

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
WAKE COUNTY**

**LOCATION: BRIDGE NO. 251 OVER US 401 ON US 70/NC 50**

**T.I.P.: B-4946**

**CONTRACT: C203091**

**ROADWAY STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| STD. NO. | TITLE  |
|----------|--|
| 901.10   | TYPE 'A' SIGNS   |
| 901.20   | TYPE 'B' SIGNS   |
| 901.50   | ARROWS AND SHIELDS   |
| 901.70   | SIGN STRINGERS AND SUPPORT SPACING                           |
| 901.80   | SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS          |
| 903.10   | GROUND MOUNTED SIGN SUPPORTS                                 |
| 904.10   | ORIENTATION OF GROUND MOUNTED SIGNS                          |
| 904.20   | SECONDARY SIGN MOUNTING                                      |
| 904.50   | MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS |

**SUMMARY OF QUANTITIES**

| ITEM NO.   | DESC. NO. | SECT. NO. | ITEM DESCRIPTION  | QUANTITY | UNIT |
|------------|-----------|-----------|---|----------|------|
| 4054000000 | 902       |           | PLAIN CONCRETE SIGN FOUNDATIONS.....                        | 1        | C.Y. |
| 4057000000 | SP        |           | OVERHEAD FOOTINGS.....                                      | 20       | C.Y. |
| 4060000000 | 903       |           | SUPPORTS, BREAKAWAY STEEL BEAM.....                         | 553      | LB.  |
| 4072000000 | 903       |           | SUPPORTS, 3-LB STEEL U-CHANNEL.....                         | 340      | L.F. |
| 4082100000 | SP        |           | SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA. 18+73 -L_EBL..... | 1        | L.S. |
| 4096000000 | 904       |           | SIGN ERECTION, TYPE D.....                                  | 4        | EA.  |
| 4102000000 | 904       |           | SIGN ERECTION, TYPE E.....                                  | 9        | EA.  |
| 4108000000 | 904       |           | SIGN ERECTION, TYPE F.....                                  | 2        | EA.  |
| 4109000000 | 904       |           | SIGN ERECTION, TYPE A (OVERHEAD).....                       | 4        | EA.  |
| 4109000000 | 904       |           | SIGN ERECTION, TYPE B (OVERHEAD).....                       | 2        | EA.  |
| 4110000000 | 904       |           | SIGN ERECTION, TYPE A (GROUND MOUNTED).....                 | 1        | EA.  |
| 4116100000 | 904       |           | SIGN ERECTION, RELOCATE, TYPE F.....                        | 1        | EA.  |
| 4149000000 | 907       |           | DISPOSAL OF SIGN SYSTEM, OVERHEAD.....                      | 1        | EA.  |
| 4155000000 | 907       |           | DISPOSAL OF SIGN SYSTEM, U-CHANNEL.....                     | 10       | EA.  |
| 4192000000 | 907       |           | DISPOSAL OF SUPPORT, U-CHANNEL.....                         | 1        | EA.  |
| 4234000000 | 907       |           | DISPOSAL OF SIGN, A OR B (OVERHEAD).....                    | 4        | EA.  |

**GENERAL NOTES**

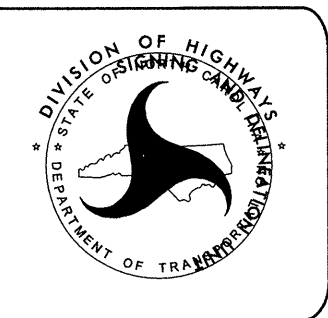
- . SIGNS FURNISHED BY STATE
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING. SEE TRAFFIC CONTROL PLANS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

**INDEX**

| SHEET NO. | DESCRIPTION                              |
|-----------|--|
| SIGN-1    | TITLESHEET                               |
| SIGN-1A   | REVISED SIGNING ROADWAY STANDARD DRAWING |
| SIGN-2    | SUPPORT INFORMATION                      |
| SIGN-3    | E AND F SHEET                            |
| SIGN-4-4C | SIGN DESIGNS AND OVERHEAD DETAIL         |
| SIGN-5-6  | SIGN DETAIL SHEETS                       |

**PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT**

**SUSAN KUNZ** SIGNING & DELINEATION REGIONAL ENGINEER  
**STACEY JOHNS** SIGNING & DELINEATION DESIGN ENGINEER



**PLAN PREPARED BY:**

**BETSY L. WATSON, P.E.** TRAFFIC ENGINEER  
**ROSI R. HENNEIN** TRANSPORTATION TECHNICIAN



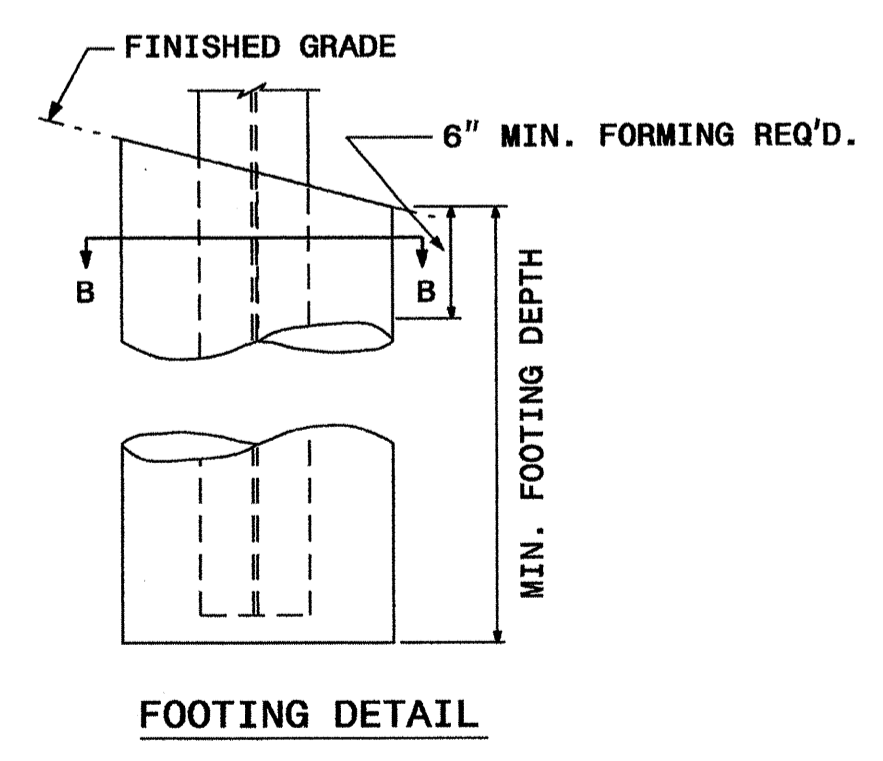
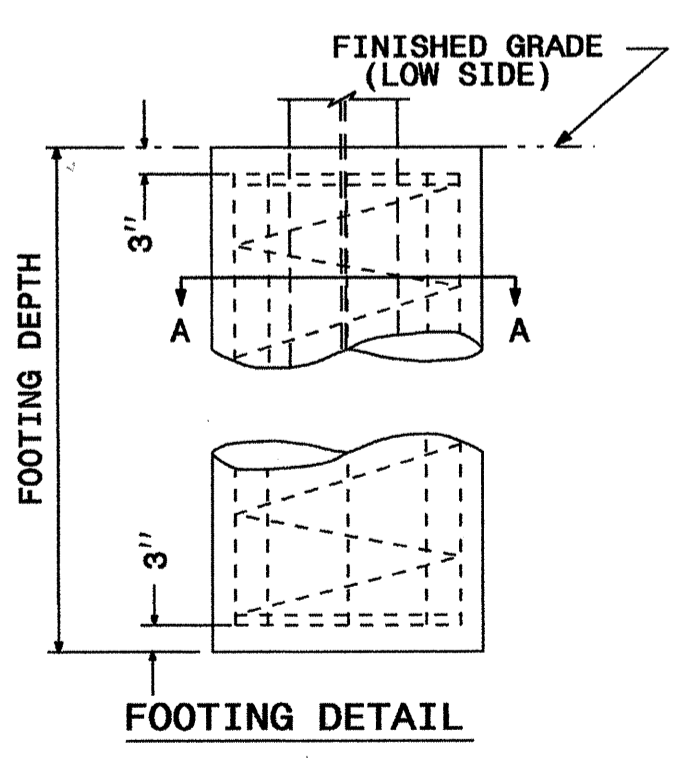
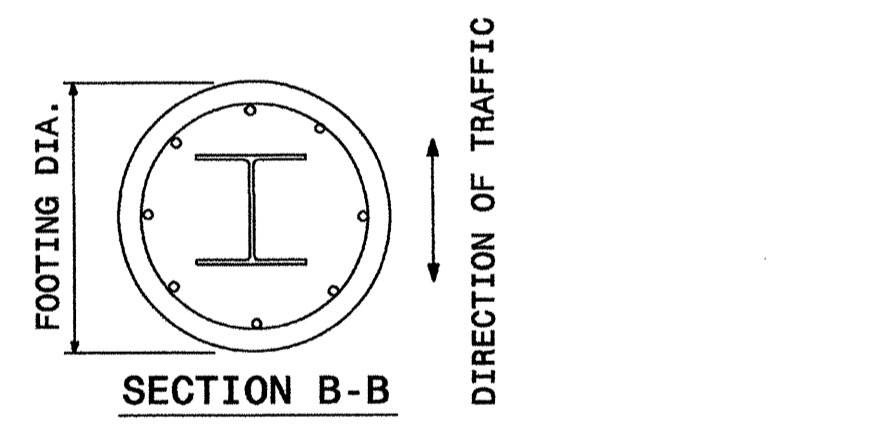
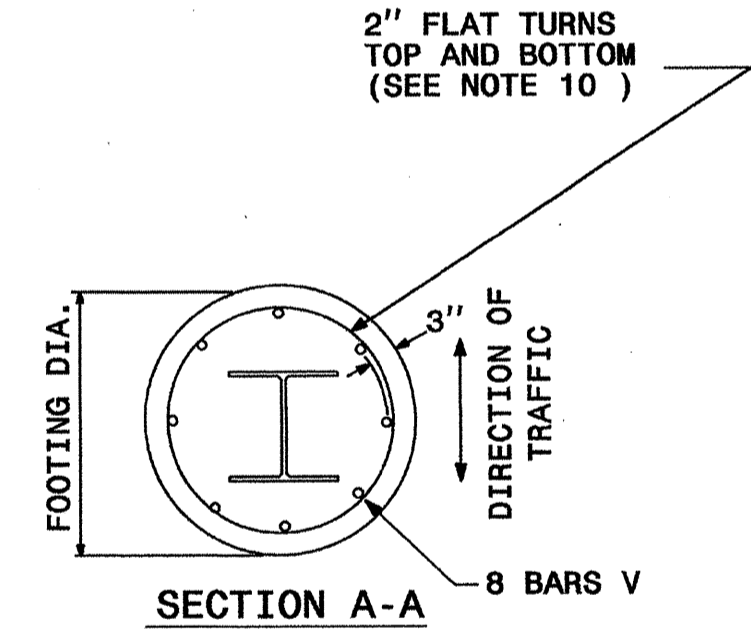
|                      |                      |
|----------------------|----------------------|
| TIP NO.<br>B-4946    | SHEET NO.<br>SIGN-1A |
| APPROVED: <i>RAW</i> |                      |
| DATE: 3/8/12         |                      |
| SEAL                 |                      |
|                      |                      |

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 | BOLT SIZE         | SLIP BASE PLATE DATA |                |                |                |                |                |                | KEEPER PLATE DATA |                |                |                |                |                |                | HINGE CONNECTION DATA |        |        |        |        |        |      | BREAK AWAY SUPPORT WEIGHT CONSTANT LBS. |         |                |                |
|------------|-------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------|--------|--------|--------|--------|--------|------|---|---------|----------------|----------------|
|            |                   | 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"     | 7"                   | 4"             | 1"             | 3/4"           | 2 1/2"         | 1"             | 9/32"          | 7"                | 4"             | 1"             | 3/4"           | 2 1/2"         | 9/32"          | 28 GAUGE       | 1/2"DIA. X 1 1/4"     | 2 1/4" | 3 1/2" | 4"     | 1/2"   | 1"     | 1/2" | 2"                                      | 9/32"   | 3/8"           | 18             |
| S4X7.7     | 1/2"DIA. X 3"     | 8"                   | 4"             | 1"             | 3/4"           | 2 1/2"         | 1"             | 9/32"          | 8"                | 4"             | 1"             | 3/4"           | 2 1/2"         | 9/32"          | 28 GAUGE       | 1/2"DIA. X 1 1/4"     | 2 5/8" | 3 1/2" | 4"     | 1/2"   | 1"     | 1/2" | 2"                                      | 9/32"   | 3/8"           | 20             |
| W6X9       | 1/2"DIA. X 3"     | 10"                  | 5"             | 1"             | 3/4"           | 3 1/2"         | 1"             | 9/32"          | 10"               | 5"             | 1"             | 3/4"           | 3 1/2"         | 9/32"          | 28 GAUGE       | 1/2"DIA. X 1 1/4"     | 4"     | 3 1/2" | 4"     | 3/4"   | 1"     | 1/2" | 2"                                      | 9/32"   | 3/8"           | 32             |
| W6X12      | 5/8"DIA. X 3 3/4" | 11"                  | 5"             | 1 1/4"         | 7/8"           | 3 1/4"         | 1 1/4"         | 1 1/32"        | 11"               | 5"             | 1 1/4"         | 7/8"           | 3 1/4"         | 1 1/32"        | 28 GAUGE       | 5/8"DIA. X 2 1/4"     | 4"     | 4"     | 4 1/2" | 3/4"   | 1 1/8" | 5/8" | 2 1/4"                                  | 1 1/32" | 3/8"           | 39             |
| W6X16      | 5/8"DIA. X 3 3/4" | 12"                  | 6"             | 1 1/4"         | 7/8"           | 4 1/4"         | 1 1/2"         | 1 1/32"        | 12"               | 6"             | 1 1/4"         | 7/8"           | 4 1/4"         | 1 1/32"        | 28 GAUGE       | 5/8"DIA. X 2 1/2"     | 4"     | 4"     | 4 1/2" | 3/4"   | 1 1/8" | 5/8" | 2 1/4"                                  | 1 1/32" | 1/2"           | 47             |
| W8X18      | 5/8"DIA. X 4 1/4" | 13 1/2"              | 6 1/2"         | 1 1/4"         | 7/8"           | 4 3/4"         | 1 1/2"         | 1 1/32"        | 13 1/2"           | 6 1/2"         | 1 1/4"         | 7/8"           | 4 3/4"         | 1 1/32"        | 28 GAUGE       | 5/8"DIA. X 2 1/2"     | 5 1/4" | 4"     | 4 1/2" | 1"     | 1 1/8" | 5/8" | 2 1/4"                                  | 1 1/32" | 1/2"           | 70             |
| W8X21      | 3/4"DIA. X 4 1/4" | 14"                  | 7"             | 1 1/2"         | 1"             | 5"             | 1 1/2"         | 1 1/32"        | 14"               | 7"             | 1 1/2"         | 1"             | 5"             | 1 1/32"        | 28 GAUGE       | 3/4"DIA. X 2 3/4"     | 5 1/4" | 6"     | 7"     | 1"     | 1 3/4" | 3/4" | 3 1/2"                                  | 1 1/32" | 1/2"           | 73             |
| W10X22     | 3/4"DIA. X 4 1/4" | 16"                  | 8"             | 1 1/2"         | 1"             | 6"             | 1 1/2"         | 1 1/32"        | 16"               | 8"             | 1 1/2"         | 1"             | 6"             | 1 1/32"        | 28 GAUGE       | 3/4"DIA. X 2 3/4"     | 5 3/4" | 6"     | 7"     | 1"     | 1 3/4" | 3/4" | 3 1/2"                                  | 1 1/32" | 1/2"           | 119            |
| W10X26     | 3/4"DIA. X 4 3/4" | 16 1/2"              | 8"             | 1 1/2"         | 1"             | 6"             | 1 3/4"         | 1 1/32"        | 16 1/2"           | 8"             | 1 1/2"         | 1"             | 6"             | 1 1/32"        | 28 GAUGE       | 3/4"DIA. X 2 3/4"     | 5 3/4" | 6"     | 7"     | 1"     | 1 3/4" | 3/4" | 3 1/2"                                  | 1 1/32" | 5/8"           | 140            |
| W12X26     | 3/4"DIA. X 4 3/4" | 18 1/2"              | 9"             | 1 1/2"         | 1"             | 7"             | 1 3/4"         | 1 1/32"        | 18 1/2"           | 9"             | 1 1/2"         | 1"             | 7"             | 1 1/32"        | 28 GAUGE       | 3/4"DIA. X 2 3/4"     | 6 1/2" | 6"     | 7"     | 1"     | 1 3/4" | 3/4" | 3 1/2"                                  | 1 1/32" | 5/8"           | 176            |
| W14X30     | 1"DIA. X 5"       | 22"                  | 9"             | 2"             | 1 1/2"         | 6"             | 2"             | 1 1/32"        | 22"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/32"        | 28 GAUGE       | 1"DIA. X 3"           | 6 3/4" | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"                                      | 1 1/32" | 5/8"           | 205            |
| W16X31     | 1"DIA. X 5"       | 24"                  | 9"             | 2"             | 1 1/2"         | 6"             | 2"             | 1 1/32"        | 24"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/32"        | 28 GAUGE       | 1"DIA. X 3 1/4"       | 5 1/2" | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"                                      | 1 1/32" | 3/4"           | 223            |
| W18X35     | 1"DIA. X 5"       | 25"                  | 9"             | 2"             | 1 1/2"         | 6"             | 2"             | 1 1/32"        | 25"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/32"        | 28 GAUGE       | 1"DIA. X 3 1/4"       | 6"     | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"                                      | 1 1/32" | 3/4"           | 243            |
| W18X40     | 1"DIA. X 5 1/2"   | 26"                  | 9"             | 2"             | 1 1/2"         | 6"             | 2 1/4"         | 1 1/32"        | 26"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/32"        | 28 GAUGE       | 1"DIA. X 3 3/4"       | 6"     | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"                                      | 1 1/32" | 7/8"           | 278            |
| W21X44     | 1"DIA. X 5 1/2"   | 29"                  | 9"             | 2"             | 1 1/2"         | 6"             | 2 1/2"         | 1 1/32"        | 29"               | 9"             | 2"             | 1 1/2"         | 6"             | 1 1/32"        | 28 GAUGE       | 1"DIA. X 3 3/4"       | 6 1/2" | 7"     | 8"     | 1 1/4" | 2"     | 1"   | 4"                                      | 1 1/32" | 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

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 RALEIGH, N.C.

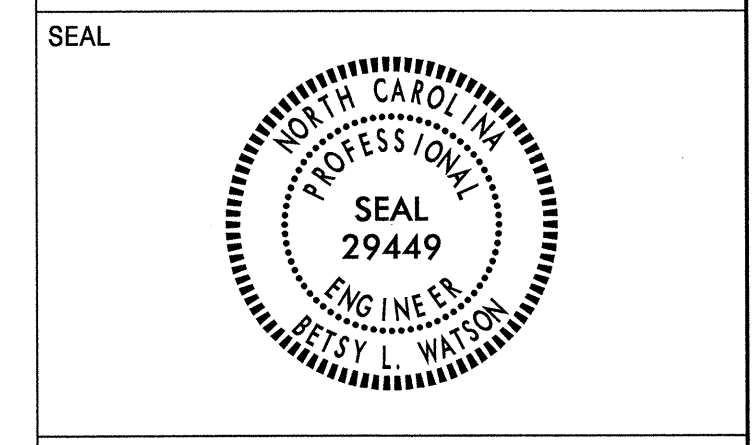
ENGLISH DETAIL DRAWING FOR  
**GROUND MOUNTED SIGN SUPPORTS**

SHEET 2 OF 3  
**903D10**

**REVISED SIGNING  
ROADWAY STANDARD DRAWING**

08-MAR-2012 11:10  
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 3:58 PM C:\Standard Drawings\Standard Dwg 8-17-11\Revised\0903D10\_sgn\_sht02.dgn support...Sealed.dgn

APPROVED: *Betsy L. Watson*  
DATE: 1/1/13



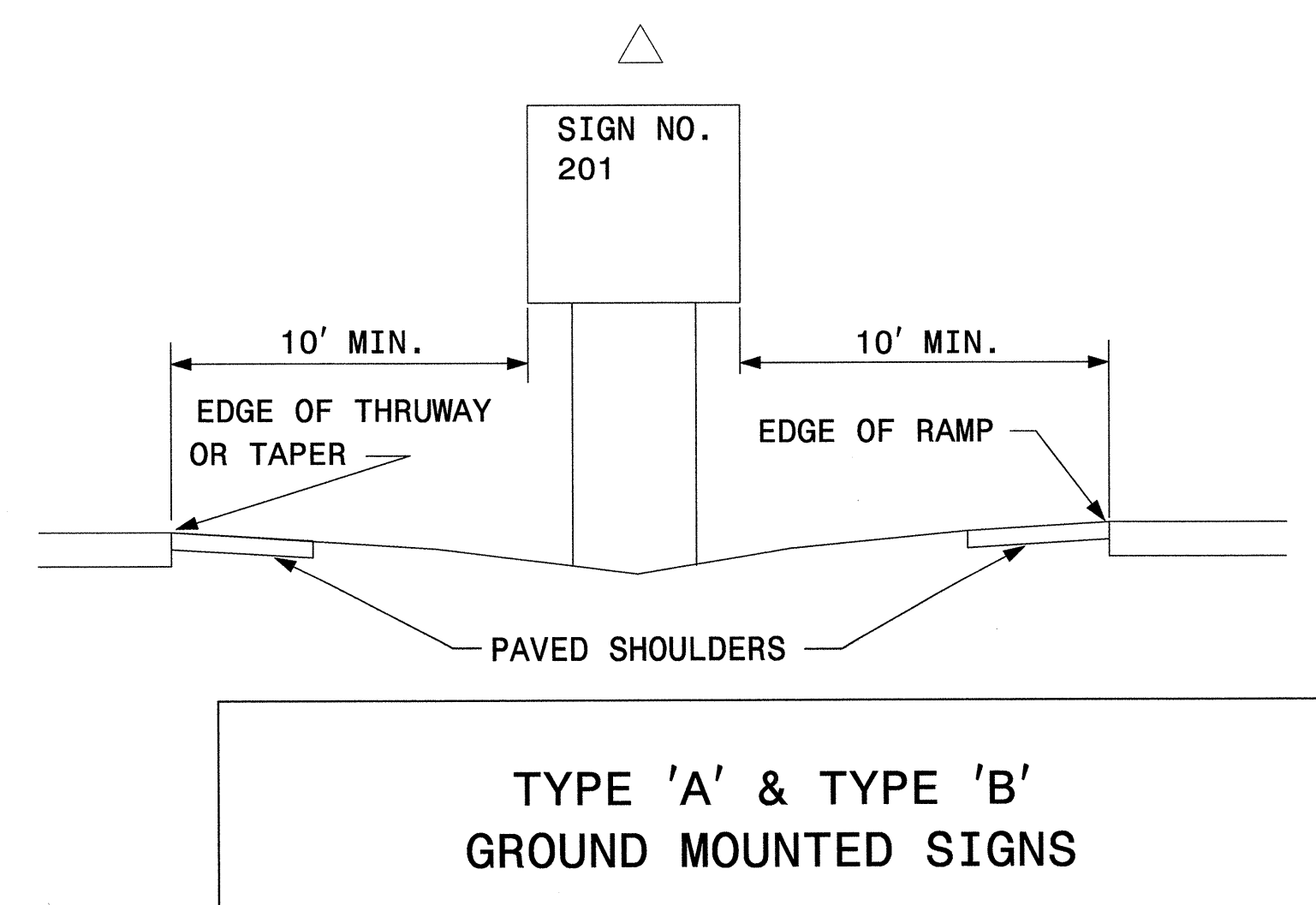
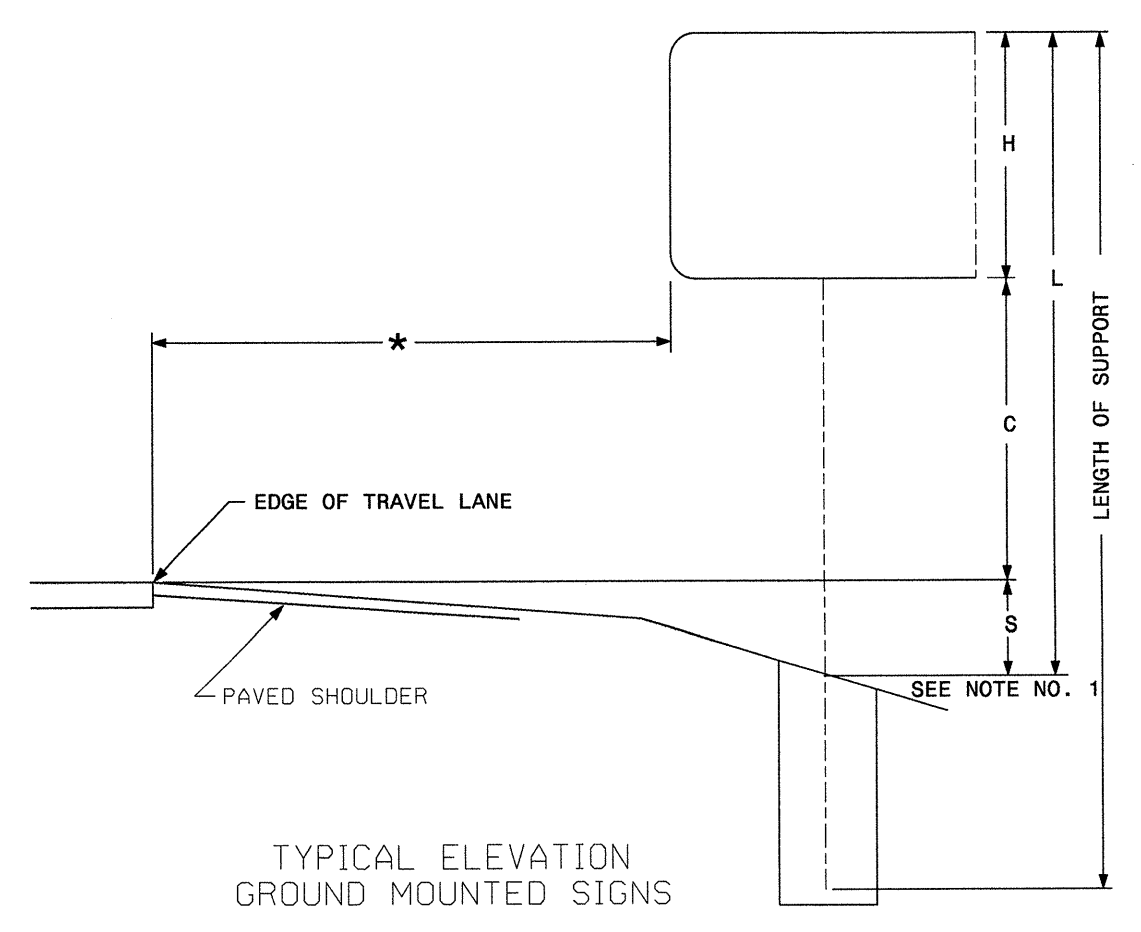
Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. (919) 851-8868  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0672

### SUPPORT CHART

| 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) |       |       | RIGHT SUPPORT (ft) |       |       | FOOTING DIAMETER (ft.) | FOOTING DEPTH (ft.) | B/A SUPPORT WEIGHTS (lbs.) | 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 |  |      |     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 101      | B         | 108             | X | 36              | -I_SBI- STA 17+90 | 2            | S4x7.7               | BA            | N/A             | N/A                | 20.00       | 3.00     | 7.00     | 3.5               | 0.94  | 10.94 | 14.44              | 1.24  | 11.24 | 14.74                  | 1                   | 4                          | 265.29             | 0.23                                 |              |  |      |     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 201      | A         | 72              | X | 60              | -I_SBI- STA 13+20 | 2            | S4x7.7               | BA            | N/A             | N/A                | 5.00        | 7.00     | 3.5      | 0.50              | 12.50 | 16.00 | 0.50               | 12.50 | 16.00 | 1                      | 4                   | 287.01                     | 0.23               |                                      |              |  |      |     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|          |           |                 |   |                 |                   |              |                      |               |                 |                    |             |          |          |                   |       |       |                    |       |       |                        | TOTAL               | 552.30                     | TOTAL              | 0.47                                 |              |  | USE: | 553 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |

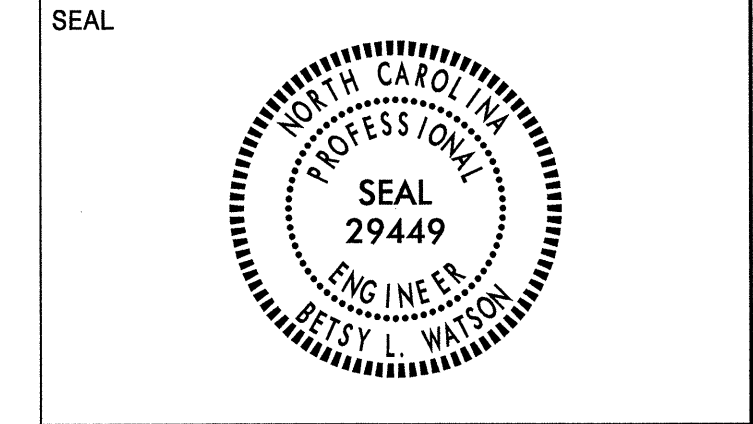
**NOTES**

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
- 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
- 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.



1/1/2013  
U:\B-4946\Signing\B-4946.sign\_sheets\1-4.dgn  
Rhennein

APPROVED: *Patty L. Watson*  
 DATE: 1/7/13



**Stantec**  
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 Suite 300  
 Raleigh, NC 27606  
 Tel. (919) 851-6866  
 Fax. (919) 851-7024  
 www.stantec.com  
 License No. F-0672

401 QUANTITY REQ'D 1

36 X 36  
W3-3

ONE "U" POST PER SIGN

501

2 - 24 X 12  
2 - 24 X 24

TWO "U" POSTS PER SIGN

402 QUANTITY REQ'D 2

54 X 18  
R6-1R

MOUNT BEHIND SIGN 405  
IN 2 INSTALLATIONS

502

1 - 24 X 12  
1 - 30 X 24

ONE "U" POST PER SIGN

403 QUANTITY REQ'D 1

24 X 30  
R4-7

ONE "U" POST PER SIGN

404 QUANTITY REQ'D 1

18 X 18  
OM1-3

MOUNT BELOW SIGN 403  
IN 1 INSTALLATION

405 QUANTITY REQ'D 4

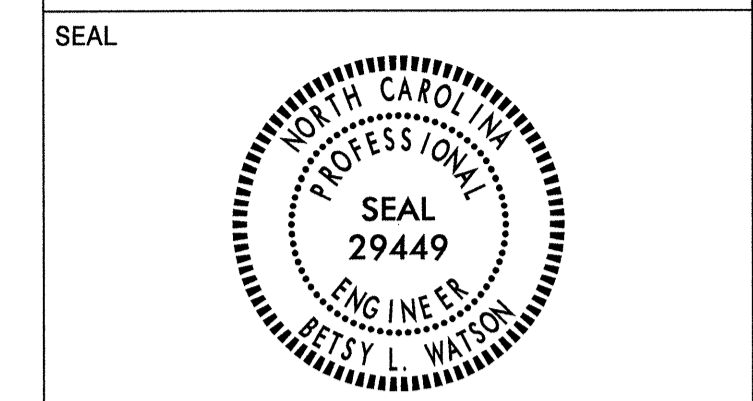
54 X 18  
R6-1L

TWO "U" POSTS PER SIGN

TYPE 'E' SIGNS  
 &  
 TYPE 'F' SIGNS

APPROVED: *[Signature]*

DATE: 1/7/13

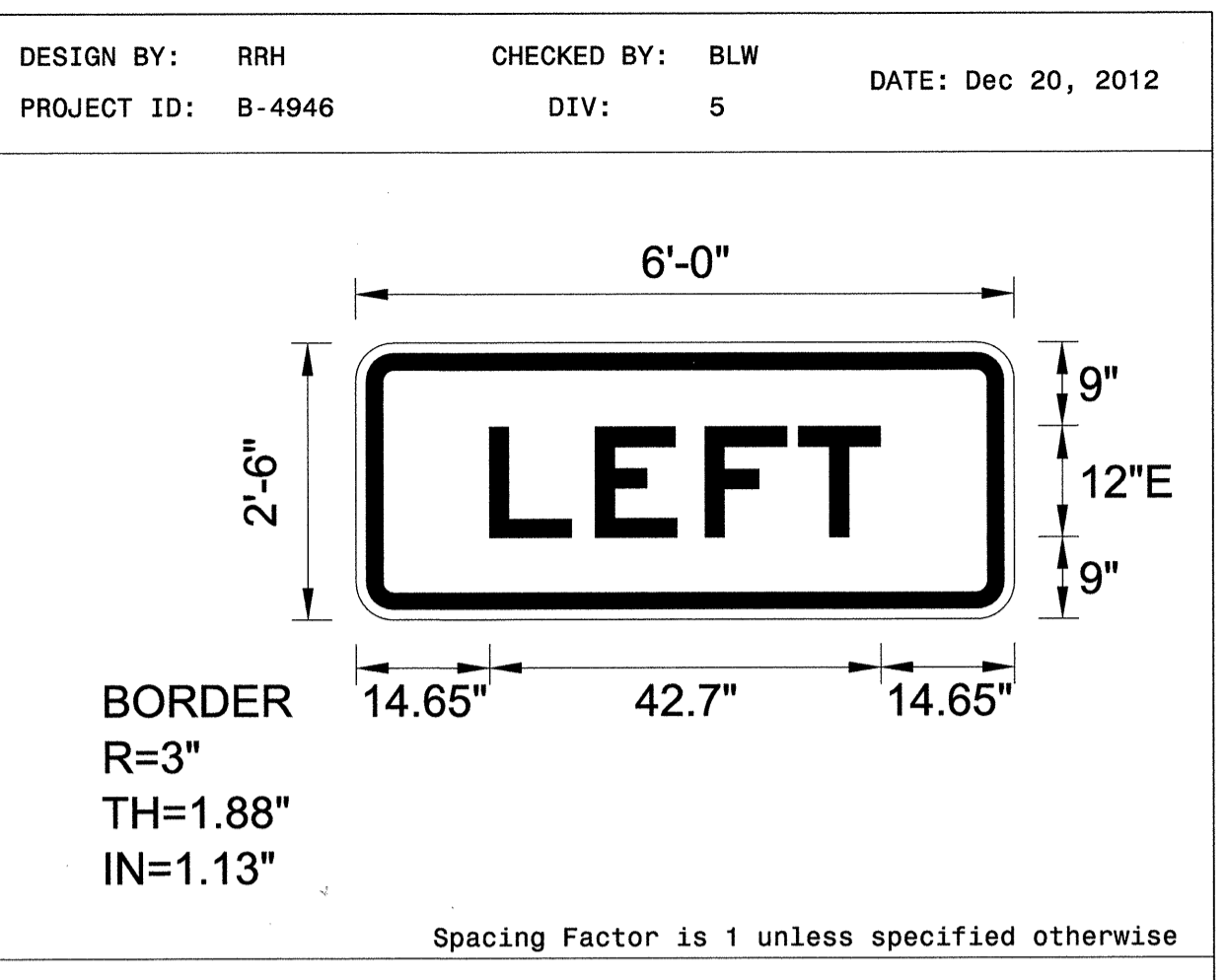


SIGN NUMBER: 1A,3A,5A  
TYPE: B  
QUANTITY: 3  
SIGN WIDTH: 72"  
HEIGHT: 30"  
TOTAL AREA: 15.0 Sq.Ft.  
BORDER TYPE: RECESSED  
RADIUS: 3"  
WIDTH: 1.88"  
RECESS: 1.13"  
NO. Z BARS:  
LENGTH:

BACKG COLOR: Yellow  
COPY COLOR: Black

| SYMBOL | X | Y | WID | HT |
|--------|---|---|-----|----|
| M1_4   |   |   |     |    |

MAT'L: 0.125" (3.2MM) ALUMINUM



USE NOTES  
1. Legend and border shall be direct applied black non-reflective sheeting.  
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

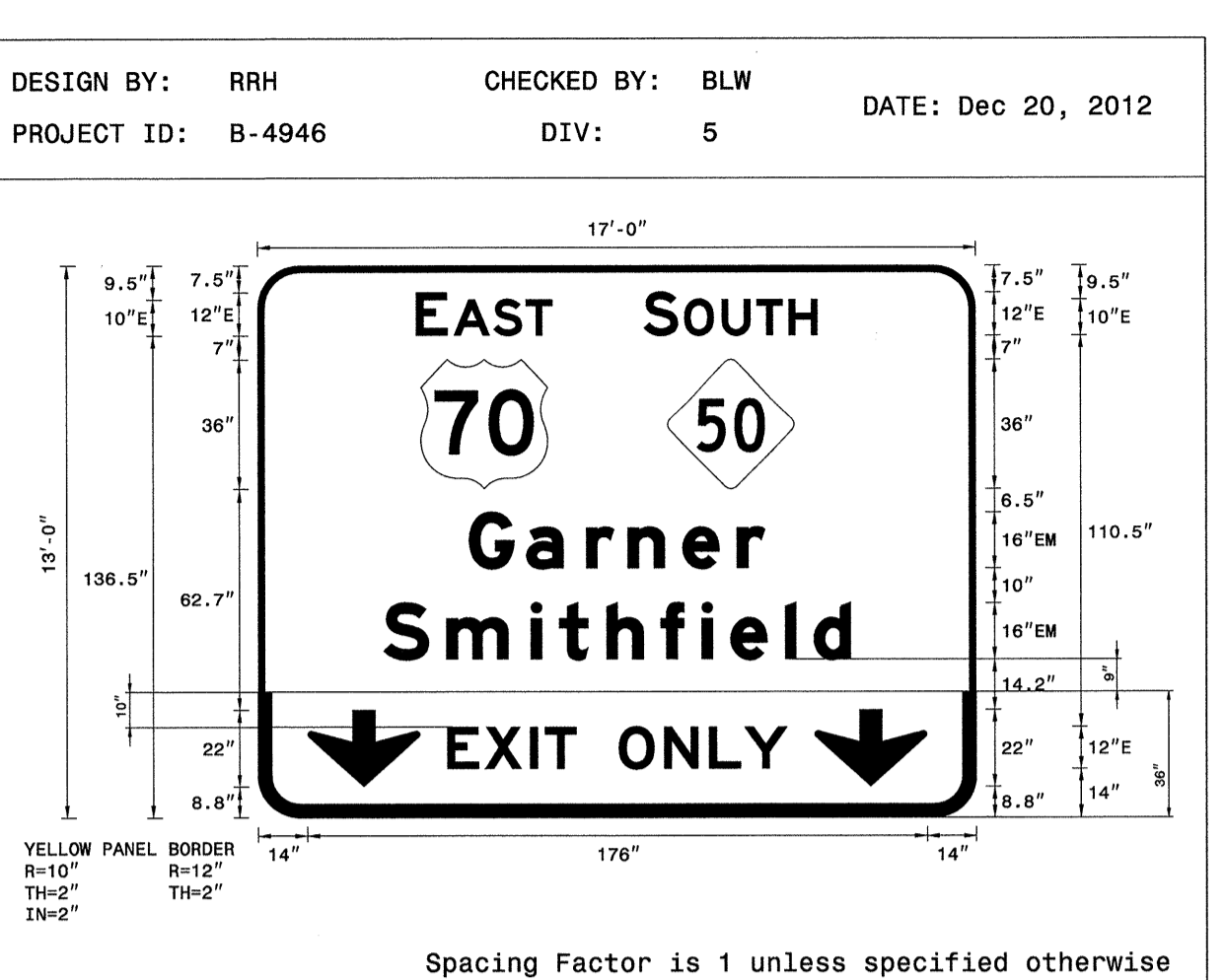
| L    | E    | F  | T    | Series/Size Text Length |
|------|------|----|------|-------------------------|
| 14.6 | 11.6 | 12 | 10.2 | E 2000 42.8             |

SIGN NUMBER: 1B,3B  
TYPE: A  
QUANTITY: 2  
SIGN WIDTH: 204"  
HEIGHT: 156"  
TOTAL AREA: 221.0 Sq.Ft.  
BORDER TYPE: FLUSH  
RADIUS: 12"  
WIDTH: 2"  
RECESS: 0"  
NO. Z BARS: 4  
LENGTH: 196.0

BACKG COLOR: Green  
COPY COLOR: White

| SYMBOL          | X    | Y    | WID | HT |
|-----------------|------|------|-----|----|
| M1_4            | 46.4 | 93.5 | 36  | 36 |
| M1-5-2-36-156.4 | 93.5 | 36   | 36  |    |
| AR_Down         | 14   | 8.9  | 32  | 22 |
| AR_Down         | 156  | 8.9  | 32  | 22 |

MAT'L: 0.125" (3.2MM) ALUMINUM



USE NOTES  
1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting.  
2. Background shall be Grade C reflective sheeting.  
3. Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.  
4. Bottom panel shall be yellow Grade C sheeting on background with black recessed border. RECESS=2" THICKNESS=2".

LETTER POSITIONS

Letter spacings are to start of next letter

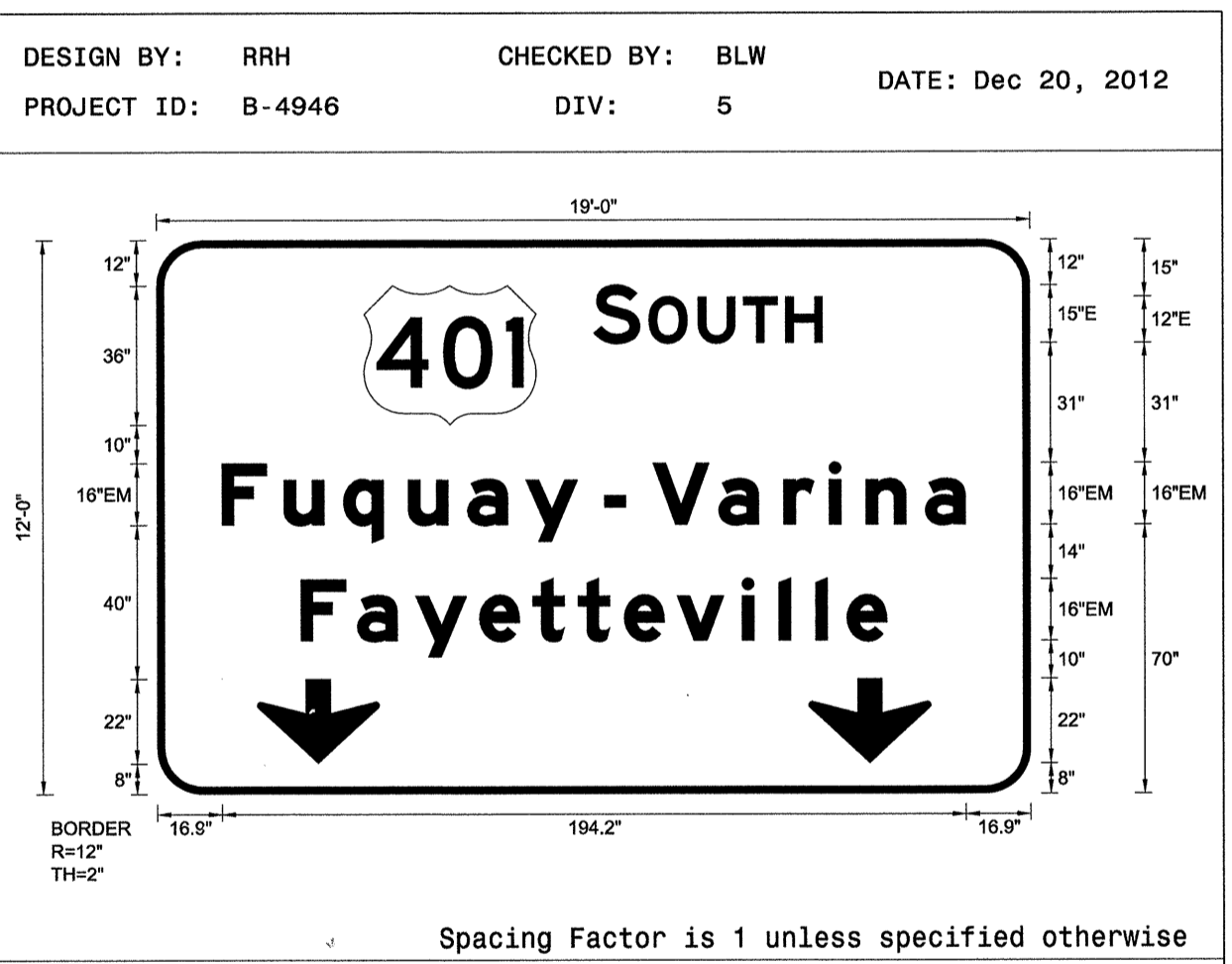
| E     | A    | S    | T    | Series/Size Text Length |
|-------|------|------|------|-------------------------|
| 45    | 9    | 1.7  | 11.3 | E 2000 38.8             |
| 109.7 | 9.7  | 1.7  | 10.7 | E 2000 49.3             |
| 59.9  | 16.3 | 17   | 11.8 | EM 2000 84.2            |
| 35.6  | 17.9 | 24   | 8    | EM 2000 132.8           |
| 53.7  | 10.7 | 12.8 | 4.2  | E 2000 96.6             |

SIGN NUMBER: 2,4  
TYPE: A  
QUANTITY: 2  
SIGN WIDTH: 228"  
HEIGHT: 144"  
TOTAL AREA: 228.0 Sq.Ft.  
BORDER TYPE: FLUSH  
RADIUS: 12"  
WIDTH: 2"  
RECESS: 0"  
NO. Z BARS: 3  
LENGTH: 220.0

BACKG COLOR: Green  
COPY COLOR: White

| SYMBOL  | X    | Y  | WID | HT |
|---------|------|----|-----|----|
| M1_4    | 54.1 | 96 | 45  | 36 |
| AR_Down | 26   | 8  | 32  | 22 |
| AR_Down | 170  | 8  | 32  | 22 |

MAT'L: 0.125" (3.2MM) ALUMINUM



USE NOTES  
1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting.  
2. Background shall be Grade C reflective sheeting.  
3. 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

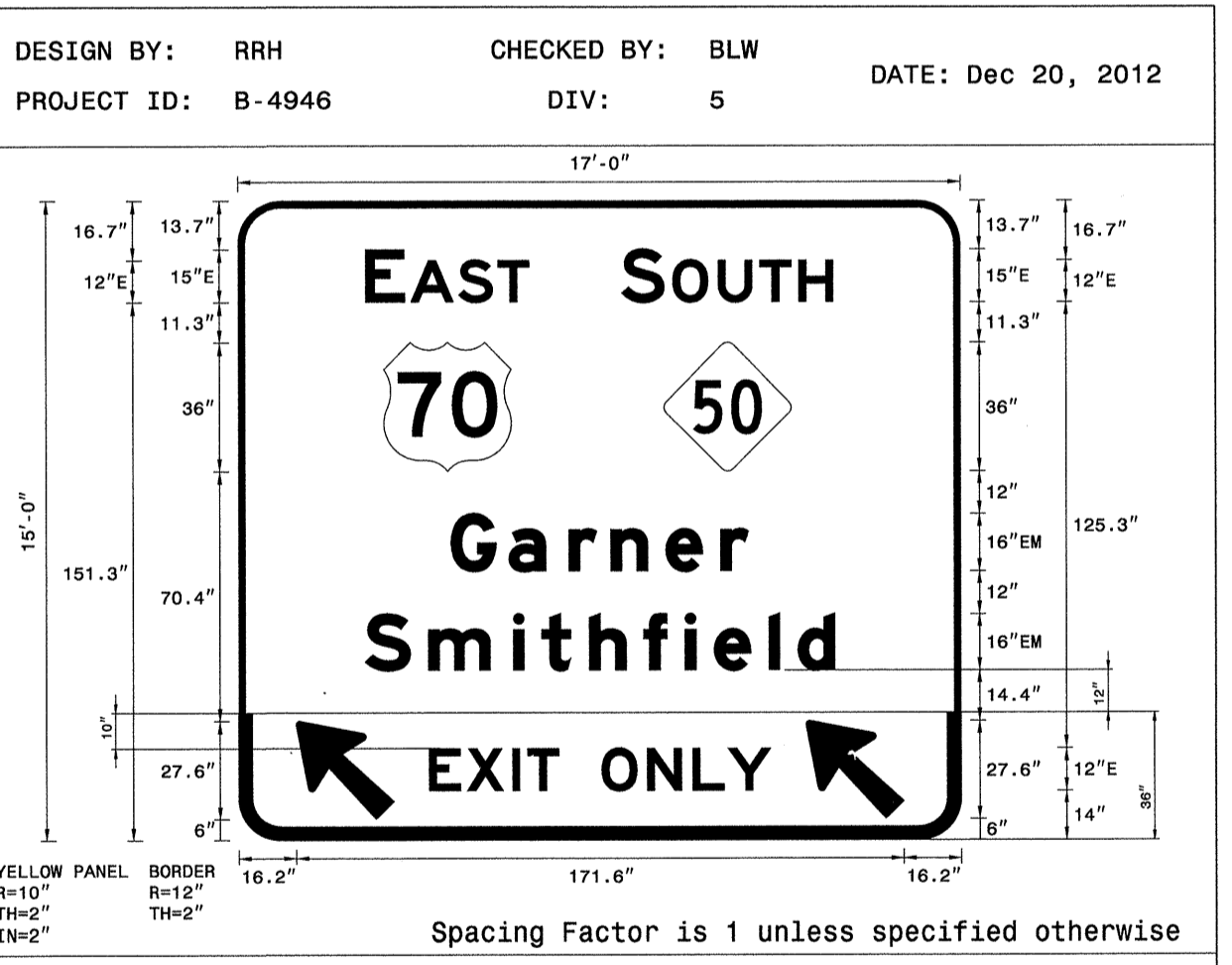
| S     | O    | U    | T    | H    | Series/Size Text Length |
|-------|------|------|------|------|-------------------------|
| 114.1 | 12.2 | 2.2  | 12.3 | 11.8 | E 2000 59.8             |
| 16.9  | 16.2 | 15.5 | 17   | 15.5 | EM 2000 194.2           |
| 37.4  | 14.7 | 15.2 | 16.3 | 13.9 | EM 2000 153.1           |

SIGN NUMBER: 5B  
TYPE: A  
QUANTITY: 1  
SIGN WIDTH: 204"  
HEIGHT: 180"  
TOTAL AREA: 255.0 Sq.Ft.  
BORDER TYPE: FLUSH  
RADIUS: 12"  
WIDTH: 2"  
RECESS: 0"  
NO. Z BARS: 6  
LENGTH: 196.0

BACKG COLOR: Green  
COPY COLOR: White

| SYMBOL          | X     | Y   | WID  | HT |
|-----------------|-------|-----|------|----|
| M1_4            | 41.1  | 104 | 36   | 36 |
| M1-5-2-36-180.2 | 104   | 36  | 36   |    |
| AR_Type A       | 16.2  | 6.1 | 22.3 | 35 |
| AR_Type A       | 160.2 | 6.1 | 22.3 | 35 |

MAT'L: 0.125" (3.2MM) ALUMINUM



USE NOTES  
1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting.  
2. Background shall be Grade C reflective sheeting.  
3. Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.  
4. Bottom panel shall be yellow Grade C sheeting on background with black recessed border. RECESS=2" THICKNESS=2".

LETTER POSITIONS

Letter spacings are to start of next letter

| E     | A    | S    | T    | Series/Size Text Length |
|-------|------|------|------|-------------------------|
| 35.9  | 11.3 | 1.5  | 13.6 | E 2000 46.4             |
| 108.3 | 12.2 | 2.2  | 12.8 | E 2000 59.8             |
| 59.9  | 16.3 | 17   | 11.8 | EM 2000 84.2            |
| 35.6  | 17.9 | 24   | 8    | EM 2000 132.8           |
| 53.7  | 10.7 | 12.8 | 4.2  | E 2000 96.6             |

1/7/2013 U:\B-4946\Signing\B-4946-sign\_sheets I - 4.dgn rhennein

TYPE 'A' SIGNS



SIGN NUMBER: 301  
 TYPE: D  
 QUANTITY: 1  
 SIGN WIDTH: 84"  
 HEIGHT: 36"  
 TOTAL AREA: 21.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 3"  
 WIDTH: 0.75"  
 RECESS: 0"  
 NO. Z BARS:  
 LENGTH:

BACKG COLOR: Green  
 COPY COLOR: White

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

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH CHECKED BY: BLW DATE: Jan 04, 2013  
 PROJECT ID: B-4946 DIV: 5

Wake Technical  
 Community College  
 RIGHT 2 LANES

BORDER R=3" TH=0.75"

Spacing Factor is 1 unless specified otherwise

USE NOTES  
 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.

LETTER POSITIONS

Letter spacings are to start of next letter

| Series/Size    | Text Length |
|----------------|-------------|
| D 2000         | 55.8        |
| D 2000         | 72.4        |
| D 2000, C 2000 | 62          |

SIGN NUMBER: 302  
 TYPE: D  
 QUANTITY: 1  
 SIGN WIDTH: 84"  
 HEIGHT: 36"  
 TOTAL AREA: 21.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 3"  
 WIDTH: 1"  
 RECESS: 0"  
 NO. Z BARS:  
 LENGTH:

BACKG COLOR: Green  
 COPY COLOR: White

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

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH CHECKED BY: BLW DATE: Jan 04, 2013  
 PROJECT ID: B-4946 DIV: 5

Clayton 13  
 Smithfield 26

BORDER R=3" TH=1" 1.3 Spacing Factor

Spacing Factor is 1 unless specified otherwise

USE NOTES  
 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.

LETTER POSITIONS

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| D 2000      | 35.8        |
| D 2000      | 9.8         |
| D 2000      | 50.7        |
| D 2000      | 12.5        |

SIGN NUMBER: 303  
 TYPE: D  
 QUANTITY: 1  
 SIGN WIDTH: 42"  
 HEIGHT: 12"  
 TOTAL AREA: 3.5 Sq.Ft.  
 BORDER TYPE: RECESSED  
 RADII: 1.5"  
 WIDTH: 0.38"  
 RECESS: 0.38"  
 NO. Z BARS:  
 LENGTH:

BACKG COLOR: Yellow  
 COPY COLOR: Black

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

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH CHECKED BY: BLW DATE: Dec 20, 2012  
 PROJECT ID: B-4946 DIV: 5

Mechanical Blvd

BORDER R=1.5" TH=0.38" IN=0.38"

Spacing Factor is 1 unless specified otherwise

USE NOTES  
 1. Legend and border shall be direct applied black non-reflective sheeting.  
 2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| C 2000      | 34.2        |

SIGN NUMBER: 304  
 TYPE: D  
 QUANTITY: 1  
 SIGN WIDTH: 54"  
 HEIGHT: 30"  
 TOTAL AREA: 11.3 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 3"  
 WIDTH: 1"  
 RECESS: 0"  
 NO. Z BARS:  
 LENGTH:

BACKG COLOR: Green  
 COPY COLOR: White

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

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH CHECKED BY: BLW DATE: Dec 20, 2012  
 PROJECT ID: B-4946 DIV: 5

Garner  
 CITY LIMIT

BORDER R=3" TH=1"

Spacing Factor is 1 unless specified otherwise

USE NOTES  
 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.

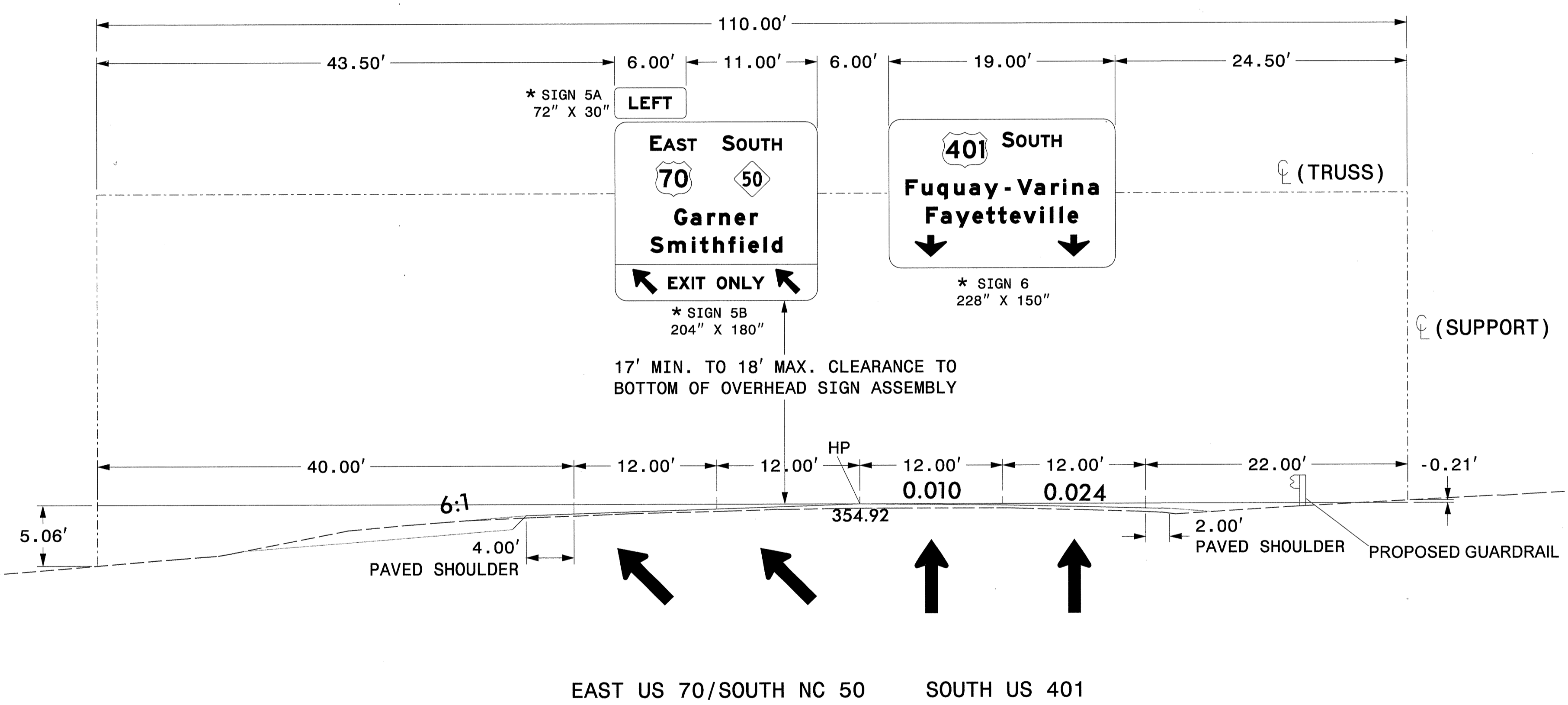
LETTER POSITIONS

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| D 2000      | 31.5        |
| D 2000      | 41.2        |

APPROVED: *Betsy L. Watson*  
 DATE: 1/7/13  
 SEAL  
  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. (919) 851-6866  
 Fax. (919) 851-7024  
 www.stantec.com  
 License No. F-0672





**NOTES:**

1. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
2. 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.
3. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 6 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
4. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
5. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

\* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

**OVERHEAD SIGN ASSEMBLY 'A'**  
 US 70/US 401/NC 50  
 -L\_EBL- STA 18+73

1/7/2013  
 U:\B-4946\Signing\overhead.dgn  
 rhennein



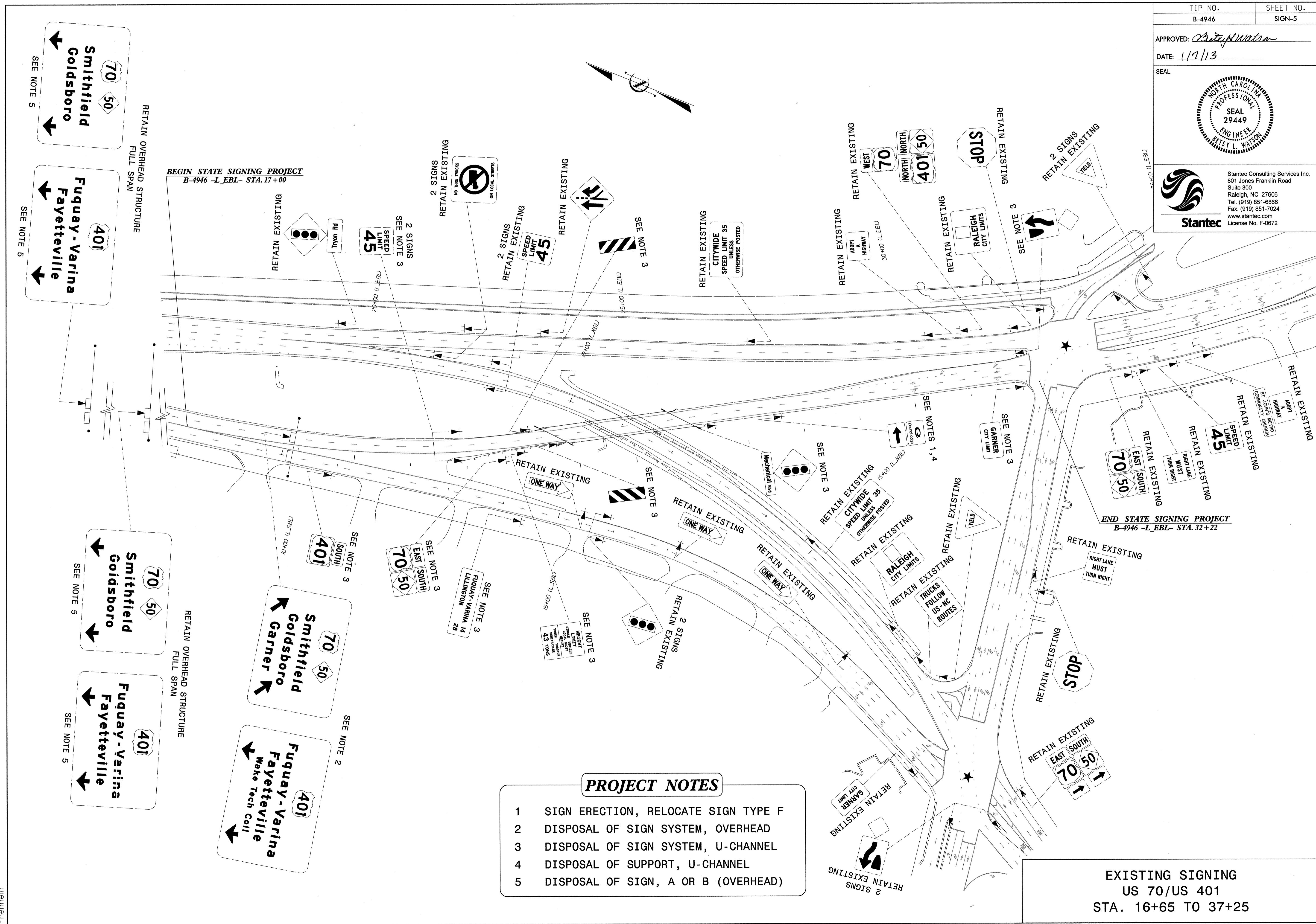
TIP NO. B-4946 SHEET NO. SIGN-5

APPROVED: *Christy Watson*

DATE: 1/7/13

SEAL

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www.stantec.com  
License No. F-0672



- PROJECT NOTES**
- 1 SIGN ERECTION, RELOCATE SIGN TYPE F
  - 2 DISPOSAL OF SIGN SYSTEM, OVERHEAD
  - 3 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
  - 4 DISPOSAL OF SUPPORT, U-CHANNEL
  - 5 DISPOSAL OF SIGN, A OR B (OVERHEAD)

EXISTING SIGNING  
US 70/US 401  
STA. 16+65 TO 37+25

