

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

| LOCATION | UNCLASSIFIED EXCAVATION | UNDERCUT | EMBANKMENT +% | BORROW | WASTE |
|---|-------------------------|----------|----------------|----------------|----------------|
| PHASE I | | | | | |
| -L- RT 158+31.70 TO 188+00.00 | 426,032 | | 5,262 | | 420,770 |
| -L- RT 188+00.00 TO 198+02.96 (BRIDGE) | 102,181 | | 2,626 | | 99,555 |
| -L- RT 199+35.84 (BRIDGE) TO 229+00.00 | 8,596 | | 37,116 | 28,520 | |
| -L- RT 229+00.00 TO 233+40.93(BRIDGE) | | | 12,259 | 12,259 | |
| SUBTOTAL | 536,809 | | 57,263 | 40,779 | 520,326 |
| -L- RT 234+74.46(BRIDGE) TO 241+33.23(BRIDGE) | | | 14,429 | 14,429 | |
| -L- RT 243+93.23(BRIDGE) TO 251+72.02 | 26 | | 41,662 | 41,636 | |
| -Y9- 10+35.50 TO 16+90.08 | 76,720 | | 6 | | 73,714 |
| -Y10- 12+75.00 TO 17+62.15 | 11,545 | | 902 | | 10,643 |
| SUBTOTAL | 85,291 | | 56,999 | 56,065 | 84,358 |
| -Y13- 11+50.00 TO 12+86.60 | 95 | | 16 | | 79 |
| -Y13A- 10+21.98 TO 12+77.00 | 4,461 | | | | 4,461 |
| -DR1- 10+35.50 TO 15+43.00 | 31,426 | | | | 31,426 |
| -DR2- 10+35.50 TO 14+90.01 | 31,214 | | | | 31,214 |
| SUBTOTAL | 67,196 | | 16 | | 67,179 |
| -DR3- 10+35.50 TO 19+95.00 | 95,398 | | 216 | | 95,182 |
| -DR3B- 10+06.00 TO 12+35.00 | 5,203 | | 1 | | 5,202 |
| -DR5- 10+50.00 TO 11+55.00 | 423 | | | | 423 |
| -DET- RT 251+72.02 TO 261+05.51 | 42,918 | | 421 | | 42,497 |
| SUBTOTAL | 143,942 | | 638 | | 143,304 |
| PHASE II | | | | | |
| -L- LT 158+31.70 TO 188+00.00 | 15,818 | | 16,315 | 497 | |
| -L- LT 188+00.00 TO 197+96.58 (BRIDGE) | 12,570 | | 1,588 | | 10,982 |
| -L- LT 199+23.81 (BRIDGE) TO 229+00.00 | 104,035 | | 12,831 | | 91,204 |
| -L- LT 229+00.00 TO 233+64.04(BRIDGE) | 272 | | 713 | 441 | |
| SUBTOTAL | 132,695 | | 31,447 | 938 | 102,186 |
| -L- LT 234+97.45 (BRIDGE) TO 241+41.61 (BRIDGE) | 272 | | 1,528 | 1,256 | |
| -L- LT 244+01.61 (BRIDGE) TO 251+72.02 | | | 20,901 | 20,901 | |
| -Y11- 10+55.00 TO 12+65.47 | 468 | | 576 | 108 | |
| -Y12- 12+85.00 TO 14+87.00 | 80 | | 437 | 357 | |
| -DET- LT 251+72.02 TO 261+05.51 | 7,849 | | 1,884 | | 5,965 |
| SUBTOTAL | 8,669 | | 25,326 | 22,623 | 5,965 |
| -DR4- 10+35.50 TO 13+24.54 | 7 | | 2,615 | 2,608 | |
| SUBTOTAL | 7 | | 2,615 | 2,608 | |
| TOTAL | 974,609 | | 174,305 | 123,013 | 923,317 |
| LOSS DUE TO CLEARING & GRUBBING | -20,000 | | | | -20,000 |
| ROCK WASTE TO REPLACE BORROW | | | | -81,179 | -81,179 |
| ADJUST FOR ROCK WASTE | | | -16,236 | -16,236 | |
| ELIMINATE EARTH SHRINKAGE FACTOR FOR ROCK | | | -14,612 | -14,612 | |
| WASTE IN LIEU OF BORROW | | | | -10,985 | -10,985 |
| PROJECT TOTAL | 954,609 | | 143,457 | | 811,152 |
| EST. 5% TO REPLACE TOP SOIL ON BORROW PIT | | | | | |
| GRAND TOTAL | 954,609 | | 143,457 | | 811,152 |
| SAY | 954,700 | | | | |
| EST. DDE = 2820 CUBIC YARDS | | | | | |
| SHOULDER BORROW = 2,481 CUBIC YARDS | | | | | |

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

NOTE: Quantities are approximate only. The Resident Engineer will re-cross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

CONTINGENCY ITEMS: GEOTECHNICAL REPORT - DESIGN AND CONSTRUCTION RECOMMENDATIONS
DATED: SEPTEMBER 27, 2013
UNDERCUT CONTINGENCY = 200 CY
SHALLOW UNDERCUT CONTINGENCY = 500 CY
CLASS IV SUBGRADE STABILIZATION CONTINGENCY = 200 TONS
SELECT GRANULAR CONTINGENCY = 200 CY
PAVEMENT STRUCTURE VOLUME = 14,449 CY