

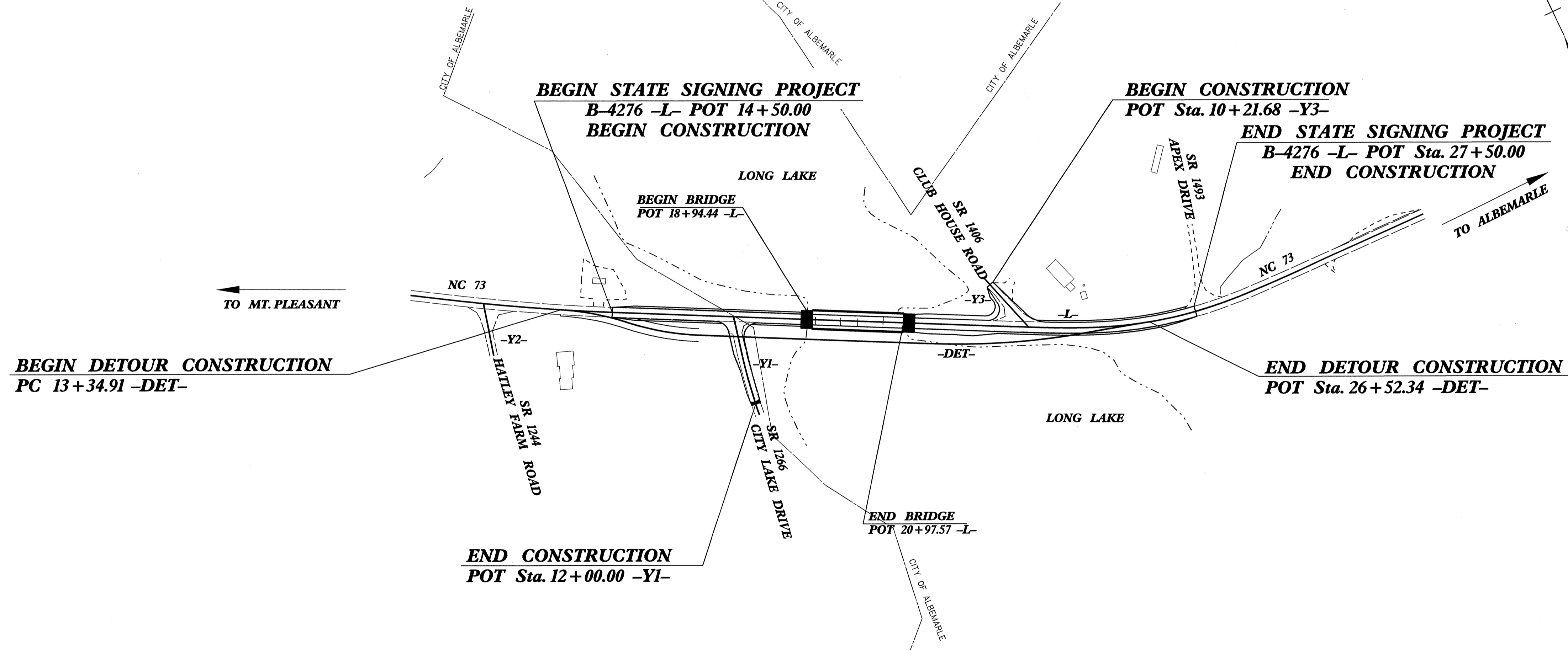
T.I.P.: B-4276


CONTRACT: C201831

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
STANLY COUNTY**

LOCATION: BRIDGE NO. 33 ON NC 73 OVER LONG CREEK



| | |
|---|---------------------|
| TIP NO. B-4276 | SHEET NO. SIGN-1 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 12/30/08 | |
| SEAL  | |

SUMMARY OF QUANTITIES


PLAN PREPARED BY: N.C.D.O.T. SIGNING SECTION

| | |
|---------------------------|---------------------------------|
| <u>R. W. KING, PE</u> | SIGNING ENGINEER |
| <u>A. I. ALQUDWAH, PE</u> | SIGNING PROJECT ENGINEER |
| <u>D. M. EATON</u> | SIGNING PROJECT DESIGN ENGINEER |
| <u>R. R. HENNEIN</u> | SIGNING DESIGNER |

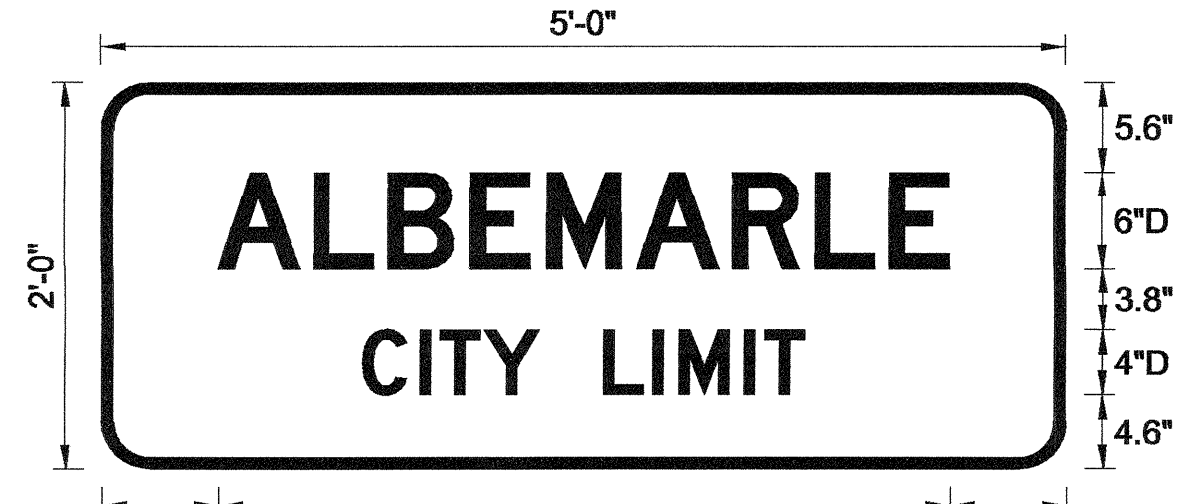
| ITEM NO. | ITEM DESCRIPTION | | QUANTITY | UNIT |
|------------|------------------|---|----------|------|
| DESC. NO. | SECT. NO. | | | |
| 4072000000 | 903 | SUPPORTS, 3 LB STEEL U-CHANNEL..... | 244 | L.F. |
| 4096000000 | 904 | SIGN ERECTION, TYPE D..... | 2 | EA. |
| 4102000000 | 904 | SIGN ERECTION, TYPE E..... | 10 | EA. |
| 4155000000 | 907 | DISPOSAL OF SIGN SYSTEM, U-CHANNEL..... | 15 | EA. |
| 4237000000 | 907 | DISPOSAL OF SIGN, TYPE E..... | 1 | EA. |

| SHEET NO. | DESCRIPTION |
|-----------|---------------------------|
| 1 | TITLE SHEET |
| 2 | TYPE "D" SIGNS |
| 3 | TYPE "E" SIGNS |
| 4-5 | EXISTING/PROPOSED ROADWAY |

**ROADWAY STANDARD DRAWINGS
APPLICABLE TO THESE SIGNING PLANS
904.10 904.50**

| | |
|---|---------------------|
| TIP NO. B-4276 | SHEET NO. SIGN-2 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 6/10/08 | |
| SEAL | |
|  | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| SIGN NUMBER: 301 TYPE: D QUANTITY: 1 SIGN WIDTH: 60" HEIGHT: 24" TOTAL AREA: 10.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 3" NO. Z BARS: LENGTH: | BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM | | | | | | | | | | | | | | | | | | | | | | | | | | DESIGN BY: R. HENNEIN PROJECT ID: B-4276 CHECKED BY: DIV: 10 DATE: Jun 05, 2008 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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**ALBEMARLE
CITY LIMIT**

BORDER
R=3"
TH=0.75"

MOUNT ON THREE U-POSTS

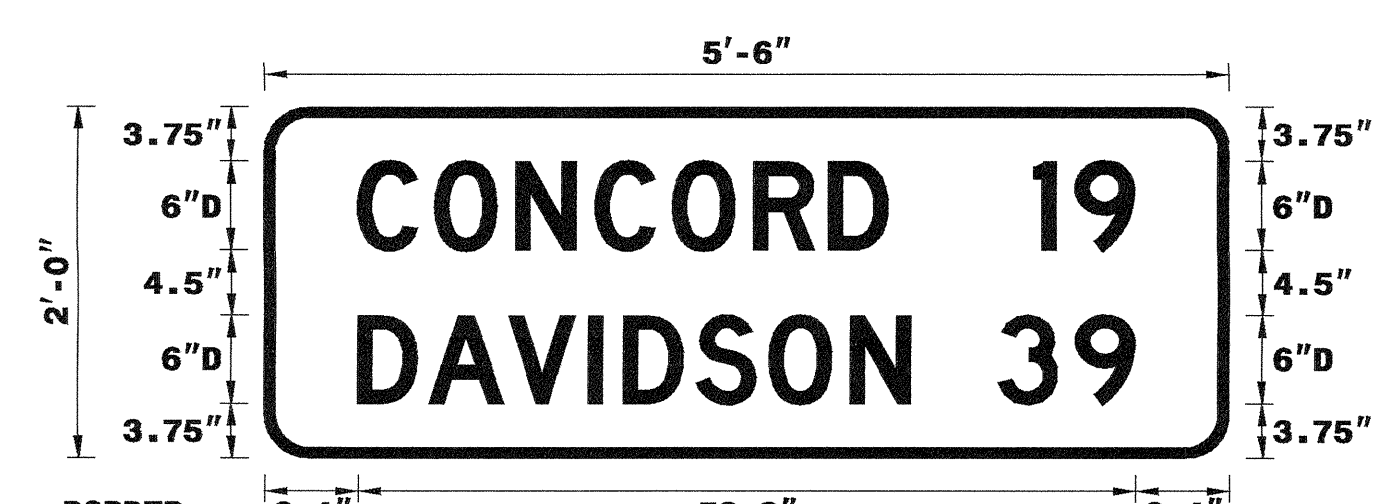
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

| Letter spacings are to start of next letter | | | | | | | | | | | | | Series/Size Text Length |
|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----------------------------|
| | A | L | B | E | M | A | R | L | E | | | | D 2000 |
| | 7.3 | 6 | 4.6 | 5.1 | 4.7 | 5.6 | 6 | 5.1 | 4.6 | 3.7 | 7.3 | | 45.5 |
| | C | I | T | Y | L | I | M | I | T | | | | D 2000 |
| | 16.3 | 3.6 | 1.2 | 2.7 | 3.4 | 4 | 3.1 | 1.6 | 4.1 | 1.2 | 2.5 | 16.3 | 27.5 |

FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| SIGN NUMBER: 302 TYPE: D QUANTITY: 1 SIGN WIDTH: 66" HEIGHT: 24" TOTAL AREA: 11.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 3" NO. Z BARS: LENGTH: | BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM | | | | | | | | | | | | | | | | | | | | | | | | | | DESIGN BY: R. HENNEIN PROJECT ID: B-4276 CHECKED BY: DIV: 10 DATE: Jun 05, 2008 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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**CONCORD 19
DAVIDSON 39**

BORDER
R=3"
TH=0.75"

MOUNT ON TWO U-POSTS


Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

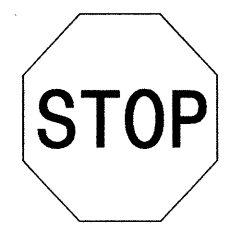
| Letter spacings are to start of next letter | | | | | | | | | | | | | Series/Size Text Length |
|---|------|-----|-----|-----|-----|-----|-----|-----|------|------|--|--|----------------------------|
| | C | O | N | C | O | R | D | | | | | | D 2000 |
| | 6.4 | 5.3 | 5.6 | 5.4 | 5.3 | 5.6 | 5.1 | 4.1 | 23.3 | | | | 36.3 |
| | 1 | 9 | | | | | | | | | | | D 2000 |
| | 52.7 | 2.8 | 4.1 | 6.4 | | | | | | | | | 6.9 |
| | D | A | V | I | D | S | O | N | | | | | D 2000 |
| | 6.4 | 4.9 | 5.5 | 5.5 | 2.4 | 5 | 5 | 5.6 | 4.1 | 21.8 | | | 37.8 |
| | 3 | 9 | | | | | | | | | | | D 2000 |
| | 50.2 | 5.3 | 4.1 | 6.4 | | | | | | | | | 9.4 |

FILENAME: signdesign NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "D" SIGNS

| | |
|---|---------------------|
| TIP NO. B-4276 | SHEET NO. SIGN-3 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 12/30/08 | |
| SEAL | |
|  | |

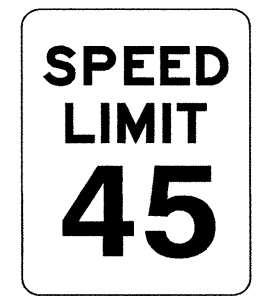
408) QUANTITY REQ'D 4



30 X 30
R1-1

ONE "U" POST PER SIGN

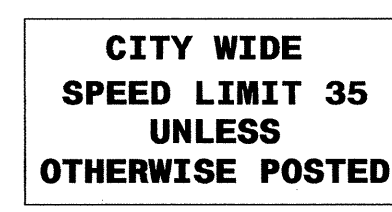
403) QUANTITY REQ'D 2



24 X 30
R2-1

ONE "U" POST PER SIGN

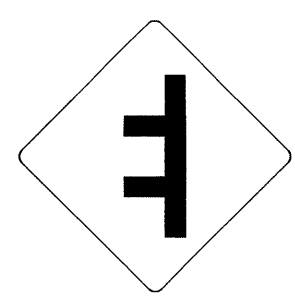
458) QUANTITY REQ'D 1



60 X 36
R2-27

MOUNT BELOW SIGN 301
IN 1 INSTALLATION


465) QUANTITY REQ'D 2



30 X 30
DOT#16-75967

ONE "U" POST PER SIGN


466) QUANTITY REQ'D 1

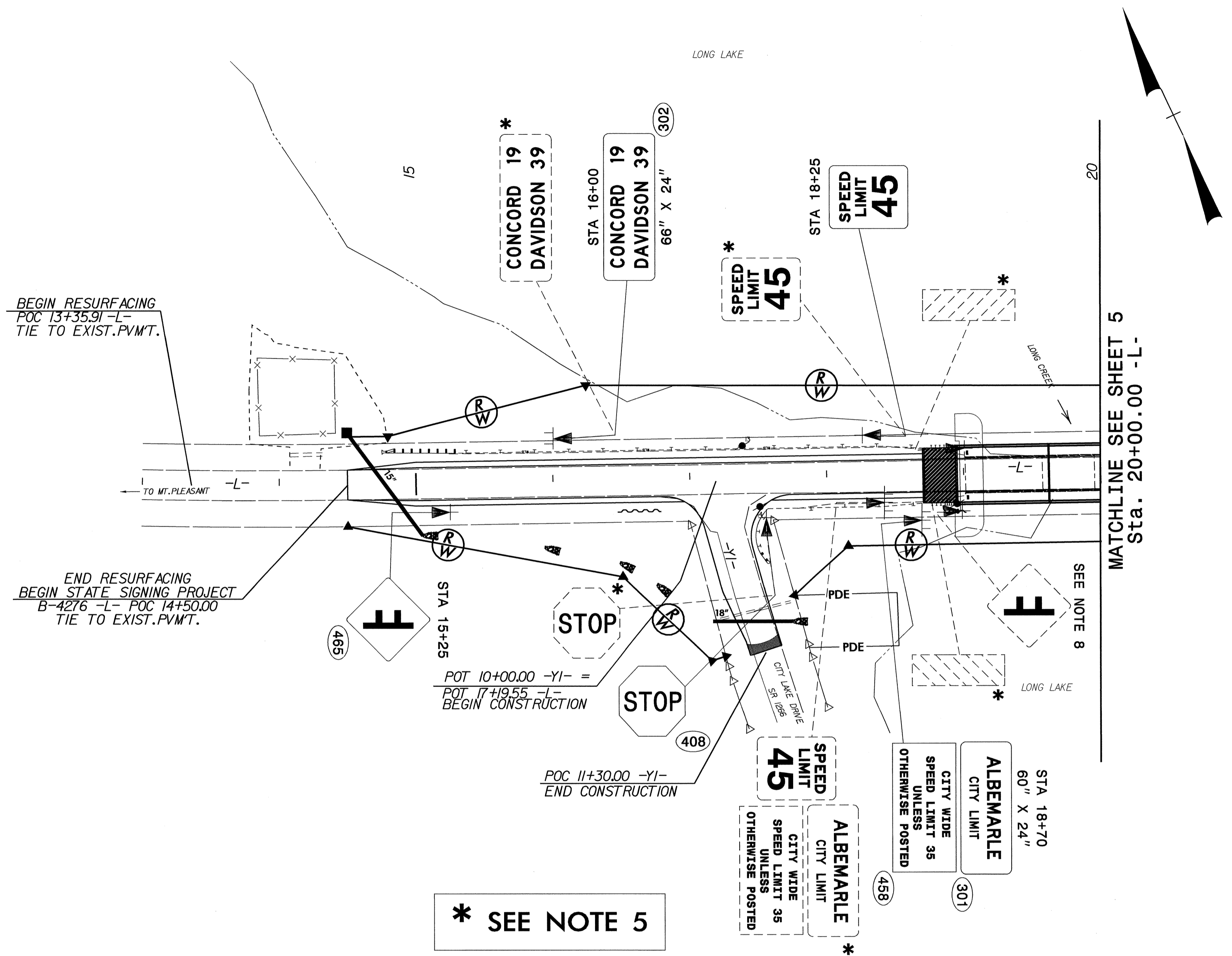


48 X 60
R20-5

TWO "U" POSTS PER SIGN

TYPE "E" SIGNS

| | |
|---|---------------------|
| TIP NO. B-4276 | SHEET NO. SIGN-4 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 12/30/08 | |
| SEAL | |
|  | |




* SEE NOTE 5

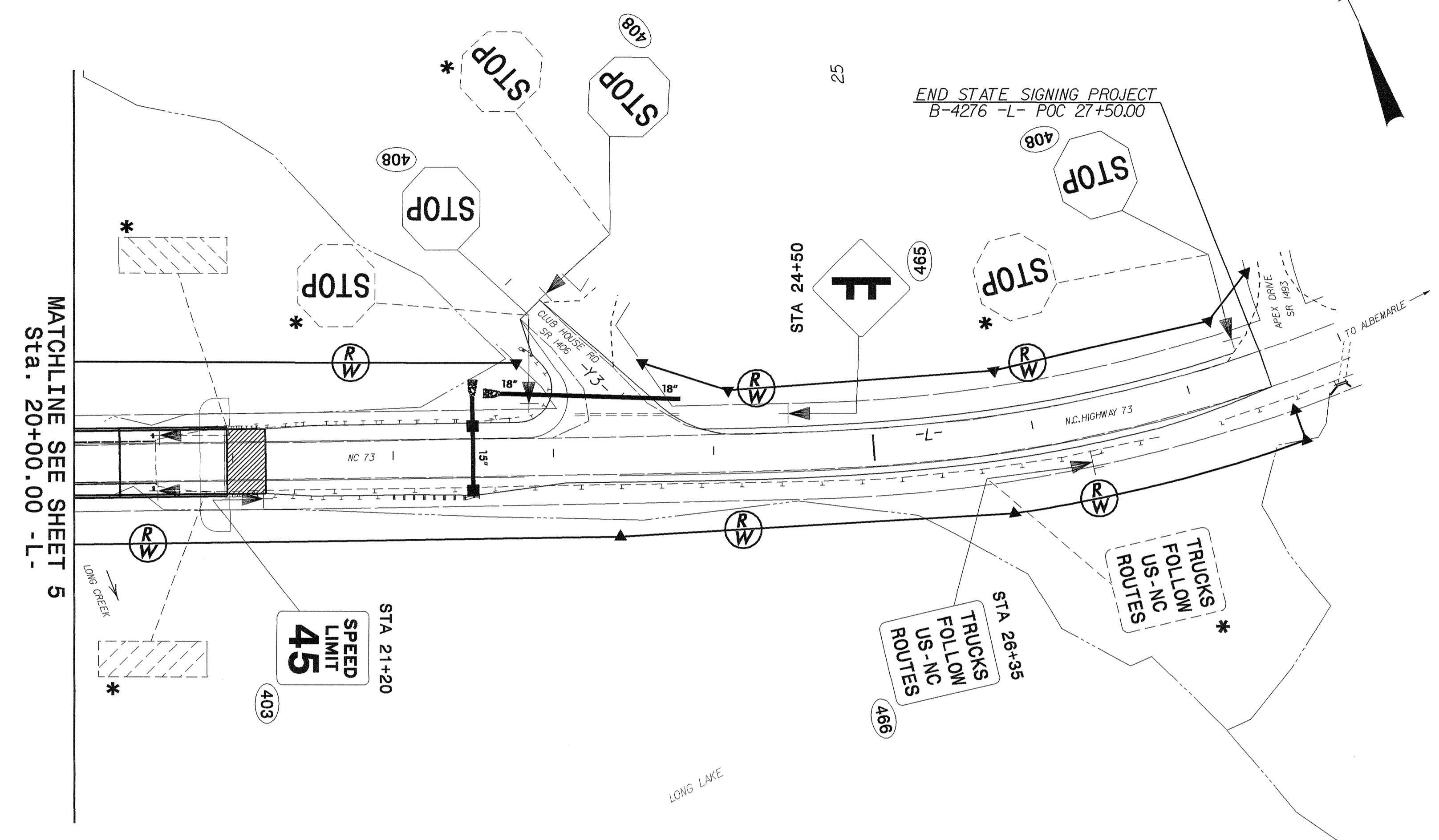
WARNING SIGNS PLACEMENT CHART

| POSTED OR 85TH PERCENTILE SPEED MPH (KMH) | MUTCD DISTANCE FT (M) | SUGGESTED LOCATION FT (M) | SUGGESTED MAXIMUM FT (M) |
|--|--------------------------|------------------------------|-----------------------------|
| 30 (50) | 450 (140) | 475 (145) | 575 (175) |
| 35 (55) | 550 (170) | 575 (175) | 675 (205) |
| 40 (65) | 650 (200) | 675 (205) | 775 (235) |
| 45 (70) | 750 (230) | 775 (235) | 875 (270) |
| 50 (80) | 850 (260) | 875 (270) | 975 (300) |
| 55 (90) | 950 (290) | 975 (300) | 1075 (330) |
| 60 (95) | 1100 (335) | 1125 (345) | 1225 (375) |
| 65 (105) | 1200 (365) | 1225 (375) | 1325 (405) |
| 70 (115) | 1250 (380) | 1275 (390) | 1375 (420) |

1. SEE ROADWAY STANDARD NO. 904.50 FOR MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHANNEL POSTS.
2. SEE CHART FOR PLACEMENT OF WARNING SIGNS. DISTANCES SHOWN IN MINIMUM ROAD COLUMNS ARE FOR LEVEL ROADWAYS. MAKE CORRECTIONS FOR GRADES. IF 48-INCH (1219 MM) SIGNS ARE USED, THE LEGIBILITY DISTANCE MAY BE INCREASED TO 200 FEET (61 M). THIS WOULD ALLOW REDUCING THE CHART SPECIFIED DISTANCE BY 75 FEET (23 M).
3. IF THE BRIDGE IS OVER A MAJOR STREAM OR RIVER, A SIGN FOR THE NAME OF THE STREAM OR RIVER SHOULD BE INSTALLED AT EACH APPROACH. THESE DESIGNS WILL BE COMPLETED BY THE SIGNING SECTION UPON REQUEST.
4. SIGNS FURNISHED BY STATE. BACKGROUND SHEETING SHALL BE GRADE C REFLECTIVE SHEETING.
5. DISPOSAL OF SIGN SYSTEM, U-CHANNEL.
6. SIGN ERECTION, RELOCATE SIGN TYPE D, E, OR F.
7. DISPOSAL OF SIGN SYSTEM, WOOD.
8. DISPOSAL OF SIGN, D, E, OR F.
9. DISPOSAL OF SUPPORT, U-CHANNEL.

STA 13+00 TO 20+00
NC 73
EXISTING/PROPOSED ROADWAY

| | |
|---|---------------------|
| TIP NO. B-4276 | SHEET NO. SIGN-5 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 6/10/08 | |
| SEAL | |
|  | |



* SEE NOTE 5

WARNING SIGNS PLACEMENT CHART

| POSTED OR 85TH PERCENTILE SPEED MPH (KMH) | MUTCD DISTANCE FT (M) | SUGGESTED LOCATION FT (M) | SUGGESTED MAXIMUM FT (M) |
|---|-----------------------|---------------------------|--------------------------|
| 30 (50) | 450 (140) | 475 (145) | 575 (175) |
| 35 (55) | 550 (170) | 575 (175) | 675 (205) |
| 40 (65) | 650 (200) | 675 (205) | 775 (235) |
| 45 (70) | 750 (230) | 775 (235) | 875 (270) |
| 50 (80) | 850 (260) | 875 (270) | 975 (300) |
| 55 (90) | 950 (290) | 975 (300) | 1075 (330) |
| 60 (95) | 1100 (335) | 1125 (345) | 1225 (375) |
| 65 (105) | 1200 (365) | 1225 (375) | 1325 (405) |
| 70 (115) | 1250 (380) | 1275 (390) | 1375 (420) |

1. SEE ROADWAY STANDARD NO. 904.50 FOR MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHANNEL POSTS.
2. SEE CHART FOR PLACEMENT OF WARNING SIGNS. DISTANCES SHOWN IN MINIMUM ROAD COLUMNS ARE FOR LEVEL ROADWAYS. MAKE CORRECTIONS FOR GRADES. IF 48-INCH (1219 MM) SIGNS ARE USED, THE LEGIBILITY DISTANCE MAY BE INCREASED TO 200 FEET (61 M). THIS WOULD ALLOW REDUCING THE CHART SPECIFIED DISTANCE BY 75 FEET (23 M).
3. IF THE BRIDGE IS OVER A MAJOR STREAM OR RIVER, A SIGN FOR THE NAME OF THE STREAM OR RIVER SHOULD BE INSTALLED AT EACH APPROACH. THESE DESIGNS WILL BE COMPLETED BY THE SIGNING SECTION UPON REQUEST.
4. SIGNS FURNISHED BY STATE. BACKGROUND SHEETING SHALL BE GRADE C REFLECTIVE SHEETING.
5. DISPOSAL OF SIGN SYSTEM, U-CHANNEL.
6. SIGN ERECTION, RELOCATE SIGN TYPE D, E, OR F.
7. DISPOSAL OF SIGN SYSTEM, WOOD.
8. DISPOSAL OF SIGN, D, E, OR F.
9. DISPOSAL OF SUPPORT, U-CHANNEL.

STA 20+00 TO 27+50
 NC 73
 EXISTING/PROPOSED ROADWAY