

# Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: U-5808

COUNTY: Union

DATE: 9/18/2023

COMPILED BY: Mead & Hunt

SHEET 1 OF 1 SHEETS

| STATION                                   | STATION                | EXCAVATION     |      |              |                  |                   | EMBANKMENT     |      |                |                | BORROW         | WASTE |              |              |              |
|---|------------------------|----------------|------|--------------|------------------|-------------------|----------------|------|----------------|----------------|----------------|-------|--------------|--------------|--------------|
|   |                        | TOTAL UNCLASS. | ROCK | UNDERCUT     | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL          | ROCK | EARTH          | EMBANK. +20%   |                | ROCK  | SUITABLE     | UNSUIT.      | TOTAL        |
| -L1- STA. 41+00.00                        | -L1- STA. 43+84.47     | 4,640          |      |              | 3,400            | 1,240             | 7              |      | 7              | 8              |                |       | 1,232        | 3,400        | 4,632        |
| -DR1- STA. 10+10.00                       | -DR1- STA. 12+12.16    | 51             |      |              |                  | 51                | 2              |      | 2              | 2              |                |       | 49           |              | 49           |
| -Y1A- STA. 10+25.00                       | -Y1A- STA. 11+95.70    | 21             |      |              |                  | 21                | 380            |      | 380            | 456            | 435            |       |              |              |              |
| -Y1B- STA. 10+68.59                       | -Y1B- STA. 13+00.00    | 25             |      |              |                  | 25                | 577            |      | 577            | 692            | 667            |       |              |              |              |
| -RA- STA. 10+00.00                        | -RA- STA. 13+60.16     | 48             |      |              |                  | 48                | 2,909          |      | 2,909          | 3,491          | 3,443          |       |              |              |              |
|   | <b>SUBTOTAL</b>        | <b>4,785</b>   |      |              | <b>3,400</b>     | <b>1,385</b>      | <b>3,875</b>   |      | <b>3,875</b>   | <b>4,649</b>   | <b>4,545</b>   |       | <b>1,281</b> | <b>3,400</b> | <b>4,681</b> |
| -L2- STA. 45+30.33                        | -L2- STA. 53+78.25     |                |      |              |                  |                   | 69,648         |      | 69,648         | 83,578         | 83,578         |       |              |              |              |
|   | <b>SUBTOTAL</b>        |                |      |              |                  |                   | <b>69,648</b>  |      | <b>69,648</b>  | <b>83,578</b>  | <b>83,578</b>  |       |              |              |              |
| -L2- STA. 56+23.66                        | -L2- STA. 64+50.00     | 35             |      | 200          |                  | 35                | 73,443         |      | 73,443         | 88,132         | 88,097         |       |              | 200          | 200          |
| -Y2- STA. 11+50.00                        | -Y2- STA. 13+11.34     | 66             |      |              |                  | 66                | 219            |      | 219            | 263            | 197            |       |              |              |              |
| -Y2- STA. 13+74.75                        | -Y2- STA. 17+60.00     | 68             |      |              |                  | 68                | 982            |      | 982            | 1,178          | 1,110          |       |              |              |              |
| -L2- STA. 65+00.00                        | -L2- STA. 72+00.00     | 855            |      |              |                  | 855               | 146            |      | 146            | 175            |                |       | 680          |              | 680          |
|   | <b>SUBTOTAL</b>        | <b>1,024</b>   |      | <b>200</b>   |                  | <b>1,024</b>      | <b>74,790</b>  |      | <b>74,790</b>  | <b>89,748</b>  | <b>89,404</b>  |       | <b>680</b>   | <b>200</b>   | <b>880</b>   |
| -L2- STA. 87+75.00                        | -L2- STA. 88+47.55     | 11             |      |              |                  | 11                | 6              |      | 6              | 7              |                |       | 4            |              | 4            |
| -Y3- STA. 12+09.00 MED                    | -Y3- STA. 25+50.00 MED | 1,448          |      |              |                  | 1,448             | 540            |      | 540            | 648            |                |       | 800          |              | 800          |
| -Y3- STA. 12+09.00 RT                     | -Y3- STA. 14+90.00 RT  | 232            |      |              |                  | 232               | 390            |      | 390            | 468            | 236            |       |              |              |              |
| -Y4- STA. 12+90.00                        | -Y4- STA. 14+29.88     |                |      |              |                  |                   | 27             |      | 27             | 32             | 32             |       |              |              |              |
| -DR2- STA. 11+69.14                       | -DR2- STA. 12+98.99    | 109            |      |              |                  | 109               | 25             |      | 25             | 30             |                |       | 79           |              | 79           |
|   | <b>SUBTOTAL</b>        | <b>1,800</b>   |      |              |                  | <b>1,800</b>      | <b>988</b>     |      | <b>988</b>     | <b>1,185</b>   | <b>268</b>     |       | <b>883</b>   |              | <b>883</b>   |
|   | <b>TOTAL</b>           | <b>7,609</b>   |      | <b>200</b>   | <b>3,400</b>     | <b>4,209</b>      | <b>149,301</b> |      | <b>149,301</b> | <b>179,160</b> | <b>177,795</b> |       | <b>2,844</b> | <b>3,600</b> | <b>6,444</b> |
| MATERIAL FOR SHOULDER CONSTRUCTION        |                        |                |      |              |                  |                   | 40             |      | 40             | 48             | 48             |       |              |              |              |
| LOSS DUE TO CLEARING & GRUBBING           |                        | -3,500         |      |              |                  | -3,500            |                |      |                |                | 3,500          |       |              |              |              |
| ADDITIONAL UNDERCUT                       |                        |                |      | 1,250        |                  |                   | 1,250          |      | 1,250          | 1,500          | 1,500          |       |              | 1,250        | 1,250        |
| ROCK WASTE TO REPLACE BORROW              |                        |                |      |              |                  |                   |                |      |                |                |                |       |              |              |              |
| ADJUST FOR ROCK WASTE                     |                        |                |      |              |                  |                   |                |      |                |                |                |       |              |              |              |
| WASTE IN LIEU OF BORROW                   |                        |                |      |              |                  |                   |                |      |                |                | -2,844         |       | -2,844       |              | -2,844       |
|   | <b>PROJECT TOTAL</b>   | <b>4,109</b>   |      | <b>1,450</b> | <b>3,400</b>     | <b>709</b>        | <b>150,591</b> |      | <b>150,591</b> | <b>180,708</b> | <b>179,999</b> |       |              | <b>4,850</b> | <b>4,850</b> |
| EST. 5% TO REPLACE TOP SOIL ON BORROW PIT |                        |                |      |              |                  |                   |                |      |                |                | 9,000          |       |              |              |              |
|   | <b>GRAND TOTAL</b>     | <b>4,109</b>   |      | <b>1,450</b> | <b>3,400</b>     | <b>709</b>        | <b>150,591</b> |      | <b>150,591</b> | <b>180,708</b> | <b>188,999</b> |       |              | <b>4,850</b> | <b>4,850</b> |
|   | <b>SAY</b>             | <b>4,200</b>   |      |              |                  |                   |                |      |                |                | <b>190,000</b> |       |              |              |              |

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.

EST. DDE = 700 CUBIC YARDS  
 EST. SHALLOW UNDERCUT = 700 CUBIC YARDS  
 EST. SHALLOW UNDERCUT BY STATIONS = 150 CUBIC YARDS  
 TOTAL SHALLOW UNDERCUT = 850 CUBIC YARDS  
 CLASS IV SUBGRADE STABILIZATION = 1,650 TONS  
 PER GEOTECH RECOMMENDATION, ESTIMATED 1,450 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.