

SUMMARY OF EARTHWORK

IN CUBIC METERS



| LOCATION | UNCL. EXCAVATION | UNDERCUT | EMBT + % | BORROW | WASTE |
|--------------------------------|------------------|----------|----------|--------|-------|
| SUMMARY #1 - LEFT SIDE | | | | | |
| -L- 10+00.000 TO 19+00.000 | 842 | | 4249 | 3473 | 66 |
| -Y6- 11+08.462 TO 11+39.336 | 144 | | | | 144 |
| SUMMARY #2 - RIGHT SIDE | | | | | |
| -L- 10+00 TO 19+00 RIGHT SIDE | 1839 | | 1542 | 358 | 655 |
| -Y1- 10+09.611 TO 10+26.724 | 26 | | | | 26 |
| -Y3- 10+09.629 TO 10+32.500 | 10 | | 20 | 10 | |
| -Y4- 10+09.601 TO 10+50.000 | 132 | | 78 | | 54 |
| -Y5- 10+09.618 TO 10+40.734 | 98 | | 5 | | 93 |
| -Y7- 10+09.065 TO 10+50.000 | 75 | | 13 | | 62 |
| SUMMARY #3 LEFT SIDE | | | | | |
| -L- 19+00.000 TO 28+00.000 | 445 | | 6311 | 5866 | |
| -Y9- 11+18.000 TO 11+42.383 | 49 | | | | 49 |
| -Y11- 11+05.000 TO 11+39.557 | 148 | | 10 | | 138 |
| -Y13- 10+93.980 TO 11+45.984 | 261 | | | | 261 |
| -Y14- 11+09.000 TO 11+44.679 | 87 | | 19 | | 68 |
| -Y15- 10+80.000 TO 11+54.359 | 14 | | 70 | 56 | |
| SUMMARY #4 - RIGHT SIDE | | | | | |
| -L- 19+00 TO 28+00 | 1144 | | 3968 | 3151 | 327 |
| -Y8- 10+09.628 TO 10+51.730 | 99 | | | | 99 |
| -Y10- 10+09.630 TO 10+41.000 | 86 | | 20 | | 66 |
| -Y12- 10+09.630 TO 10+43.000 | 55 | | 59 | 4 | |
| SUMMARY #5 FULL DEPTH | | | | | |
| -L- 28+00.000 TO 29+60 | | | 4096 | 4096 | |
| -Y17- 10+04.200 TO 10+34.500 | 33 | | 10 | | 23 |
| SUMMARY #6 - LEFT SIDE | | | | | |
| -L- 29+60.000 TO 37+20.000 | 1863 | | 1512 | 248 | 599 |
| SUMMARY #7 - RIGHT SIDE | | | | | |
| -L- 29+60.000 TO 37+20.000 | 358 | | 3402 | 3168 | 124 |
| -Y18- 10+07.082 TO 10+65.000 | 66 | | 312 | 246 | |
| -Y19- 10+09.623 TO 10+41.000 | 56 | | 42 | | 14 |
| SUMMARY #8 - FULL DEPTH | | | | | |
| -L- 37+20.000 TO 38+20.000 | 6 | | 1758 | 1752 | |
| -Y20- 11+00.000 TO 11+42.579 | 63 | | 191 | 128 | |
| SUMMARY #9 - LEFT SIDE | | | | | |
| -L- 38+20.000 TO 39+00.000 | | | 508 | 508 | |
| -Y21- 10+00.000 TO 11+39.284 | 75 | | 593 | 518 | |

| LOCATION | UNCL. EXCAVATION | UNDERCUT | EMBT + % | BORROW | WASTE |
|--------------------------------------|------------------|----------|----------|--------|--------|
| SUMMARY #10 - RIGHT SIDE | | | | | |
| -L- 38+20.000 TO 39+00.000 | 95 | | 61 | | 34 |
| -DR2- 10+09.646 TO 10+63.702 | 400 | | 2 | | 398 |
| SUMMARY #11 - FULL DEPTH | | | | | |
| -L- 39+00.000 TO 40+29.921 | | | 6854 | 6854 | |
| -RPA- 12+50.602 TO 15+44.465 | 8808 | | 5358 | | 3450 |
| -RPB- 11+91.171 TO 12+98.576 | 280 | | 1207 | 927 | |
| SUMMARY #12 - FULL DEPTH | | | | | |
| -L- 40+73.574 TO 43+86.851 | 322 | | 18236 | 17914 | |
| -Y23- 10+20.000 TO 13+00.000 | 670 | | 6635 | 5965 | |
| -RPC- 11+31.953 TO 14+45.938 | 6197 | 1700 | 4510 | | 3450 |
| -RPD- 11+60.000 TO 13+00.000 | | | 7022 | 7022 | |
| -LPC- 10+79.235 TO 12+91.589 | 9296 | | 667 | | 8629 |
| -DR- 10+04.000 TO 11+97.846 | 53 | | 5148 | 5095 | |
| -DR3- 10+20.000 TO 10+40.000 | | | 48 | 48 | |
| -Y22- 10+20 TO 21+60.000 | 16063 | | 20948 | 4885 | |
| TOTAL OF SUMMARIES #1-12 | 50258 | | 107525 | 72292 | 18766 |
| LOSS DUE TO CLEARING AND GRUBBING | -4500 | | | 4500 | |
| UNDERCUT FOR GRADE POINTS | | 500 | 600 | 600 | 500 |
| UNDERCUT GEOTECH | | 500 | 600 | 600 | 500 |
| USE SUITABLE WASTE IN LIEU OF BORROW | | | | -15143 | -15143 |
| SHOULDER MATERIAL | | | 6840 | 6840 | |
| PROJECT TOTALS : | 45758 | 2700 | 115565 | 69689 | 4623 |
| +5% TO REPLACE TOPSOIL IN BORROW PIT | | | | 3484 | |
| SHALLOW UNDERCUT | | 7000 | | | 7000 |
| GRAND TOTAL | 45758 | 9700 | | 73173 | 16246 |
| SAY | 46000 | | | 74000 | |