```
Input  File: ewkprj.inp
Output File: SR65Earth.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 250.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65MainlineXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = earth
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-6
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = earth
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Skip Areas
 1    34    34        from 43+71.94 R 1 to 45+65.91 R 1
 1    35    35
 1    36    36     Write Earthwork Shapes
 1    37    37         plot param
 1    38    38             lv = 347
 1    39    39             lvname = DESIGN - EARTHWORK - Shapes
 1    40    40             co = 1
 1    41    41             wt = 0
 1    42    42             lc = 0
 1    43    43             Stratify Shape Color
 1    44    44
 1    45    45     combine common exc + subgrade exc + subsoil exc
 1    46    46
 1    47    47
 1    48    48     Add Accumulated Adjusted Volume Column
 1    49    49
 1    50    50     Add Accumulated Unadjusted Volume Column
 1    51    51
 1    52    52     End Area Decimal Places = 0
 1    53    53
 1    54    54     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\SR65Earth.txt
 1    55    55
 1    56    56     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    57    57     column 1 number of decimal place = 0
 1    58    58     column 1 total length = 10
 1    59    59
```

```
 1    60    60     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    61    61     column 2 number of decimal place = 0
 1    62    62     column 2 total length = 10
 1    63    63
 1    64    64
 1    65    65     Process Earthwork for Baseline = SR65
 1    66    66         job number = 3g0
 1    67    67
 1    68    68         beg sta = 30+00.00 R 1
 1    69    69         end sta = 153+51.31 R 1
 0     0    70 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = SR65
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------
XS-NOPROP No proposed xs elements at station 30+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 30+50.00.
XS-NOPROP No proposed xs elements at station 31+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 31+00.00.

   31+50.00 EARTH
                Excavation      111        308        308   1.00                 308
       308
                     Fill         0          0          0   1.00      308          0
         0

   32+00.00 EARTH
                Excavation      123        217        217   1.00                 525
       525
                     Fill         0          0          0   1.00      525          0
         0

   32+50.00 EARTH
                Excavation       98        205        205   1.00                 730
       730
                     Fill         1          1          1   1.00      729          1
         1

   33+00.00 EARTH
                Excavation       92        176        176   1.00                 906
       906
                     Fill         3          4          4   1.00      901          5
         5

   33+50.00 EARTH
                Excavation      126        202        202   1.00                1108
      1108
                     Fill         7          9          9   1.00     1094         14
        14

   34+00.00 EARTH
                Excavation       92        202        202   1.00                1310
```

```
   1310
                Fill          3          9          9   1.00     1287          23
     23

34+50.00 EARTH
            Excavation       72        152        152   1.00                1462
   1462
                Fill          9         11         11   1.00     1428          34
     34

35+00.00 EARTH
            Excavation       97        156        156   1.00                1618
   1618
                Fill         12         19         19   1.00     1565          53
     53

35+50.00 EARTH
            Excavation      124        205        205   1.00                1823
   1823
                Fill         19         29         29   1.00     1741          82
     82

36+00.00 EARTH
            Excavation      143        247        247   1.00                2070
   2070
                Fill         28         44         44   1.00     1944         126
    126

36+50.00 EARTH
            Excavation      182        301        301   1.00                2371
   2371
                Fill         28         52         52   1.00     2193         178
    178

37+00.00 EARTH
            Excavation      177        332        332   1.00                2703
   2703
                Fill         31         55         55   1.00     2470         233
    233

37+50.00 EARTH
            Excavation      186        336        336   1.00                3039
   3039
                Fill          1         30         30   1.00     2776         263
    263

38+00.00 EARTH
            Excavation      172        331        331   1.00                3370
   3370
                Fill          7          7          7   1.00     3100         270
    270

38+50.00 EARTH
            Excavation      135        284        284   1.00                3654
   3654
                Fill         18         23         23   1.00     3361         293
    293

39+00.00 EARTH
            Excavation       79        198        198   1.00                3852
   3852
                Fill         33         47         47   1.00     3512         340
    340
```

```
   39+50.00 EARTH
                Excavation        9         81         81   1.00                3933
      3933
                     Fill      100        123        123   1.00     3470        463
       463

   40+00.00 EARTH
                Excavation        3         11         11   1.00                3944
      3944
                     Fill      182        261        261   1.00     3220        724
       724

   40+50.00 EARTH
                Excavation       10         12         12   1.00                3956
      3956
                     Fill      152        309        309   1.00     2923       1033
      1033
XS-NOPROP No proposed xs elements at station 41+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 41+00.00.

   41+50.00 EARTH
                Excavation       16         48         48   1.00                4004
      4004
                     Fill      121        506        506   1.00     2465       1539
      1539

   42+00.00 EARTH
                Excavation        0         15         15   1.00                4019
      4019
                     Fill      146        247        247   1.00     2233       1786
      1786

   42+50.00 EARTH
                Excavation        8          7          7   1.00                4026
      4026
                     Fill      160        283        283   1.00     1957       2069
      2069

   43+00.00 EARTH
                Excavation       20         26         26   1.00                4052
      4052
                     Fill      167        303        303   1.00     1680       2372
      2372

   43+50.00 EARTH
                Excavation        8         26         26   1.00                4078
      4078
                     Fill      491        609        609   1.00     1097       2981
      2981
XS-NOPROP No proposed xs elements at station 44+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 44+00.00.
XS-NOPROP No proposed xs elements at station 44+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 44+50.00.
XS-NOPROP No proposed xs elements at station 45+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 45+00.00.
XS-NOPROP No proposed xs elements at station 45+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 45+50.00.
```

```
SKIP STATION RANGE = 43+71.94 to 45+65.91
   46+00.00 EARTH
                Excavation       24         33         33   1.00                4111
      4111
                     Fill     1236       1792       1792   1.00     -662       4773
      4773

   46+50.00 EARTH
                Excavation       14         35         35   1.00                4146
      4146
                     Fill     1295       2344       2344   1.00    -2971       7117
      7117

   47+00.00 EARTH
                Excavation        3         16         16   1.00                4162
      4162
                     Fill     1371       2469       2469   1.00    -5424       9586
      9586

   47+50.00 EARTH
                Excavation        0          3          3   1.00                4165
      4165
                     Fill     1441       2604       2604   1.00    -8025      12190
     12190

   48+00.00 EARTH
                Excavation        0          0          0   1.00                4165
      4165
                     Fill     1514       2736       2736   1.00   -10761      14926
     14926

   48+50.00 EARTH
                Excavation        0          0          0   1.00                4165
      4165
                     Fill     1513       2803       2803   1.00   -13564      17729
     17729

   49+00.00 EARTH
                Excavation        0          0          0   1.00                4165
      4165
                     Fill     1266       2573       2573   1.00   -16137      20302
     20302

   49+50.00 EARTH
                Excavation        0          0          0   1.00                4165
      4165
                     Fill     1184       2269       2269   1.00   -18406      22571
     22571

   50+00.00 EARTH
                Excavation        0          0          0   1.00                4165
      4165
                     Fill     1127       2140       2140   1.00   -20546      24711
     24711

   50+50.00 EARTH
                Excavation        0          0          0   1.00                4165
      4165
                     Fill      859       1839       1839   1.00   -22385      26550
     26550

   51+00.00 EARTH
```

```
            Excavation        0          0          0   1.00                4165
  4165
                Fill        576       1329       1329   1.00   -23714      27879
 27879

51+50.00 EARTH
            Excavation        0          0          0   1.00                4165
  4165
                Fill        188        707        707   1.00   -24421      28586
 28586

52+00.00 EARTH
            Excavation        1          1          1   1.00                4166
  4166
                Fill        163        325        325   1.00   -24745      28911
 28911

52+50.00 EARTH
            Excavation       26         25         25   1.00                4191
  4191
                Fill         78        223        223   1.00   -24943      29134
 29134

53+00.00 EARTH
            Excavation       31         53         53   1.00                4244
  4244
                Fill         68        135        135   1.00   -25025      29269
 29269

53+50.00 EARTH
            Excavation       53         78         78   1.00                4322
  4322
                Fill         73        131        131   1.00   -25078      29400
 29400

54+00.00 EARTH
            Excavation       79        122        122   1.00                4444
  4444
                Fill         60        123        123   1.00   -25079      29523
 29523

54+50.00 EARTH
            Excavation      122        186        186   1.00                4630
  4630
                Fill         44         96         96   1.00   -24989      29619
 29619

55+00.00 EARTH
            Excavation      181        281        281   1.00                4911
  4911
                Fill         25         64         64   1.00   -24772      29683
 29683

55+50.00 EARTH
            Excavation      194        347        347   1.00                5258
  5258
                Fill         21         43         43   1.00   -24468      29726
 29726

56+00.00 EARTH
            Excavation      161        329        329   1.00                5587
  5587
                Fill         26         44         44   1.00   -24183      29770
```

```
  29770

56+50.00 EARTH
             Excavation      123        263        263   1.00                5850
   5850
                 Fill         35         56         56   1.00   -23976      29826
  29826

57+00.00 EARTH
             Excavation      113        219        219   1.00                6069
   6069
                 Fill         35         65         65   1.00   -23822      29891
  29891

57+50.00 EARTH
             Excavation      119        215        215   1.00                6284
   6284
                 Fill         34         64         64   1.00   -23671      29955
  29955

58+00.00 EARTH
             Excavation      121        222        222   1.00                6506
   6506
                 Fill         28         57         57   1.00   -23506      30012
  30012

58+50.00 EARTH
             Excavation      145        246        246   1.00                6752
   6752
                 Fill         21         45         45   1.00   -23305      30057
  30057

59+00.00 EARTH
             Excavation      160        282        282   1.00                7034
   7034
                 Fill         16         34         34   1.00   -23057      30091
  30091

59+50.00 EARTH
             Excavation      136        274        274   1.00                7308
   7308
                 Fill         10         24         24   1.00   -22807      30115
  30115

60+00.00 EARTH
             Excavation      118        235        235   1.00                7543
   7543
                 Fill          9         18         18   1.00   -22590      30133
  30133

60+50.00 EARTH
             Excavation      111        212        212   1.00                7755
   7755
                 Fill          3         11         11   1.00   -22389      30144
  30144

61+00.00 EARTH
             Excavation      103        198        198   1.00                7953
   7953
                 Fill          5          7          7   1.00   -22198      30151
  30151

61+50.00 EARTH
```

```
            Excavation       73        163        163   1.00                8116
   8116
                Fill         51         52         52   1.00   -22087      30203
  30203

62+00.00 EARTH
            Excavation       71        133        133   1.00                8249
   8249
                Fill        166        201        201   1.00   -22155      30404
  30404

62+50.00 EARTH
            Excavation       64        125        125   1.00                8374
   8374
                Fill        272        406        406   1.00   -22436      30810
  30810

63+00.00 EARTH
            Excavation       56        111        111   1.00                8485
   8485
                Fill        612        819        819   1.00   -23144      31629
  31629

63+50.00 EARTH
            Excavation       54        102        102   1.00                8587
   8587
                Fill        697       1212       1212   1.00   -24254      32841
  32841

64+00.00 EARTH
            Excavation       67        112        112   1.00                8699
   8699
                Fill        866       1447       1447   1.00   -25589      34288
  34288

64+50.00 EARTH
            Excavation       79        135        135   1.00                8834
   8834
                Fill        554       1315       1315   1.00   -26769      35603
  35603

65+00.00 EARTH
            Excavation       85        152        152   1.00                8986
   8986
                Fill        366        852        852   1.00   -27469      36455
  36455

65+50.00 EARTH
            Excavation       76        149        149   1.00                9135
   9135
                Fill        263        582        582   1.00   -27902      37037
  37037

66+00.00 EARTH
            Excavation       86        150        150   1.00                9285
   9285
                Fill         39        280        280   1.00   -28032      37317
  37317

66+50.00 EARTH
            Excavation       66        141        141   1.00                9426
   9426
                Fill         26         60         60   1.00   -27951      37377
```

```
  37377

67+00.00 EARTH
             Excavation       65        121        121   1.00                9547
   9547
                 Fill         32         54         54   1.00   -27884      37431
  37431

67+50.00 EARTH
             Excavation       65        120        120   1.00                9667
   9667
                 Fill         69         94         94   1.00   -27858      37525
  37525

68+00.00 EARTH
             Excavation       73        128        128   1.00                9795
   9795
                 Fill        135        189        189   1.00   -27919      37714
  37714

68+50.00 EARTH
             Excavation       69        131        131   1.00                9926
   9926
                 Fill        127        243        243   1.00   -28031      37957
  37957

69+00.00 EARTH
             Excavation       70        129        129   1.00               10055
  10055
                 Fill        140        247        247   1.00   -28149      38204
  38204

69+50.00 EARTH
             Excavation       66        126        126   1.00               10181
  10181
                 Fill        122        243        243   1.00   -28266      38447
  38447

70+00.00 EARTH
             Excavation       58        115        115   1.00               10296
  10296
                 Fill         90        196        196   1.00   -28347      38643
  38643

70+50.00 EARTH
             Excavation       58        107        107   1.00               10403
  10403
                 Fill         78        156        156   1.00   -28396      38799
  38799

71+00.00 EARTH
             Excavation       59        108        108   1.00               10511
  10511
                 Fill         83        149        149   1.00   -28437      38948
  38948

71+50.00 EARTH
             Excavation       62        112        112   1.00               10623
  10623
                 Fill         67        139        139   1.00   -28464      39087
  39087

72+00.00 EARTH
```

```
            Excavation       57        110        110   1.00                10733
  10733
                Fill         71        128        128   1.00   -28482       39215
  39215

72+50.00 EARTH
            Excavation      138        181        181   1.00                10914
  10914
                Fill         45        107        107   1.00   -28408       39322
  39322

73+00.00 EARTH
            Excavation       80        202        202   1.00                11116
  11116
                Fill         49         87         87   1.00   -28293       39409
  39409

73+50.00 EARTH
            Excavation       49        119        119   1.00                11235
  11235
                Fill         89        128        128   1.00   -28302       39537
  39537

74+00.00 EARTH
            Excavation       51         93         93   1.00                11328
  11328
                Fill         85        161        161   1.00   -28370       39698
  39698

74+50.00 EARTH
            Excavation       57        100        100   1.00                11428
  11428
                Fill         87        159        159   1.00   -28429       39857
  39857

75+00.00 EARTH
            Excavation       71        119        119   1.00                11547
  11547
                Fill         48        125        125   1.00   -28435       39982
  39982

75+50.00 EARTH
            Excavation       53        115        115   1.00                11662
  11662
                Fill         95        132        132   1.00   -28452       40114
  40114

76+00.00 EARTH
            Excavation       57        102        102   1.00                11764
  11764
                Fill         73        156        156   1.00   -28506       40270
  40270

76+50.00 EARTH
            Excavation       64        112        112   1.00                11876
  11876
                Fill         68        131        131   1.00   -28525       40401
  40401

77+00.00 EARTH
            Excavation       67        121        121   1.00                11997
  11997
                Fill         66        124        124   1.00   -28528       40525
```

```
  40525

77+50.00 EARTH
             Excavation       71        128        128   1.00                12125
  12125
                 Fill         64        120        120   1.00   -28520       40645
  40645

78+00.00 EARTH
             Excavation       83        143        143   1.00                12268
  12268
                 Fill         38         94         94   1.00   -28471       40739
  40739

78+50.00 EARTH
             Excavation      105        174        174   1.00                12442
  12442
                 Fill         21         55         55   1.00   -28352       40794
  40794

79+00.00 EARTH
             Excavation      113        202        202   1.00                12644
  12644
                 Fill          2         21         21   1.00   -28171       40815
  40815

79+50.00 EARTH
             Excavation      105        202        202   1.00                12846
  12846
                 Fill         34         33         33   1.00   -28002       40848
  40848

80+00.00 EARTH
             Excavation      110        199        199   1.00                13045
  13045
                 Fill         30         59         59   1.00   -27862       40907
  40907

80+50.00 EARTH
             Excavation       68        165        165   1.00                13210
  13210
                 Fill         30         56         56   1.00   -27753       40963
  40963

81+00.00 EARTH
             Excavation       53        112        112   1.00                13322
  13322
                 Fill         42         67         67   1.00   -27708       41030
  41030

81+50.00 EARTH
             Excavation       54         99         99   1.00                13421
  13421
                 Fill         60         94         94   1.00   -27703       41124
  41124

82+00.00 EARTH
             Excavation       55        101        101   1.00                13522
  13522
                 Fill         42         94         94   1.00   -27696       41218
  41218

82+50.00 EARTH
```

```
            Excavation       59        106        106   1.00                13628
  13628
                Fill         25         62         62   1.00   -27652       41280
  41280

83+00.00 EARTH
            Excavation       47         98         98   1.00                13726
  13726
                Fill         43         63         63   1.00   -27617       41343
  41343

83+50.00 EARTH
            Excavation       48         88         88   1.00                13814
  13814
                Fill         60         95         95   1.00   -27624       41438
  41438

84+00.00 EARTH
            Excavation       48         89         89   1.00                13903
  13903
                Fill         49        101        101   1.00   -27636       41539
  41539

84+50.00 EARTH
            Excavation       45         86         86   1.00                13989
  13989
                Fill         60        101        101   1.00   -27651       41640
  41640

85+00.00 EARTH
            Excavation       54         92         92   1.00                14081
  14081
                Fill         46         98         98   1.00   -27657       41738
  41738

85+50.00 EARTH
            Excavation       41         88         88   1.00                14169
  14169
                Fill        110        144        144   1.00   -27713       41882
  41882

86+00.00 EARTH
            Excavation       49         83         83   1.00                14252
  14252
                Fill         91        186        186   1.00   -27816       42068
  42068

86+50.00 EARTH
            Excavation       45         87         87   1.00                14339
  14339
                Fill         50        131        131   1.00   -27860       42199
  42199

87+00.00 EARTH
            Excavation       38         77         77   1.00                14416
  14416
                Fill         53         95         95   1.00   -27878       42294
  42294

87+50.00 EARTH
            Excavation       46         78         78   1.00                14494
  14494
                Fill         49         94         94   1.00   -27894       42388
```

```
  42388

88+00.00 EARTH
             Excavation       32         72         72   1.00                14566
  14566
                 Fill         61        102        102   1.00   -27924       42490
  42490

88+50.00 EARTH
             Excavation       23         51         51   1.00                14617
  14617
                 Fill        136        182        182   1.00   -28055       42672
  42672

89+00.00 EARTH
             Excavation       14         34         34   1.00                14651
  14651
                 Fill        133        249        249   1.00   -28270       42921
  42921

89+50.00 EARTH
             Excavation       20         31         31   1.00                14682
  14682
                 Fill        115        230        230   1.00   -28469       43151
  43151

90+00.00 EARTH
             Excavation       12         30         30   1.00                14712
  14712
                 Fill        152        247        247   1.00   -28686       43398
  43398

90+50.00 EARTH
             Excavation       15         25         25   1.00                14737
  14737
                 Fill        131        262        262   1.00   -28923       43660
  43660

91+00.00 EARTH
             Excavation        7         20         20   1.00                14757
  14757
                 Fill        123        235        235   1.00   -29138       43895
  43895

91+50.00 EARTH
             Excavation        6         12         12   1.00                14769
  14769
                 Fill        101        207        207   1.00   -29333       44102
  44102

92+00.00 EARTH
             Excavation        5         10         10   1.00                14779
  14779
                 Fill        103        189        189   1.00   -29512       44291
  44291

92+50.00 EARTH
             Excavation        8         12         12   1.00                14791
  14791
                 Fill         96        184        184   1.00   -29684       44475
  44475

93+00.00 EARTH
```

```
            Excavation        7         14         14   1.00                14805
  14805
                Fill       85        168        168   1.00   -29838       44643
  44643

93+50.00 EARTH
            Excavation       10         16         16   1.00                14821
  14821
                Fill       73        146        146   1.00   -29968       44789
  44789

94+00.00 EARTH
            Excavation       12         20         20   1.00                14841
  14841
                Fill       73        135        135   1.00   -30083       44924
  44924

94+50.00 EARTH
            Excavation       14         24         24   1.00                14865
  14865
                Fill       82        144        144   1.00   -30203       45068
  45068

95+00.00 EARTH
            Excavation       17         29         29   1.00                14894
  14894
                Fill       56        128        128   1.00   -30302       45196
  45196

95+50.00 EARTH
            Excavation       24         38         38   1.00                14932
  14932
                Fill       59        106        106   1.00   -30370       45302
  45302

96+00.00 EARTH
            Excavation       31         51         51   1.00                14983
  14983
                Fill       52        103        103   1.00   -30422       45405
  45405

96+50.00 EARTH
            Excavation       35         61         61   1.00                15044
  15044
                Fill       54         98         98   1.00   -30459       45503
  45503

97+00.00 EARTH
            Excavation       39         69         69   1.00                15113
  15113
                Fill       66        111        111   1.00   -30501       45614
  45614

97+50.00 EARTH
            Excavation       53         85         85   1.00                15198
  15198
                Fill        0         61         61   1.00   -30477       45675
  45675

98+00.00 EARTH
            Excavation       59        104        104   1.00                15302
  15302
                Fill        0          0          0   1.00   -30373       45675
```

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  45675

 98+50.00 EARTH
              Excavation       58        108        108   1.00                15410
  15410
                  Fill         31         29         29   1.00   -30294       45704
  45704

 99+00.00 EARTH
              Excavation       60        109        109   1.00                15519
  15519
                  Fill        118        138        138   1.00   -30323       45842
  45842

 99+50.00 EARTH
              Excavation       56        107        107   1.00                15626
  15626
                  Fill        160        257        257   1.00   -30473       46099
  46099

100+00.00 EARTH
              Excavation       56        104        104   1.00                15730
  15730
                  Fill        278        406        406   1.00   -30775       46505
  46505

100+50.00 EARTH
              Excavation       60        107        107   1.00                15837
  15837
                  Fill        384        613        613   1.00   -31281       47118
  47118

101+00.00 EARTH
              Excavation       61        112        112   1.00                15949
  15949
                  Fill        406        731        731   1.00   -31900       47849
  47849

101+50.00 EARTH
              Excavation       53        106        106   1.00                16055
  16055
                  Fill        262        619        619   1.00   -32413       48468
  48468

102+00.00 EARTH
              Excavation       58        103        103   1.00                16158
  16158
                  Fill         70        307        307   1.00   -32617       48775
  48775

102+50.00 EARTH
              Excavation       56        106        106   1.00                16264
  16264
                  Fill         17         81         81   1.00   -32592       48856
  48856

103+00.00 EARTH
              Excavation       60        107        107   1.00                16371
  16371
                  Fill         21         35         35   1.00   -32520       48891
  48891

103+50.00 EARTH
```

```
                Excavation        62         113         113   1.00                16484
   16484
                    Fill          32          49          49   1.00   -32456       48940
   48940

104+00.00 EARTH
                Excavation        62         115         115   1.00                16599
   16599
                    Fill          27          55          55   1.00   -32396       48995
   48995

104+50.00 EARTH
                Excavation        56         109         109   1.00                16708
   16708
                    Fill          23          46          46   1.00   -32333       49041
   49041

105+00.00 EARTH
                Excavation        51          99          99   1.00                16807
   16807
                    Fill          49          67          67   1.00   -32301       49108
   49108

105+50.00 EARTH
                Excavation        49          93          93   1.00                16900
   16900
                    Fill          92         131         131   1.00   -32339       49239
   49239

106+00.00 EARTH
                Excavation        44          86          86   1.00                16986
   16986
                    Fill         173         245         245   1.00   -32498       49484
   49484

106+50.00 EARTH
                Excavation        39          77          77   1.00                17063
   17063
                    Fill         204         349         349   1.00   -32770       49833
   49833

107+00.00 EARTH
                Excavation        41          74          74   1.00                17137
   17137
                    Fill         218         391         391   1.00   -33087       50224
   50224

107+50.00 EARTH
                Excavation        43          78          78   1.00                17215
   17215
                    Fill         240         424         424   1.00   -33433       50648
   50648

108+00.00 EARTH
                Excavation        40          77          77   1.00                17292
   17292
                    Fill         243         447         447   1.00   -33803       51095
   51095

108+50.00 EARTH
                Excavation        42          76          76   1.00                17368
   17368
                    Fill         282         486         486   1.00   -34213       51581
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   51581

109+00.00 EARTH
              Excavation       44         80         80   1.00                17448
   17448
                  Fill        257        499        499   1.00   -34632       52080
   52080

109+50.00 EARTH
              Excavation       50         87         87   1.00                17535
   17535
                  Fill        237        457        457   1.00   -35002       52537
   52537

110+00.00 EARTH
              Excavation       54         96         96   1.00                17631
   17631
                  Fill        140        349        349   1.00   -35255       52886
   52886

110+50.00 EARTH
              Excavation       62        107        107   1.00                17738
   17738
                  Fill         64        189        189   1.00   -35337       53075
   53075

111+00.00 EARTH
              Excavation       66        119        119   1.00                17857
   17857
                  Fill          0         59         59   1.00   -35277       53134
   53134

111+50.00 EARTH
              Excavation       65        121        121   1.00                17978
   17978
                  Fill          0          0          0   1.00   -35156       53134
   53134

112+00.00 EARTH
              Excavation       67        122        122   1.00                18100
   18100
                  Fill          0          0          0   1.00   -35034       53134
   53134

112+50.00 EARTH
              Excavation       82        138        138   1.00                18238
   18238
                  Fill         65         60         60   1.00   -34956       53194
   53194

113+00.00 EARTH
              Excavation       85        155        155   1.00                18393
   18393
                  Fill         74        129        129   1.00   -34930       53323
   53323

113+50.00 EARTH
              Excavation       75        148        148   1.00                18541
   18541
                  Fill        144        202        202   1.00   -34984       53525
   53525

114+00.00 EARTH
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                Excavation        70         134         134   1.00                18675
   18675
                    Fill          93         219         219   1.00   -35069       53744
   53744

114+50.00 EARTH
                Excavation        77         136         136   1.00                18811
   18811
                    Fill         103         181         181   1.00   -35114       53925
   53925

115+00.00 EARTH
                Excavation        77         143         143   1.00                18954
   18954
                    Fill          95         183         183   1.00   -35154       54108
   54108

115+50.00 EARTH
                Excavation        88         153         153   1.00                19107
   19107
                    Fill          81         163         163   1.00   -35164       54271
   54271

116+00.00 EARTH
                Excavation       119         192         192   1.00                19299
   19299
                    Fill          21          94          94   1.00   -35066       54365
   54365

116+50.00 EARTH
                Excavation       119         220         220   1.00                19519
   19519
                    Fill          14          32          32   1.00   -34878       54397
   54397

117+00.00 EARTH
                Excavation       127         228         228   1.00                19747
   19747
                    Fill          10          22          22   1.00   -34672       54419
   54419

117+50.00 EARTH
                Excavation       109         219         219   1.00                19966
   19966
                    Fill          20          28          28   1.00   -34481       54447
   54447

118+00.00 EARTH
                Excavation       116         208         208   1.00                20174
   20174
                    Fill           7          25          25   1.00   -34298       54472
   54472

118+50.00 EARTH
                Excavation       102         202         202   1.00                20376
   20376
                    Fill          17          22          22   1.00   -34118       54494
   54494

119+00.00 EARTH
                Excavation       123         208         208   1.00                20584
   20584
                    Fill          68          79          79   1.00   -33989       54573
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   54573

119+50.00 EARTH
              Excavation       96        203        203   1.00                20787
   20787
                  Fill         29         90         90   1.00   -33876       54663
   54663

120+00.00 EARTH
              Excavation      105        186        186   1.00                20973
   20973
                  Fill         13         39         39   1.00   -33729       54702
   54702

120+50.00 EARTH
              Excavation      109        198        198   1.00                21171
   21171
                  Fill         18         29         29   1.00   -33560       54731
   54731

121+00.00 EARTH
              Excavation      110        203        203   1.00                21374
   21374
                  Fill         16         31         31   1.00   -33388       54762
   54762

121+50.00 EARTH
              Excavation      105        199        199   1.00                21573
   21573
                  Fill         16         30         30   1.00   -33219       54792
   54792

122+00.00 EARTH
              Excavation      100        190        190   1.00                21763
   21763
                  Fill         23         36         36   1.00   -33065       54828
   54828

122+50.00 EARTH
              Excavation       85        171        171   1.00                21934
   21934
                  Fill         40         58         58   1.00   -32952       54886
   54886

123+00.00 EARTH
              Excavation       78        151        151   1.00                22085
   22085
                  Fill         66         98         98   1.00   -32899       54984
   54984

123+50.00 EARTH
              Excavation      103        168        168   1.00                22253
   22253
                  Fill         37         95         95   1.00   -32826       55079
   55079

124+00.00 EARTH
              Excavation      114        201        201   1.00                22454
   22454
                  Fill         55         85         85   1.00   -32710       55164
   55164

124+50.00 EARTH
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                Excavation      112         209         209   1.00                22663
   22663
                    Fill         84         129         129   1.00   -32630       55293
   55293

125+00.00 EARTH
                Excavation      113         208         208   1.00                22871
   22871
                    Fill         98         169         169   1.00   -32591       55462
   55462

125+50.00 EARTH
                Excavation      117         213         213   1.00                23084
   23084
                    Fill         90         174         174   1.00   -32552       55636
   55636

126+00.00 EARTH
                Excavation      121         220         220   1.00                23304
   23304
                    Fill         83         160         160   1.00   -32492       55796
   55796

126+50.00 EARTH
                Excavation      118         221         221   1.00                23525
   23525
                    Fill         88         158         158   1.00   -32429       55954
   55954

127+00.00 EARTH
                Excavation      125         225         225   1.00                23750
   23750
                    Fill         74         150         150   1.00   -32354       56104
   56104

127+50.00 EARTH
                Excavation      128         234         234   1.00                23984
   23984
                    Fill         66         130         130   1.00   -32250       56234
   56234

128+00.00 EARTH
                Excavation      124         233         233   1.00                24217
   24217
                    Fill        101         155         155   1.00   -32172       56389
   56389

128+50.00 EARTH
                Excavation      126         231         231   1.00                24448
   24448
                    Fill        114         199         199   1.00   -32140       56588
   56588

129+00.00 EARTH
                Excavation      121         229         229   1.00                24677
   24677
                    Fill        144         239         239   1.00   -32150       56827
   56827

129+50.00 EARTH
                Excavation      121         224         224   1.00                24901
   24901
                    Fill         64         193         193   1.00   -32119       57020
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   57020

130+00.00 EARTH
              Excavation      116        219        219   1.00                25120
   25120
                   Fill        11         69         69   1.00   -31969       57089
   57089

130+50.00 EARTH
              Excavation      101        201        201   1.00                25321
   25321
                   Fill       126        127        127   1.00   -31895       57216
   57216

131+00.00 EARTH
              Excavation       95        181        181   1.00                25502
   25502
                   Fill       139        245        245   1.00   -31959       57461
   57461

131+50.00 EARTH
              Excavation       93        174        174   1.00                25676
   25676
                   Fill        97        219        219   1.00   -32004       57680
   57680

132+00.00 EARTH
              Excavation      113        191        191   1.00                25867
   25867
                   Fill         6         95         95   1.00   -31908       57775
   57775

132+50.00 EARTH
              Excavation      119        215        215   1.00                26082
   26082
                   Fill         1          6          6   1.00   -31699       57781
   57781

133+00.00 EARTH
              Excavation       71        176        176   1.00                26258
   26258
                   Fill        74         69         69   1.00   -31592       57850
   57850

133+50.00 EARTH
              Excavation       62        123        123   1.00                26381
   26381
                   Fill        82        144        144   1.00   -31613       57994
   57994

134+00.00 EARTH
              Excavation       68        120        120   1.00                26501
   26501
                   Fill        63        134        134   1.00   -31627       58128
   58128

134+50.00 EARTH
              Excavation       77        134        134   1.00                26635
   26635
                   Fill         0         58         58   1.00   -31551       58186
   58186

135+00.00 EARTH
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                Excavation       88        153        153   1.00                26788
   26788
                    Fill          0          0          0   1.00   -31398       58186
   58186

 135+50.00 EARTH
                Excavation       82        157        157   1.00                26945
   26945
                    Fill          0          0          0   1.00   -31241       58186
   58186
XS-NOPROP No proposed xs elements at station 136+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 136+00.00.

 136+50.00 EARTH
                Excavation       71        283        283   1.00                27228
   27228
                    Fill         60        111        111   1.00   -31069       58297
   58297

 137+00.00 EARTH
                Excavation       72        132        132   1.00                27360
   27360
                    Fill         57        108        108   1.00   -31045       58405
   58405

 137+50.00 EARTH
                Excavation       86        146        146   1.00                27506
   27506
                    Fill         25         76         76   1.00   -30975       58481
   58481

 138+00.00 EARTH
                Excavation       92        165        165   1.00                27671
   27671
                    Fill         29         50         50   1.00   -30860       58531
   58531
XS-NOPROP No proposed xs elements at station 138+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 138+50.00.

 139+00.00 EARTH
                Excavation       53        269        269   1.00                27940
   27940
                    Fill        127        289        289   1.00   -30880       58820
   58820

 139+50.00 EARTH
                Excavation       60        105        105   1.00                28045
   28045
                    Fill        111        220        220   1.00   -30995       59040
   59040

 140+00.00 EARTH
                Excavation       56        107        107   1.00                28152
   28152
                    Fill         40        140        140   1.00   -31028       59180
   59180

 140+50.00 EARTH
                Excavation       57        105        105   1.00                28257
   28257
                    Fill         13         49         49   1.00   -30972       59229
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   59229

141+00.00 EARTH
              Excavation       50         99         99   1.00                28356
   28356
                  Fill         35         44         44   1.00   -30917       59273
   59273

141+50.00 EARTH
              Excavation       49         92         92   1.00                28448
   28448
                  Fill         50         79         79   1.00   -30904       59352
   59352

142+00.00 EARTH
              Excavation       32         75         75   1.00                28523
   28523
                  Fill         89        129        129   1.00   -30958       59481
   59481

142+50.00 EARTH
              Excavation       32         59         59   1.00                28582
   28582
                  Fill         95        170        170   1.00   -31069       59651
   59651

143+00.00 EARTH
              Excavation       35         62         62   1.00                28644
   28644
                  Fill         78        160        160   1.00   -31167       59811
   59811

143+50.00 EARTH
              Excavation       39         69         69   1.00                28713
   28713
                  Fill         25         95         95   1.00   -31193       59906
   59906

144+00.00 EARTH
              Excavation       66         97         97   1.00                28810
   28810
                  Fill          1         24         24   1.00   -31120       59930
   59930

144+50.00 EARTH
              Excavation       48        106        106   1.00                28916
   28916
                  Fill         20         19         19   1.00   -31033       59949
   59949

145+00.00 EARTH
              Excavation       54         94         94   1.00                29010
   29010
                  Fill         56         70         70   1.00   -31009       60019
   60019

145+50.00 EARTH
              Excavation       65        110        110   1.00                29120
   29120
                  Fill         36         85         85   1.00   -30984       60104
   60104

146+00.00 EARTH
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                Excavation      115         167         167   1.00                29287
   29287
                    Fill          5          38          38   1.00   -30855       60142
   60142

146+50.00 EARTH
                Excavation       92         192         192   1.00                29479
   29479
                    Fill         19          22          22   1.00   -30685       60164
   60164

147+00.00 EARTH
                Excavation      100         178         178   1.00                29657
   29657
                    Fill          2          19          19   1.00   -30526       60183
   60183

147+50.00 EARTH
                Excavation       84         170         170   1.00                29827
   29827
                    Fill          8           9           9   1.00   -30365       60192
   60192

148+00.00 EARTH
                Excavation      110         180         180   1.00                30007
   30007
                    Fill         27          32          32   1.00   -30217       60224
   60224

148+50.00 EARTH
                Excavation      109         203         203   1.00                30210
   30210
                    Fill         17          41          41   1.00   -30055       60265
   60265

149+00.00 EARTH
                Excavation      111         204         204   1.00                30414
   30414
                    Fill         17          31          31   1.00   -29882       60296
   60296

149+50.00 EARTH
                Excavation      107         202         202   1.00                30616
   30616
                    Fill         17          31          31   1.00   -29711       60327
   60327

150+00.00 EARTH
                Excavation      105         196         196   1.00                30812
   30812
                    Fill         22          36          36   1.00   -29551       60363
   60363

150+50.00 EARTH
                Excavation      110         199         199   1.00                31011
   31011
                    Fill         18          37          37   1.00   -29389       60400
   60400

151+00.00 EARTH
                Excavation      118         211         211   1.00                31222
   31222
                    Fill         10          26          26   1.00   -29204       60426
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     60426

  151+50.00 EARTH
                Excavation      112        213        213   1.00                31435
     31435
                     Fill        18         26         26   1.00   -29017      60452
     60452

  152+00.00 EARTH
                Excavation      171        262        262   1.00                31697
     31697
                     Fill         0         17         17   1.00   -28772      60469
     60469
XS-NOPROP No proposed xs elements at station 152+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 152+50.00.

  153+00.00 EARTH
                Excavation       90        483        483   1.00                32180
     32180
                     Fill         0          0          0   1.00   -28289      60469
     60469
XS-NOPROP No proposed xs elements at station 153+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 153+50.00.
XS-NOPROP No proposed xs elements at station 153+51.31.
          Therefore, results of this run will not reflect
          cross-section data for station 153+51.31.
♀                G R A N D    S U M M A R Y    T O T A L S
               Material Name         Unadjusted Adjusted   Mult
                                     Volumes    Volumes    Factor
                                     (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ------
        EARTH
                           Excavation      32180      32180   1.00
                             Fill          60469      60469   1.00
♀                            S P L I T    S U M M A R Y    T O T A L S

                                     XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
             Material Name           Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                     Volume      Volume    Volume        Volume
  Factor
                                     (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
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        EARTH
                           Excavation      32180      32180             0
0   1.00
                             Fill          60469      60469             0
0   1.00
♀                B A L A N C E    P O I N T    S U M M A R Y
               Material Name             Cumulative            Incremental
Mult
                                     Unadjusted Adjusted   Unadjusted Adjusted
Factor
                                     Volumes    Volumes    Volumes    Volumes
                                     (cu. yd.)  (cu. yd.)  (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ---------- ----------
------
  Station = 45+05.91
```

```
EARTH
                    Excavation      4099      4099      4099      4099
1.00
                      Fill          4099      4099      4099      4099
1.00
```

```
Input  File: ewkprj.inp
Output File: earthmemorial.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = d:\Robertson SR65\MemorialXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = earth
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = earth
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Skip Areas
 1    34    34        from 43+41.19 R 1 to 45+84.31 R 1
 1    35    35
 1    36    36     Write Earthwork Shapes
 1    37    37         plot param
 1    38    38             lv = 60
 1    39    39             lvname = DESIGN - TYPICAL - Warning Text
 1    40    40             co = 1
 1    41    41             wt = 0
 1    42    42             lc = 0
 1    43    43             Stratify Shape Color
 1    44    44
 1    45    45     combine common exc + subgrade exc + subsoil exc
 1    46    46
 1    47    47
 1    48    48     Add Accumulated Adjusted Volume Column
 1    49    49
 1    50    50     Add Accumulated Unadjusted Volume Column
 1    51    51
 1    52    52     End Area Decimal Places = 0
 1    53    53
 1    54    54     write column base ascii file = d:\Robertson SR65\SR65Earth.txt
 1    55    55
 1    56    56     column 1 formula = abs( ["earth", Common Exc, End Area]  )
 1    57    57     column 1 number of decimal place = 0
 1    58    58     column 1 total length = 10
 1    59    59
 1    60    60     column 2 formula = abs( ["earth", Fill, End Area]  )
 1    61    61     column 2 number of decimal place = 0
```

```
 1    62    62     column 2 total length = 10
 1    63    63
 1    64    64
 1    65    65     Process Earthwork for Baseline = MEMORIAL
 1    66    66         job number = 3g0
 1    67    67
 1    68    68         beg sta = 10+00.00 R 1
 1    69    69         end sta = 25+93.38 R 1
 0     0    70 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = MEMORIAL
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------
XS-NOELEM No cross-section elements found at
          at station 10+50.00
XS-NOELEM No cross-section elements found at
          at station 11+00.00
XS-NOELEM No cross-section elements found at
          at station 11+50.00
XS-NOELEM No cross-section elements found at
          at station 12+00.00
XS-NOELEM No cross-section elements found at
          at station 12+50.00
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    3008.4582 and
                264.0000,    3008.5982
           does not connect with any other element at:
                260.5000,    3008.4582
            for the cross-section at station 13+00.00

   13+00.00 EARTH
                Excavation       18        100        100   1.00                 100
       100
                    Fill          0          0          0   1.00      100          0
         0
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    3509.2174 and
                264.0000,    3509.3574
           does not connect with any other element at:
                260.5000,    3509.2174
            for the cross-section at station 13+50.00

   13+50.00 EARTH
                Excavation       24         39         39   1.00                 139
       139
                    Fill          0          0          0   1.00      139          0
         0
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    4009.8094 and
                264.0000,    4009.9494
           does not connect with any other element at:
                260.5000,    4009.8094
            for the cross-section at station 14+00.00
```

```
   14+00.00 EARTH
                Excavation       30         49         49   1.00                 188
       188
                    Fill          0          0          0   1.00      188          0
         0
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    4509.2340 and
                264.0000,    4509.3740
           does not connect with any other element at:
                260.5000,    4509.2340
            for the cross-section at station 14+50.00

   14+50.00 EARTH
                Excavation       16         42         42   1.00                 230
       230
                    Fill          0          0          0   1.00      230          0
         0
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    5003.4913 and
                264.0000,    5003.6313
           does not connect with any other element at:
                260.5000,    5003.4913
            for the cross-section at station 15+00.00

   15+00.00 EARTH
                Excavation        8         22         22   1.00                 252
       252
                    Fill          0          0          0   1.00      252          0
         0
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    5500.5812 and
                264.0000,    5500.7212
           does not connect with any other element at:
                260.5000,    5500.5812
            for the cross-section at station 15+50.00

   15+50.00 EARTH
                Excavation        5         11         11   1.00                 263
       263
                    Fill          1          1          1   1.00      262          1
         1
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    6000.5039 and
                264.0000,    6000.6439
           does not connect with any other element at:
                260.5000,    6000.5039
            for the cross-section at station 16+00.00

   16+00.00 EARTH
                Excavation        1          5          5   1.00                 268
       268
                    Fill          7          8          8   1.00      259          9
         9
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    6501.3429 and
                264.0000,    6501.4829
           does not connect with any other element at:
                260.5000,    6501.3429
            for the cross-section at station 16+50.00

   16+50.00 EARTH
                Excavation       31         30         30   1.00                 298
       298
```

```
                    Fill          2          9          9   1.00      280         18
        18
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    7004.3059 and
                264.0000,    7004.4459
           does not connect with any other element at:
                260.5000,    7004.3059
            for the cross-section at station 17+00.00

   17+00.00 EARTH
                Excavation        1         29         29   1.00                 327
       327
                    Fill          1          3          3   1.00      306         21
        21
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    7505.5169 and
                264.0000,    7505.6569
           does not connect with any other element at:
                260.5000,    7505.5169
            for the cross-section at station 17+50.00

   17+50.00 EARTH
                Excavation        2          2          2   1.00                 329
       329
                    Fill          0          1          1   1.00      307         22
        22
XS-NOPROP No proposed xs elements at station 18+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 18+00.00.
XS-NOPROP No proposed xs elements at station 18+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 18+50.00.
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    9003.6373 and
                264.0000,    9003.7773
           does not connect with any other element at:
                260.5000,    9003.6373
            for the cross-section at station 19+00.00
XS-ONESIDE Proposed elements at station 19+00.00
           tie to the existing ground only at coordinate:
                257.5073,    9006.6055
           The proposed elements must connect to the existing
           ground at an even number of locations greater than two.
           Therefore, results of this run will not reflect
           cross-section data for station 19+00.00.
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,    9502.8400 and
                264.0000,    9502.9800
           does not connect with any other element at:
                260.5000,    9502.8400
            for the cross-section at station 19+50.00
XS-ONESIDE Proposed elements at station 19+50.00
           tie to the existing ground only at coordinate:
                258.5093,    9505.5577
           The proposed elements must connect to the existing
           ground at an even number of locations greater than two.
           Therefore, results of this run will not reflect
           cross-section data for station 19+50.00.
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,   10003.1056 and
                264.0000,   10003.2456
           does not connect with any other element at:
                260.5000,   10003.1056
```

```
            for the cross-section at station 20+00.00
XS-ONESIDE Proposed elements at station 20+00.00
           tie to the existing ground only at coordinate:
                259.3029,   10005.6249
           The proposed elements must connect to the existing
           ground at an even number of locations greater than two.
           Therefore, results of this run will not reflect
           cross-section data for station 20+00.00.
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,   10503.1841 and
                264.0000,   10503.3241
           does not connect with any other element at:
                260.5000,   10503.1841
            for the cross-section at station 20+50.00

   20+50.00 EARTH
                Excavation       89        507        507   1.00                 836
       836
                    Fill          0          0          0   1.00      814         22
        22
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,   11003.0718 and
                264.0000,   11003.2118
           does not connect with any other element at:
                260.5000,   11003.0718
            for the cross-section at station 21+00.00

   21+00.00 EARTH
                Excavation       45        125        125   1.00                 961
       961
                    Fill          0          0          0   1.00      939         22
        22
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,   11499.7686 and
                264.0000,   11499.9086
           does not connect with any other element at:
                260.5000,   11499.7686
            for the cross-section at station 21+50.00

   21+50.00 EARTH
                Excavation       53         91         91   1.00                1052
      1052
                    Fill          0          0          0   1.00     1030         22
        22
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,   11999.2746 and
                264.0000,   11999.4146
           does not connect with any other element at:
                260.5000,   11999.2746
            for the cross-section at station 22+00.00

   22+00.00 EARTH
                Excavation       50         95         95   1.00                1147
      1147
                    Fill          0          0          0   1.00     1125         22
        22
XS-W-DANGPROP Proposed finish grade element between points:
                260.5000,   12499.5935 and
                264.0000,   12499.7335
           does not connect with any other element at:
                260.5000,   12499.5935
            for the cross-section at station 22+50.00
```

```
   22+50.00 EARTH
                Excavation       57         99         99   1.00                1246
      1246
                    Fill          0          0          0   1.00     1224         22
        22
XS-W-DANGPROP Proposed finish grade element between points:
                354.4470,   13001.9278 and
                354.3216,   13001.9487
           does not connect with any other element at:
                354.4470,   13001.9278
            for the cross-section at station 23+00.00
XS-W-DANGPROP Proposed finish grade element between points:
                260.4999,   12999.8513 and
                263.9999,   12999.9913
           does not connect with any other element at:
                260.4999,   12999.8513
            for the cross-section at station 23+00.00

   23+00.00 EARTH
                Excavation       50         99         99   1.00                1345
      1345
                    Fill          0          0          0   1.00     1323         22
        22
XS-W-DANGPROP Proposed finish grade element between points:
                260.4997,   13501.1091 and
                263.9997,   13501.2491
           does not connect with any other element at:
                260.4997,   13501.1091
            for the cross-section at station 23+50.00

   23+50.00 EARTH
                Excavation       45         88         88   1.00                1433
      1433
                    Fill          1          1          1   1.00     1410         23
        23
XS-W-DANGPROP Proposed finish grade element between points:
                260.4995,   14004.3669 and
                263.9995,   14004.5069
           does not connect with any other element at:
                260.4995,   14004.3669
            for the cross-section at station 24+00.00
XS-W-DANGPROP Proposed finish grade element between points:
                354.3674,   14006.4286 and
                354.3251,   14006.4356
           does not connect with any other element at:
                354.3674,   14006.4286
            for the cross-section at station 24+00.00

   24+00.00 EARTH
                Excavation       12         52         52   1.00                1485
      1485
                    Fill          0          1          1   1.00     1461         24
        24
XS-NOELEM No cross-section elements found at
          at station 24+50.00
XS-NOELEM No cross-section elements found at
          at station 25+00.00
XS-NOELEM No cross-section elements found at
          at station 25+50.00
XS-NOELEM No cross-section elements found at
          at station 25+93.38
♀                G R A N D     S U M M A R Y     T O T A L S
               Material Name         Unadjusted Adjusted   Mult
```

	Volumes (cu. yd.)	Volumes (cu. yd.)	Factor
EARTH			
Excavation	1485	1485	1.00
Fill	24	24	1.00

```
Input  File: ewkprj.inp
Output File: EarthWalling.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson SR65\RBSR65WallingXSNew.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-6
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0,6
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\WallingEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
 1    60    60
```

```
 1    61    61
 1    62    62     Process Earthwork for Baseline = WALLNEW
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 9+91.36 R 1
 1    66    66         end sta = 13+50.00 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = WALLNEW
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------
XS-NOPROP No proposed xs elements at station 10+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 10+00.00.
XS-NOPROP No proposed xs elements at station 10+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 10+50.00.
XS-W-DANGPROP Proposed finish grade element between points:
                 88.0000,    1511.6888 and
                 86.5888,    1511.2184
            does not connect with any other element at:
                 88.0000,    1511.6888
            for the cross-section at station 11+00.00
XS-W-DANGPROP Proposed finish grade element between points:
                112.0000,    1512.4812 and
                113.0991,    1512.1148
            does not connect with any other element at:
                112.0000,    1512.4812
            for the cross-section at station 11+00.00

   11+00.00 EARTH
                Excavation       48         97         97   1.00                  97
        97
                     Fill         0          0          0   1.00       97         0
         0
XS-W-DANGPROP Proposed finish grade element between points:
                 88.0000,    2010.8908 and
                 84.2493,    2010.7408
            does not connect with any other element at:
                 88.0000,    2010.8908
            for the cross-section at station 11+50.00
XS-W-DANGPROP Proposed finish grade element between points:
                112.0000,    2011.8028 and
                115.7507,    2011.6828
            does not connect with any other element at:
                112.0000,    2011.8028
            for the cross-section at station 11+50.00

   11+50.00 EARTH
                Excavation      114        150        150   1.00                 247
       247
                     Fill         1          1          1   1.00      246         1
         1
XS-W-DANGPROP Proposed finish grade element between points:
```

```
                112.0000,    2512.9378 and
                119.5013,    2512.6377
           does not connect with any other element at:
                112.0000,    2512.9378
            for the cross-section at station 12+00.00
XS-W-DANGPROP Proposed finish grade element between points:
                 88.0000,    2512.2795 and
                 80.4987,    2511.9795
           does not connect with any other element at:
                 88.0000,    2512.2795
            for the cross-section at station 12+00.00

   12+00.00 EARTH
                Excavation       23        127        127   1.00                 374
       374
                    Fill          4          5          5   1.00      368          6
         6
XS-W-DANGPROP Proposed finish grade element between points:
                 88.0000,    3015.8018 and
                 78.0000,    3015.4018
           does not connect with any other element at:
                 88.0000,    3015.8018
            for the cross-section at station 12+50.00
XS-W-DANGPROP Proposed finish grade element between points:
                112.0000,    3016.0395 and
                120.4340,    3015.7021
           does not connect with any other element at:
                112.0000,    3016.0395
            for the cross-section at station 12+50.00

   12+50.00 EARTH
                Excavation       21         41         41   1.00                 415
       415
                    Fill          7         10         10   1.00      399         16
        16
XS-W-DANGPROP Proposed finish grade element between points:
                112.0000,    3507.2629 and
                122.0000,    3506.8629
           does not connect with any other element at:
                112.0000,    3507.2629
            for the cross-section at station 13+00.00
XS-W-DANGPROP Proposed finish grade element between points:
                 88.0000,    3507.2629 and
                 78.0000,    3506.8629
           does not connect with any other element at:
                 88.0000,    3507.2629
            for the cross-section at station 13+00.00

   13+00.00 EARTH
                Excavation       21         39         39   1.00                 454
       454
                    Fill         26         31         31   1.00      407         47
        47
XS-W-DANGPROP Proposed finish grade element between points:
                 88.0000,    4006.5159 and
                 78.0000,    4006.1159
           does not connect with any other element at:
                 88.0000,    4006.5159
            for the cross-section at station 13+20.00
XS-W-DANGPROP Proposed finish grade element between points:
                112.0000,    4006.5159 and
                122.0013,    4006.1159
           does not connect with any other element at:
```

```
            112.0000,    4006.5159
         for the cross-section at station 13+20.00

   13+20.00 EARTH
              Excavation       19         15         15   1.00                469
      469
                  Fill        169         72         72   1.00      350       119
      119
♀                G R A N D     S U M M A R Y     T O T A L S
             Material Name         Unadjusted Adjusted   Mult
                                   Volumes    Volumes    Factor
                                   (cu. yd.)  (cu. yd.)
       ---------------------------- ---------- ---------- ------
       EARTH
                          Excavation        469        469   1.00
                            Fill            119        119   1.00
♀                             S P L I T     S U M M A R Y     T O T A L S

                                   XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
            Material Name          Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                   Volume      Volume    Volume        Volume
  Factor
                                   (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

       ---------------------------- ---------- ---------- -------------
------------- ------
       EARTH
                          Excavation        469        469             0
0   1.00
                            Fill            119        119             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: EarthBatson.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson SR65\RBSR65BatsonXSNew.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-6
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\BatsonEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
 1    60    60
```

```
 1    61    61
 1    62    62     Process Earthwork for Baseline = BATSON
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 51+00.00 R 1
 1    66    66         end sta = 54+00.00 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = BATSON
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                              (sq. ft.)  (cu. yd.)  (cu. yd.)                  (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------
   51+00.00 EARTH
                Excavation       72          0          0   1.00                   0
         0
                     Fill         3          0          0   1.00        0          0
         0

   51+50.00 EARTH
                Excavation       89        149        149   1.00                 149
       149
                     Fill         2          5          5   1.00      144          5
         5

   52+00.00 EARTH
                Excavation        0         82         82   1.00                 231
       231
                     Fill         0          2          2   1.00      224          7
         7
XS-NOPROP No proposed xs elements at station 52+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 52+50.00.
XS-NOPROP No proposed xs elements at station 53+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 53+00.00.
XS-NOPROP No proposed xs elements at station 53+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 53+50.00.
XS-NOPROP No proposed xs elements at station 54+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 54+00.00.
♀                G R A N D     S U M M A R Y     T O T A L S
               Material Name         Unadjusted Adjusted   Mult
                                     Volumes    Volumes    Factor
                                     (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ------
        EARTH
                            Excavation        231        231   1.00
                              Fill              7          7   1.00
♀                             S P L I T     S U M M A R Y     T O T A L S

                                     XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
             Material Name           Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
```

```
                                   Volume      Volume    Volume        Volume
  Factor
                                   (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
------------- ------
        EARTH
                            Excavation        231        231             0
0   1.00
                              Fill              7          7             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: EarthSouthMain.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65SouthMainXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-6
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\SMainEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
```

```
 1    60    60
 1    61    61
 1    62    62     Process Earthwork for Baseline = S_MAIN
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 76+42.95 R 1
 1    66    66         end sta = 80+00.00 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = S_MAIN
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------
XS-NOPROP No proposed xs elements at station 77+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 77+00.00.

   77+50.00 EARTH
                Excavation       64        119        119   1.00                 119
       119
                     Fill       273        506        506   1.00     -387        506
       506

   78+00.00 EARTH
                Excavation       58        113        113   1.00                 232
       232
                     Fill       201        439        439   1.00     -713        945
       945

   78+50.00 EARTH
                Excavation       46         96         96   1.00                 328
       328
                     Fill       252        419        419   1.00    -1036       1364
      1364

   79+00.00 EARTH
                Excavation       30         70         70   1.00                 398
       398
                     Fill        99        325        325   1.00    -1291       1689
      1689

   79+50.00 EARTH
                Excavation       78        100        100   1.00                 498
       498
                     Fill        20        110        110   1.00    -1301       1799
      1799
♀                G R A N D     S U M M A R Y     T O T A L S
              Material Name         Unadjusted Adjusted   Mult
                                    Volumes    Volumes    Factor
                                    (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ------
        EARTH
                         Excavation        498        498   1.00
                           Fill           1799       1799   1.00
♀                          S P L I T     S U M M A R Y     T O T A L S
```

Quant	Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Adjusted Volume (cu. yd.)	Mult Factor
EARTH						
	Excavation	498	498	0	0	1.00
	Fill	1799	1799	0	0	1.00

```
Input  File: ewkprj.inp
Output File: EarthWWatson.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65WWatsonXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\WWatsonEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
```

```
 1    60    60
 1    61    61
 1    62    62     Process Earthwork for Baseline = WATSON_W
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 27+01.42 R 1
 1    66    66         end sta = 30+00.00 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = WATSON_W
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                              (sq. ft.)  (cu. yd.)  (cu. yd.)                  (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------

   27+50.00 EARTH
                Excavation      132        119        119   1.00                119
       119
                     Fill         0          0          0   1.00      119         0
         0

   28+00.00 EARTH
                Excavation      213        319        319   1.00                438
       438
                     Fill         0          0          0   1.00      438         0
         0

   28+50.00 EARTH
                Excavation      290        466        466   1.00                904
       904
                     Fill         0          0          0   1.00      904         0
         0

   29+00.00 EARTH
                Excavation      184        439        439   1.00               1343
      1343
                     Fill         0          0          0   1.00     1343         0
         0

   29+50.00 EARTH
                Excavation      124        285        285   1.00               1628
      1628
                     Fill        40         37         37   1.00     1591        37
        37
♀                G R A N D     S U M M A R Y     T O T A L S
              Material Name         Unadjusted Adjusted   Mult
                                    Volumes    Volumes    Factor
                                    (cu. yd.)  (cu. yd.)
        --------------------------- ---------- ---------- ------
        EARTH
                           Excavation       1628       1628   1.00
                             Fill             37         37   1.00
♀                            S P L I T     S U M M A R Y     T O T A L S

                                    XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
```

```
              Material Name          Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                     Volume      Volume    Volume        Volume
  Factor
                                     (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
------------- ------
        EARTH
                            Excavation       1628       1628             0
0   1.00
                              Fill             37         37             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: EarthEWatson.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65EWatsonXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\EWatsonEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
```

```
 1    60    60
 1    61    61
 1    62    62     Process Earthwork for Baseline = WATSON_E
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 30+00.00 R 1
 1    66    66         end sta = 33+56.34 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = WATSON_E
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
----------- -----------
   30+50.00 EARTH
                Excavation       89          0          0   1.00                   0
         0
                     Fill        38          0          0   1.00        0          0
         0

   31+00.00 EARTH
                Excavation      352        408        408   1.00                 408
       408
                     Fill         0         35         35   1.00      373         35
        35

   31+50.00 EARTH
                Excavation      278        583        583   1.00                 991
       991
                     Fill         0          0          0   1.00      956         35
        35

   32+00.00 EARTH
                Excavation        0        257        257   1.00                1248
      1248
                     Fill         0          0          0   1.00     1213         35
        35
XS-NOPROP No proposed xs elements at station 32+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 32+50.00.
♀                G R A N D     S U M M A R Y     T O T A L S
               Material Name         Unadjusted Adjusted   Mult
                                     Volumes    Volumes    Factor
                                     (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ------
        EARTH
                           Excavation       1248       1248   1.00
                             Fill             35         35   1.00
♀                            S P L I T     S U M M A R Y     T O T A L S

                                     XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
             Material Name           Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                     Volume      Volume    Volume        Volume
  Factor
```

```
                                   (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
------------- ------
        EARTH
                             Excavation       1248       1248             0
0   1.00
                               Fill             35         35             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: EarthHogan.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65HoganXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\HoganEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
```

```
 1    60    60
 1    61    61
 1    62    62     Process Earthwork for Baseline = HOGAN
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 70+00.00 R 1
 1    66    66         end sta = 74+10.00 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = HOGAN
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                  (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------
   70+50.00 EARTH
                Excavation       90          0          0   1.00                   0
         0
                     Fill        42          0          0   1.00        0          0
         0

   71+00.00 EARTH
                Excavation       73        151        151   1.00                 151
       151
                     Fill         0         39         39   1.00      112         39
        39

   71+50.00 EARTH
                Excavation       33         98         98   1.00                 249
       249
                     Fill         0          0          0   1.00      210         39
        39

   72+00.00 EARTH
                Excavation       35         63         63   1.00                 312
       312
                     Fill         0          0          0   1.00      273         39
        39

   72+50.00 EARTH
                Excavation        0         32         32   1.00                 344
       344
                     Fill         0          0          0   1.00      305         39
        39
XS-NOPROP No proposed xs elements at station 73+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 73+00.00.
XS-NOPROP No proposed xs elements at station 73+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 73+50.00.
♀                G R A N D    S U M M A R Y    T O T A L S
               Material Name         Unadjusted Adjusted   Mult
                                     Volumes    Volumes    Factor
                                     (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ------
        EARTH
                          Excavation        344        344   1.00
```

```
                                Fill              39          39   1.00
♀                                 S P L I T     S U M M A R Y     T O T A L S

                                        XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
              Material Name             Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                        Volume      Volume    Volume        Volume
  Factor
                                        (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
------------- ------
        EARTH
                              Excavation        344        344             0
0   1.00
                                Fill             39         39             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: earthNicklaus.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = d:\Robertson SR65\NicklausXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lv = 1
 1    29    29             lvname = SURVEY - GROUND - Top of Ground
 1    30    30             lc = 3
 1    31    31             wt = 2
 1    32    32             co = 0
 1    33    33
 1    34    34     Write Earthwork Shapes
 1    35    35         plot param
 1    36    36             lv = 60
 1    37    37             lvname = DESIGN - TYPICAL - Warning Text
 1    38    38             co = 1
 1    39    39             wt = 0
 1    40    40             lc = 0
 1    41    41             Stratify Shape Color
 1    42    42
 1    43    43     combine common exc + subgrade exc + subsoil exc
 1    44    44
 1    45    45
 1    46    46     Add Accumulated Adjusted Volume Column
 1    47    47
 1    48    48     Add Accumulated Unadjusted Volume Column
 1    49    49
 1    50    50     End Area Decimal Places = 0
 1    51    51
 1    52    52     write column base ascii file = d:\Robertson SR65\SR65Earth.txt
 1    53    53
 1    54    54     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    55    55     column 1 number of decimal place = 0
 1    56    56     column 1 total length = 10
 1    57    57
 1    58    58     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    59    59     column 2 number of decimal place = 0
 1    60    60     column 2 total length = 10
 1    61    61
```

```
 1    62    62
 1    63    63     Process Earthwork for Baseline = NICKLAUS
 1    64    64         job number = 3g0
 1    65    65
 1    66    66         beg sta = 20+00.00 R 1
 1    67    67         end sta = 21+50.00 R 1
 0     0    68 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = NICKLAUS
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------

   20+50.00 EARTH
                Excavation       61         57         57   1.00                  57
        57
                     Fill        50         46         46   1.00       11         46
        46

   21+00.00 EARTH
                Excavation       62        114        114   1.00                 171
       171
                     Fill         0         46         46   1.00       79         92
        92

   21+50.00 EARTH
                Excavation      101        151        151   1.00                 322
       322
                     Fill         0          0          0   1.00      230         92
        92
♀                G R A N D     S U M M A R Y     T O T A L S
               Material Name         Unadjusted Adjusted   Mult
                                     Volumes    Volumes    Factor
                                     (cu. yd.)  (cu. yd.)
        --------------------------- ---------- ---------- ------
        EARTH
                           Excavation        322        322   1.00
                             Fill             92         92   1.00
```

```
Input  File: ewkprj.inp
Output File: Earthw22ND.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65W22ndXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\W22ndEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
```

```
 1    60    60
 1    61    61
 1    62    62     Process Earthwork for Baseline = 22ND_W
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 36+87.81 R 1
 1    66    66         end sta = 40+00.00 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = 22ND_W
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
----------- -----------
XS-NOPROP No proposed xs elements at station 38+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 38+50.00.

   39+00.00 EARTH
                Excavation       50         93         93   1.00                   93
        93
                     Fill         0          0          0   1.00       93          0
         0

   39+50.00 EARTH
                Excavation      175        208        208   1.00                  301
       301
                     Fill        10          9          9   1.00      292          9
         9
♀                G R A N D     S U M M A R Y     T O T A L S
               Material Name         Unadjusted Adjusted   Mult
                                     Volumes    Volumes    Factor
                                     (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ------
        EARTH
                           Excavation        301        301   1.00
                             Fill              9          9   1.00
♀                            S P L I T     S U M M A R Y     T O T A L S

                                     XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
             Material Name           Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                     Volume      Volume    Volume        Volume
  Factor
                                     (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
------------- ------
        EARTH
                           Excavation        301        301             0
0   1.00
                             Fill              9          9             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: EarthE22nd.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65E22ndXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\E22ndEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
```

```
 1    60    60
 1    61    61
 1    62    62     Process Earthwork for Baseline = 22ND_E
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 40+50.00 R 1
 1    66    66         end sta = 42+50.00 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = 22ND_E
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
----------- -----------
   40+50.00 EARTH
                Excavation      120          0          0   1.00                   0
         0
                     Fill        44          0          0   1.00        0          0
         0

   41+00.00 EARTH
                Excavation      112        215        215   1.00                 215
       215
                     Fill         0         41         41   1.00      174         41
        41

   41+50.00 EARTH
                Excavation        0        104        104   1.00                 319
       319
                     Fill         0          0          0   1.00      278         41
        41

XS-NOPROP No proposed xs elements at station 42+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 42+50.00.
♀                G R A N D     S U M M A R Y     T O T A L S
               Material Name         Unadjusted Adjusted   Mult
                                     Volumes    Volumes    Factor
                                     (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ------
        EARTH
                           Excavation        319        319   1.00
                             Fill             41         41   1.00
♀                            S P L I T     S U M M A R Y     T O T A L S

                                     XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
             Material Name           Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                     Volume      Volume    Volume        Volume
  Factor
                                     (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
------------- ------
        EARTH
```

```
Excavation        319        319             0
0   1.00
  Fill             41         41             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: EarthRuth.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65RuthXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\RuthEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
```

```
 1    60    60
 1    61    61
 1    62    62     Process Earthwork for Baseline = RUTH
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 10+00.00 R 1
 1    66    66         end sta = 13+10.00 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = RUTH
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------
   10+50.00 EARTH
                Excavation        3          0          0   1.00                   0
         0
                     Fill        78          0          0   1.00        0          0
         0

   11+00.00 EARTH
                Excavation        0          3          3   1.00                   3
         3
                     Fill        67        134        134   1.00     -131        134
       134

   11+50.00 EARTH
                Excavation       22         20         20   1.00                  23
        23
                     Fill         5         67         67   1.00     -178        201
       201

   12+00.00 EARTH
                Excavation        0         20         20   1.00                  43
        43
                     Fill         0          5          5   1.00     -163        206
       206
XS-NOPROP No proposed xs elements at station 12+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 12+50.00.
♀                G R A N D    S U M M A R Y    T O T A L S
               Material Name         Unadjusted Adjusted   Mult
                                     Volumes    Volumes    Factor
                                     (cu. yd.)  (cu. yd.)
        --------------------------- ---------- ---------- ------
        EARTH
                           Excavation         43         43   1.00
                             Fill            206        206   1.00
♀                            S P L I T    S U M M A R Y    T O T A L S

                                     XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
             Material Name           Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                     Volume      Volume    Volume        Volume
  Factor
```

```
                                  (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
------------- ------
        EARTH
                            Excavation         43         43             0
0   1.00
                              Fill            206        206             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: EarthParkPl.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65ParkPlazaXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\ParkPlazaEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
```

```
 1    60    60
 1    61    61
 1    62    62     Process Earthwork for Baseline = PARK_PL
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 7+50.00 R 1
 1    66    66         end sta = 10+00.00 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = PARK_PL
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
----------- -----------
    7+50.00 EARTH
                Excavation        2          0          0   1.00                   0
         0
                     Fill      110          0          0   1.00        0          0
         0

    8+00.00 EARTH
                Excavation       32         31         31   1.00                  31
        31
                     Fill       30        130        130   1.00      -99        130
       130

    8+50.00 EARTH
                Excavation        0         30         30   1.00                  61
        61
                     Fill        0         28         28   1.00      -97        158
       158
XS-NOPROP No proposed xs elements at station 9+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 9+00.00.
XS-NOPROP No proposed xs elements at station 9+50.00.
          Therefore, results of this run will not reflect
          cross-section data for station 9+50.00.
XS-NOPROP No proposed xs elements at station 10+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 10+00.00.
♀                G R A N D    S U M M A R Y    T O T A L S
               Material Name         Unadjusted Adjusted   Mult
                                     Volumes    Volumes    Factor
                                     (cu. yd.)  (cu. yd.)
        --------------------------- ---------- ---------- ------
        EARTH
                           Excavation         61         61   1.00
                             Fill            158        158   1.00
♀                            S P L I T     S U M M A R Y     T O T A L S

                                     XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
             Material Name           Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                     Volume      Volume    Volume        Volume
  Factor
```

```
                                   (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
------------- ------
        EARTH
                             Excavation         61         61             0
0   1.00
                               Fill            158        158             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: EarthAnnex.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = C:\RobertsonCountySR65\Robertson
SR65\RBSR65AnnexXSections.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0-7
 1    19    19             wt = 0-7
 1    20    20             co = 0-255
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3
 1    30    30             wt = 2
 1    31    31             co = 0
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 347
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 1
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40             Stratify Shape Color
 1    41    41
 1    42    42     combine common exc + subgrade exc + subsoil exc
 1    43    43
 1    44    44
 1    45    45     Add Accumulated Adjusted Volume Column
 1    46    46
 1    47    47     Add Accumulated Unadjusted Volume Column
 1    48    48
 1    49    49     End Area Decimal Places = 0
 1    50    50
 1    51    51     write column base ascii file = C:\RobertsonCountySR65\Robertson
SR65\AnnexEarth.txt
 1    52    52
 1    53    53     column 1 formula = abs( ["EARTH", Common Exc, End Area]  )
 1    54    54     column 1 number of decimal place = 0
 1    55    55     column 1 total length = 10
 1    56    56
 1    57    57     column 2 formula = abs( ["EARTH", Fill, End Area]  )
 1    58    58     column 2 number of decimal place = 0
 1    59    59     column 2 total length = 10
```

```
 1    60    60
 1    61    61
 1    62    62     Process Earthwork for Baseline = ANNEX
 1    63    63         job number = 3G0
 1    64    64
 1    65    65         beg sta = 56+61.94 R 1
 1    66    66         end sta = 59+98.24 R 1
 0     0    67 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = ANNEX
COMPUTING EARTHWORKS FOR JOB = 3G0
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
     Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                   (cu.
yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
----------- -----------
XS-NOPROP No proposed xs elements at station 58+00.00.
          Therefore, results of this run will not reflect
          cross-section data for station 58+00.00.
XS-W-DANGPROP Proposed finish grade element between points:
                 88.0000,    1002.7891 and
                 99.7236,    1003.0236
            does not connect with any other element at:
                 88.0000,    1002.7891
             for the cross-section at station 58+50.00
XS-W-DANGPROP Proposed finish grade element between points:
                112.0000,    1002.7891 and
                100.0000,    1003.0291
            does not connect with any other element at:
                112.0000,    1002.7891
             for the cross-section at station 58+50.00

   58+50.00 EARTH
                Excavation        0          0          0   1.00                   0
         0
                     Fill         0          0          0   1.00        0          0
         0

   59+00.00 EARTH
                Excavation       82         76         76   1.00                  76
        76
                     Fill         0          0          0   1.00       76          0
         0

   59+50.00 EARTH
                Excavation      169        232        232   1.00                 308
       308
                     Fill         1          1          1   1.00      307          1
         1
♀                G R A N D     S U M M A R Y     T O T A L S
              Material Name         Unadjusted Adjusted   Mult
                                    Volumes    Volumes    Factor
                                    (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ------
        EARTH
                          Excavation        308        308   1.00
                            Fill              1          1   1.00
♀                           S P L I T     S U M M A R Y     T O T A L S
```

```
                                    XS Quant    XS Quant  Add/Sub Quant Add/Sub
Quant
             Material Name          Unadjusted  Adjusted  Unadjusted    Adjusted
  Mult
                                    Volume      Volume    Volume        Volume
  Factor
                                    (cu. yd.)   (cu. yd.) (cu. yd.)     (cu. yd.)

        ---------------------------- ---------- ---------- -------------
------------- ------
        EARTH
                          Excavation        308        308             0
0   1.00
                            Fill              1          1             0
0   1.00
♀                B A L A N C E    P O I N T    S U M M A R Y
              Material Name             Cumulative            Incremental
Mult
                                    Unadjusted Adjusted   Unadjusted Adjusted
Factor
                                    Volumes    Volumes    Volumes    Volumes
                                    (cu. yd.)  (cu. yd.)  (cu. yd.)  (cu. yd.)
        ---------------------------- ---------- ---------- ---------- ----------
------
  Station = 58+50.00
        EARTH
                          Excavation          0          0          0          0
1.00
                            Fill              0          0          0          0
1.00
```