

12/06/07

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STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO.
 B-4484 3B-1

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

SUMMARY OF EARTHWORK

IN CUBIC YARDS

| STATION | STATION | UNCL. EXCAV. | UNDERCUT | EMBANK +% | BORROW | WASTE |
|---------------------------------------|----------------|--------------|----------|-----------|--------|--------|
| PHASE I AND II | | | | | | |
| -L1- 17+00.00 | -L1- 22+05.00 | 168 | 342 | 6,302 | 6,134 | 342 |
| -L1- 28+10.00 | -L1- 39+45.00 | 139 | 3,395 | 30,107 | 29,968 | 3,395 |
| -L1- 43+46.00 | -L1- 54+50.00 | 155 | | 13,329 | 13,174 | 0 |
| -EL- 49+50.00 | -EL- 54+50.00 | 36 | | 636 | 600 | 0 |
| -DW1- 10+11.00 | -DW1- 14+37.00 | 1,097 | | 21 | 0 | 1,076 |
| REMOVE EXISTING DRIVEWAY | | 90 | | 0 | 0 | 90 |
| SUBTOTALS: | | 1,685 | 3,737 | 50,395 | 49,876 | 4,903 |
| PHASE III | | | | | | |
| -L1- 17+00.00 | -L1- 21+50.00 | 68 | | 118 | 50 | 0 |
| -L1- 47+00.00 | -L1- 54+00.00 | 56 | | 402 | 346 | 0 |
| SUBTOTALS: | | 124 | | 520 | 396 | 0 |
| EROSION CONTROL - FINAL GRADING | | | | | | |
| -L1- 21+00.00 | -L1- 22+06.00 | 394 | | 18 | 0 | 376 |
| -L1- 27+50.00 | -L1- 40+00.00 | 2,233 | | 4,147 | 1,914 | 0 |
| -L1- 42+50.00 | -L1- 47+50.00 | 2,170 | | 517 | 0 | 1,653 |
| SUBTOTALS: | | 4,797 | | 4,682 | 1,194 | 2,029 |
| TOTALS: | | 6,606 | 3,737 | 55,597 | 52,186 | 6,932 |
| MATERIAL FOR SHOULDER CONSTRUCTION | | | | 234 | 234 | |
| ADDITIONAL UNDERCUT | | | 450 | 585 | | 450 |
| WASTE IN LIEU OF BORROW | | | | | -3,195 | -3,195 |
| PROJECT TOTALS: | | 6,606 | 4,187 | 56,416 | 49,810 | 4,187 |
| EST. 5% TO REPLACE SOIL IN BORROW PIT | | | | | 2,491 | |
| GRAND TOTALS: | | 6,606 | 4,187 | 56,416 | 52,301 | 4,187 |
| SAY: | | 6,940 | 4,250 | 54,920 | 54,920 | |

EST 130 CY DDE (FROM HYDRO)

Approximate quantities only. Unclassified excavation, fine grading, clearing and grubbing, and removal of existing pavement will be paid for at the lump sum price for "Grading".

"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.
 G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

TEMPORARY GUARDRAIL SUMMARY

| SURVEY LINE | BEG. STA. | END STA. | LOCATION | LENGTH | | | WARRANT POINT | | "N" DIST. FROM E.O.L. | TOTAL SHOUL. WIDTH | FLARE LENGTH | | W | | ANCHORS | | | | | IMPACT ATTENUATOR TYPE 350 | | | REMOVAL AND STOCKPILE EXISTING GUARDRAIL | REMARKS | | | |
|------------------|-----------|----------|----------|----------|-------------|--------------|---------------|--------------|-----------------------|--------------------|--------------|--------------|--------------|--------------|-----------|---------------|------|----|---|----------------------------|--|--|------------------------------------------|---------|--|-----------------------------------------|--|
| | | | | STRAIGHT | SHOP CURVED | DOUBLE FACED | APPROACH END | TRAILING END | | | APPROACH END | TRAILING END | APPROACH END | TRAILING END | GREU TL-3 | GRAU TYPE III | AT-1 | EA | G | NG | | | | | | | |
| -L1- | 49+75.00 | 53+75.00 | LT | 400.00 | | | 51+00.00 | 52+50.00 | 6' | 9' | 50.00 | 50.00 | 1 | 1 | 2 | | | | | | | | | | | TEMPORARY GUARDRAIL FOR TRAFFIC CONTROL | |
| SUBTOTALS | | | | 400.00 | | | | | | | | | | | | | | | | | | | | | | | |
| ANCHOR DEDUCTION | | | | 100.00 | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | 300.00 | | | | | | | | | | | | | | | | | | | | | | | |
| SAY | | | | 312.50 | | | | | | | | | | | | | | | | | | | | | | | |

"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.
 G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

| SURVEY LINE | BEG. STA. | END STA. | LOCATION | LENGTH | | | WARRANT POINT | | "N" DIST. FROM E.O.L. | TOTAL SHOUL. WIDTH | FLARE LENGTH | | W | | ANCHORS | | | | IMPACT ATTENUATOR TYPE 350 | | | REMOVAL & STOCKPILE EXISTING GUARDRAIL (LF) | REMARKS | | | | |
|------------------------------------|---------------|---------------|----------|----------|-------------|--------------|---------------|---------------|-----------------------|--------------------|--------------|--------------|-----------|----------|---------|------|----|---|----------------------------|--|--|---------------------------------------------|---------------------------------------------------------------------------------------------------------------|--|--|--|--|
| | | | | STRAIGHT | SHOP CURVED | DOUBLE FACED | APPROACH END | TRAILING END | | | APPROACH END | TRAILING END | GREU TL-3 | TYPE III | AT-1 | B-77 | EA | G | NG | | | | | | | | |
| -L1- | 14+35.00 | 17+50.00 | LT | 315.00 | | | | | 3' | 9' | | 50 | | 1 | 1 | | | | | | | 265 | REMOVE, STOCKPILE, & REPLACE EXIST. PLACE B-77 AT SAME HEIGHT OF EXIST. & TRANSITION PER 862.02 SHEET 4 OF 8. | | | | |
| -L1- | 14+35.00 | 22+06.00 (BR) | RT | 771.00 | | | | | 6' | 9' | | | | | 1 | | | | | | | 265 | REMOVE, STOCKPILE, & REPLACE EXIST. PLACE B-77 AT SAME HEIGHT OF EXIST. & TRANSITION PER 862.02 SHEET 4 OF 8. | | | | |
| -L1- | 18+25.00 | 22+06.00 (BR) | LT | 381.25 | | | | 22+06.00 (BR) | 6' | 9' | | 50 | | 1 | 1 | | | | | | | | | | | | |
| -L1-DW1- | 28+06.00 (BR) | 10+52.84 | LT | 737.50 | 50.00 | | 34+00.00 | | 6' | 9' | | | | | 1 | 1 | | | | | | | | | | | |
| -L1- | 28+06.00 (BR) | 29+87.50 | RT | 181.25 | | | | 28+90.00 | 6' | 9' | | 100 | | 2 | 1 | 1 | | | | | | | | | | | |
| -DW1-L1- | 10+69.45 | 39+45.00 (BR) | LT | 300.00 | 75.00 | | | 39+45.00 (BR) | 6' | 9' | | | | | 1 | 1 | | | | | | | | | | | |
| -L1- | 38+63.75 | 39+45.00 (BR) | RT | 81.25 | | | 39+45.00 (BR) | | 3' | 9' | 50 | | 1 | | 1 | 1 | | | | | | | | | | | |
| -L1- | 43+45.00 (BR) | 54+25.00 | LT | 1081.25 | | | 53+00.00 | | 6' | 9' | 50 | | 1 | | 1 | 1 | | | | | | | | | | | |
| -L1- | 43+45.00 (BR) | 44+26.25 | RT | 81.25 | | | | 43+45.00 (BR) | 3' | 9' | 50 | 50 | | 1 | 1 | 1 | | | | | | | | | | | |
| -L1- | 47+25.00 | 54+25.00 | RT | 700.00 | | | 48+50.00 | 53+00.00 | 6' | 9' | 50 | 50 | 1 | 1 | 2 | | | | | | | | | | | | |
| SUBTOTALS | | | | 4629.75 | 125.00 | | | | | | | | | | | | | | | | | | | | | | |
| ANCHOR DEDUCTION | | | | 608.25' | 0.00 | | | | | | | | | | | | | | | | | | | | | | |
| 25' CLEAR SPAN GUARDRAIL DEDUCTION | | | | 100.00 | 0.00 | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | 3921.50 | 125.00 | | | | | | | | | | | | | | | | | | | | | | |
| SAY | | | | 3937.50 | 137.50 | | | | | | | | | | | | | | | | | | | | | | |

SHOULDER BERM GUTTER SUMMARY

| SURVEY LINE | STATION | STATION | LENGTH (LF) |
|-------------|----------|----------|-------------|
| -L1- LT | 19+34.03 | 21+95.13 | 261.10 |
| -L1- RT | 20+48.75 | 21+95.04 | 146.29 |
| -L1- LT | 28+15.08 | 34+10.85 | 595.77 |
| -L1- RT | 28+18.95 | 29+74.49 | 155.54 |
| -L1- LT | 36+95.00 | 39+33.83 | 238.83 |
| -L1- LT | 43+56.17 | 43+72.17 | 16.00 |
| TOTAL: | | | 1,413.53 |
| SAY: | | | 1,414 |

PAVEMENT REMOVAL

| LINE | STATION | STATION | LOCATION | AREA | SQUARE YARDS |
|--------|---------|---------|----------|-----------|--------------|
| -L1- | 17+00 | 22+08 | RT | 14,582.65 | 1,620.29 |
| -L1- | 27+95 | 40+43 | RT | 28,940.96 | 3,215.66 |
| -L1- | 42+22 | 49+87 | RT | 21,800.08 | 2,422.23 |
| -L1- | 49+14 | 54+60 | RT | 4,328.65 | 480.96 |
| TOTAL: | | | | | 7,739.15 |
| SAY: | | | | | 7,740 |

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