      |
|      | 1    | M    | I    | L   | E   |      |                         |        |      |      |      |      |      |      |         | E 2000 | 47.6 |
| 87.2 | 4.5  | 10   | 12   | 4.4 | 9.2 | 7.5  | 87.2                    |        |      |      |      |      |      |      |         |        |      |

FILENAME: Sign Designs  
 NORTH CAROLINA D.O.T. SIGN DETAIL

**SIGN NUMBER:** 105  
**TYPE:** A  
**QUANTITY:** 1  
**SIGN WIDTH:** 9'-6"  
**HEIGHT:** 6'-0"  
**TOTAL AREA:** 57.0 Sq.Ft.

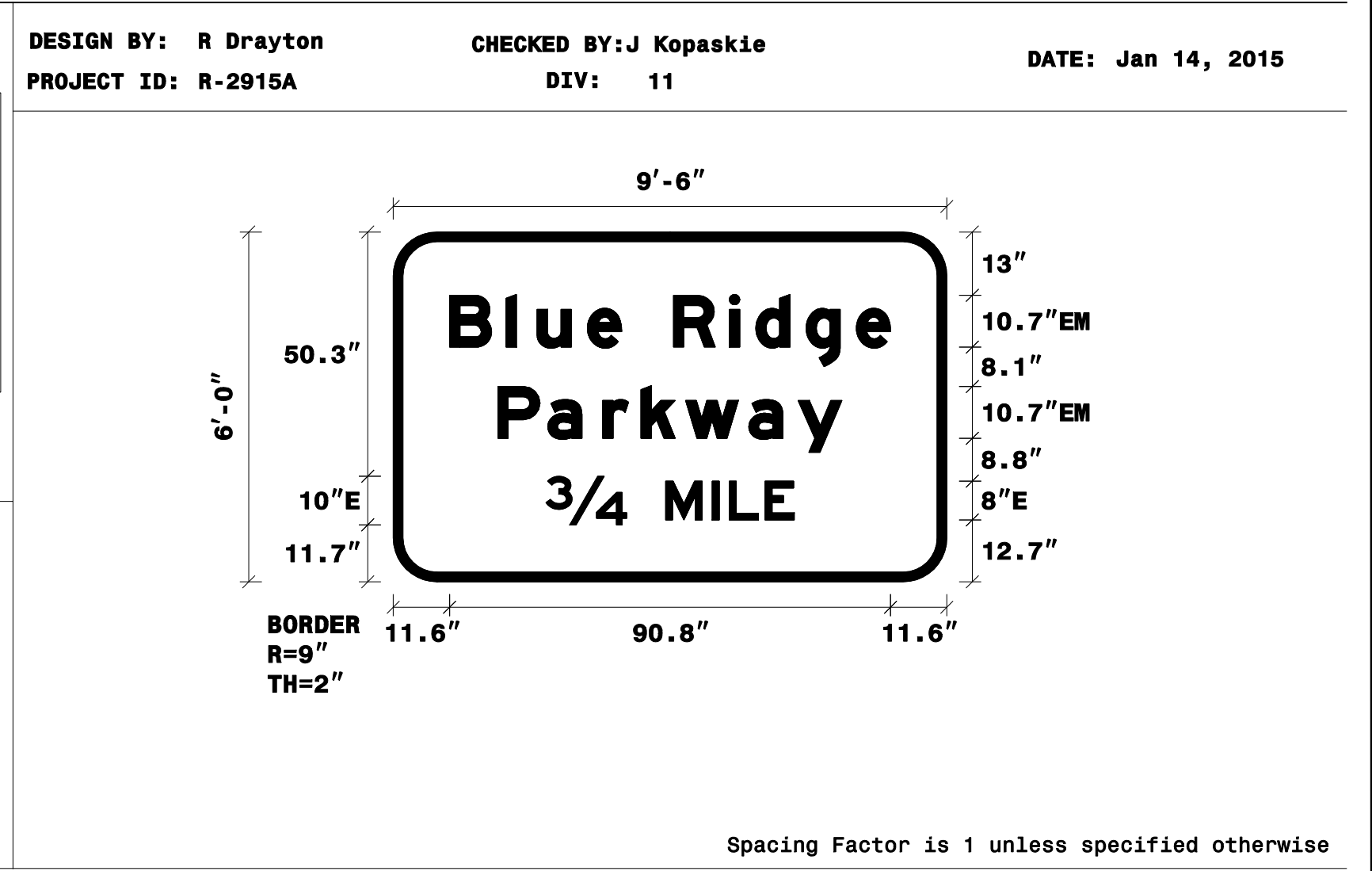
**BACKG COLOR:** Brown  
**COPY COLOR:** White

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
|        |   |   |     |    |

**BORDER TYPE:** FLUSH  
**RECESS:** 0"  
**WIDTH:** 2"  
**RADII:** 9"

**NO. Z BARS:** 2  
**LENGTH:** 106.0

**MAT'L:** 0.125" (3.2 mm) ALUMINUM



**USE NOTES:** 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

**LETTER POSITIONS**

Letter spacings are to start of next letter

|      | B    | l    | u    | e   | R    | i    | d    | g    | e    |   | Series/Size Text Length |         |      |
|------|------|------|------|-----|------|------|------|------|------|---|-------------------------|---------|------|
| 11.6 | 11.6 | 6.4  | 10.3 | 7   | 10.7 | 11.5 | 5.4  | 10.3 | 10.3 | 7 | 11.6                    | EM 2000 | 90.8 |
|      | P    | a    | r    | k   | w    | a    | y    |      |      |   |                         | EM 2000 | 70.8 |
| 21.6 | 10.2 | 11.3 | 7.9  | 9.2 | 13   | 10.1 | 9.1  | 21.6 |      |   |                         | E 2000  | 51.1 |
|      | 3/4  | M    | I    | L   | E    |      |      |      |      |   |                         |         |      |
| 31.4 | 16.7 | 8    | 9.6  | 3.5 | 7.4  | 6    | 31.4 |      |      |   |                         |         |      |

FILENAME: Sign Designs  
 NORTH CAROLINA D.O.T. SIGN DETAIL

**SIGN NUMBER:** 103 & 106  
**TYPE:** A  
**QUANTITY:** 2  
**SIGN WIDTH:** 18'-6"  
**HEIGHT:** 11'-6"  
**TOTAL AREA:** 212.8 Sq.Ft.

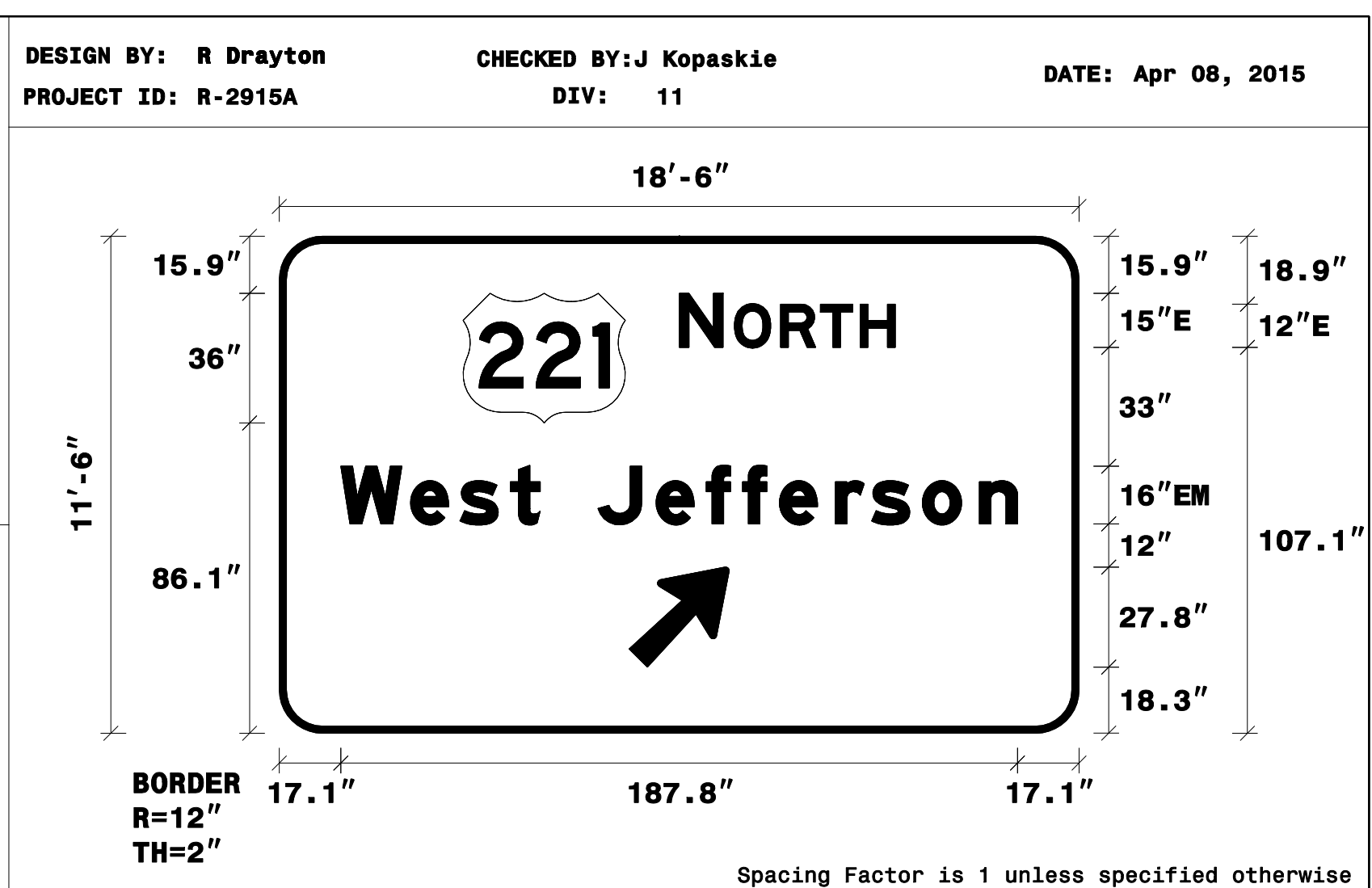
**BACKG COLOR:** Green  
**COPY COLOR:** White

| SYMBOL    | X    | Y    | WID  | HT   |
|-----------|------|------|------|------|
| M1_4      | 51   | 86.1 | 45   | 36   |
| AR_Type A | 97.1 | 18.4 | 22.4 | 35.3 |

**BORDER TYPE:** FLUSH  
**RECESS:** 0"  
**WIDTH:** 2"  
**RADII:** 12"

**NO. Z BARS:** 3  
**LENGTH:** 214.0

**MAT'L:** 0.125" (3.2 mm) ALUMINUM



**USE NOTES:** 1,2,3

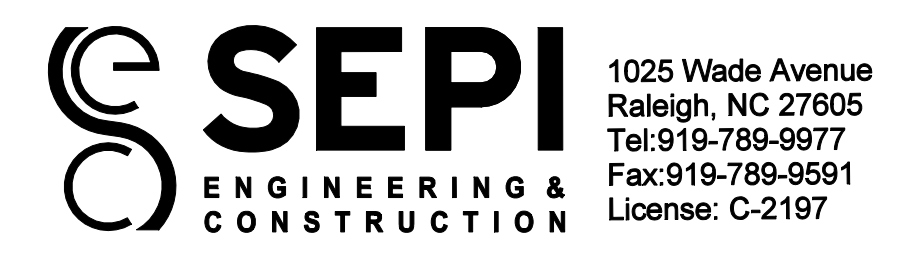
- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

**LETTER POSITIONS**

Letter spacings are to start of next letter

|      | N    | O    | R    | T   | H  |      | Series/Size Text Length |        |      |      |      |      |      |      |         |       |
|------|------|------|------|-----|----|------|-------------------------|--------|------|------|------|------|------|------|---------|-------|
| 111  | 12.2 | 3.1  | 12.8 | 11  | 11 | 9.7  | 51                      | E 2000 | 59.9 |      |      |      |      |      |         |       |
|      | W    | e    | s    | t   | J  | e    | f                       | f      | e    | r    | s    | o    | n    |      | EM 2000 | 187.8 |
| 17.1 | 19.4 | 13.8 | 13.9 | 8.3 | 16 | 16.2 | 13.9                    | 10.1   | 10.2 | 15.5 | 10.1 | 14.1 | 15.8 | 10.6 | 17.1    |       |

FILENAME: Sign Designs  
 NORTH CAROLINA D.O.T. SIGN DETAIL



**SIGN DESIGNS**

5/22/2015 9:47:34 AM g:\transportation\TR13.017.00 NCDOT 2012 Traffic LSA\TR13.017.06 (R-2915A) Signing & PMP\Signing\Engseed 6-11-12.dgn J.Kopaskie

|   |                      |
|---|----------------------|
| TIP NO.<br>R-2915A                            | SHEET NO.<br>SIGN-4C |
| APPROVED: <i>Joseph Kopaskie</i><br>5/27/2015 |                      |
| SEAL  |                      |

**SIGN NUMBER:** 110  
**TYPE:** A  
**QUANTITY:** 1

**BACKG COLOR:** Green  
**COPY COLOR:** White

| SYMBOL | X    | Y    | WID | HT |
|--------|------|------|-----|----|
| M1_4   | 26.6 | 108  | 45  | 36 |
| M1_4   | 102  | 108  | 45  | 36 |
| M1_4   | 26.6 | 29.7 | 45  | 36 |

**SIGN WIDTH:** 14'-0"  
**HEIGHT:** 15'-6"  
**TOTAL AREA:** 217 Sq.Ft.

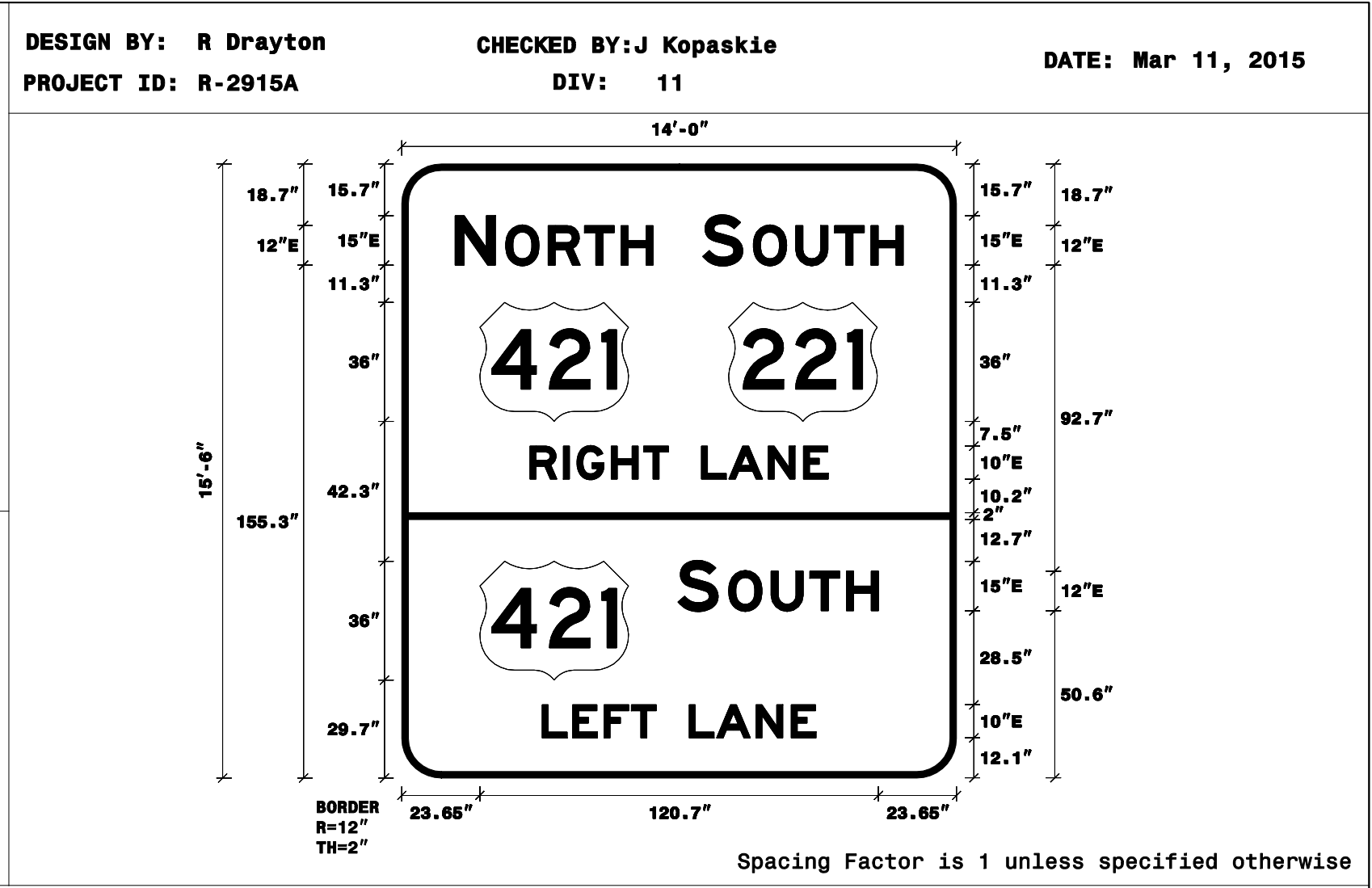
**BORDER TYPE:** FLUSH  
**RECESS:** 0"  
**WIDTH:** 2"  
**RADII:** 12"

**NO. Z BARS:** 6  
**LENGTH:** 166.0

**MAT'L:** 0.125" (3.2 mm) ALUMINUM

**USE NOTES:** 1,2,3

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.



**LETTER POSITIONS**

Letter spacings are to start of next letter

|  | N    | O    | R   | T    | H  | Series/Size |
|--|------|------|-----|------|----|-------------|
|  | 19.2 | 12.2 | 3.1 | 12.8 | 11 | E 2000      |
|  |      |      |     |      |    | 59.9        |
|  |      |      |     |      |    | E 2000      |
|  |      |      |     |      |    | 60.7        |
|  |      |      |     |      |    | E 2000      |
|  |      |      |     |      |    | 90.3        |
|  |      |      |     |      |    | E 2000      |
|  |      |      |     |      |    | 60.7        |
|  |      |      |     |      |    | E 2000      |
|  |      |      |     |      |    | 82.9        |

FILENAME: Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

**SIGN NUMBER:** 111  
**TYPE:** A  
**QUANTITY:** 1

**BACKG COLOR:** Green  
**COPY COLOR:** White

| SYMBOL | X    | Y    | WID | HT |
|--------|------|------|-----|----|
| M1_4   | 76.5 | 99.6 | 45  | 36 |

**SIGN WIDTH:** 16'-6"  
**HEIGHT:** 13'-0"  
**TOTAL AREA:** 214.5 Sq.Ft.

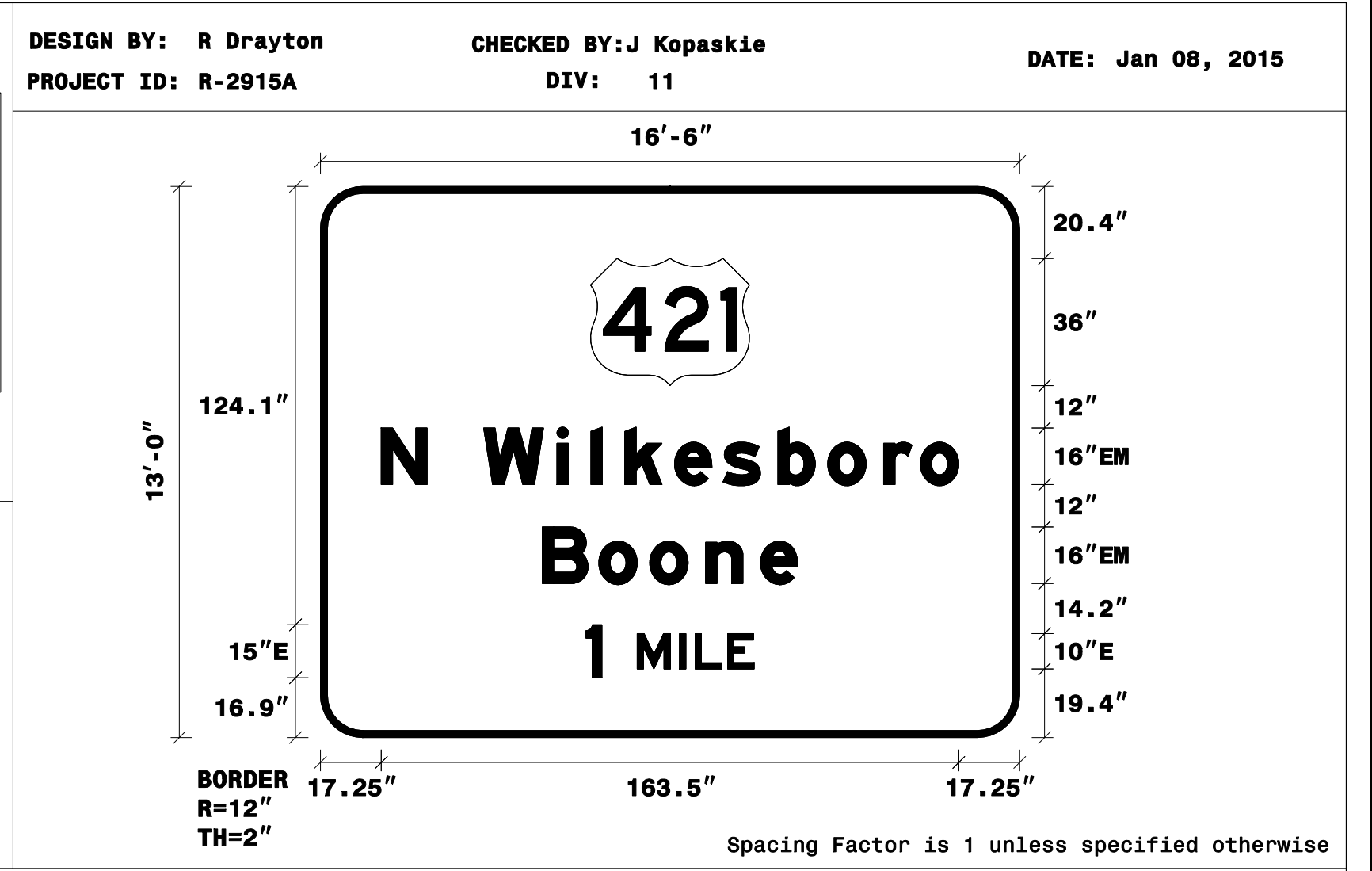
**BORDER TYPE:** FLUSH  
**RECESS:** 0"  
**WIDTH:** 2"  
**RADII:** 12"

**NO. Z BARS:** 4  
**LENGTH:** 190.0

**MAT'L:** 0.125" (3.2 mm) ALUMINUM

**USE NOTES:** 1,2,3

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

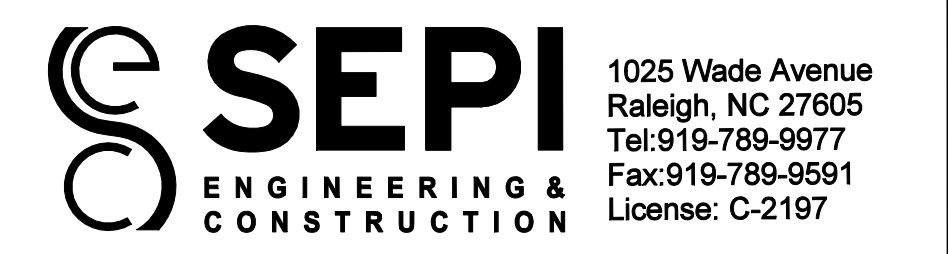


**LETTER POSITIONS**

Letter spacings are to start of next letter

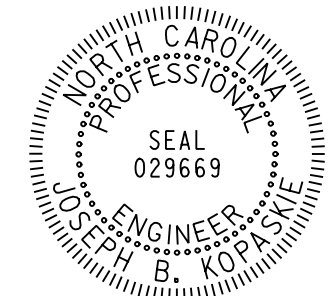
|  | N    | W  | i  | l    | k   | e   | s    | b    | o    | r    | o    | Series/Size |
|--|------|----|----|------|-----|-----|------|------|------|------|------|-------------|
|  | 17.2 | 13 | 16 | 20.8 | 9.6 | 9.6 | 14.1 | 13.8 | 15.5 | 14.1 | 15.8 | EM 2000     |
|  |      |    |    |      |     |     |      |      |      |      |      | 163.5       |
|  |      |    |    |      |     |     |      |      |      |      |      | EM 2000     |
|  |      |    |    |      |     |     |      |      |      |      |      | 72.3        |
|  |      |    |    |      |     |     |      |      |      |      |      | E 2000      |
|  |      |    |    |      |     |     |      |      |      |      |      | 47.6        |

FILENAME: Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL



**SIGN DESIGNS**

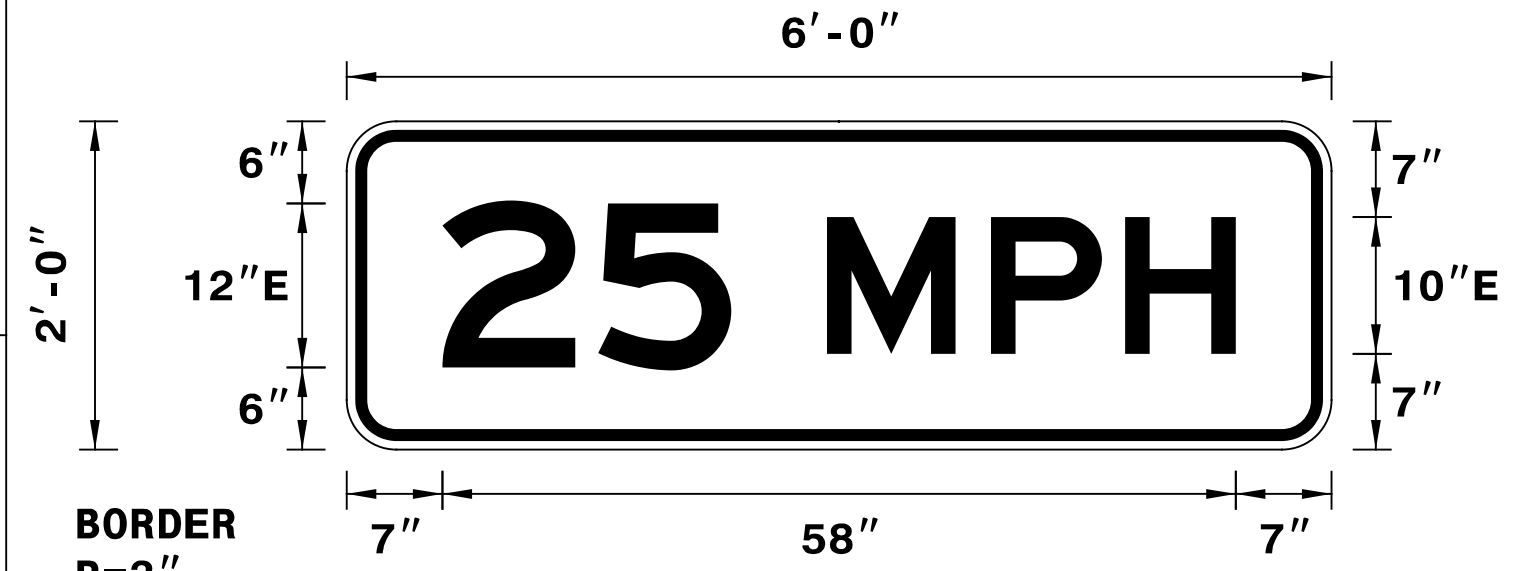
|   |                             |
|---|-----------------------------|
| TIP NO.<br><b>R-2915A</b>                     | SHEET NO.<br><b>SIGN-4D</b> |
| APPROVED: <u>Joseph Kopaskie</u><br>5/27/2015 |                             |
| DATE: 5/27/2015                               |                             |
| SEAL  |                             |



|   |  |
|---|--|
| SIGN NUMBER: 201A & 203A    BACKG COLOR: Yellow<br>TYPE: Warning    COPY COLOR: Black<br>QUANTITY: 2<br>SIGN WIDTH: 6'-0"<br>HEIGHT: 2'-0"<br>TOTAL AREA: 12.0 Sq.Ft.<br>BORDER TYPE: INSET<br>RECESS: 0.63"<br>WIDTH: 0.88"<br>RADII: 3"<br>NO. Z BARS: 2<br>LENGTH: | DESIGN BY: R Drayton    CHECKED BY: J Kopaskie    DATE: May 07, 2015<br>PROJECT ID: R-2915A    DIV: 11 |
|---|--|

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |

MAT'L: 0.080" (2.0 mm) ALUMINUM



**BORDER**  
R=3"  
TH=0.88"  
IN=0.63"

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be Grade C Yellow reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| E 2000      | 58          |

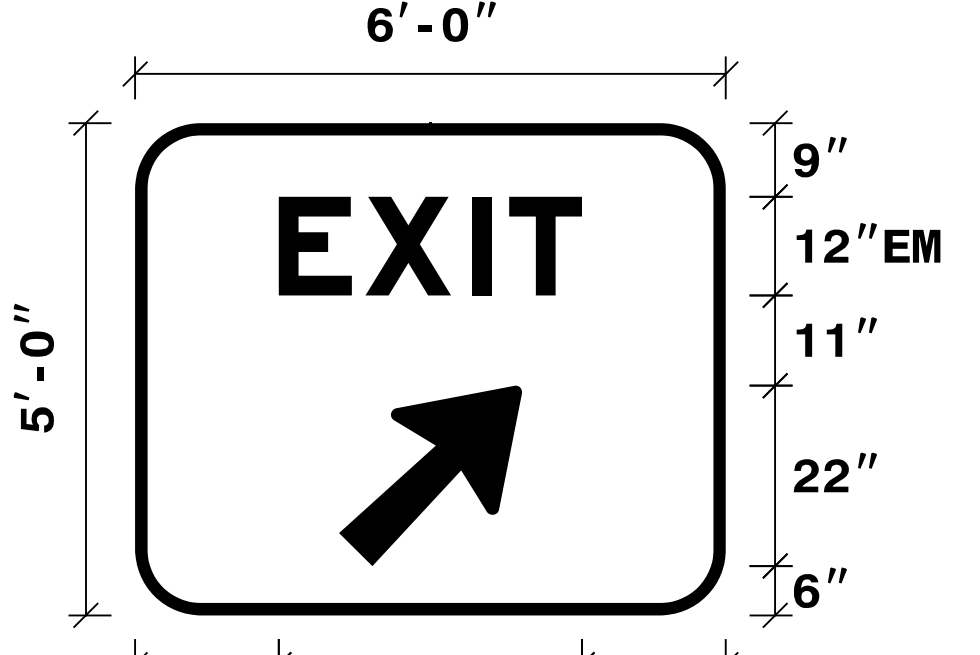
| Letter | Spacing | Letter | Spacing | Letter | Spacing | Letter | Spacing |
|--------|---------|--------|---------|--------|---------|--------|---------|
| 7      | 11.4    | 2      | 9.7     | 5      | 7       | M      | 12      |
|        |         |        |         |        |         | P      | 9.8     |
|        |         |        |         |        |         | H      | 8.1     |
|        |         |        |         |        |         |        | 7       |

FILENAME: To scale Sign Designs    NORTH CAROLINA D.O.T. SIGN DETAIL

|   |  |
|---|--|
| SIGN NUMBER: 201B, 202, 203B    BACKG COLOR: Green<br>TYPE: A    COPY COLOR: White<br>QUANTITY: 3<br>SIGN WIDTH: 6'-0"<br>HEIGHT: 5'-0"<br>TOTAL AREA: 30.0 Sq.Ft.<br>BORDER TYPE: FLUSH<br>RECESS: 0"<br>WIDTH: 1.5"<br>RADII: 8"<br>NO. Z BARS: 2<br>LENGTH: 64.0 | DESIGN BY: R Drayton    CHECKED BY: J Kopaskie    DATE: Jan 07, 2015<br>PROJECT ID: R-2915A    DIV: 11 |
|---|--|

| SYMBOL    | X    | Y | WID  | HT   |
|-----------|------|---|------|------|
| AR_Type A | 24.8 | 6 | 17.9 | 28.1 |
|           |      |   |      |      |
|           |      |   |      |      |
|           |      |   |      |      |
|           |      |   |      |      |
|           |      |   |      |      |
|           |      |   |      |      |
|           |      |   |      |      |
|           |      |   |      |      |

MAT'L: 0.125" (3.2 mm) ALUMINUM



**BORDER**  
R=8"  
TH=1.5"

USE NOTES: 1,2,3

- Legend and border (except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS


Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| EM 2000     | 37          |

| Letter | Spacing | Letter | Spacing | Letter | Spacing | Letter | Spacing |
|--------|---------|--------|---------|--------|---------|--------|---------|
| 17.5   | 10.6    | E      | 13      | X      | 4.6     | I      | 8.9     |
|        |         |        |         |        |         | T      | 17.5    |

FILENAME: Sign Designs    NORTH CAROLINA D.O.T. SIGN DETAIL

5/13/2015 6:17:15 AM G:\Transportation\TR13\017.00 NCDOT 2012 Traffic LSA\TR13\017.06 (R-2915A) Signing & PMP\Signing\Engseed 6-11-12.dgn




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SIGN DESIGNS



|   |           |
|---|-----------|
| TIP NO.   | SHEET NO. |
| R-2915A   | SIGN-4F   |
| APPROVED: <u>Joseph Kopaskie</u><br><small>30CDEAEF80AS4FA...</small> |           |
| DATE: 5/27/2015   |           |
| SEAL  |           |

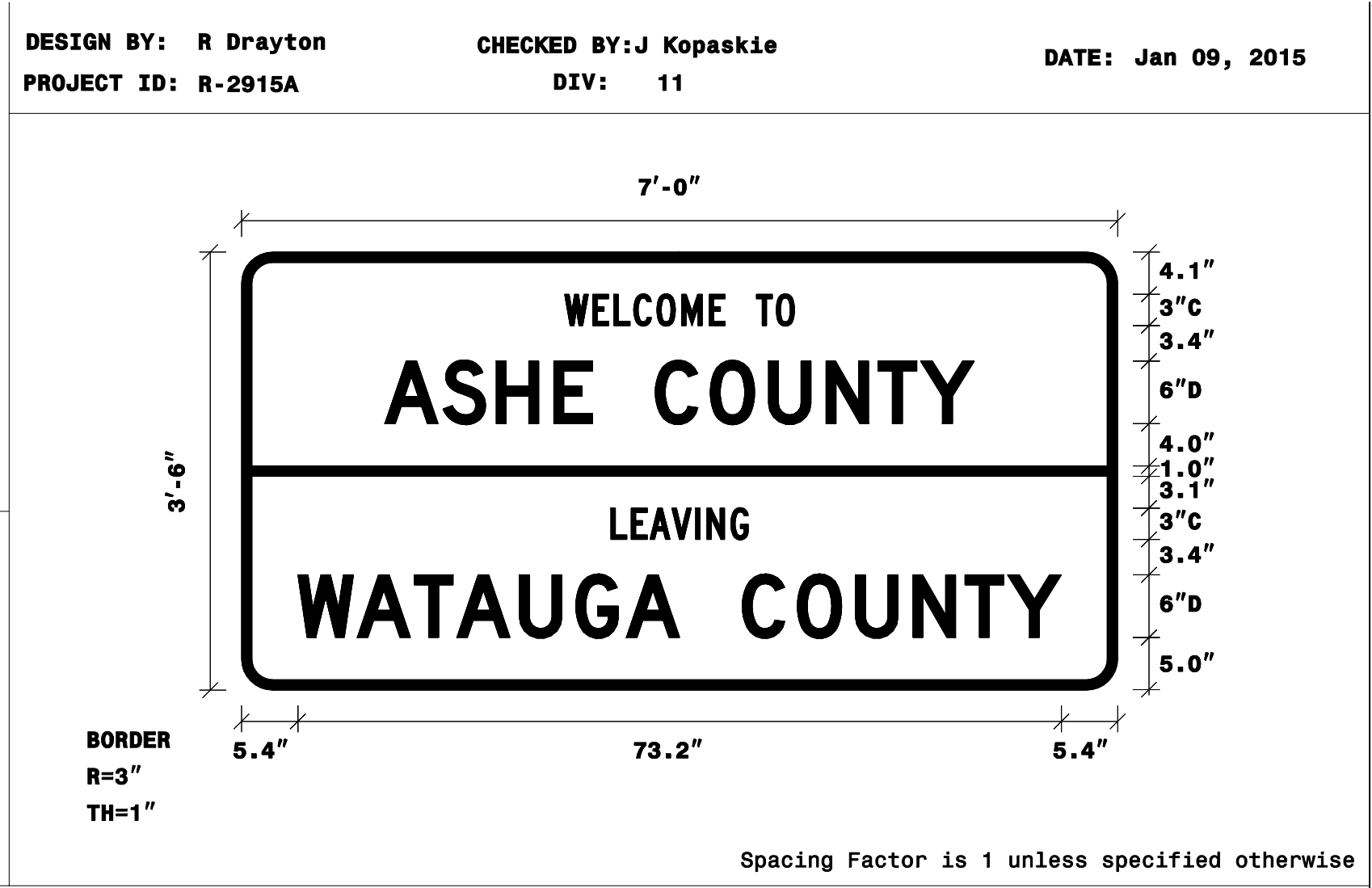


SIGN NUMBER: 304  
 TYPE: D  
 QUANTITY: 1  
 SIGN WIDTH: 7'-0"  
 HEIGHT: 3'-6"  
 TOTAL AREA: 24.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 1"  
 RADII: 3"  
 NO. Z BARS:  
 LENGTH:

BACKG COLOR: Green  
 COPY COLOR: White

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |

MAT'L: 0.125" (3.2 mm) ALUMINUM



USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.

**LETTER POSITIONS**

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| C 2000      | 22.1        |
| D 2000      | 56.5        |
| C 2000      | 13.2        |
| D 2000      | 73.2        |

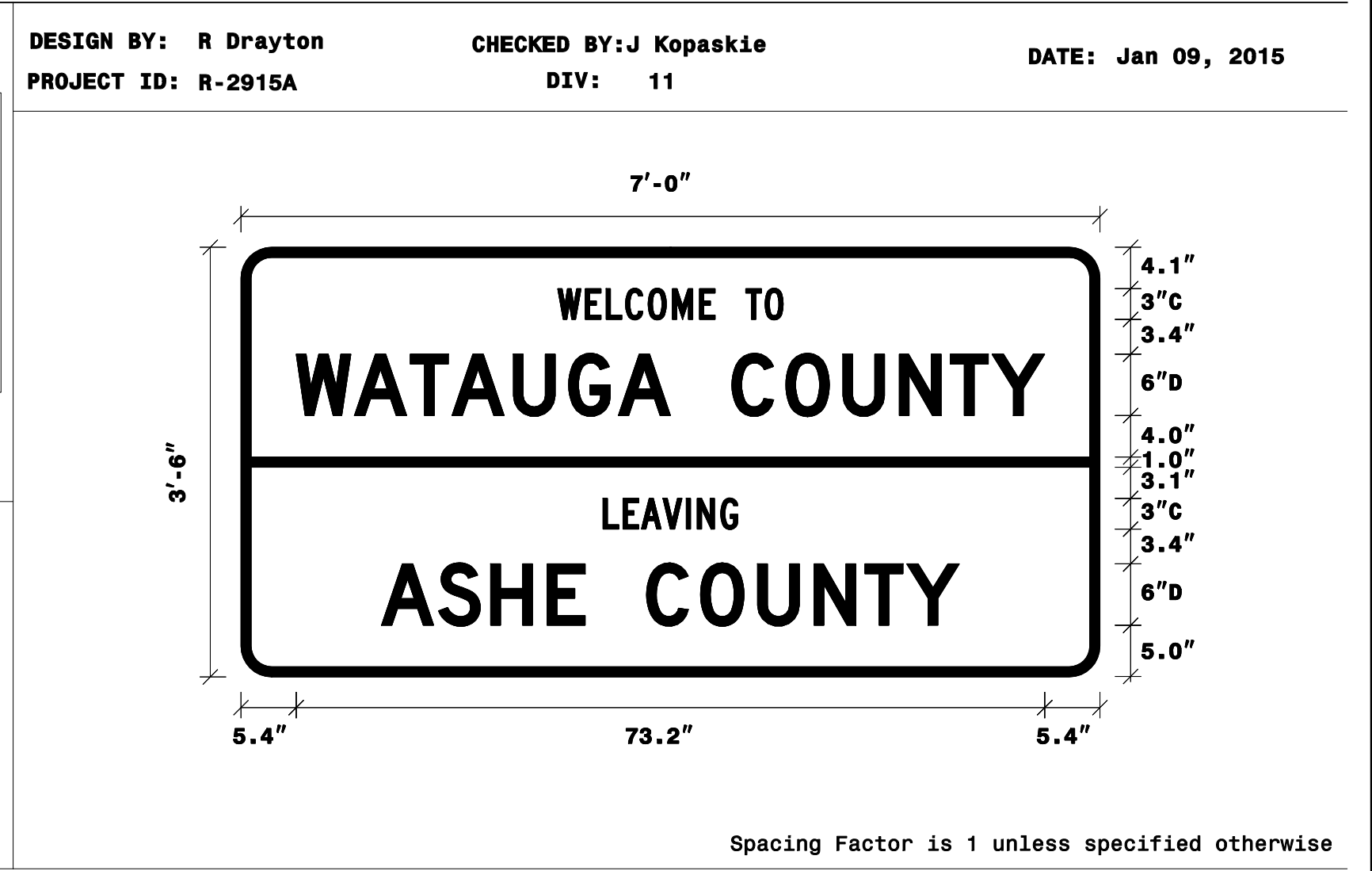
FILENAME: Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 305  
 TYPE: D  
 QUANTITY: 1  
 SIGN WIDTH: 7'-0"  
 HEIGHT: 3'-6"  
 TOTAL AREA: 24.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 1"  
 RADII: 3"  
 NO. Z BARS:  
 LENGTH:

BACKG COLOR: Green  
 COPY COLOR: White

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |

MAT'L: 0.125" (3.2 mm) ALUMINUM



USE NOTES: 1,2


- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.

**LETTER POSITIONS**

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| C 2000      | 22.1        |
| D 2000      | 73.2        |
| C 2000      | 13.2        |
| D 2000      | 56.5        |

FILENAME: Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL



1025 Wade Avenue  
 Raleigh, NC 27605  
 Tel: 919-789-9977  
 Fax: 919-789-9591  
 License: C-2197

**SIGN DESIGNS**

5/22/2015  
 g:\transportation\TRI13.017.006 NCDOT 2012 Traffic LSA\TRI13.017.006 (R-2915A) Signing & PMP\Signing\Engsead 6-11-12.dgn  
 J.Kopaskie





|   |                             |
|---|-----------------------------|
| TIP NO.<br><b>R-2915A</b>                     | SHEET NO.<br><b>SIGN-4H</b> |
| APPROVED: <i>Joseph Kopaskie</i><br>5/27/2015 |                             |
| SEAL  |                             |

**SIGN NUMBER: 440**      **BACKG COLOR: Yellow**  
**TYPE: W16-8P**      **COPY COLOR: Black**  
**QUANTITY: 1**

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |

**SIGN WIDTH: 4'-0"**  
**HEIGHT: 0'-8"**  
**TOTAL AREA: 2.7 Sq.Ft.**

**BORDER TYPE: FLUSH**  
**RECESS: 0.25"**  
**WIDTH: 0.38"**  
**RADII: 1"**

**MAT'L: 0.125" (3.2 mm) ALUMINUM**

**NO. Z BARS:**  
**LENGTH:**

**DESIGN BY: R DRAYTON**      **CHECKED BY: J KOPASKIE**      **DATE: Mar 12, 2015**  
**PROJECT ID: R-2915A**      **DIV: 11**

**BORDER**  
**R=1"**  
**TH=0.38"**  
**IN=0.25"**

**MOUNTED BELOW SIGN #427**  
**IN 1 INSTALLATION**

Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| D 2000      | 43.1        |

W   P   i   n   e   S   w   a   m   p   R   d

2.5 3.6 2 3.2 1.4 3 2.4 2 3 4.8 3 4.7 2.4 2 3.2 2.4 2.5

FILENAME: Sign Designs      NORTH CAROLINA D.O.T. SIGN DETAIL

**SIGN NUMBER: 442**      **BACKG COLOR: Yellow**  
**TYPE: W16-8P**      **COPY COLOR: Black**  
**QUANTITY: 1**

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |

**SIGN WIDTH: 3'-0"**  
**HEIGHT: 0'-8"**  
**TOTAL AREA: 2.0 Sq.Ft.**

**BORDER TYPE: INSET**  
**RECESS: 0.25"**  
**WIDTH: 0.38"**  
**RADII: 1"**

**MAT'L: 0.080" (2.0 mm) ALUMINUM**

**NO. Z BARS:**  
**LENGTH:**

**DESIGN BY: R Drayton**      **CHECKED BY: J Kopaskie**      **DATE: Apr 29, 2015**  
**PROJECT ID: R-2915A**      **DIV: 11**

**BORDER**  
**R=1"**  
**TH=0.38"**  
**IN=0.25"**

**MOUNTED BELOW SIGN #427**  
**IN 1 INSTALLATION**

Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| D 2000      | 28.1        |

I   d   l   e   w   i   l   d   R   d

3.9 1.4 3.2 1.3 2.6 5 1.4 1.3 2.4 4 3.2 2.4 3.9

FILENAME: To scale Sign Designs      NORTH CAROLINA D.O.T. SIGN DETAIL

**SIGN NUMBER: 441**      **BACKG COLOR: Yellow**  
**TYPE: W16-8P**      **COPY COLOR: Black**  
**QUANTITY: 1**

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |

**SIGN WIDTH: 3'-0"**  
**HEIGHT: 1'-3"**  
**TOTAL AREA: 3.8 Sq.Ft.**

**BORDER TYPE: FLUSH**  
**RECESS: 0.25"**  
**WIDTH: 0.38"**  
**RADII: 1"**

**MAT'L: 0.125" (3.2 mm) ALUMINUM**

**NO. Z BARS:**  
**LENGTH:**

**DESIGN BY: R DRAYTON**      **CHECKED BY: J KOPASKIE**      **DATE: Mar 19, 2015**  
**PROJECT ID: R-2915A**      **DIV: 11**

**BORDER**  
**R=1"**  
**TH=0.38"**  
**IN=0.25"**

**MOUNTED BELOW SIGN #427**  
**IN 1 INSTALLATION**

Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| D 2000      | 24          |
| D 2000      | 25.2        |

C   r   a   n   b   e   r   r   y   S   p   r   i   n   g   s   R   d

6 3.5 1.8 3 3.1 2.9 2.9 2 1.7 3 6

5.4 3.3 3 2 1.4 3 3 1.9 2 3.2 2.4 5.4

FILENAME: Sign Designs      NORTH CAROLINA D.O.T. SIGN DETAIL

**SEPI**  
 ENGINEERING &  
 CONSTRUCTION

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 Raleigh, NC 27605  
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 Fax: 919-789-9591  
 License: C-2197

**SIGN DESIGNS**

5/22/2015 9:47:30 AM C:\Users\j.kopaskie\Documents\Traffic\2012 Traffic LSA\TR13.017.06 (R-2915A) Signing & PMP\Signing\Engseed 6-11-12.dgn j.kopaskie

|                                  |           |
|----------------------------------|-----------|
| TIP NO.                          | SHEET NO. |
| R-2915A                          | SIGN-4I   |
| APPROVED: <i>Joseph Kopaskie</i> |           |
| DATE: 5/27/2015                  |           |
| SEAL                             |           |

**SIGN NUMBER:** 444    **BACKG COLOR:** Yellow  
**TYPE:** WARNING    **COPY COLOR:** Black  
**QUANTITY:** 1

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |

**SIGN WIDTH:** 2'-6"  
**HEIGHT:** 2'-0"  
**TOTAL AREA:** 5.0 Sq.Ft.

**BORDER TYPE:** INSET  
**RECESS:** 0.38"  
**WIDTH:** 0.63"  
**RADII:** 1.13"

**NO. Z BARS:**    **MAT'L:** 0.080" (2.0 mm) ALUMINUM  
**LENGTH:**

**DESIGN BY:** R Drayton    **CHECKED BY:** J Kopaskie    **DATE:** Apr 27, 2015  
**PROJECT ID:** R-2915A    **DIV:** 11

**BORDER**  
**R=1.13"**  
**TH=0.63"**  
**IN=0.38"**

Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter

| Letter    | Series/Size | Text Length |
|-----------|-------------|-------------|
| 1         | C 2000      | 18.1        |
| M I L E   | C 2000      | 17.5        |
| A H E A D | C 2000      | 17.5        |

FILENAME: To scale Sign Designs    NORTH CAROLINA D.O.T. SIGN DETAIL

**SIGN NUMBER:** M5-1    **BACKG COLOR:** White  
**TYPE:** M5-1    **COPY COLOR:** Black  
**QUANTITY:** 9

| SYMBOL | X   | Y   | WID  | HT |
|--------|-----|-----|------|----|
| U_Turn | 8.5 | 5.2 | 10.5 | 13 |
|        |     |     |      |    |
|        |     |     |      |    |
|        |     |     |      |    |
|        |     |     |      |    |

**SIGN WIDTH:** 2'-6"  
**HEIGHT:** 1'-9"  
**TOTAL AREA:** 4.4 Sq.Ft.

**BORDER TYPE:** FLUSH  
**RECESS:** 0.38"  
**WIDTH:** 0.63"  
**RADII:** 1.13"

**NO. Z BARS:**    **MAT'L:** 0.125" (3.2 mm) ALUMINUM  
**LENGTH:**

**DESIGN BY:** R Drayton    **CHECKED BY:** J Kopaskie    **DATE:** Apr 09, 2015  
**PROJECT ID:** R-2915A    **DIV:** 11

**BORDER**  
**R=1.13"**  
**TH=0.63"**  
**IN=0.38"**

USE NOTES: 1,2

1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.

**BORDER**  
**R=1.13"**  
**TH=0.63"**  
**IN=0.38"**

MOUNT BELOW SIGN 503 IN 1 INSTALLATION    MOUNT BELOW SIGN 514 IN 1 INSTALLATION  
MOUNT BELOW SIGN 506 IN 1 INSTALLATION    MOUNT BELOW SIGN 515 IN 1 INSTALLATION  
MOUNT BELOW SIGN 507 IN 1 INSTALLATION    MOUNT BELOW SIGN 518 IN 1 INSTALLATION  
MOUNT BELOW SIGN 510 IN 1 INSTALLATION    MOUNT BELOW SIGN 519 IN 1 INSTALLATION  
MOUNT BELOW SIGN 511 IN 1 INSTALLATION

**SIGN NUMBER:** 445    **BACKG COLOR:** Yellow  
**TYPE:** WARNING    **COPY COLOR:** Black  
**QUANTITY:** 1

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |
|        |   |   |     |    |

**SIGN WIDTH:** 2'-6"  
**HEIGHT:** 2'-0"  
**TOTAL AREA:** 5.0 Sq.Ft.

**BORDER TYPE:** INSET  
**RECESS:** 0.38"  
**WIDTH:** 0.63"  
**RADII:** 1.13"

**NO. Z BARS:**    **MAT'L:** 0.080" (2.0 mm) ALUMINUM  
**LENGTH:**

**DESIGN BY:** R Drayton    **CHECKED BY:** J Kopaskie    **DATE:** Apr 27, 2015  
**PROJECT ID:** R-2915A    **DIV:** 11

**BORDER**  
**R=1.13"**  
**TH=0.63"**  
**IN=0.38"**

Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter

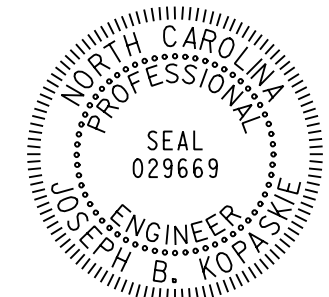
| Letter    | Series/Size | Text Length |
|-----------|-------------|-------------|
| 1/2       | C 2000      | 5.9         |
| M I L E   | C 2000      | 12          |
| A H E A D | C 2000      | 17.5        |

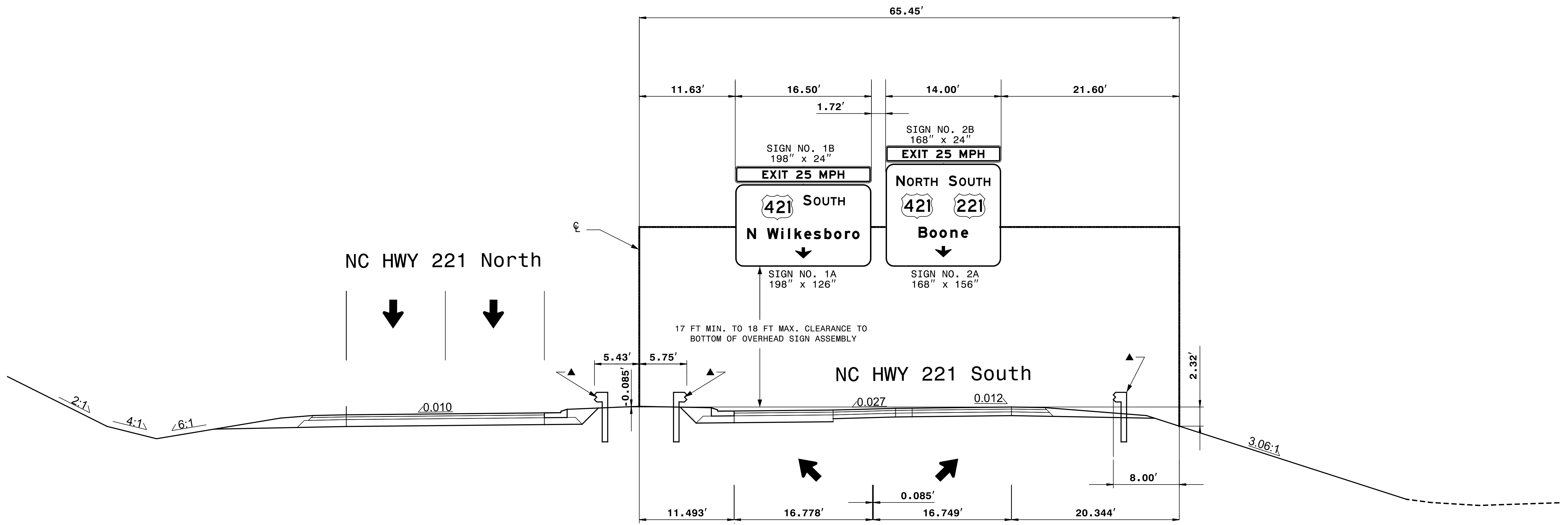
FILENAME: To scale Sign Designs    NORTH CAROLINA D.O.T. SIGN DETAIL

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**SIGN DESIGNS**

5/22/2015 9:48:11 AM C:\Users\j.kopaskie\Documents\Traffic\Traffic\Signs\Signing & PMP\Signing\Engseed 6-11-12.dgn


|   |                      |
|---|----------------------|
| TIP NO.<br>R-2915A  | SHEET NO.<br>SIGN-4J |
| APPROVED: <i>Joseph Koparkie</i><br><small>REGISTERED PROFESSIONAL ENGINEER</small>         |                      |
| DATE: 5/27/2015   |                      |
| SEAL<br> |                      |



**NOTES:**

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- JUSTIFY THE BOTTOM EDGE OF ALL SIGNS ON EACH ASSEMBLY IN A HORIZONTAL PLANE.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
- DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

▲ SEE ROADWAY PLANS FOR GUARDRAIL & GUIDERAIL LOCATIONS



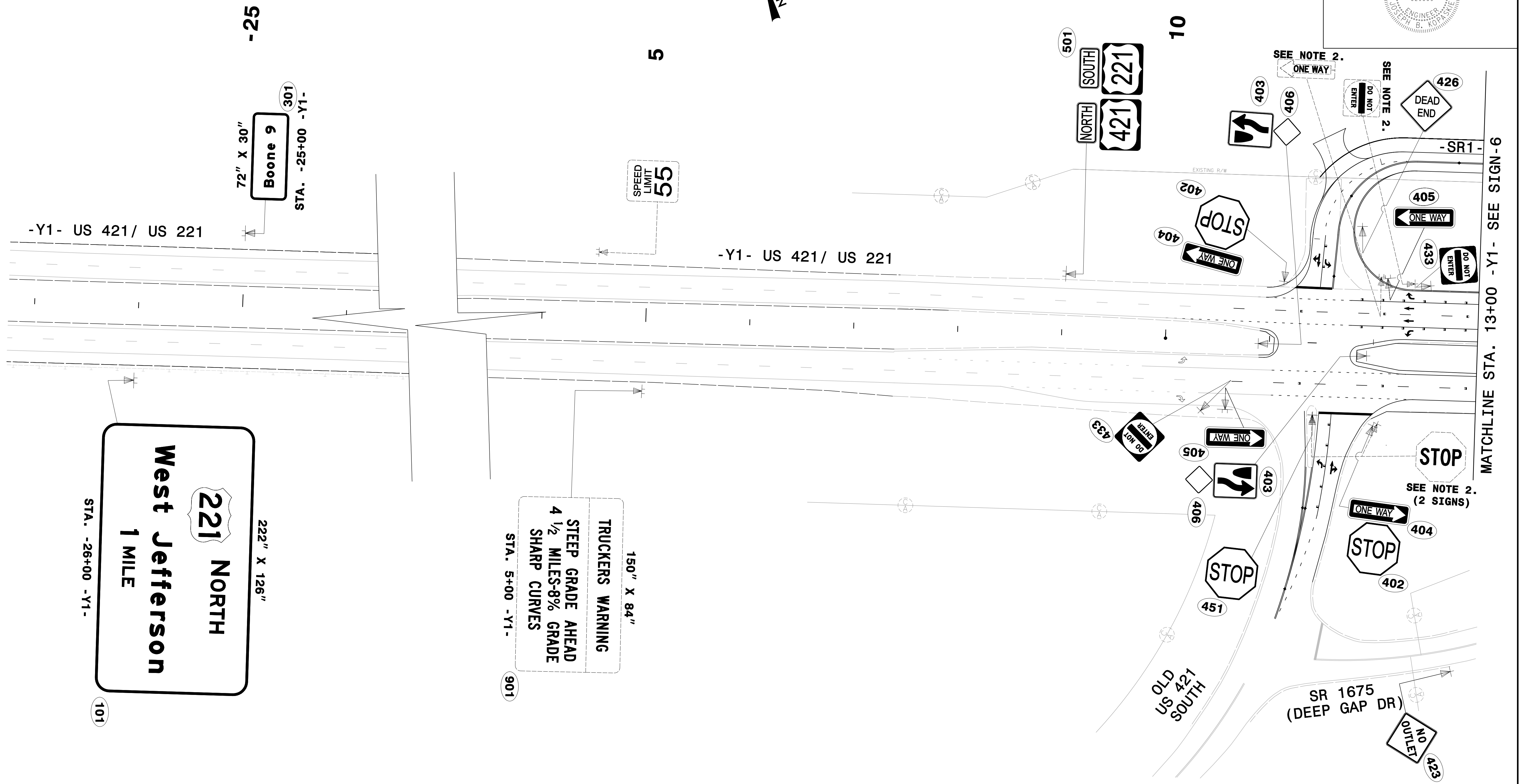
**SEPI**  
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**OVERHEAD SIGN ASS'Y A**  
**STA 24+64 -L-**

5/13/2015 08:11:12 AM C:\Users\jcoparkie\Documents\Projects\2012 Traffic LSA\TR13.017.06 (R-2915A) Signing & PMP\Signing\Engseed 6-11-12.dgn


|  |                     |
|--|---------------------|
| TIP NO.<br>R-2915A                                   | SHEET NO.<br>SIGN-5 |
| APPROVED: <i>Joseph Kopaschik</i><br>SC08EAER80454FA |                     |
| DATE: 5/27/2015                                      |                     |
| SEAL   |                     |

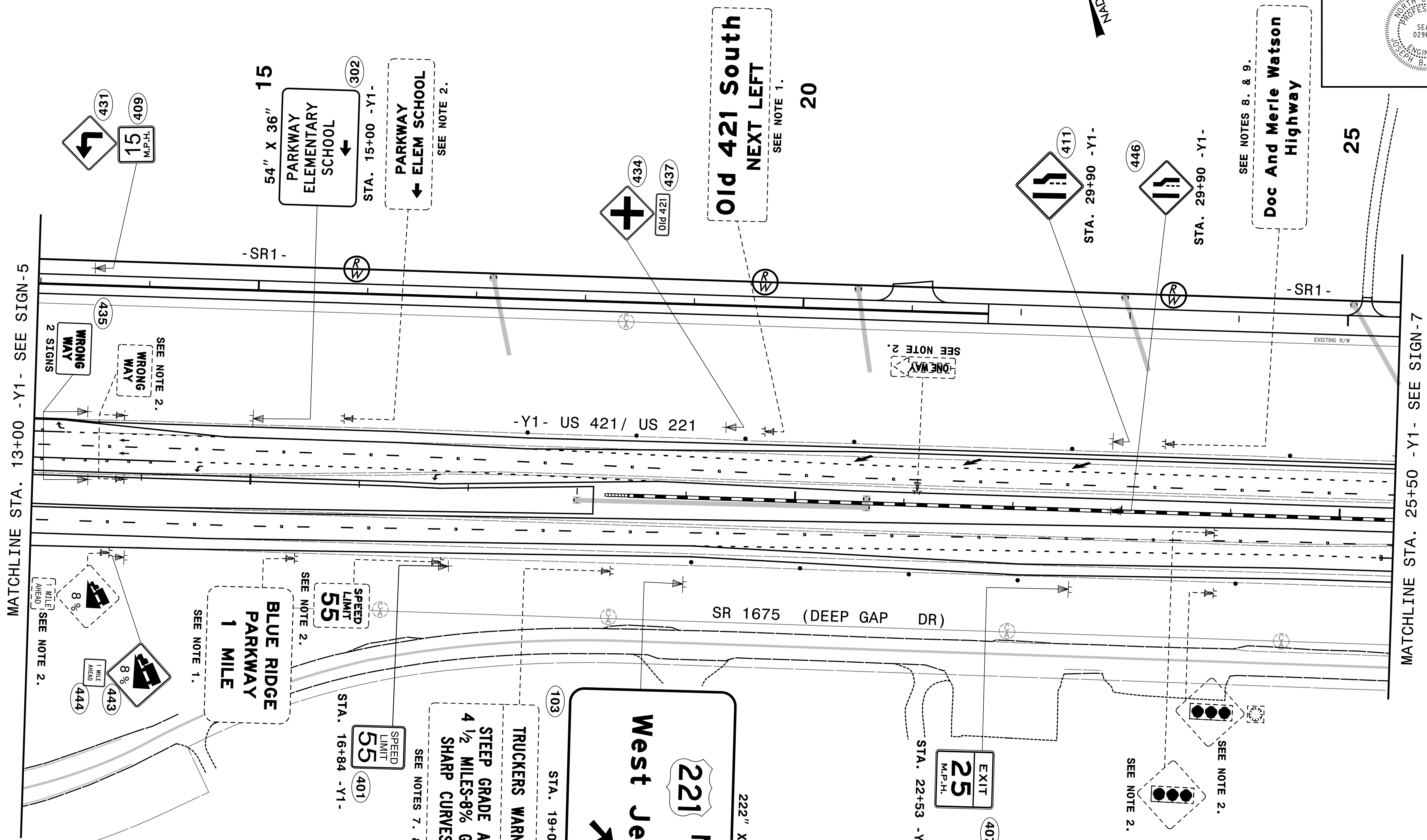


**NOTES**  
 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**EXISTING & PROPOSED SIGN DETAIL**

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|   |                     |
|---|---------------------|
| TIP NO.<br>R-2915A  | SHEET NO.<br>SIGN-6 |
| Designed by:<br>APPROVED: <i>Joseph Kopaske</i><br><small>SCDMEAEF80A54FA...</small>        |                     |
| DATE: 5/27/2015   |                     |
| SEAL<br> |                     |



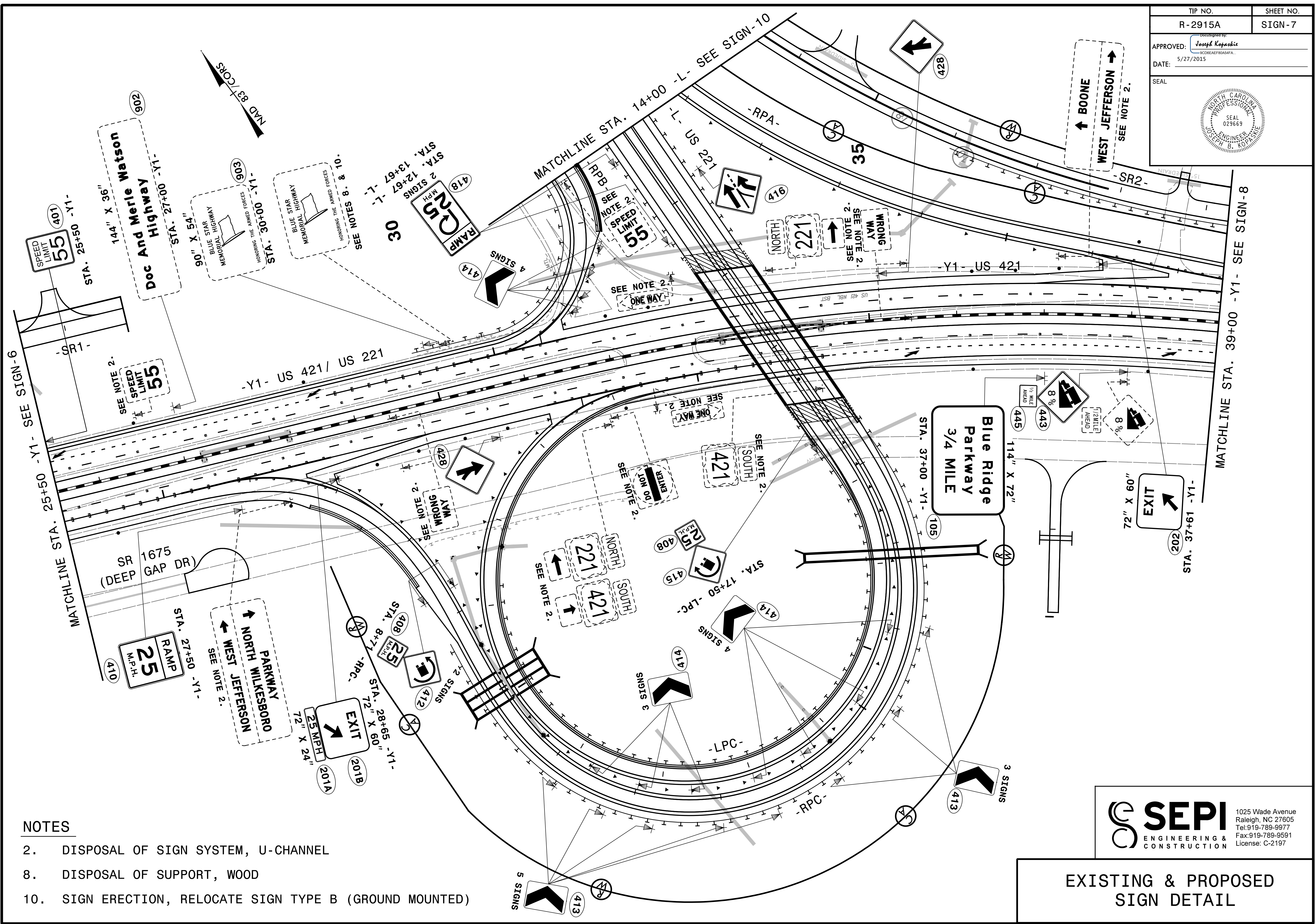
**NOTES**

1. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
3. SIGN ERECTION, RELOCATE SIGN TYPE E
7. DISPOSAL OF SUPPORT, STEEL BEAM
8. DISPOSAL OF SUPPORT, WOOD
9. SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)

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 Fax: 919-789-9591  
 License: C-2197

**EXISTING & PROPOSED SIGN DETAIL**

|                                    |           |
|------------------------------------|-----------|
| TIP NO.                            | SHEET NO. |
| R-2915A                            | SIGN-7    |
| Designed by: <i>Joseph Kopaske</i> |           |
| APPROVED: <i>Joseph Kopaske</i>    |           |
| DATE: 5/27/2015                    |           |
| SEAL                               |           |
|                                    |           |



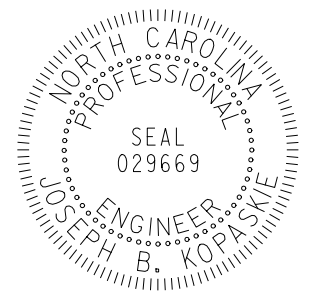
**NOTES**

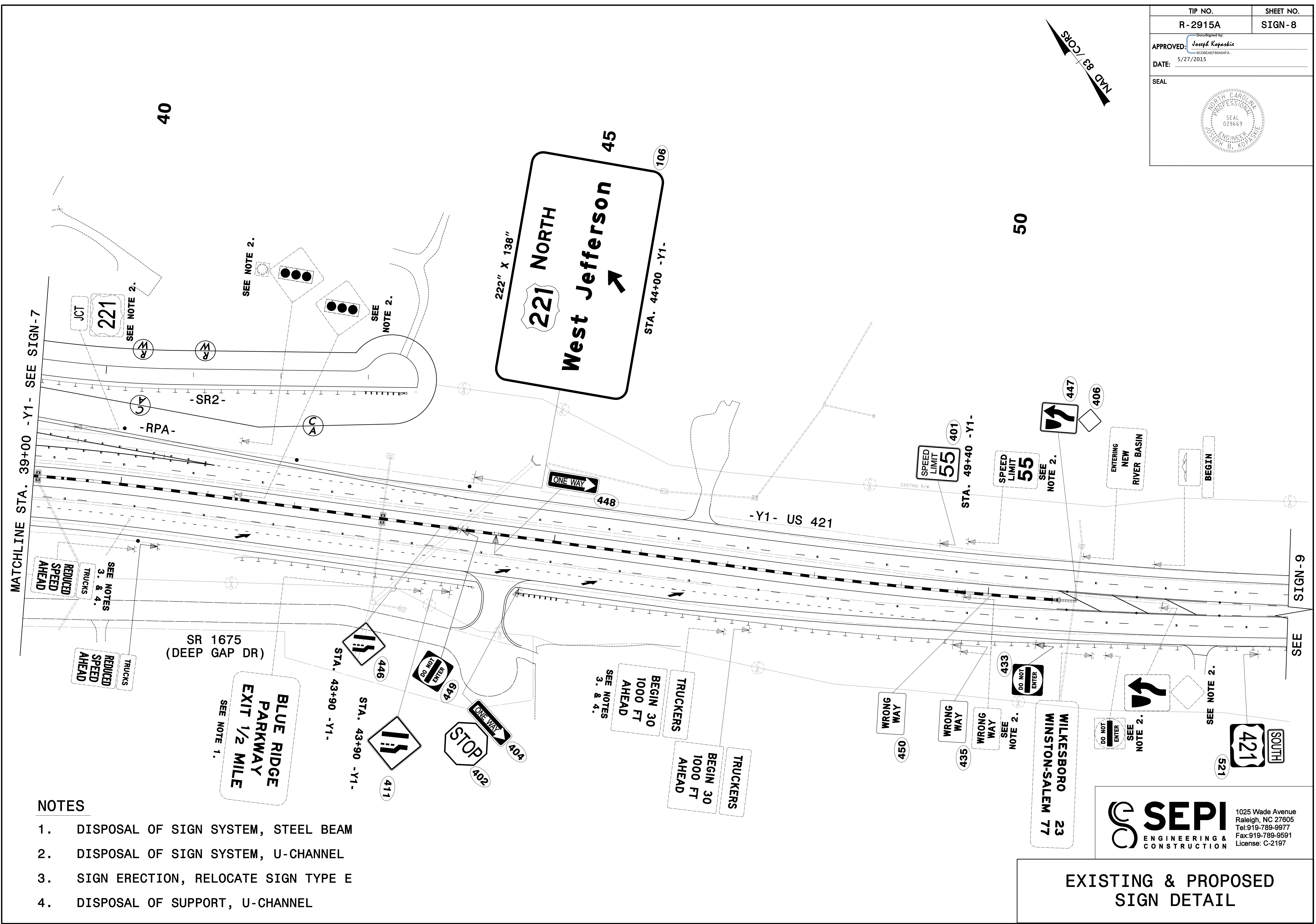
- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 8. DISPOSAL OF SUPPORT, WOOD
- 10. SIGN ERECTION, RELOCATE SIGN TYPE B (GROUND MOUNTED)

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**EXISTING & PROPOSED SIGN DETAIL**

|   |                     |
|---|---------------------|
| TIP NO.<br>R-2915A  | SHEET NO.<br>SIGN-8 |
| APPROVED: <i>Joseph Kopaschik</i><br>NCE006AE8F80A54FA                                      |                     |
| DATE: 5/27/2015   |                     |
| SEAL<br> |                     |



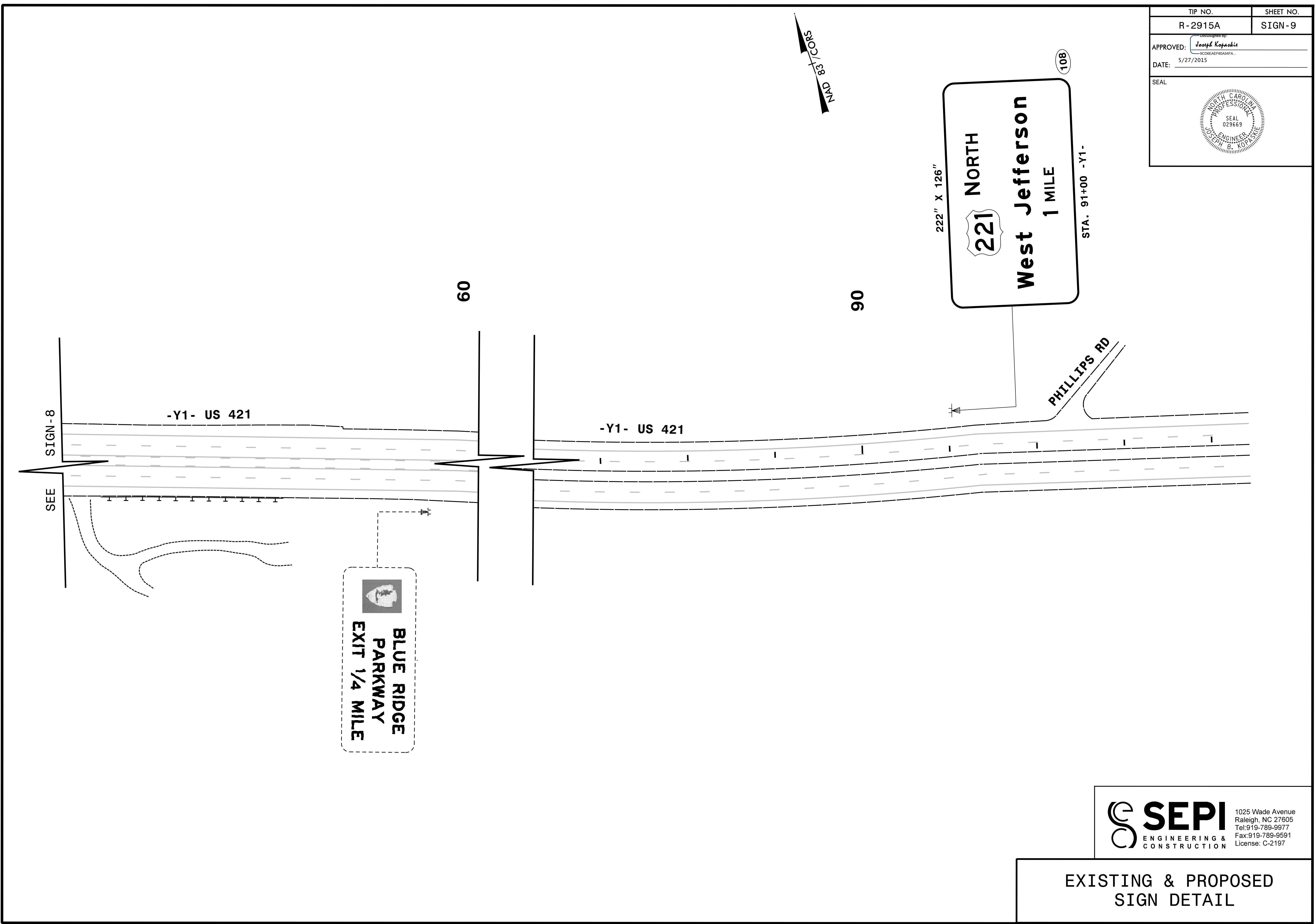
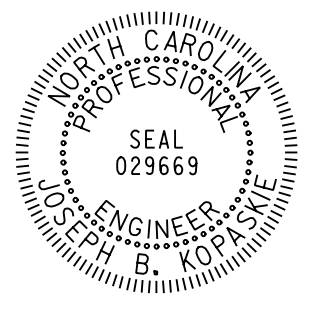
**NOTES**

1. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
3. SIGN ERECTION, RELOCATE SIGN TYPE E
4. DISPOSAL OF SUPPORT, U-CHANNEL

**EXISTING & PROPOSED  
SIGN DETAIL**

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Raleigh, NC 27605  
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|  |                     |
|--|---------------------|
| TIP NO.<br>R-2915A   | SHEET NO.<br>SIGN-9 |
| APPROVED: <i>Joseph Koparkie</i><br><small>0CDEAEF80A54FA...</small> |                     |
| DATE: 5/27/2015  |                     |
| SEAL   |                     |

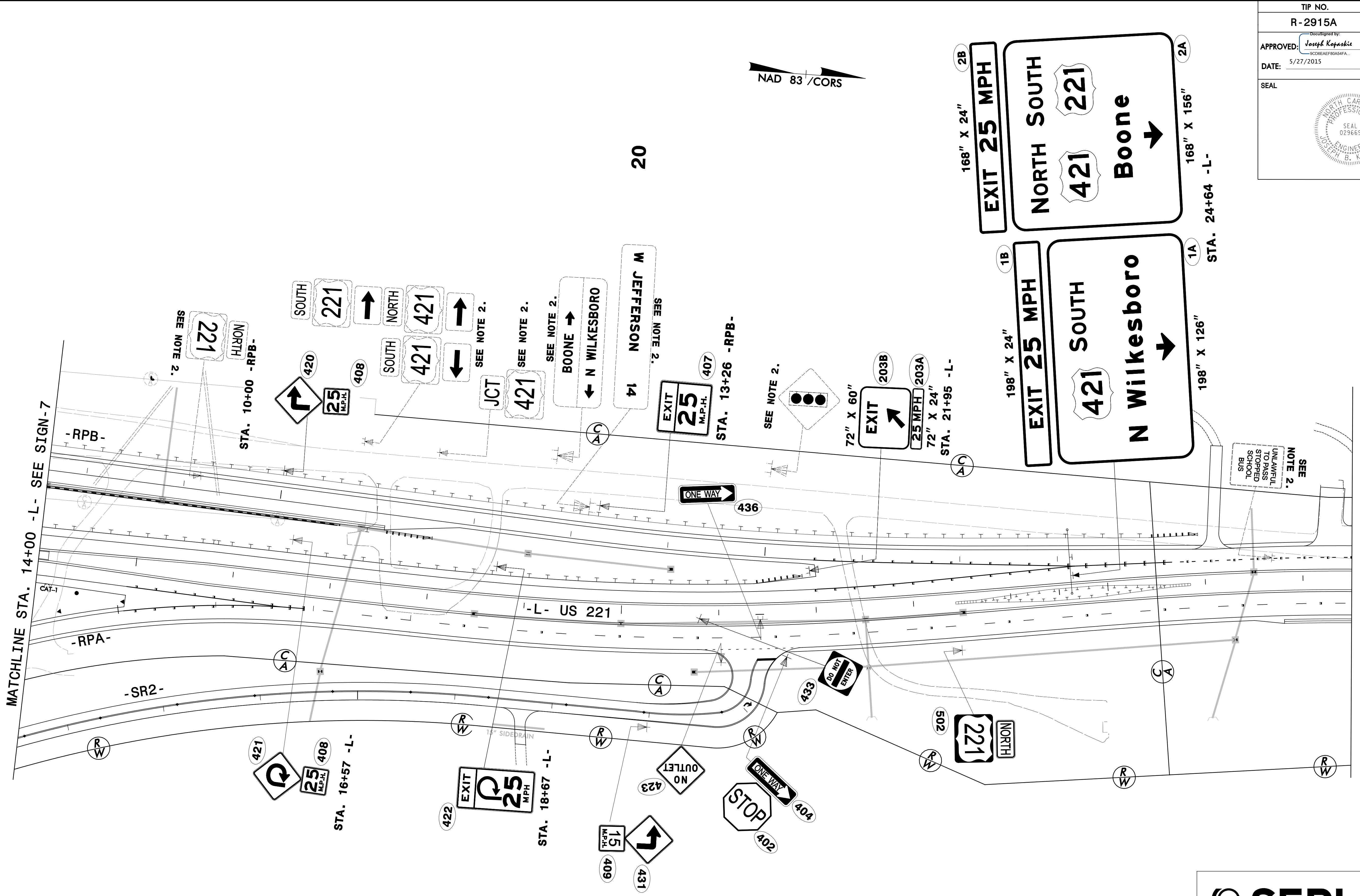


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 Fax: 919-789-9591  
 License: C-2197

**EXISTING & PROPOSED  
SIGN DETAIL**



|  |                      |
|--|----------------------|
| TIP NO.<br>R-2915A                                   | SHEET NO.<br>SIGN-10 |
| APPROVED: <i>Joseph Kofaschik</i><br>SC08EAER80AS4FA |                      |
| DATE: 5/27/2015                                      |                      |
| SEAL   |                      |



NAD 83 / CORS

MATCHLINE STA. 14+00 -L- SEE SIGN-7

MATCHLINE STA. 27+50 -L- SEE SIGN-11

**NOTES**

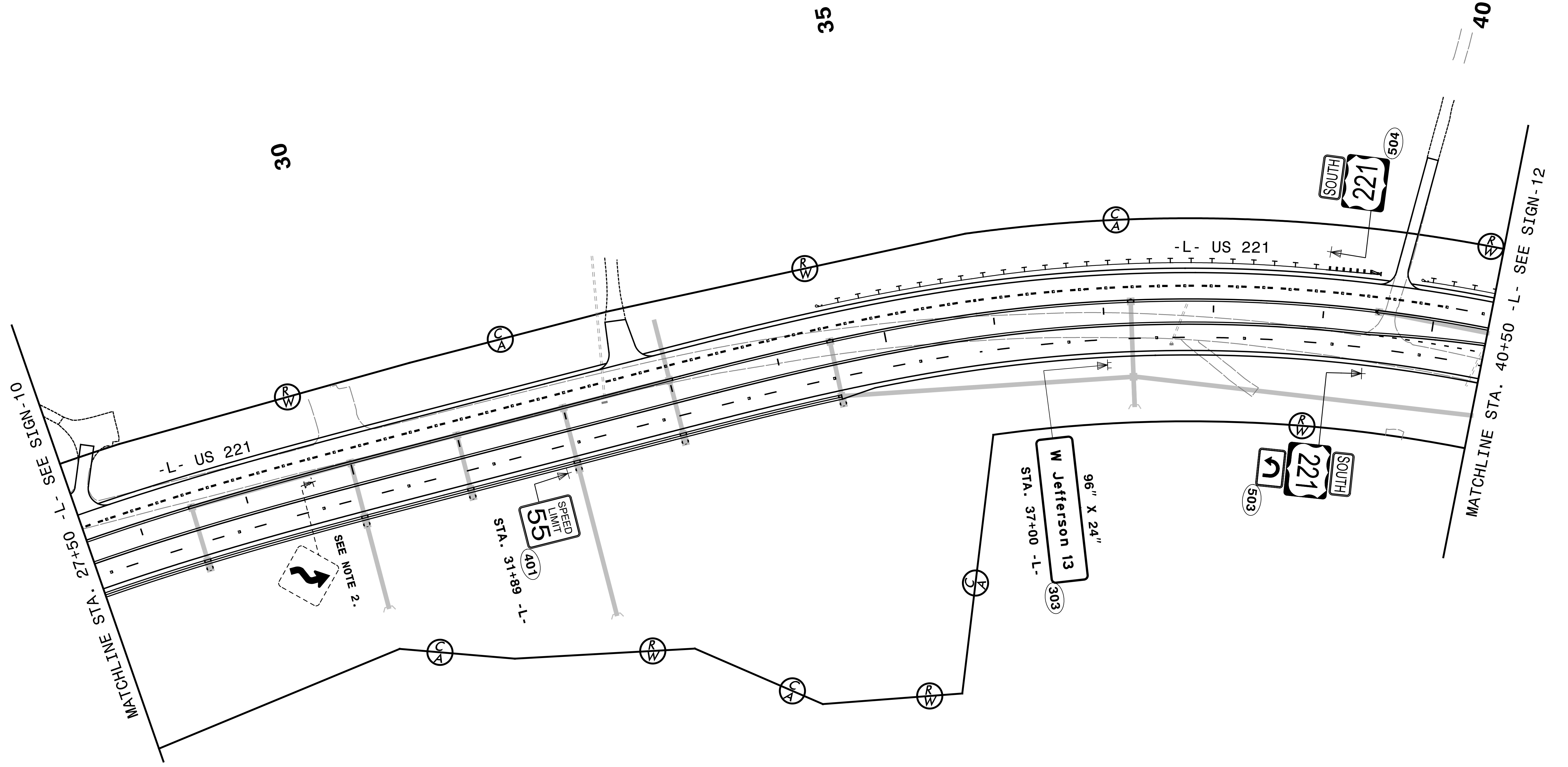
- DISPOSAL OF SIGN SYSTEM, U-CHANNEL

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 Tel: 919-789-9977  
 Fax: 919-789-9591  
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**EXISTING & PROPOSED SIGN DETAIL**

|  |                      |
|--|----------------------|
| TIP NO.<br>R-2915A   | SHEET NO.<br>SIGN-11 |
| Designed by:<br>APPROVED: <i>Joseph Kopaske</i><br><small>SCDMEAEF80AS4FA...</small> |                      |
| DATE: 5/27/2015  |                      |
| SEAL   |                      |
|  |                      |

NAD 83 / CORS



**NOTES**

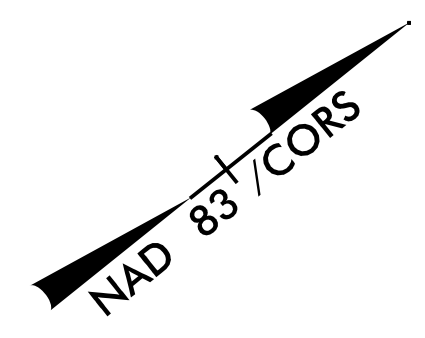
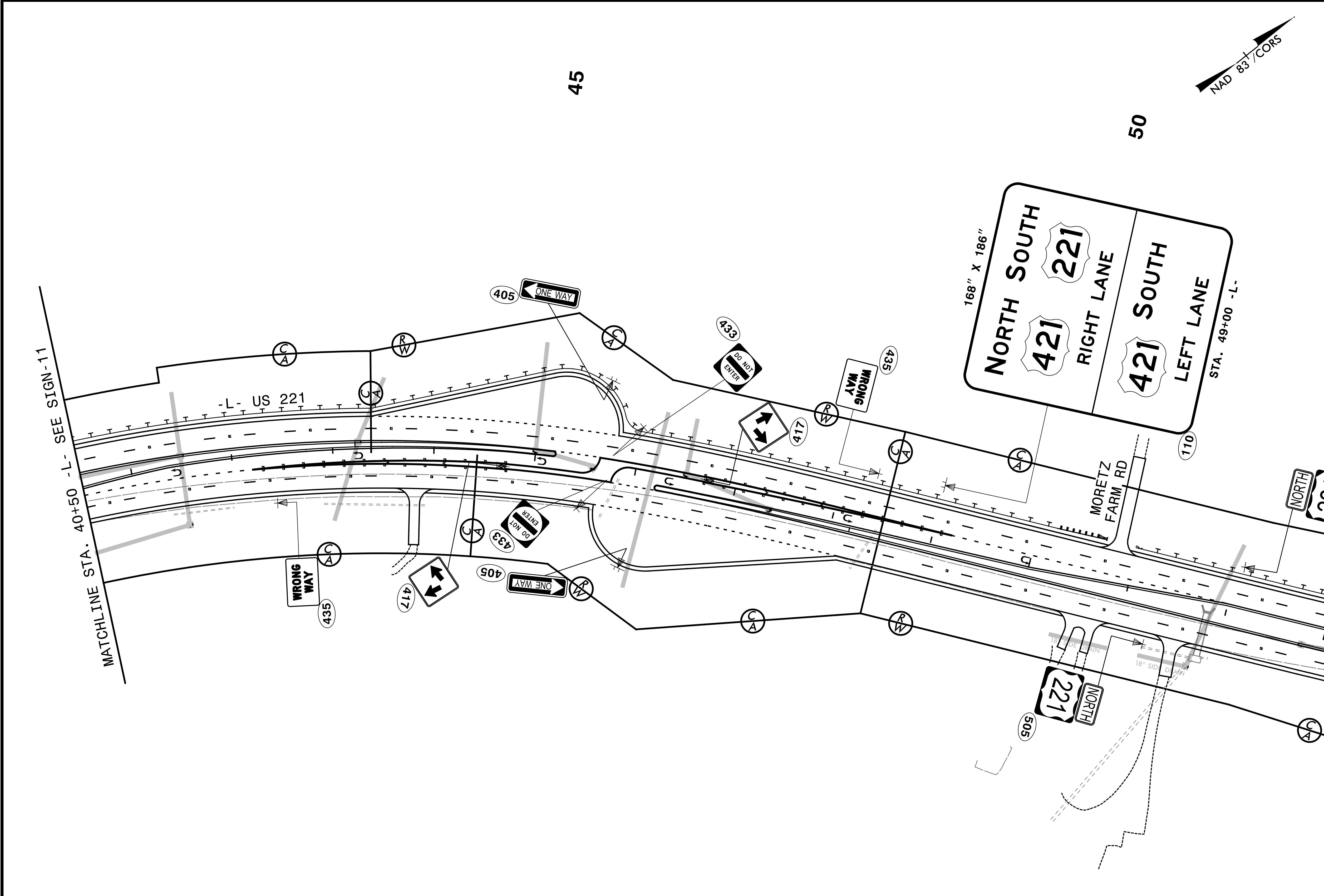
- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

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 License: C-2197

**EXISTING & PROPOSED  
SIGN DETAIL**

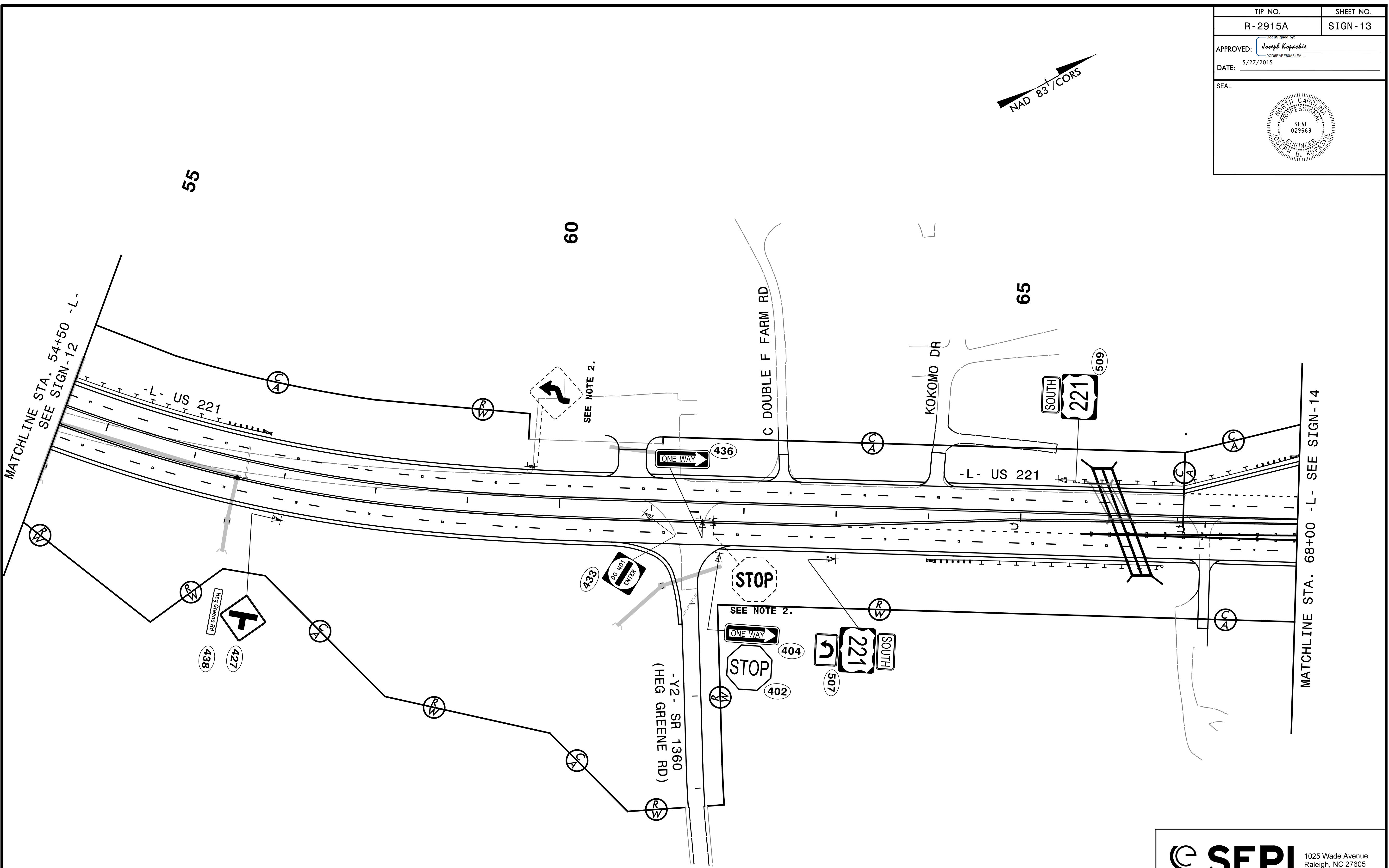
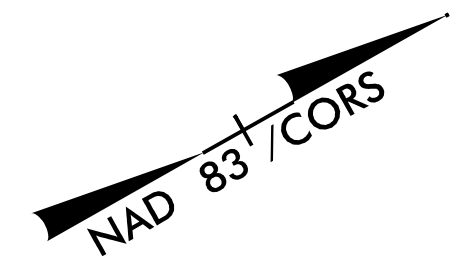
|  |                      |
|--|----------------------|
| TIP NO.<br>R-2915A   | SHEET NO.<br>SIGN-12 |
| Approved by: <i>Joseph Kopaskie</i><br>APPROVED: _____<br><small>0C0EAEF80A54FA...</small> |                      |
| DATE: 5/27/2015  |                      |
| SEAL   |                      |
|  |                      |



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**EXISTING & PROPOSED  
SIGN DETAIL**

|  |           |
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| TIP NO.  | SHEET NO. |
| R-2915A  | SIGN-13   |
| Designed by:<br>APPROVED: <i>Joseph Kopaskie</i><br><small>SCDMEAF80A54FA...</small> |           |
| DATE: 5/27/2015  |           |
| SEAL   |           |
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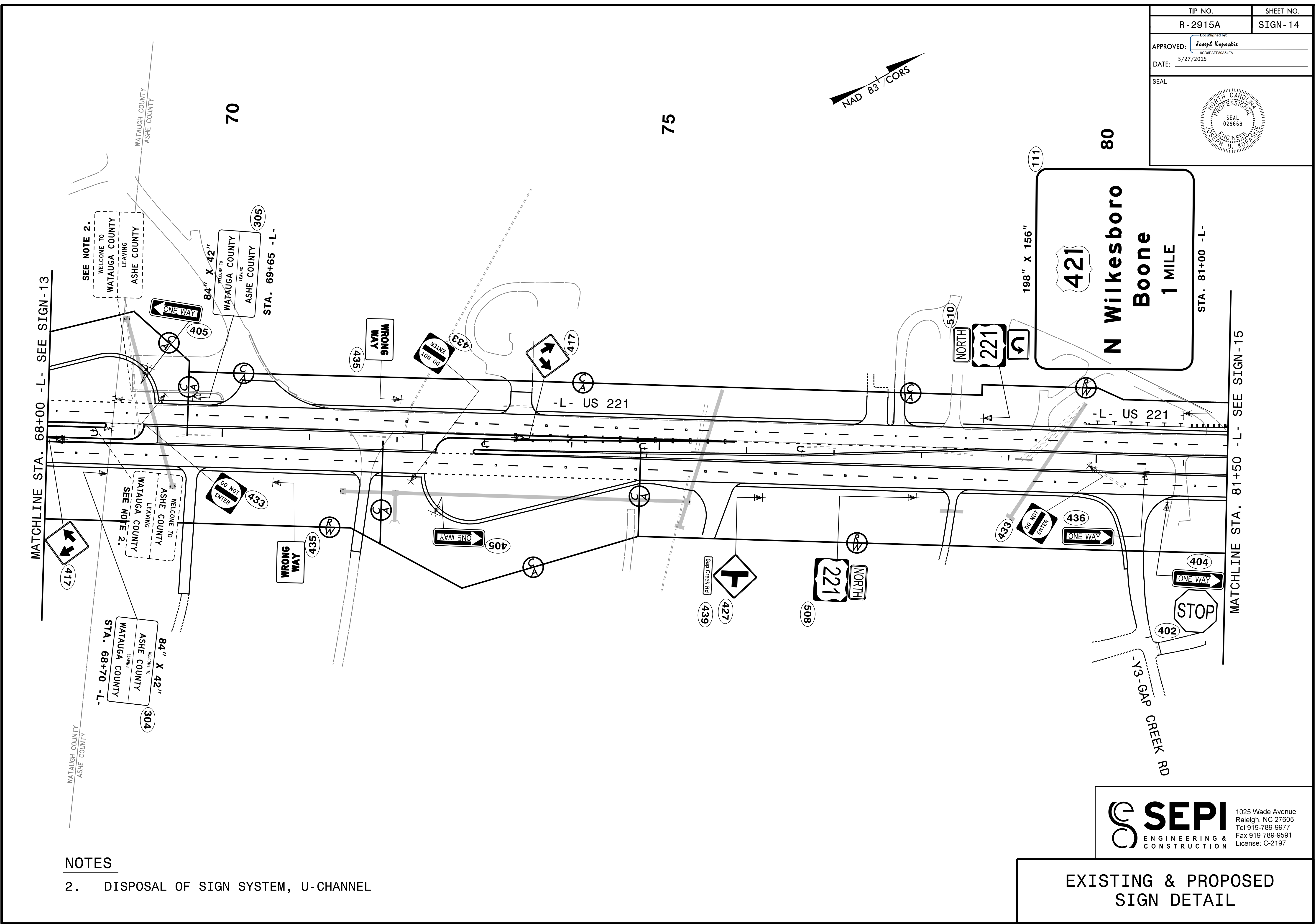
**NOTES**

- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

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**EXISTING & PROPOSED SIGN DETAIL**

|   |           |
|---|-----------|
| TIP NO.   | SHEET NO. |
| R-2915A   | SIGN-14   |
| Designed by:<br>APPROVED: <i>Joseph Kopaskie</i><br><small>SCDMEAEF80AS4FA...</small> |           |
| DATE: 5/27/2015   |           |
| SEAL  |           |
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**NOTES**

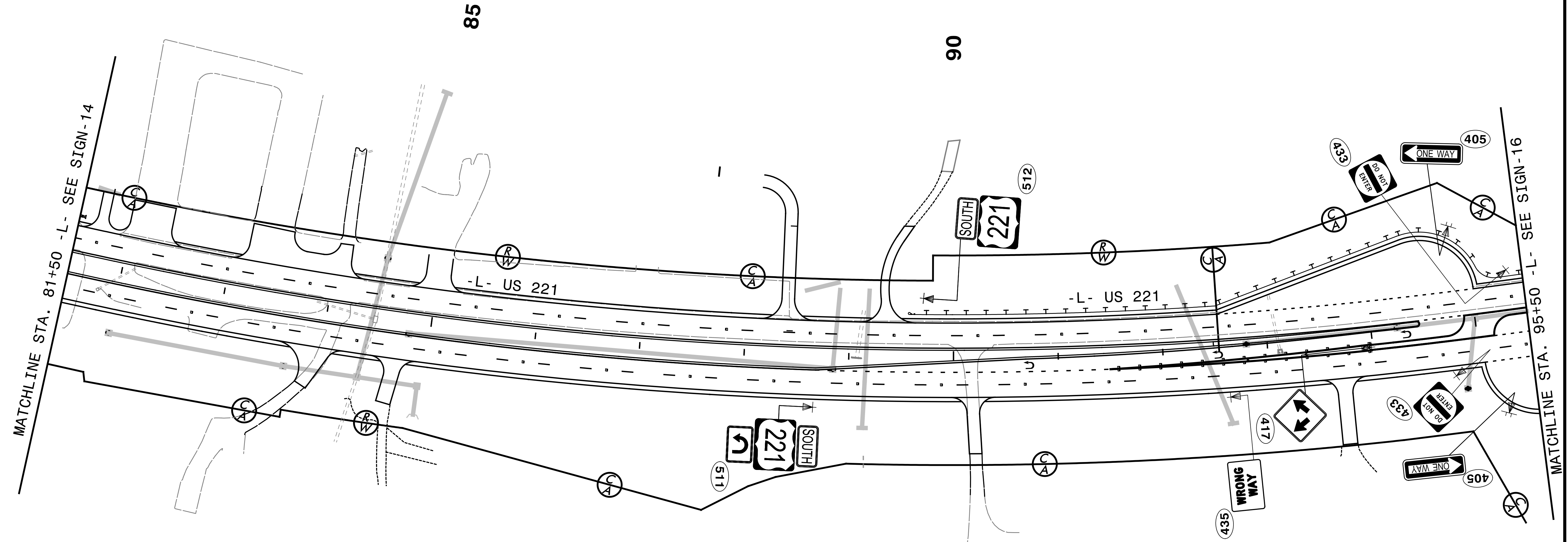
- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL


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**EXISTING & PROPOSED  
SIGN DETAIL**


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| TIP NO.  | SHEET NO. |
| R-2915A  | SIGN-15   |
| Designed by:<br>APPROVED: <i>Joseph Kopaskie</i><br><small>SCDMEAF80A54FA...</small> |           |
| DATE: 5/27/2015  |           |
| SEAL   |           |
|  |           |

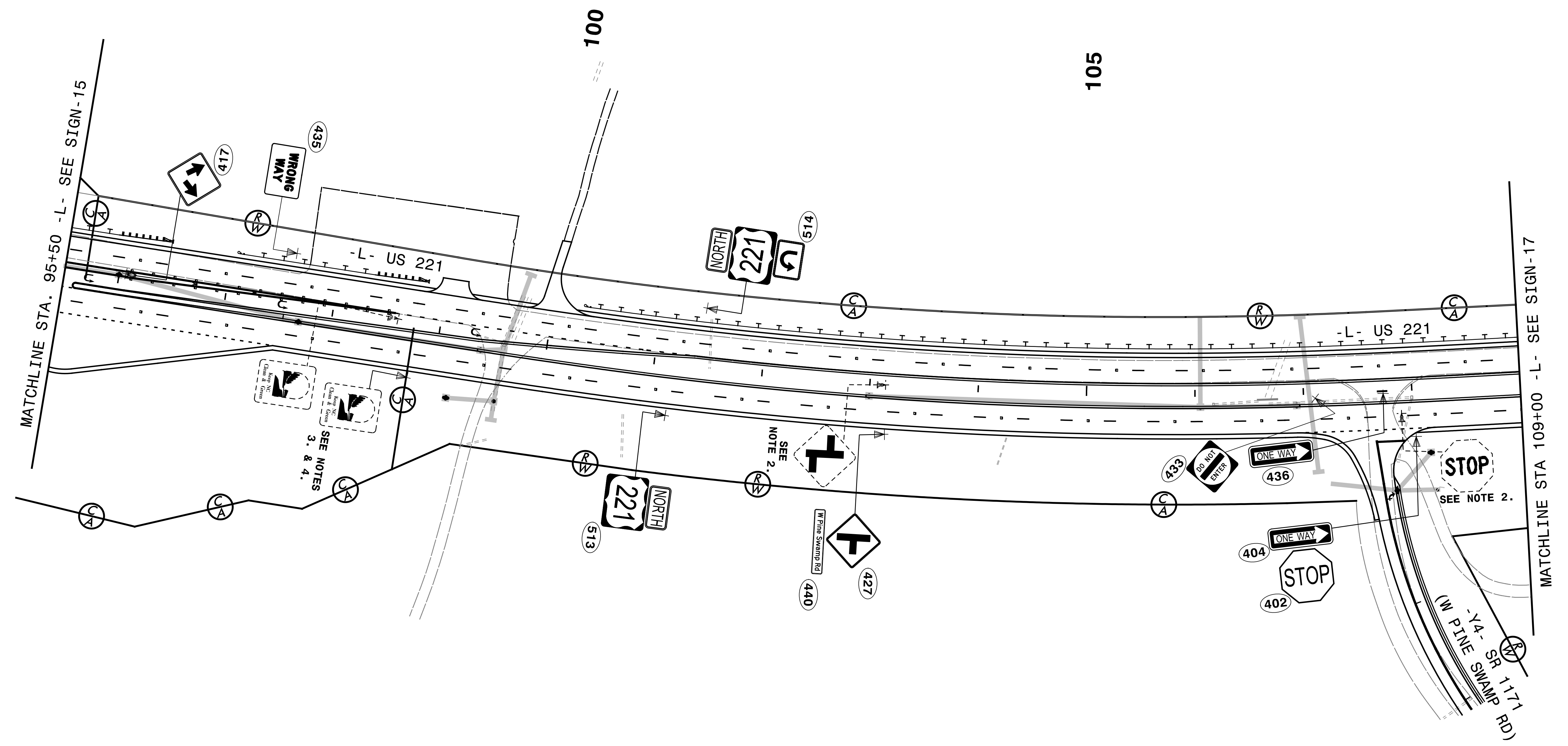
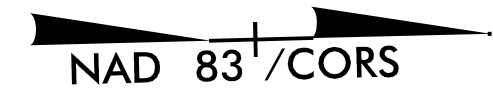
NAD 83 / CORS




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**EXISTING & PROPOSED  
SIGN DETAIL**

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|--|----------------------|
| TIP NO.<br>R-2915A   | SHEET NO.<br>SIGN-16 |
| <small>Designed by:</small><br>APPROVED: <i>Joseph Kopaskie</i><br><small>SCDMEAEF80AS4FA...</small> |                      |
| DATE: 5/27/2015  |                      |
| SEAL<br>          |                      |



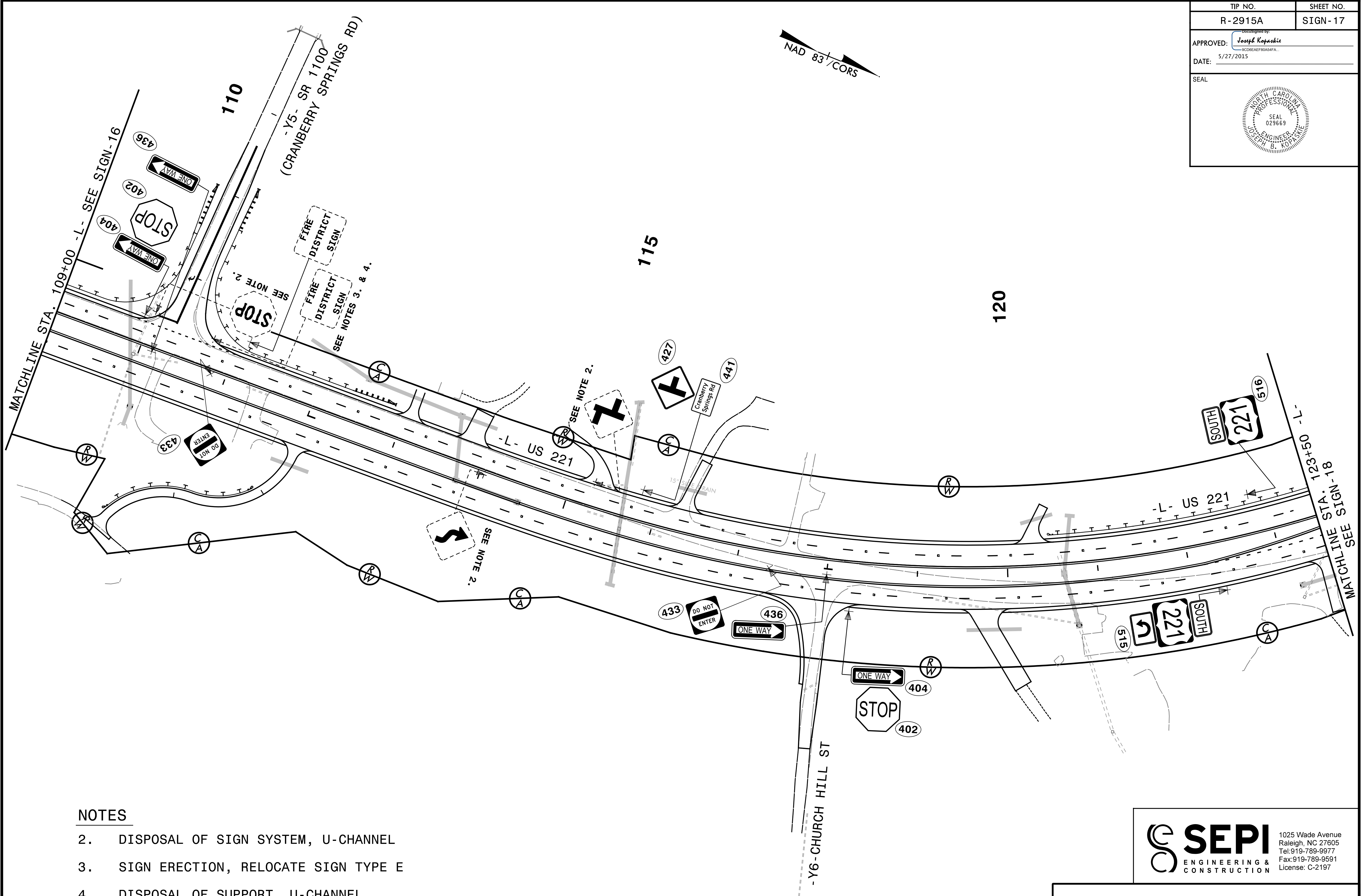
**NOTES**

2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
3. SIGN ERECTION, RELOCATE SIGN TYPE E
4. DISPOSAL OF SUPPORT, U-CHANNEL

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**EXISTING & PROPOSED  
SIGN DETAIL**

|  |                      |
|--|----------------------|
| TIP NO.<br>R-2915A   | SHEET NO.<br>SIGN-17 |
| Designed by:<br>APPROVED: <i>Joseph Kopaskie</i><br><small>SCDMEAF80A54FA...</small> |                      |
| DATE: 5/27/2015  |                      |
| SEAL   |                      |
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**NOTES**

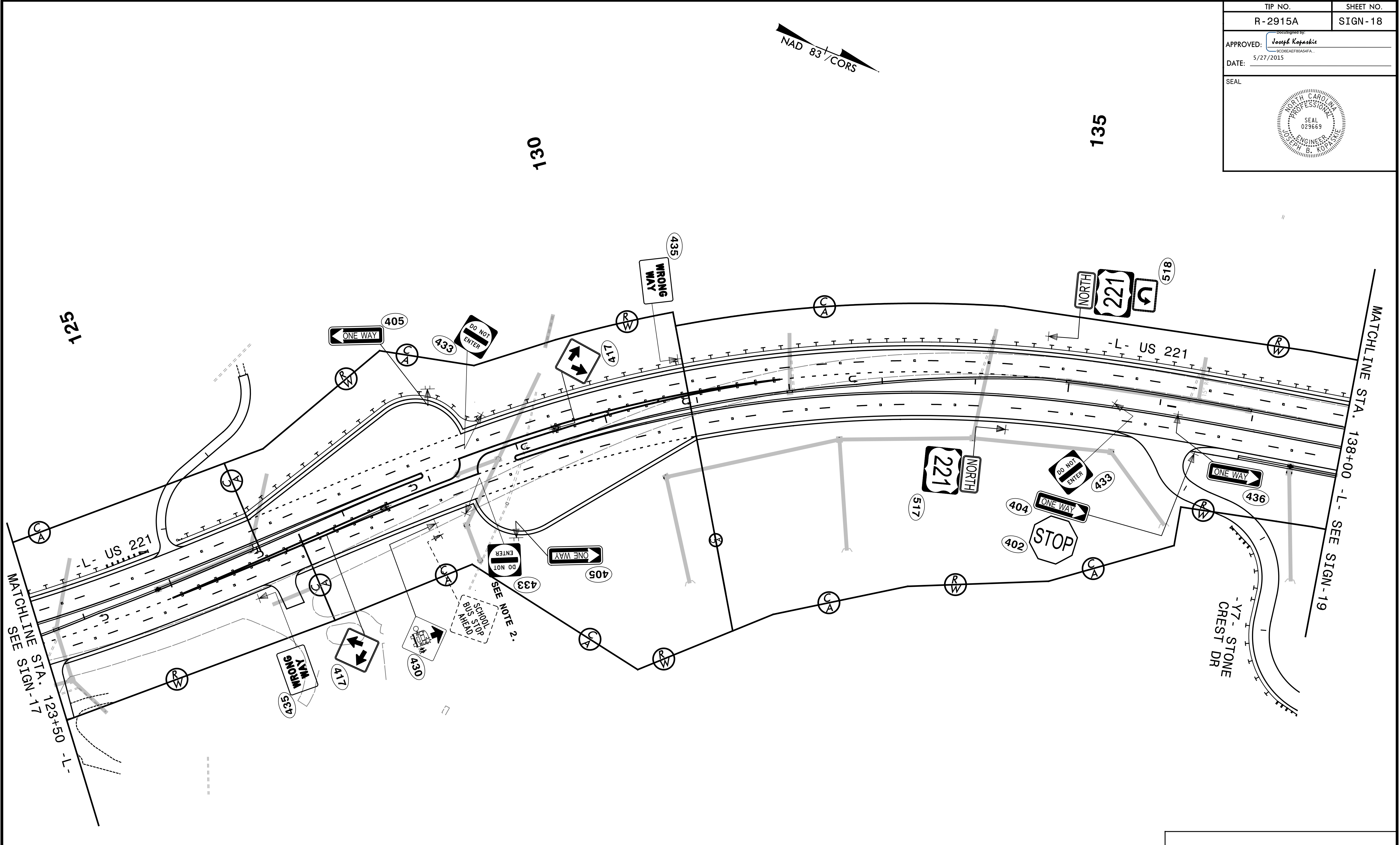
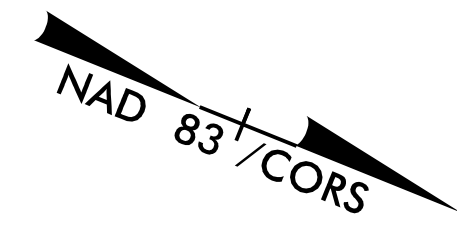
- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 3. SIGN ERECTION, RELOCATE SIGN TYPE E
- 4. DISPOSAL OF SUPPORT, U-CHANNEL

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**EXISTING & PROPOSED  
SIGN DETAIL**



|   |           |
|---|-----------|
| TIP NO.   | SHEET NO. |
| R-2915A   | SIGN-18   |
| Designed by:<br><i>Joseph Kopaske</i>                               |           |
| APPROVED: <i>Joseph Kopaske</i><br><small>SCDMEAF80A54FA...</small> |           |
| DATE: 5/27/2015   |           |
| SEAL  |           |
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**NOTES**

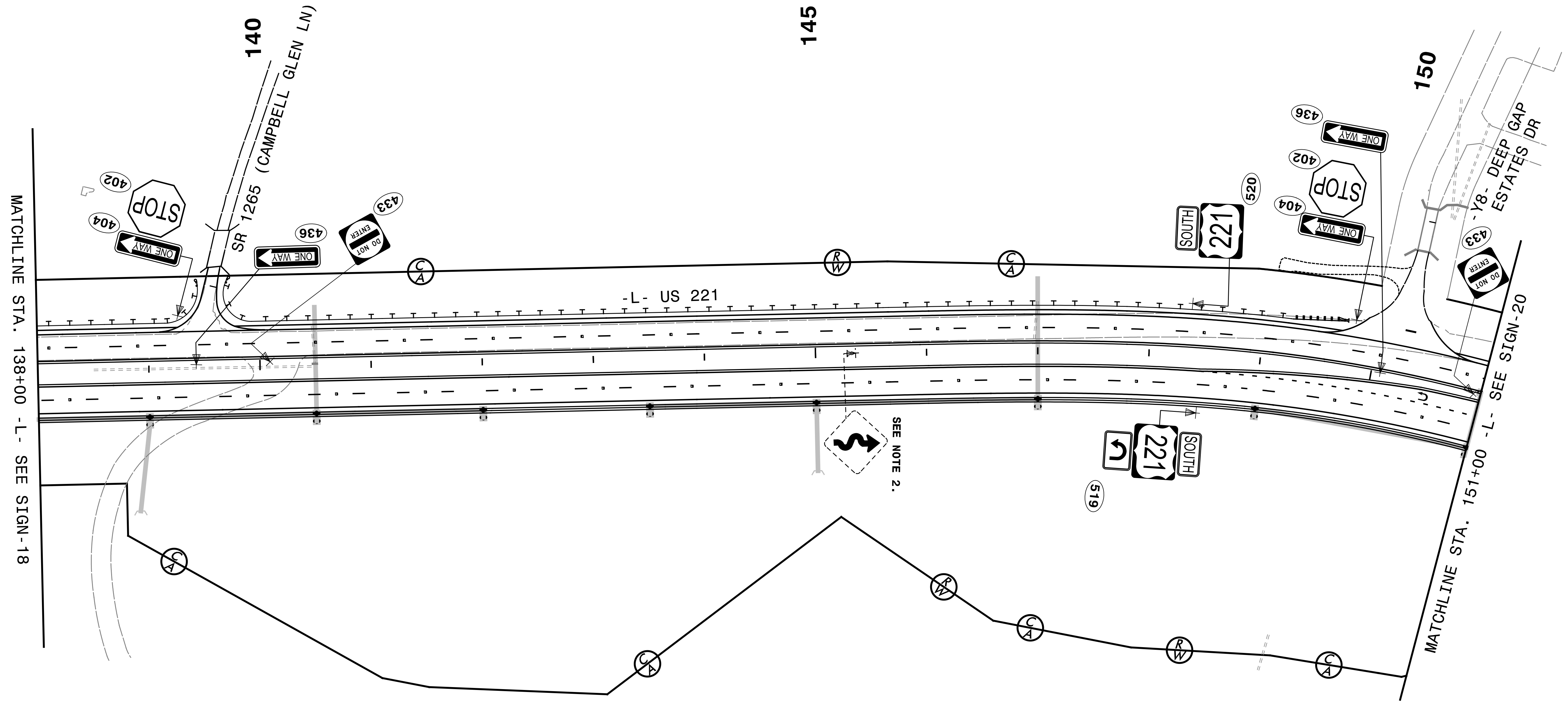
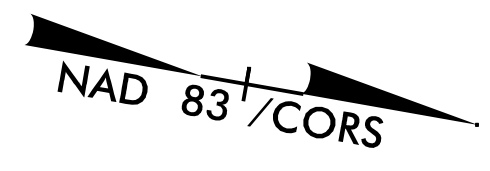
- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

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**EXISTING & PROPOSED  
SIGN DETAIL**

|   |                      |
|---|----------------------|
| TIP NO.<br>R-2915A  | SHEET NO.<br>SIGN-19 |
| Approved by: <i>Joseph Kopaskie</i><br><small>SCDMEAFB0A54FA...</small> |                      |
| DATE: 5/27/2015   |                      |
| SEAL  |                      |
|   |                      |



MATCHLINE STA. 138+00 - L - SEE SIGN-18

MATCHLINE STA. 151+00 - L - SEE SIGN-20

- NOTES**
- DISPOSAL OF SIGN SYSTEM, U-CHANNEL

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**EXISTING & PROPOSED  
SIGN DETAIL**

