

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: BR-0069

COUNTY: Caswell

DATE: 8/3/2022

COMPILED BY: Moffatt & Nichol

SHEET 1 OF 1 SHEET

| STATION | STATION | EXCAVATION | | | | | EMBANKMENT | | | | BORROW | WASTE | | | | | | |
|---|-----------------|---------------|-------|----------|------------------|-------------------|------------|-------|--------|---------------|--------|-------|----------|---------|-------|--|--|---------------|
| | | TOTAL UNCLASS | ROCK | UNDERCUT | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL | ROCK | EARTH | EMBANK. +20% | | ROCK | SUITABLE | UNSUIT. | TOTAL | | | |
| -LDET- | | | | | | | | | | | | | | | | | | |
| 10+40.00 | 16+25.00 | 12,291 | 1,200 | | | 11,091 | 674 | 562 | | 562 | | | 638 | 11,091 | | | | 11,729 |
| 17+95.00 | 23+33.02 | 17 | | | | 17 | 8,206 | | 8,206 | 9,847 | 9,830 | | | | | | | |
| | SUBTOTAL | 12,308 | 1,200 | | | 11,108 | 8,880 | 562 | 8,206 | 10,409 | 9,830 | | 638 | 11,091 | | | | 11,729 |
| -L- | | | | | | | | | | | | | | | | | | |
| 12+40.00 | 18+93.00 | 2,873 | | | | 2,873 | 1,351 | | 1,351 | 1,621 | | | | 1,252 | | | | 1,252 |
| 21+43.00 | 26+50.00 | 29 | | | | 29 | 881 | | 881 | 1,057 | 1,028 | | | | | | | |
| | SUBTOTAL | 2,902 | | | | 2,902 | 2,232 | | 2,232 | 2,678 | 1,028 | | | 1,252 | | | | 1,252 |
| -LDET- REMOVAL TO BE WASTED | | | | | | | | | | | | | | | | | | |
| 10+40.00 | 23+33.02 | 7,340 | | | | 7,340 | | | | | | | | 7,340 | | | | 7,340 |
| | SUBTOTAL | 7,340 | | | | 7,340 | | | | | | | | 7,340 | | | | 7,340 |
| Rock Contingency | | | 1,000 | | | -1,000 | | | | | | | 1,000 | -1,000 | | | | |
| | SUBTOTAL | | 1,000 | | | -1,000 | | | | | | | 1,000 | -1,000 | | | | |
| TOTAL | | 22,550 | 2,200 | | | 20,350 | 11,112 | 562 | 10,438 | 13,087 | 10,858 | | 1,638 | 18,683 | | | | 20,321 |
| LOSS DUE TO CLEARING & GRUBBING | | -670 | | | | -670 | | | | | | | | -670 | | | | -670 |
| ROCK WASTE TO REPLACE BORROW | | | | | | | | 1,638 | -1,638 | | -1,638 | | -1,638 | | | | | -1,638 |
| ADJUST FOR ROCK SWELL | | | | | | | | | | -328 | -328 | | | | | | | |
| ELIMINATE EARTH SHRINKAGE | | | | | | | | | | -393 | -393 | | | | | | | |
| WASTE IN LIEU OF BORROW | | | | | | | | | | | -8,499 | | | -8,499 | | | | -8,499 |
| PROJECT TOTAL | | 21,880 | 2,200 | | | 19,680 | 11,112 | 2,200 | 8,800 | 12,366 | | | 9,514 | | | | | 9,514 |
| EST. 5% TO REPLACE TOP SOIL ON BORROW PIT | | | | | | | | | | | | | | | | | | |
| GRAND TOTAL | | 21,880 | 2,200 | | | 19,680 | 11,112 | 2,200 | 8,800 | 12,366 | | | 9,514 | | | | | 9,514 |
| SAY | | 23,000 | | | | | | | | 13,000 | | | | | | | | 10,000 |

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGNER. THESE QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEER.

- EST. DDE = 160 CY
- SHOULDER BORROW = 620 CY
- CONTINGENCY ITEMS
- EST. UNDERCUT EXCAVATION = 900 CY
- EST. SELECT GRANULAR MATERIAL = 500 CY
- EST. GEOTEXTILE FOR SUBGRADE STABILIZATION = 1000 SY
- EST. SHALLOW UNDERCUT = 200 CY
- EST. CLASS IV SUBGRADE STABILIZATION = 400 TON
- EST. 6" PERFORATED SUBDRAIN PIPE = 200 LF
- EST. ROCK EXCAVATION = 1000 CY