## SUMMARY OF EARTHWORK

#### (IN CUBIC YARDS)

| Station                     |                   |       | Embank.<br>+% | Borrow | Waste |  |
|-----------------------------|-------------------|-------|---------------|--------|-------|--|
| -L- Sta. 10+00.00           | Begin Bridge      | 4463  | 2374          | 0      | 2089  |  |
| SUBTOTALS:                  |                   | 4463  | 2374          | 0      | 2089  |  |
| End Bridge                  | -L- Sta. 21+96.15 | 16631 | 559           | 0      | 16072 |  |
| SUBTOTALS:                  | UBTOTALS:         |       | 559           | 0      | 16072 |  |
| -Y1- 10+00.00               | -Y1- 13+42.89     | 4543  | 312           | 0      | 4231  |  |
| -Y2- 10+00.00               | -Y2- 10+75.00     | 133   | 18            | 0      | 115   |  |
| PROJECT TOTALS:             |                   | 25770 | 3263          | 0      | 20867 |  |
| Loss Due to Clearing and Gr | ubbing            | -50   |               |        | -50   |  |
| PROJECT T                   | OTALS:            | 25720 | 3263          | 0      | 20817 |  |
|                             |                   |       |               |        |       |  |
| GRAND TO                    | TALS:             | 25720 | 3263          | 0      | 20817 |  |
| SAY                         |                   | 25800 |               |        |       |  |
|                             |                   |       |               |        |       |  |

EST. DDE = 210 Cubic Yards

Undercut = 450 Cubic Yards

Select Granular Material = 400 Cubic Yards

#### "N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT. FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

| VEY | BEG. STA.     | END STA. | LOCATION    |          | LENGTH         |                 | WARRANT         |                 | "N"<br>DIST.   | TOTAL<br>SHOUL |                 | LENGTH            | v               | ,               |          |   |               |   | ANCHORS |      |                |                  | IMPACT<br>ATTENUATOR<br>TYPE 350 | SINGLE<br>FACED     | REMOVE<br>EXISTING | REMOVE &<br>STOCKPILE | REMARKS |
|-----|---------------|----------|-------------|----------|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-------------------|-----------------|-----------------|----------|---|---------------|---|---------|------|----------------|------------------|----------------------------------|---------------------|--------------------|-----------------------|---------|
|     |               |          |             | STRAIGHT | SHOP<br>CURVED | DOUBLE<br>FACED | APPROACH<br>END | TRAILING<br>END | FROM<br>E.O.L. | WIDTH          | APPROACH<br>END | I TRAILING<br>END | APPROACH<br>END | TRAILING<br>END | Type III |   | GREU,<br>TL-3 |   | CAT-1   | AT-1 | Type III<br>SC | B-77 SC          | G NG                             | CONCRETE<br>BARRIER | GUARDRAIL          | EXISTING<br>GUARDRAIL |         |
|     | 9+91.78       | 14+83.84 | LT          | 510.375  | -              | -               |                 | 14+70.16        | 8'             | 11'            |                 |                   |                 |                 |          | 1 |               |   |         |      |                |                  |                                  |                     | 356                |                       |         |
| -   | 14+51.88      | 14+94.96 | RT          | 29.125   | 25             | -               | 15+04.11        |                 | 8'             | 11'            |                 |                   |                 |                 |          | 1 |               |   | 1       |      |                |                  |                                  |                     | 176                |                       |         |
|     | 16+09.18      | 17+09.76 | LT          | 91.625   | 50             | -               |                 | 16+00.01        | 8'             | 11'            |                 |                   |                 |                 |          | 1 |               |   | 1       |      |                |                  |                                  |                     | 117                |                       |         |
| -   | 16+20.30      | 19+01.57 | RT          | 297.875  | -              | -               | 16+11.13        |                 | 8'             | 11'            |                 | 50                |                 | 50              |          | 1 | 1             |   |         |      |                |                  |                                  |                     | 301                |                       |         |
|     | 19+38.95      | 22+03.28 | RT          | 275      | -              | -               |                 |                 | 8'             | 11'            | 50              |                   | 50              |                 |          |   | 1             |   |         |      |                |                  |                                  |                     | 266                |                       |         |
| -   | 12+31.25      | 13+31.25 | RT          |          | 100            | -               |                 |                 | 4'             | 7'             |                 |                   |                 |                 |          |   |               |   | 2       |      |                |                  |                                  |                     |                    |                       |         |
|     | SUBTOTAL      |          |             | 1,204.00 | 175.00         |                 |                 |                 |                |                |                 |                   |                 |                 |          |   |               |   |         |      |                |                  |                                  |                     |                    |                       |         |
|     | ESS ANCHOR DE | DUCTIONS |             |          |                |                 |                 |                 |                |                |                 |                   |                 |                 |          |   |               |   |         |      |                |                  |                                  |                     |                    |                       |         |
|     | B-77          | 4        | @ 22.875' = | -91.50   |                |                 |                 |                 |                |                |                 |                   |                 |                 |          |   |               |   |         |      |                |                  |                                  |                     |                    |                       |         |
|     | CAT-1         |          | @ 6.25' =   | -12.50   | -12.50         |                 |                 |                 |                |                |                 |                   |                 |                 |          |   |               |   |         |      |                |                  |                                  |                     |                    |                       |         |
|     | GREU, TL-3    | 2        | @50.00' =   | -100.00  |                |                 |                 |                 |                |                |                 |                   |                 |                 |          |   |               |   |         |      |                |                  |                                  |                     |                    |                       |         |
| -+  |               |          |             |          | ļ              |                 |                 |                 |                |                |                 |                   |                 |                 |          |   |               |   |         |      |                | <b>↓ ↓ ↓ ↓ ↓</b> |                                  |                     |                    |                       |         |
|     |               |          |             |          |                |                 |                 |                 |                |                |                 |                   |                 |                 |          |   |               |   |         |      |                |                  |                                  |                     |                    |                       |         |
|     |               |          | TOTAL       | 1,000.00 | 162.50         |                 |                 |                 |                |                |                 |                   |                 |                 | 0        | 4 | 2             | 0 | 4       |      |                |                  |                                  |                     | 1216               |                       |         |
|     |               |          |             |          |                |                 |                 |                 |                |                |                 |                   |                 |                 |          |   |               |   |         |      |                |                  |                                  |                     |                    |                       |         |

## **STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS**

## Expressway Gutter Summary

IN LINEAR FEET

| LINE | Station  | Station  | Location | LENGTH |
|------|----------|----------|----------|--------|
| -L-  | 10+00.00 | 13+00.00 | RT       | 300.00 |
| -Y1- | 11+25.00 | 11+45.00 | LT       | 20.00  |
|      |          |          |          |        |
|      |          |          |          |        |
|      |          |          | TOTAL:   | 320.00 |
|      |          |          |          |        |
|      |          |          | SAY:     | 320.00 |

Note: Approximate quantities only. Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

Note: Earthwork quantities are calculated by using the Roadway Design Unit Guidelines. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

#### PAVEMENT REMOVAL SUMMARY IN SQUARE YARDS

| SURVEY<br>LINE | Station  | Station  | LOCATION<br>LT/RT/CL | ASPHALT<br>REMOVAL | ASPHALT<br>BREAKUP | CONCRETE<br>REMOVAL | CONCRETE<br>BREAKUP |
|----------------|----------|----------|----------------------|--------------------|--------------------|---------------------|---------------------|
| -L-            | 12+52.36 | 13+04.89 | RT                   | 31.8               | -                  | -                   | -                   |
| -L-            | 14+65.95 | 15+02.03 | RT                   | 39.4               | -                  | -                   | -                   |
| -L-            | 16+46.36 | 17+28.70 | RT                   | 49.0               |                    |                     |                     |
| -Y1-           | 10+55.49 | 13+15.06 | RT                   | 90.9               |                    |                     |                     |
|                | Temp     | porary   |                      |                    |                    |                     |                     |
| -L-            | 15+90.00 | 17+10.00 | LT                   | 33.3               |                    |                     |                     |
| -L-            | 17+55.00 | 21+62.00 | LT                   | 329.9              |                    |                     |                     |
| -Y1-           | 10+30.00 | 10+64.00 | CL                   | 67.1               |                    |                     |                     |
| -Y1-           | 10+97.00 | 11+14.00 | LT                   | 20.7               |                    |                     |                     |
|                |          |          |                      |                    |                    |                     |                     |
|                |          | TOTAL:   |                      | 662.1              |                    |                     |                     |
|                |          |          |                      |                    |                    |                     |                     |
|                |          | SAY:     |                      | 670                |                    |                     |                     |

# **GUARDRAIL SUMMARY**

| BR-0029 | 3B-1 |
|---------|------|

| PAR            |
|----------------|
|                |
|                |
|                |
|                |
| Note:<br>Areas |

### G = GATING IMPACT ATTENUATOR TYPE 350 NG = NON-GATING IMPACT ATTENUATOR TYPE 350