# Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: U-5873 COUNTY: Mecklenburg DATE: 11/3/2023 COMPILED BY: KIMLEY-HORN



| LINE | STATION | STATION | EXCAVATION | | | | | EMBANKMENT | | | | BORROW | WASTE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TOTAL UNCLASS. | ROCK | UNDERCUT | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL | ROCK | EARTH | EMBANK. +15% | | ROCK | SUITABLE | UNSUIT. | TOTAL |
| SECTION 1 (PHASE 1A) | | | | | | | | | | | | | | | | |
| -Y2- (RT) | 13+10.00 | 15+66.29 | 474 | | | | 474 | 0 | | 0 | 0 | | | 474 | | 474 |
| -Y3- (LT) | 10+11.00 | 11+30.00 | 16 | | | | 16 | 3 | | 3 | 3 | | | 13 | | 13 |
| -Y3- (RT) | 10+11.00 | 11+30.00 | 11 | | | | 11 | 3 | | 3 | 3 | | | 8 | | 8 |
| | | **SUBTOTAL** | 501 | 0 | 0 | 0 | 501 | 6 | 0 | 6 | 7 | 0 | 0 | 494 | 0 | 494 |
| SECTION 2 (PHASE 1B) | | | | | | | | | | | | | | | | |
| -L- (LT) | 11+95.33 | 14+80.00 | 46 | | | | 46 | 136 | | 136 | 156 | 110 | | | | |
| -CURB 1C- | 10+58.18 | 12+23.00 | 21 | | | | 21 | 588 | | 588 | 676 | 655 | | | | |
| -CURB 1D- | 11+25.00 | 12+13.23 | 301 | | | | 301 | 8 | | 8 | 9 | | | 292 | | 292 |
| -CURB 1A- | 10+50.00 | 13+17.45 | 313 | | | | 313 | 1994 | | 1994 | 2293 | 1980 | | | | |
| -CURB 1B- | 10+00.00 | 12+77.75 | 0 | | | | 0 | 3001 | | 3001 | 3451 | 3451 | | | | |
| -L- (LT) | 15+04.30 | 18+83.07 | 692 | | | | 692 | 3766 | | 3766 | 4331 | 3639 | | | | |
| -L- (RT) | 15+07.88 | 19+05.39 | 690 | | | | 690 | 4025 | | 4025 | 4629 | 3939 | | | | |
| -L- (LT) | 18+83.07 | 26+46.39 | 1030 | | | | 1030 | 3444 | | 3444 | 3961 | 2931 | | | | |
| -L- (RT) | 19+05.39 | 26+46.39 | 313 | | | | 313 | 1638 | | 1638 | 1884 | 1571 | | | | |
| -Y5- (LT) | 10+11.39 | 12+10.00 | 396 | | | | 396 | 0 | | 0 | 0 | | | 396 | | 396 |
| -Y5- (RT) | 10+11.39 | 12+10.00 | 66 | | | | 66 | 29 | | 29 | 33 | | | 33 | | 33 |
| -DRW15- | 10+22.00 | 11+02.00 | 8 | | | | 8 | 287 | | 287 | 330 | 322 | | | | |
| | | **SUBTOTAL** | 3876 | 0 | 0 | 0 | 3876 | 18916 | 0 | 18916 | 21753 | 18598 | 0 | 720 | 0 | 720 |
| SECTION 3 (PHASE 1C) | | | | | | | | | | | | | | | | |
| -Y1- (LT) | 10+45.80 | 13+57.38 | 4 | | | | 4 | 1328 | | 1328 | 1527 | 1523 | | | | |
| | | **SUBTOTAL** | 4 | 0 | 0 | 0 | 4 | 1328 | 0 | 1328 | 1527 | 1523 | 0 | 0 | 0 | 0 |
| SECTION 4 (PHASE 1D) | | | | | | | | | | | | | | | | |
| -L- (RT) | 11+95.33 | 14+96.00 | 94 | | | | 94 | 56 | | 56 | 64 | | | 30 | | 30 |
| -L- (LT) | 14+80.00 | 15+04.30 | 4 | | | | 4 | 21 | | 21 | 24 | 20 | | | | |
| -CURB 1A- | 10+00.00 | 10+50.00 | 261 | | | | 261 | 0 | | 0 | 0 | | | 261 | | 261 |
| -CURB 1C- | 10+00.00 | 10+58.18 | 47 | | | | 47 | 29 | | 29 | 33 | | | 14 | | 14 |
| -CURB 1D- | 10+00.00 | 11+25.00 | 170 | | | | 170 | 27 | | 27 | 31 | | | 139 | | 139 |
| -Y1- (RT) | 9+88.00 | 13+52.11 | 51 | | | | 51 | 380 | | 380 | 437 | 386 | | | | 0 |
| -Y2- (LT) | 11+80.53 | 15+25.00 | 952 | | | | 952 | 0 | | 0 | 0 | | | 952 | | 952 |
| -Y2- (RT) | 11+34.94 | 13+10.00 | 61 | | | | 61 | 163 | | 163 | 187 | 126 | | | | 0 |
| -Y2- (RT) | 15+90.00 | 20+00.00 | 117 | | | | 117 | 381 | | 381 | 438 | 321 | | | | 0 |
| -Y6- (LT) | 10+11.00 | 11+98.00 | 11 | | | | 11 | 63 | | 63 | 72 | 61 | | | | 0 |
| -Y6- (RT) | 10+11.00 | 11+98.00 | 8 | | | | 8 | 18 | | 18 | 21 | 13 | | | | 0 |
| | | **SUBTOTAL** | 1776 | 0 | 0 | 0 | 1776 | 1138 | 0 | 1138 | 1309 | 928 | 0 | 1395 | 0 | 1395 |
| | | **SHEET TOTAL** | 6157 | 0 | 0 | 0 | 6157 | 21388 | 0 | 21388 | 24596 | 21049 | 0 | 2610 | 0 | 2610 |

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.

# Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: U-5873 COUNTY: Mecklenburg DATE: 11/3/2023 COMPILED BY: KIMLEY-HORN 

| LINE | STATION | STATION | EXCAVATION | | | | | EMBANKMENT | | | | BORROW | WASTE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TOTAL UNCLASS. | ROCK | UNDERCUT | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL | ROCK | EARTH | EMBANK. +15% | | ROCK | SUITABLE | UNSUIT. | TOTAL |
| SECTION 5 (PHASE 1E) | | | | | | | | | | | | | | | | |
| -L- (RT) | 14+96.00 | 15+07.88 | 0 | | | | 0 | 7 | | 7 | 8 | 8 | | | | |
| -Y2- (LT) | 15+25.00 | 20+00.00 | 439 | | | | 439 | 76 | | 76 | 87 | | | 352 | | 352 |
| -Y2- (RT) | 15+66.29 | 15+90.00 | 19 | | | | 19 | 3 | | 3 | 3 | | | 16 | | 16 |
| -Y6- (RT) | 11+33.29 | 11+98.00 | 8 | | | | 8 | 1 | | 1 | 1 | | | 7 | | 7 |
| | | **SUBTOTAL** | 466 | 0 | 0 | 0 | 466 | 87 | 0 | 87 | 100 | 8 | 0 | 374 | 0 | 374 |
| | | **SHEET TOTAL** | 466 | 0 | 0 | 0 | 466 | 87 | 0 | 87 | 100 | 8 | 0 | 374 | 0 | 374 |

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.

# Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: U-5873 COUNTY: Mecklenburg DATE: 11/3/2023 COMPILED BY: KIMLEY-HORN



| STATION | STATION | EXCAVATION | | | | | EMBANKMENT | | | | BORROW | WASTE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOTAL UNCLASS. | ROCK | UNDERCUT | UNDERCUT UNCLASS. | SUITABLE UNCLASS. | TOTAL | ROCK | EARTH | EMBANK. +15% | | ROCK | SUITABLE | UNSUIT. | TOTAL |
| | TOTAL FROM SHEET 1 | 6157 | 0 | 0 | 0 | 6157 | 21388 | 0 | 21388 | 24596 | 21049 | 0 | 2610 | 0 | 2610 |
| | TOTAL FROM SHEET 2 | 466 | 0 | 0 | 0 | 466 | 87 | 0 | 87 | 100 | 8 | 0 | 374 | 0 | 374 |
| **TOTAL** | | 6623 | 0 | 0 | 0 | 6623 | 21475 | 0 | 21475 | 24696 | 21057 | 0 | 2984 | 0 | 2984 |
| EARTH WASTE TO REPLACE BORROW | | | | | | | | | | | -2984 | | -2984 | | -2984 |
| **PROJECT TOTAL** | | 6623 | 0 | 0 | 0 | 6623 | 21475 | 0 | 21475 | 24696 | 18073 | 0 | 0 | 0 | 0 |
| EST. 5% TO REPLACE TOP SOIL ON BORROW PIT | | | | | | | | | | | 904 | | | | |
| **GRAND TOTAL** | | 6623 | 0 | 0 | 0 | 6623 | 21475 | 0 | 21475 | 24696 | 18977 | 0 | 0 | 0 | 0 |
| **SAY** | | 6700 | | | | | | | | | 19000 | | | | |

| | | | |
|---|---|---|---|
| ESTIMATED DDE | 140 | CY | (CONTINGENCY, AS DIRECTED BY THE ENGINEER) |
| ESTIMATED SHALLOW UNDERCUT | 125 | CY | (CONTINGENCY, AS DIRECTED BY THE ENGINEER) |
| ESTIMATED SELECT GRANULAR MATERIAL | 200 | CY | (CONTINGENCY, AS DIRECTED BY THE ENGINEER) |
| ESTIMATED UNDERCUT EXCAVATION | 225 | CY | (CONTINGENCY, AS DIRECTED BY THE ENGINEER) |
| ESTIMATED CLASS IV SUBGRADE STABILIZATION | 275 | CY | (CONTINGENCY, AS DIRECTED BY THE ENGINEER) |

NOTE: THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.