COMPUTED BY: TLC DATE: 7/24/23
CHECKED BY: BCS DATE: 7/25/23

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| I-2513AA/AB | 3B-1 |

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

# *SUMMARY OF EARTHWORK*

*IN CUBIC YARDS*

## *I–2513AA*

### SUMMARY OF EARTHWORK

| Station | Station | Uncl. Excav. | Undercut | Embank. +% | Borrow | Waste |
|---|---|---|---|---|---|---|
| -YLT- 18+75.00 | 36+50.00 | 34 | 403 | 3,924 | 3,890 | 403 |
| -YLT- 36+50.00 | 45+80.15 (BRIDGE) | 0 | 216 | 0 | | 216 |
| | **SUBTOTAL:** | 34 | 619 | 3,924 | 3,890 | 619 |
| -YLT- 47+44.25 (BRIDGE) | 53+24.24 (BRIDGE) | 0 | 103 | 0 | | 103 |
| | **SUBTOTAL:** | 0 | 103 | 0 | 0 | 103 |
| -YLT- 55+44.78 (BRIDGE) | 85+00.00 | 11,333 | 2,194 | 26,936 | 16,108 | 2,699 |
| | **SUBTOTAL:** | 11,333 | 2,194 | 26,936 | 16,108 | 2,699 |
| -YLT- 85+00.00 | 92+44.00 | 1,273 | 651 | 3,281 | 2,008 | 651 |
| | **SUBTOTAL:** | 1,273 | 651 | 3,281 | 2,008 | 651 |
| -YRT- 18+75.00 | 38+00.00 | 265 | 351 | 687 | 422 | 351 |
| -YRT- 38+00.00 | 45+80.15 (BRIDGE) | 0 | 154 | 0 | | 154 |
| | **SUBTOTAL:** | 265 | 505 | 687 | 422 | 505 |
| -YRT- 47+44.25 (BRIDGE) | 53+24.24 (BRIDGE) | 0 | 160 | 0 | | 160 |
| | **SUBTOTAL:** | 0 | 160 | 0 | 0 | 160 |
| -YRT- 55+44.78 (BRIDGE) | 85+00.00 | 10,864 | 1,822 | 3,171 | | 9,515 |
| | **SUBTOTAL:** | 10,864 | 1,822 | 3,171 | 0 | 9,515 |
| -YRT- 85+00.00 | 92+44.00 | 4,680 | 617 | 3,647 | | 1,650 |
| | **SUBTOTAL:** | 4,680 | 617 | 3,647 | 0 | 1,650 |
| -Y_WB- 10+44.00 | 20+82.00 | 9,651 | 377 | 5,127 | | 4,901 |
| | **SUBTOTAL:** | 9,651 | 377 | 5,127 | 0 | 4,901 |
| -Y_EB- 10+44.00 | 15+08.00 | 946 | 199 | 1,452 | 506 | 199 |
| | **SUBTOTAL:** | 946 | 199 | 1,452 | 506 | 199 |
| **TOTAL:** | | 39,046 | 7,247 | 48,224 | 22,934 | 21,003 |
| LOSS DUE TO CLEARING & GRUBBING | | -2,408 | | | 2,408 | |
| ADDITIONAL UNDERCUT | | | 2,650 | 3,048 | 3,048 | 2,650 |
| EST. SHOULDER MATERIAL | | | | 2,300 | 2,300 | |
| SELECT GRANULAR MATERIAL IN LIEU OF BORROW | | | | -2,300 | -2,300 | |
| WASTE IN LIEU OF BORROW | | | | | -12,831 | -12,831 |
| **I-2513AA PROJECT TOTALS:** | | 36,638 | 9,897 | 51,272 | 15,559 | 10,822 |
| EST. 5% TO REPLACE TOP SOIL ON BORROW PIT | | | | | 778 | |
| **TOTALS:** | | 36,638 | 9,897 | 51,272 | 16,337 | 10,822 |
| **I-2513AA GRAND TOTALS:** | | 36,638 | 9,897 | 51,272 | 16,337 | 10,822 |
| **SAY:** | | **36,650** | **9,900** | | **16,350** | |

EST. UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3FT OF EMBANKMENT OR BACKFILL (PER GEOTECH RECOMMENDATION: -Y- 50+75 to 52+75 = 575CY, -Y_WB- 15+25 to 17+25 = 725CY)

EST. DDE = 2,030 CUBIC YARDS

Note: Earthwork quantities are calculated by the roadway designer. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

## *I–2513AB*

### SUMMARY OF EARTHWORK

| Station | Station | Uncl. Excav. | Undercut | Embank. +% | Borrow | Waste |
|---|---|---|---|---|---|---|
| -Y5RPA- 21+24.50 | 27+49.45 | 2,703 | 333 | 9,990 | 7,287 | 333 |
| **SUBTOTAL:** | | 2,703 | 333 | 9,990 | 7,287 | 333 |
| -RPC- 10+00.00 | 40+00.00 | 96,202 | 2,496 | 81,397 | | 17,301 |
| **SUBTOTAL:** | | 96,202 | 2,496 | 81,397 | 0 | 17,301 |
| -L1_EB- 37+52.34 | 66+10.00 | 35,845 | 2,071 | 14,331 | | 23,585 |
| **SUBTOTAL:** | | 35,845 | 2,071 | 14,331 | 0 | 23,585 |
| -L1_WB- 37+17.52 | 66+00.00 | 13,296 | 2,254 | 1,551 | | 13,999 |
| **SUBTOTAL:** | | 13,296 | 2,254 | 1,551 | 0 | 13,999 |
| **TOTAL:** | | 148,046 | 7,154 | 107,270 | 7,287 | 55,217 |
| SHOULDER MATERIAL TO BE USED IN LIEU OF SHOULDER BORROW | | | | 2,415 | 2,415 | |
| LOSS DUE TO CLEARING & GRUBBING | | -4,817 | | | | -4,817 |
| ADDITIONAL UNDERCUT | | | 2,050 | 2,358 | 2,358 | 2,050 |
| SELECT GRANULAR MATERIAL IN LIEU OF BORROW | | | | -748 | -748 | |
| WASTE IN LIEU OF BORROW | | | | | -11,312 | -11,312 |
| **I-2513AB PROJECT TOTALS:** | | 143,229 | 9,204 | 111,295 | 0 | 41,138 |
| EST. 5% TO REPLACE TOP SOIL ON BORROW PIT | | | | | | |
| **TOTALS:** | | 143,229 | 9,204 | 111,295 | 0 | 41,138 |
| **I-2513AB GRAND TOTALS:** | | 143,229 | 9,204 | 111,295 | 0 | 41,138 |
| **SAY:** | | **143,250** | **9,210** | | | |

EST. UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3FT OF EMBANKMENT OR BACKFILL (PER GEOTECH RECOMMENDATION: -L1- 64+75 to 65+75 = 550CY, -Y5RPA- 25+00 to 27+19 = 1,175CY, -RPC- 38+75 to 39+50 =275CY)

EST. DDE = 3,280 CUBIC YARDS (PER GEOTECH RECOMMENDATIONS - 475 CY IS UNSUITABLE WASTE MATERIAL)

Pavement Structure Volume -RPC- 5,000 CY

## *I–2513AA & I–2513AB*

| | | Uncl. Excav. | Undercut | Embank. +% | Borrow | Waste |
|---|---|---|---|---|---|---|
| **I-2513AA TOTAL:** | | 36,650 | 9,900 | | 16,350 | |
| **I-2513AB TOTAL:** | | 143,250 | 9,210 | | | |
| **I-2513AA/AB GRAND TOTALS:** | | 179,900 | 19,110 | | 16,350 | |

Note: Earthwork quantities are calculated by the roadway designer. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

12/06/07
2/8/2024
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