```
Input  File: ewkprj.inp
Output File: EW-SR62.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:\Users\steve.lamm\Desktop\4823 SR 62
Knoxville\01\Dgn\CONSTRUCTION\XS-SR62-REV.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = Earth
 1    13    13         roadway exc mult factor = 0.850000
 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
 1    19    19             co = 1-2,6-8,161
 1    20    20
 1    21    21     Existing Ground Line
 1    22    22         soil type = Earth
 1    23    23         roadway exc mult factor = 0.850000
 1    24    24         subsoil exc mult factor = 1.000000
 1    25    25         fill mult factor = 1.000000
 1    26    26             type = line, line_string
 1    27    27             lvname = SURVEY - GROUND - Top of Ground
 1    28    28             lc = 3
 1    29    29             wt = 2
 1    30    30             co = 0,6
 1    31    31
 1    32    32     Skip Areas
 1    33    33        from 117+00.00 R 1 to 122+50.00 R 1
 1    34    34
 1    35    35     Ignore Areas
 1    36    36        from 117+00.00 R 1 to 122+50.00 R 1
 1    37    37
 1    38    38     Write Earthwork Shapes
 1    39    39         plot param
 1    40    40             lv = 347
 1    41    41             lvname = DESIGN - EARTHWORK - Shapes
 1    42    42             co = 2
 1    43    43             wt = 0
 1    44    44             lc = 0
 1    45    45             Stratify Shape Color
 1    46    46
 1    47    47     combine common exc + subgrade exc + subsoil exc
 1    48    48
 1    49    49
 1    50    50     Add Accumulated Adjusted Volume Column
 1    51    51
 1    52    52     Add Accumulated Unadjusted Volume Column
 1    53    53
 1    54    54     End Area Decimal Places = 0
 1    55    55
 1    56    56     Process Earthwork for Baseline = SR62
 1    57    57         job number = 162
 1    58    58
 1    59    59         beg sta = 102+50.00 R 1
 1    60    60         end sta = 147+00.00 R 1
```

```
 0     0    61 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = SR62
COMPUTING EARTHWORKS FOR JOB = 162
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.)
----------- ---------------- ---------- ---------- ---------- ------ --------
----------- -----------
  103+00.00 EARTH
                Excavation       33          0          0   0.85                   0
        0
                     Fill         0          0          0   1.00        0          0
        0

  103+50.00 EARTH
                Excavation      218        232        198   0.85                 232
      198
                     Fill         1          1          1   1.00      197          1
        1

  104+00.00 EARTH
                Excavation      335        512        435   0.85                 744
      633
                     Fill         0          1          1   1.00      631          2
        2

  104+50.00 EARTH
                Excavation      350        634        539   0.85                1378
     1172
                     Fill         2          2          2   1.00     1168          4
        4

  105+00.00 EARTH
                Excavation      329        629        534   0.85                2007
     1706
                     Fill         5          6          6   1.00     1696         10
       10

  105+50.00 EARTH
                Excavation      207        496        422   0.85                2503
     2128
                     Fill        14         18         18   1.00     2100         28
       28

  106+00.00 EARTH
                Excavation       42        231        196   0.85                2734
     2324
                     Fill        24         35         35   1.00     2261         63
       63

  106+50.00 EARTH
                Excavation       29         66         56   0.85                2800
     2380
                     Fill        34         54         54   1.00     2263        117
      117

  107+00.00 EARTH
```

	Excavation	37	61	52	0.85		2861	2432
	Fill	30	59	59	1.00	2256	176	176
107+50.00 EARTH								
	Excavation	34	66	56	0.85		2927	2488
	Fill	17	44	44	1.00	2268	220	220
108+00.00 EARTH								
	Excavation	94	119	101	0.85		3046	2589
	Fill	10	25	25	1.00	2344	245	245
108+50.00 EARTH								
	Excavation	138	215	183	0.85		3261	2772
	Fill	1	10	10	1.00	2517	255	255
109+00.00 EARTH								
	Excavation	134	252	214	0.85		3513	2986
	Fill	12	12	12	1.00	2719	267	267
109+50.00 EARTH								
	Excavation	89	206	176	0.85		3719	3162
	Fill	19	29	29	1.00	2866	296	296
110+00.00 EARTH								
	Excavation	170	240	204	0.85		3959	3366
	Fill	0	18	18	1.00	3052	314	314
110+50.00 EARTH								
	Excavation	129	277	235	0.85		4236	3601
	Fill	0	0	0	1.00	3287	314	314
111+00.00 EARTH								
	Excavation	88	201	171	0.85		4437	3772
	Fill	0	0	0	1.00	3458	314	314
111+50.00 EARTH								
	Excavation	30	109	93	0.85		4546	3865
	Fill	107	99	99	1.00	3452	413	413
112+00.00 EARTH								
	Excavation	27	53	45	0.85		4599	3910
	Fill	87	180	180	1.00	3317	593	

```
     593

  112+50.00 EARTH
                Excavation       43         65         55   0.85                4664
    3965
                     Fill       199        265        265   1.00     3107        858
     858

  113+00.00 EARTH
                Excavation       76        110         94   0.85                4774
    4059
                     Fill       101        278        278   1.00     2923       1136
    1136

  113+50.00 EARTH
                Excavation      123        184        157   0.85                4958
    4216
                     Fill        13        106        106   1.00     2974       1242
    1242

  114+00.00 EARTH
                Excavation       69        178        151   0.85                5136
    4367
                     Fill        71         78         78   1.00     3047       1320
    1320

  114+50.00 EARTH
                Excavation        0         64         54   0.85                5200
    4421
                     Fill       184        236        236   1.00     2865       1556
    1556

  115+00.00 EARTH
                Excavation        0          0          0   0.85                5200
    4421
                     Fill       535        666        666   1.00     2199       2222
    2222

  115+50.00 EARTH
                Excavation        0          0          0   0.85                5200
    4421
                     Fill      1018       1438       1438   1.00      761       3660
    3660

  116+00.00 EARTH
                Excavation        0          0          0   0.85                5200
    4421
                     Fill      1704       2520       2520   1.00    -1759       6180
    6180

  116+50.00 EARTH
                Excavation        0          0          0   0.85                5200
    4421
                     Fill      2624       4007       4007   1.00    -5766      10187
   10187

SKIP STATION RANGE = 117+00.00 to 122+50.00
  123+00.00 EARTH
                Excavation        0          0          0   0.85                5200
    4421
                     Fill      2091       8732       8732   1.00   -14498      18919
   18919
```

123+50.00	EARTH							
		Excavation	0	0	0	0.85		5200
4421								
		Fill	31	1965	1965	1.00	-16463	20884
20884								
124+00.00	EARTH							
		Excavation	0	0	0	0.85		5200
4421								
		Fill	1135	1080	1080	1.00	-17543	21964
21964								
124+50.00	EARTH							
		Excavation	10	9	8	0.85		5209
4429								
		Fill	992	1969	1969	1.00	-19504	23933
23933								
125+00.00	EARTH							
		Excavation	10	19	16	0.85		5228
4445								
		Fill	811	1669	1669	1.00	-21157	25602
25602								
125+50.00	EARTH							
		Excavation	21	29	24	0.85		5257
4469								
		Fill	726	1423	1423	1.00	-22556	27025
27025								
126+00.00	EARTH							
		Excavation	0	19	17	0.85		5276
4486								
		Fill	929	1532	1532	1.00	-24071	28557
28557								
126+50.00	EARTH							
		Excavation	0	0	0	0.85		5276
4486								
		Fill	1211	1981	1981	1.00	-26052	30538
30538								
127+00.00	EARTH							
		Excavation	0	0	0	0.85		5276
4486								
		Fill	618	1694	1694	1.00	-27746	32232
32232								
127+50.00	EARTH							
		Excavation	0	0	0	0.85		5276
4486								
		Fill	283	834	834	1.00	-28580	33066
33066								
128+00.00	EARTH							
		Excavation	534	494	420	0.85		5770
4906								
		Fill	128	381	381	1.00	-28541	33447
33447								
128+50.00	EARTH							
		Excavation	906	1333	1133	0.85		7103
6039								

		Fill	37	153	153	1.00	-27561	33600
33600								
129+00.00	EARTH							
		Excavation	1178	1930	1640	0.85		9033
7679								
		Fill	5	39	39	1.00	-25960	33639
33639								
129+50.00	EARTH							
		Excavation	1127	2134	1814	0.85		11167
9493								
		Fill	3	7	7	1.00	-24153	33646
33646								
130+00.00	EARTH							
		Excavation	726	1716	1458	0.85		12883
10951								
		Fill	17	19	19	1.00	-22714	33665
33665								
130+50.00	EARTH							
		Excavation	386	1030	875	0.85		13913
11826								
		Fill	11	26	26	1.00	-21865	33691
33691								
131+00.00	EARTH							
		Excavation	0	357	304	0.85		14270
12130								
		Fill	577	544	544	1.00	-22105	34235
34235								
131+50.00	EARTH							
		Excavation	0	0	0	0.85		14270
12130								
		Fill	723	1204	1204	1.00	-23309	35439
35439								
132+00.00	EARTH							
		Excavation	0	0	0	0.85		14270
12130								
		Fill	665	1285	1285	1.00	-24594	36724
36724								
132+50.00	EARTH							
		Excavation	24	22	19	0.85		14292
12149								
		Fill	497	1076	1076	1.00	-25651	37800
37800								
133+00.00	EARTH							
		Excavation	191	199	169	0.85		14491
12318								
		Fill	424	853	853	1.00	-26335	38653
38653								
133+50.00	EARTH							
		Excavation	332	484	412	0.85		14975
12730								
		Fill	366	731	731	1.00	-26654	39384
39384								

134+00.00	EARTH							
		Excavation	315	599	509	0.85		15574
13239								
		Fill	312	628	628	1.00	-26773	40012
40012								
134+50.00	EARTH							
		Excavation	44	332	283	0.85		15906
13522								
		Fill	219	492	492	1.00	-26982	40504
40504								
135+00.00	EARTH							
		Excavation	78	113	96	0.85		16019
13618								
		Fill	103	298	298	1.00	-27184	40802
40802								
135+50.00	EARTH							
		Excavation	83	149	127	0.85		16168
13745								
		Fill	18	112	112	1.00	-27169	40914
40914								
136+00.00	EARTH							
		Excavation	90	160	136	0.85		16328
13881								
		Fill	18	33	33	1.00	-27066	40947
40947								
136+50.00	EARTH							
		Excavation	160	231	197	0.85		16559
14078								
		Fill	18	33	33	1.00	-26902	40980
40980								
137+00.00	EARTH							
		Excavation	238	369	313	0.85		16928
14391								
		Fill	22	37	37	1.00	-26626	41017
41017								
137+50.00	EARTH							
		Excavation	281	481	408	0.85		17409
14799								
		Fill	23	42	42	1.00	-26260	41059
41059								
138+00.00	EARTH							
		Excavation	308	545	464	0.85		17954
15263								
		Fill	20	40	40	1.00	-25836	41099
41099								
138+50.00	EARTH							
		Excavation	354	613	521	0.85		18567
15784								
		Fill	21	38	38	1.00	-25353	41137
41137								
139+00.00	EARTH							
		Excavation	299	605	514	0.85		19172
16298								

		Fill	102	114	114	1.00	-24953	41251
41251								
139+50.00	EARTH							
		Excavation	125	393	334	0.85		19565
16632								
		Fill	267	342	342	1.00	-24961	41593
41593								
140+00.00	EARTH							
		Excavation	789	846	719	0.85		20411
17351								
		Fill	352	573	573	1.00	-24815	42166
42166								
140+50.00	EARTH							
		Excavation	816	1486	1263	0.85		21897
18614								
		Fill	278	583	583	1.00	-24135	42749
42749								
141+00.00	EARTH							
		Excavation	584	1296	1102	0.85		23193
19716								
		Fill	177	421	421	1.00	-23454	43170
43170								
141+50.00	EARTH							
		Excavation	391	903	767	0.85		24096
20483								
		Fill	95	252	252	1.00	-22939	43422
43422								
142+00.00	EARTH							
		Excavation	366	701	596	0.85		24797
21079								
		Fill	56	140	140	1.00	-22483	43562
43562								
142+50.00	EARTH							
		Excavation	370	681	579	0.85		25478
21658								
		Fill	14	65	65	1.00	-21969	43627
43627								
143+00.00	EARTH							
		Excavation	152	483	411	0.85		25961
22069								
		Fill	24	35	35	1.00	-21593	43662
43662								
143+50.00	EARTH							
		Excavation	104	237	201	0.85		26198
22270								
		Fill	10	31	31	1.00	-21423	43693
43693								
144+00.00	EARTH							
		Excavation	141	227	193	0.85		26425
22463								
		Fill	9	18	18	1.00	-21248	43711
43711								

```
144+50.00 EARTH
              Excavation      156        275        234   0.85                26700
   22697
                  Fill          6         14         14   1.00   -21028       43725
   43725

145+00.00 EARTH
              Excavation      176        307        261   0.85                27007
   22958
                  Fill          5         10         10   1.00   -20777       43735
   43735

145+50.00 EARTH
              Excavation       91        247        210   0.85                27254
   23168
                  Fill          1          6          6   1.00   -20573       43741
   43741

146+00.00 EARTH
              Excavation       94        171        146   0.85                27425
   23314
                  Fill          0          1          1   1.00   -20428       43742
   43742

146+50.00 EARTH
              Excavation      103        182        155   0.85                27607
   23469
                  Fill          0          0          0   1.00   -20273       43742
   43742

147+00.00 EARTH
              Excavation       99        187        159   0.85                27794
   23628
                  Fill          0          0          0   1.00   -20114       43742
   43742
♀                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      27794      23628   0.85
                           Fill          43742      43742   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      27794      23628             0
0   0.85
                           Fill          43742      43742             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
```

EW-SR62

		Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Factor
Station = 115+65.10						
EARTH						
	Excavation	5201	4421	5201	4421	0.85
	Fill	4421	4421	4421	4421	1.00

```
Input  File: ewkprj.inp
Output File: KEITHREV8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork            KEITHREV 8-16-2012
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-KEITHREV.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
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,161
 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 = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = 6,ByLevel
 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 = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     combine common exc + subgrade exc + subsoil exc
 1    42    42
 1    43    43     End Area Decimal Places = 0
 1    44    44
 1    45    45     write column base ascii file =  KEITHREV8-2012.txt
 1    46    46
 1    47    47     column 1 formula = abs( ["earth", Fill, End Area]  )
 1    48    48     column 1 number of decimal place = 0
 1    49    49     column 1 total length = 10
 1    50    50
 1    51    51     column 2 formula = abs( ["earth", Common Exc, End Area]  )
 1    52    52     column 2 number of decimal place = 0
 1    53    53     column 2 total length = 10
 1    54    54
 1    55    55
 1    56    56     Process Earthwork for Baseline = KEITHREV
 1    57    57         job number = 162
 1    58    58
 1    59    59         beg sta = 64+00.00 R 1
 1    60    60         end sta = 69+00.00 R 1
 0     0    61 END_OF_FILE
```

EW-KeithAve

COMPUTING EARTHWORKS FOR BASELINE = KEITHREV
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
64+50.00	EARTH					
	Excavation	715	0	0	1.00	
	Fill	0	0	0	1.00	0
65+00.00	EARTH					
	Excavation	588	1206	1206	1.00	
	Fill	0	0	0	1.00	1206
65+50.00	EARTH					
	Excavation	539	1043	1043	1.00	
	Fill	0	0	0	1.00	2249
66+00.00	EARTH					
	Excavation	451	917	917	1.00	
	Fill	0	0	0	1.00	3166
66+50.00	EARTH					
	Excavation	319	713	713	1.00	
	Fill	0	0	0	1.00	3879
67+00.00	EARTH					
	Excavation	179	462	462	1.00	
	Fill	0	0	0	1.00	4341
67+50.00	EARTH					
	Excavation	94	253	253	1.00	
	Fill	0	0	0	1.00	4594
68+00.00	EARTH					
	Excavation	67	149	149	1.00	
	Fill	0	0	0	1.00	4743
68+50.00	EARTH					
	Excavation	59	116	116	1.00	
	Fill	0	0	0	1.00	4859

♀ G R A N D S U M M A R Y T O T A L S

Material Name		Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
EARTH				
	Excavation	4859	4859	1.00
	Fill	0	0	1.00

♀ S P L I T S U M M A R Y T O T A L S

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

```
------------- ------
        EARTH
                          Excavation       4859       4859              0
0   1.00
                            Fill              0          0              0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: KW-EW.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 = N:\4823 SR 62
Knoxville\01\Dgn\CONSTRUCTION\XS-KEITHWEST2.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             co = 1-2,6,8,161
 1    19    19
 1    20    20     Existing Ground Line
 1    21    21         soil type = Earth
 1    22    22         roadway exc mult factor = 1.000000
 1    23    23         subsoil exc mult factor = 1.000000
 1    24    24         fill mult factor = 1.000000
 1    25    25             type = line, line_string
 1    26    26             lvname = SURVEY - GROUND - Top of Ground
 1    27    27
 1    28    28     Write Earthwork Shapes
 1    29    29         plot param
 1    30    30             lv = 347
 1    31    31             lvname = DESIGN - EARTHWORK - Shapes
 1    32    32             co = 11
 1    33    33             wt = 0
 1    34    34             lc = 0
 1    35    35
 1    36    36     combine common exc + subgrade exc + subsoil exc
 1    37    37
 1    38    38
 1    39    39     Add Accumulated Adjusted Volume Column
 1    40    40
 1    41    41     Add Accumulated Unadjusted Volume Column
 1    42    42
 1    43    43     End Area Decimal Places = 0
 1    44    44
 1    45    45     Process Earthwork for Baseline = KEITHWEST
 1    46    46         job number = 162
 1    47    47
 1    48    48         beg sta = 306+00.00 R 1
 1    49    49         end sta = 318+50.00 R 1
 0     0    50 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = KEITHWEST
COMPUTING EARTHWORKS FOR JOB = 162
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.)
308+00.00	EARTH								
		Excavation	62	0	0	1.00		0	0
		Fill	2	0	0	1.00	0	0	0
308+50.00	EARTH								
		Excavation	77	129	129	1.00		129	129
		Fill	0	2	2	1.00	127	2	2
309+00.00	EARTH								
		Excavation	76	142	142	1.00		271	271
		Fill	26	24	24	1.00	245	26	26
309+50.00	EARTH								
		Excavation	120	181	181	1.00		452	452
		Fill	14	37	37	1.00	389	63	63
310+00.00	EARTH								
		Excavation	301	390	390	1.00		842	842
		Fill	45	55	55	1.00	724	118	118
310+50.00	EARTH								
		Excavation	266	525	525	1.00		1367	1367
		Fill	46	84	84	1.00	1165	202	202
311+00.00	EARTH								
		Excavation	686	881	881	1.00		2248	2248
		Fill	0	43	43	1.00	2003	245	245
311+50.00	EARTH								
		Excavation	696	1280	1280	1.00		3528	3528
		Fill	0	0	0	1.00	3283	245	245
312+00.00	EARTH								
		Excavation	662	1257	1257	1.00		4785	4785
		Fill	50	46	46	1.00	4494	291	291
312+50.00	EARTH								
		Excavation	262	856	856	1.00		5641	5641
		Fill	158	193	193	1.00	5157	484	484

```
313+00.00 EARTH
              Excavation        0        243        243   1.00                5884
    5884
                  Fill        424        539        539   1.00     4861       1023
    1023

313+50.00 EARTH
              Excavation        0          0          0   1.00                5884
    5884
                  Fill        731       1069       1069   1.00     3792       2092
    2092

314+00.00 EARTH
              Excavation        0          0          0   1.00                5884
    5884
                  Fill       1139       1731       1731   1.00     2061       3823
    3823

317+00.00 EARTH
              Excavation        0          0          0   1.00                5884
    5884
                  Fill       1778      16206      16206   1.00   -14145      20029
   20029

317+50.00 EARTH
              Excavation        0          0          0   1.00                5884
    5884
                  Fill        690       2285       2285   1.00   -16430      22314
   22314

318+00.00 EARTH
              Excavation        0          0          0   1.00                5884
    5884
                  Fill        173        799        799   1.00   -17229      23113
   23113
♀                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       5884       5884   1.00
                         Fill          23113      23113   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       5884       5884             0
0   1.00
                         Fill          23113      23113             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
```

EW-KeithAveWest

	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Factor
Station = 314+38.15					
EARTH					
Excavation	5884	5884	5884	5884	1.00
Fill	5884	5884	5884	5884	1.00

```
Input  File: ewkprj.inp
Output File: MARYEW8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork             MARYLAND 8-15-2012
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-MARYLAND.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
 1    19    19     Existing Ground Line
 1    20    20         soil type = earth
 1    21    21         roadway exc mult factor = 1.000000
 1    22    22         subsoil exc mult factor = 1.000000
 1    23    23         fill mult factor = 1.000000
 1    24    24             type = line, line_string
 1    25    25             lvname = SURVEY - GROUND - Top of Ground
 1    26    26             lc = 3
 1    27    27             wt = 2
 1    28    28             co = 0,6
 1    29    29
 1    30    30     Write Earthwork Shapes
 1    31    31         plot param
 1    32    32             lv = 2
 1    33    33             lvname = DESIGN - EARTHWORK - Shapes
 1    34    34             co = 11
 1    35    35             wt = 0
 1    36    36             lc = 0
 1    37    37
 1    38    38     combine common exc + subgrade exc + subsoil exc
 1    39    39
 1    40    40     End Area Decimal Places = 0
 1    41    41
 1    42    42     write column base ascii file =  MARY091210.txt
 1    43    43
 1    44    44     column 1 formula = abs( ["earth", Fill, End Area]  )
 1    45    45     column 1 number of decimal place = 0
 1    46    46     column 1 total length = 10
 1    47    47
 1    48    48     column 2 formula = abs( ["earth", Common Exc, End Area]  )
 1    49    49     column 2 number of decimal place = 0
 1    50    50     column 2 total length = 10
 1    51    51
 1    52    52
 1    53    53     Process Earthwork for Baseline = MARYLAND
 1    54    54         job number = 162
 1    55    55
 1    56    56         beg sta = 30+50.00 R 1
 1    57    57         end sta = 35+00.00 R 1
 0     0    58 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = MARYLAND
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
```

BEGINNING EARTHWORKS COMPUTATION
♀

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
30+50.00	EARTH					
	Excavation	289	0	0	1.00	
	Fill	0	0	0	1.00	0
31+00.00	EARTH					
	Excavation	141	398	398	1.00	
	Fill	0	0	0	1.00	398
31+50.00	EARTH					
	Excavation	135	255	255	1.00	
	Fill	0	0	0	1.00	653
32+00.00	EARTH					
	Excavation	68	188	188	1.00	
	Fill	4	3	3	1.00	838
32+10.00	EARTH					
	Excavation	61	24	24	1.00	
	Fill	5	2	2	1.00	860

♀ G R A N D S U M M A R Y T O T A L S

Material Name		Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
EARTH				
	Excavation	865	865	1.00
	Fill	5	5	1.00

♀ S P L I T S U M M A R Y T O T A L S

Material Name		XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Quant Adjusted Volume (cu. yd.)	Mult Factor
EARTH						
	Excavation	865	865	0	0	1.00
	Fill	5	5	0	0	1.00

```
Input  File: ewkprj.inp
Output File: MYND8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork        MYNDERSE 8-15-2012
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-MYNDERSE.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
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,161
 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 = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = 6,ByLevel
 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 = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     combine common exc + subgrade exc + subsoil exc
 1    42    42
 1    43    43     End Area Decimal Places = 0
 1    44    44
 1    45    45     write column base ascii file = MYND091210.txt
 1    46    46
 1    47    47     column 1 formula = abs( ["earth", Fill, End Area]  )
 1    48    48     column 1 number of decimal place = 0
 1    49    49     column 1 total length = 10
 1    50    50
 1    51    51     column 2 formula = abs( ["earth", Common Exc, End Area]  )
 1    52    52     column 2 number of decimal place = 0
 1    53    53     column 2 total length = 10
 1    54    54
 1    55    55
 1    56    56     Process Earthwork for Baseline = MYNDERSE
 1    57    57         job number = 162
 1    58    58
 1    59    59         beg sta = 10+50.00 R 1
 1    60    60         end sta = 18+50.00 R 1
 0     0    61 END_OF_FILE
```

COMPUTING EARTHWORKS FOR BASELINE = MYNDERSE
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
10+50.00	EARTH					
	Excavation	82	0	0	1.00	
	Fill	35	0	0	1.00	0
11+00.00	EARTH					
	Excavation	32	105	105	1.00	
	Fill	101	126	126	1.00	-21
11+50.00	EARTH					
	Excavation	79	102	102	1.00	
	Fill	59	148	148	1.00	-67
12+00.00	EARTH					
	Excavation	23	94	94	1.00	
	Fill	59	109	109	1.00	-82
12+50.00	EARTH					
	Excavation	83	99	99	1.00	
	Fill	41	92	92	1.00	-75
13+00.00	EARTH					
	Excavation	46	120	120	1.00	
	Fill	28	64	64	1.00	-19
13+50.00	EARTH					
	Excavation	30	70	70	1.00	
	Fill	13	39	39	1.00	12
14+00.00	EARTH					
	Excavation	36	61	61	1.00	
	Fill	2	15	15	1.00	58
14+50.00	EARTH					
	Excavation	66	95	95	1.00	
	Fill	1	3	3	1.00	150
15+00.00	EARTH					
	Excavation	45	102	102	1.00	
	Fill	1	1	1	1.00	251
15+50.00	EARTH					
	Excavation	29	68	68	1.00	
	Fill	5	5	5	1.00	314
16+00.00	EARTH					
	Excavation	42	65	65	1.00	
	Fill	2	7	7	1.00	372
16+50.00	EARTH					
	Excavation	38	74	74	1.00	
	Fill	2	4	4	1.00	442
17+00.00	EARTH					
	Excavation	0	35	35	1.00	

EW-Mynderse

Fill	4	6	6	1.00	471

17+50.00 EARTH

Excavation	0	0	0	1.00	
Fill	4	7	7	1.00	464

18+00.00 EARTH

Excavation	0	0	0	1.00	
Fill	6	9	9	1.00	455

♀ G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
EARTH			
Excavation	1090	1090	1.00
Fill	635	635	1.00

♀ S P L I T S U M M A R Y T O T A L S

Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Quant Adjusted Volume (cu. yd.)	Mult Factor
EARTH					
Excavation	1090	1090	0	0	1.00
Fill	635	635	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 Unadjusted Volumes (cu. yd.)	Cumulative Adjusted Volumes (cu. yd.)	Incremental Unadjusted Volumes (cu. yd.)	Incremental Adjusted Volumes (cu. yd.)	Mult Factor
Station = 13+30.65					
EARTH					
Excavation	563	563	563	563	1.00
Fill	563	563	563	563	1.00

```
Input  File: ewkprj.inp
Output File: OLDKEITH8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork                OLD KEITH 8-16-2012
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-TRUMAN3.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
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,161
 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 = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = 6,ByLevel
 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 = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     combine common exc + subgrade exc + subsoil exc
 1    42    42
 1    43    43     End Area Decimal Places = 0
 1    44    44
 1    45    45     write column base ascii file =  OLDKEITH8-2012.txt
 1    46    46
 1    47    47     column 1 formula = abs( ["earth", Common Exc, End Area]  )
 1    48    48     column 1 number of decimal place = 0
 1    49    49     column 1 total length = 10
 1    50    50
 1    51    51     column 2 formula = abs( ["earth", Fill, End Area]  )
 1    52    52     column 2 number of decimal place = 0
 1    53    53     column 2 total length = 10
 1    54    54
 1    55    55
 1    56    56     Process Earthwork for Baseline = TRUMAN3
 1    57    57         job number = 162
 1    58    58
 1    59    59         beg sta = 0+50.00 R 1
 1    60    60         end sta = 2+50.00 R 1
 0     0    61 END_OF_FILE
```

EW-OldKeithAve

COMPUTING EARTHWORKS FOR BASELINE = TRUMAN3
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
0+50.00	EARTH					
	Excavation	0	0	0	1.00	
	Fill	132	0	0	1.00	0
1+00.00	EARTH					
	Excavation	11	10	10	1.00	
	Fill	6	127	127	1.00	-117
1+50.00	EARTH					
	Excavation	67	73	73	1.00	
	Fill	0	5	5	1.00	-49
2+00.00	EARTH					
	Excavation	316	355	355	1.00	
	Fill	0	0	0	1.00	306
2+50.00	EARTH					
	Excavation	49	337	337	1.00	
	Fill	0	0	0	1.00	643

♀ G R A N D S U M M A R Y T O T A L S

Material Name		Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
EARTH				
	Excavation	775	775	1.00
	Fill	132	132	1.00

♀ S P L I T S U M M A R Y T O T A L S

Material Name		XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Quant Adjusted Volume (cu. yd.)	Mult Factor
EARTH						
	Excavation	775	775	0	0	1.00
	Fill	132	132	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 Unadjusted Volumes (cu. yd.)	Cumulative Adjusted Volumes (cu. yd.)	Incremental Unadjusted Volumes (cu. yd.)	Incremental Adjusted Volumes (cu. yd.)	Mult Factor

Station = 1+56.90

EW-OldKeithAve

EARTH	Excavation	132	132	132	132
1.00	Fill	132	132	132	132
1.00					

```
Input  File: ewkprj.inp
Output File: STERCHI8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork               STERCHI 8-16-2012
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-STRECHIT4.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
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,161
 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 = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = 6,ByLevel
 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 = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     combine common exc + subgrade exc + subsoil exc
 1    42    42
 1    43    43     End Area Decimal Places = 0
 1    44    44
 1    45    45     write column base ascii file =  STERCHI8-2012.txt
 1    46    46
 1    47    47     column 1 formula = abs( ["earth", Common Exc, End Area]  )
 1    48    48     column 1 number of decimal place = 0
 1    49    49     column 1 total length = 10
 1    50    50
 1    51    51     column 2 formula = abs( ["earth", Fill, End Area]  )
 1    52    52     column 2 number of decimal place = 0
 1    53    53     column 2 total length = 10
 1    54    54
 1    55    55
 1    56    56     Process Earthwork for Baseline = STERCHIT4
 1    57    57         job number = 162
 1    58    58
 1    59    59         beg sta = 90+00.00 R 1
 1    60    60         end sta = 95+00.00 R 1
 0     0    61 END_OF_FILE
```

COMPUTING EARTHWORKS FOR BASELINE = STERCHIT4
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
90+50.00	EARTH					
	Excavation	1176	0	0	1.00	
	Fill	0	0	0	1.00	0
91+00.00	EARTH					
	Excavation	610	1654	1654	1.00	
	Fill	0	0	0	1.00	1654
91+50.00	EARTH					
	Excavation	263	808	808	1.00	
	Fill	81	75	75	1.00	2387
92+00.00	EARTH					
	Excavation	124	358	358	1.00	
	Fill	118	184	184	1.00	2561
92+50.00	EARTH					
	Excavation	48	159	159	1.00	
	Fill	198	293	293	1.00	2427
93+00.00	EARTH					
	Excavation	59	99	99	1.00	
	Fill	124	298	298	1.00	2228
93+50.00	EARTH					
	Excavation	0	54	54	1.00	
	Fill	193	294	294	1.00	1988
94+00.00	EARTH					
	Excavation	9	8	8	1.00	
	Fill	61	235	235	1.00	1761
94+50.00	EARTH					
	Excavation	36	42	42	1.00	
	Fill	3	59	59	1.00	1744

♀ G R A N D S U M M A R Y T O T A L S

Material Name		Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
EARTH				
	Excavation	3182	3182	1.00
	Fill	1438	1438	1.00

♀ S P L I T S U M M A R Y T O T A L S

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

```
------------- ------
        EARTH
                          Excavation       3182       3182             0
0   1.00
                            Fill           1438       1438             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: TENNEW8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork            TENNESSEE 8-2012
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-TENN.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
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,161
 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 = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = 0,6,ByLevel
 1    32    32
 1    33    33     Write Earthwork Shapes
 1    34    34         plot param
 1    35    35             lv = 2
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     combine common exc + subgrade exc + subsoil exc
 1    42    42
 1    43    43     End Area Decimal Places = 0
 1    44    44
 1    45    45     write column base ascii file =  TENN091210.txt
 1    46    46
 1    47    47     column 1 formula = abs( ["earth", Fill, End Area]  )
 1    48    48     column 1 number of decimal place = 0
 1    49    49     column 1 total length = 10
 1    50    50
 1    51    51     column 2 formula = abs( ["earth", Common Exc, End Area]  )
 1    52    52     column 2 number of decimal place = 0
 1    53    53     column 2 total length = 10
 1    54    54
 1    55    55
 1    56    56     Process Earthwork for Baseline = TENN
 1    57    57         job number = 162
 1    58    58
 1    59    59         beg sta = 71+00.00 R 1
 1    60    60         end sta = 79+00.00 R 1
 0     0    61 END_OF_FILE
```

EW-Tennessee

COMPUTING EARTHWORKS FOR BASELINE = TENN
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
71+00.00	EARTH					
	Excavation	26	0	0	1.00	
	Fill	2	0	0	1.00	0
71+50.00	EARTH					
	Excavation	28	51	51	1.00	
	Fill	1	2	2	1.00	49
72+00.00	EARTH					
	Excavation	29	54	54	1.00	
	Fill	0	1	1	1.00	102
72+50.00	EARTH					
	Excavation	32	57	57	1.00	
	Fill	0	0	0	1.00	159
73+00.00	EARTH					
	Excavation	31	58	58	1.00	
	Fill	0	0	0	1.00	217
73+50.00	EARTH					
	Excavation	30	56	56	1.00	
	Fill	0	0	0	1.00	273
74+00.00	EARTH					
	Excavation	29	54	54	1.00	
	Fill	0	0	0	1.00	327
74+50.00	EARTH					
	Excavation	30	54	54	1.00	
	Fill	0	0	0	1.00	381
75+00.00	EARTH					
	Excavation	30	55	55	1.00	
	Fill	0	0	0	1.00	436
75+50.00	EARTH					
	Excavation	29	54	54	1.00	
	Fill	0	0	0	1.00	490
76+00.00	EARTH					
	Excavation	38	62	62	1.00	
	Fill	0	0	0	1.00	552
76+50.00	EARTH					
	Excavation	64	95	95	1.00	
	Fill	0	0	0	1.00	647
77+00.00	EARTH					
	Excavation	32	89	89	1.00	
	Fill	4	4	4	1.00	732
77+50.00	EARTH					
	Excavation	2	31	31	1.00	

```
                Fill         56         55         55   1.00      708

78+00.00 EARTH
            Excavation        1          2          2   1.00
                Fill        153        194        194   1.00      516

78+50.00 EARTH
            Excavation       52         49         49   1.00
                Fill        103        237        237   1.00      328
♀              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        821        821   1.00
                         Fill            493        493   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        821        821             0
0   1.00
                         Fill            493        493             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: VERM8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000       VERMONT 8-15-2012
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = n:\4823 sr 62 knoxville\01\dgn\XS-VERMONT.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
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,161
 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             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 = 30
 1    36    36             lvname = DESIGN - EARTHWORK - Shapes
 1    37    37             co = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     combine common exc + subgrade exc + subsoil exc
 1    42    42
 1    43    43     End Area Decimal Places = 0
 1    44    44
 1    45    45     write column base ascii file =  VER091210.txt
 1    46    46
 1    47    47     column 1 formula = abs( ["earth", Fill, End Area]  )
 1    48    48     column 1 number of decimal place = 0
 1    49    49     column 1 total length = 10
 1    50    50
 1    51    51     column 2 formula = abs( ["earth", Common Exc, End Area]  )
 1    52    52     column 2 number of decimal place = 0
 1    53    53     column 2 total length = 10
 1    54    54
 1    55    55
 1    56    56     Process Earthwork for Baseline = VERMONT
 1    57    57         job number = 162
 1    58    58
 1    59    59         beg sta = 40+50.00 R 1
 1    60    60         end sta = 42+85.00 R 1
 0     0    61 END_OF_FILE
```

EW-Vermont

COMPUTING EARTHWORKS FOR BASELINE = VERMONT
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
40+50.00	EARTH					
	Excavation	37	0	0	1.00	
	Fill	56	0	0	1.00	0
41+00.00	EARTH					
	Excavation	101	127	127	1.00	
	Fill	0	52	52	1.00	75
41+50.00	EARTH					
	Excavation	122	206	206	1.00	
	Fill	0	0	0	1.00	281
42+00.00	EARTH					
	Excavation	95	200	200	1.00	
	Fill	0	0	0	1.00	481
42+50.00	EARTH					
	Excavation	54	138	138	1.00	
	Fill	0	0	0	1.00	619
42+85.00	EARTH					
	Excavation	49	67	67	1.00	
	Fill	0	0	0	1.00	686

♀ G R A N D S U M M A R Y T O T A L S

Material Name		Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
EARTH				
	Excavation	738	738	1.00
	Fill	52	52	1.00

♀ S P L I T S U M M A R Y T O T A L S

Material Name		XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Quant Adjusted Volume (cu. yd.)	Mult Factor
EARTH						
	Excavation	738	738	0	0	1.00
	Fill	52	52	0	0	1.00

```
Input  File: ewkprj.inp
Output File: WEST8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork          WESTERN3 8-15-2012
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-WESTERNT3.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
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,161
 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 = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     combine common exc + subgrade exc + subsoil exc
 1    42    42
 1    43    43     End Area Decimal Places = 0
 1    44    44
 1    45    45     write column base ascii file =  WEST091210
 1    46    46
 1    47    47     column 1 formula = abs( ["earth", Fill, End Area]  )
 1    48    48     column 1 number of decimal place = 0
 1    49    49     column 1 total length = 10
 1    50    50
 1    51    51     column 2 formula = abs( ["earth", Common Exc, End Area]  )
 1    52    52     column 2 number of decimal place = 0
 1    53    53     column 2 total length = 10
 1    54    54
 1    55    55
 1    56    56     Process Earthwork for Baseline = WESTERNT3
 1    57    57         job number = 162
 1    58    58
 1    59    59         beg sta = 83+00.00 R 1
 1    60    60         end sta = 89+88.04 R 1
 0     0    61 END_OF_FILE
```

COMPUTING EARTHWORKS FOR BASELINE = WESTERNT3
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
83+00.00	EARTH					
	Excavation	55	0	0	1.00	
	Fill	0	0	0	1.00	0
83+50.00	EARTH					
	Excavation	46	94	94	1.00	
	Fill	3	3	3	1.00	91
84+00.00	EARTH					
	Excavation	52	91	91	1.00	
	Fill	2	5	5	1.00	177
84+50.00	EARTH					
	Excavation	50	95	95	1.00	
	Fill	1	3	3	1.00	269
85+00.00	EARTH					
	Excavation	46	89	89	1.00	
	Fill	8	8	8	1.00	350
85+50.00	EARTH					
	Excavation	40	80	80	1.00	
	Fill	8	15	15	1.00	415
86+00.00	EARTH					
	Excavation	14	51	51	1.00	
	Fill	18	24	24	1.00	442
86+50.00	EARTH					
	Excavation	0	13	13	1.00	
	Fill	66	78	78	1.00	377
87+00.00	EARTH					
	Excavation	0	0	0	1.00	
	Fill	165	213	213	1.00	164
87+50.00	EARTH					
	Excavation	0	0	0	1.00	
	Fill	411	533	533	1.00	-369
88+00.00	EARTH					
	Excavation	0	0	0	1.00	
	Fill	520	862	862	1.00	-1231
88+50.00	EARTH					
	Excavation	0	0	0	1.00	
	Fill	651	1084	1084	1.00	-2315
89+00.00	EARTH					
	Excavation	0	0	0	1.00	
	Fill	862	1401	1401	1.00	-3716
89+50.00	EARTH					
	Excavation	0	0	0	1.00	

EW-Westerm

Fill 365 1137 1137 1.00 -4853

♀ G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
EARTH			
Excavation	513	513	1.00
Fill	5366	5366	1.00

♀ S P L I T S U M M A R Y T O T A L S

Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Quant Adjusted Volume (cu. yd.)	Mult Factor
EARTH					
Excavation	513	513	0	0	1.00
Fill	5366	5366	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 Unadjusted Volumes (cu. yd.)	Cumulative Adjusted Volumes (cu. yd.)	Incremental Unadjusted Volumes (cu. yd.)	Incremental Adjusted Volumes (cu. yd.)	Mult Factor
Station = 87+15.38					
EARTH					
Excavation	513	513	513	513	1.00
Fill	513	513	513	513	1.00

```
Input  File: ewkprj.inp
Output File: HAWKEW.log
 1     1     1
 1     2     2
 1     3     3 Earthwork           HAWK 8-15-2012
 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 = n:\4823 SR 62 Knoxville\01\Dgn\XS-HAWK.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
 1    19    19     Existing Ground Line
 1    20    20         soil type = earth
 1    21    21         roadway exc mult factor = 1.000000
 1    22    22         subsoil exc mult factor = 1.000000
 1    23    23         fill mult factor = 1.000000
 1    24    24             type = line, line_string
 1    25    25             lv = 1
 1    26    26             lc = 3
 1    27    27             wt = 2
 1    28    28             co = 0,6
 1    29    29
 1    30    30     End Area Decimal Places = 0
 1    31    31
 1    32    32     Process Earthwork for Baseline = HAWK
 1    33    33         job number = 162
 1    34    34
 1    35    35         beg sta = 2+50.00 R 1
 1    36    36         end sta = 5+00.00 R 1
 0     0    37 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = HAWK
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
    2+50.00 EARTH
                Common Exc       27          0          0   1.00
              Subgrade Exc        0          0          0   1.00
               Subsoil Exc        0          0          0   1.00
                    Fill          3          0          0   1.00        0

    3+00.00 EARTH
                Common Exc        1         26         26   1.00
              Subgrade Exc        0          0          0   1.00
               Subsoil Exc        0          0          0   1.00
                    Fill         96         92         92   1.00      -66

    3+50.00 EARTH
                Common Exc        0          1          1   1.00
              Subgrade Exc        0          0          0   1.00
```

Subsoil Exc	0	0	0	1.00	
Fill	187	262	262	1.00	-327

4+00.00 EARTH

Common Exc	1	1	1	1.00	
Subgrade Exc	0	0	0	1.00	
Subsoil Exc	0	0	0	1.00	
Fill	124	288	288	1.00	-614

4+50.00 EARTH

Common Exc	23	22	22	1.00	
Subgrade Exc	0	0	0	1.00	
Subsoil Exc	0	0	0	1.00	
Fill	58	169	169	1.00	-761

5+00.00 EARTH

Common Exc	107	120	120	1.00	
Subgrade Exc	0	0	0	1.00	
Subsoil Exc	0	0	0	1.00	
Fill	1	55	55	1.00	-696

♀ G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
EARTH			
Common Exc	170	170	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	866	866	1.00

♀ S P L I T S U M M A R Y T O T A L S

Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Quant Adjusted Volume (cu. yd.)	Mult Factor
EARTH					
Common Exc	170	170	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	866	866	0	0	1.00

```
Input  File: ewkprj.inp
Output File: A153-8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork   ALLEY RT MISSISSIPPI
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-A153.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
 1    18    18     Existing Ground Line
 1    19    19         soil type = earth
 1    20    20         roadway exc mult factor = 1.000000
 1    21    21         subsoil exc mult factor = 1.000000
 1    22    22         fill mult factor = 1.000000
 1    23    23             type = line, line_string
 1    24    24             lvname = SURVEY - GROUND - Top of Ground
 1    25    25             lc = 3
 1    26    26             wt = 2
 1    27    27             co = 0,6
 1    28    28
 1    29    29     Write Earthwork Shapes
 1    30    30         plot param
 1    31    31             lv = 0
 1    32    32             lvname = Default
 1    33    33             co = 11
 1    34    34             wt = 0
 1    35    35             lc = 0
 1    36    36
 1    37    37     combine common exc + subgrade exc + subsoil exc
 1    38    38
 1    39    39     End Area Decimal Places = 0
 1    40    40
 1    41    41     Process Earthwork for Baseline = A153
 1    42    42         job number = 162
 1    43    43
 1    44    44         beg sta = 1+50.00 R 1
 1    45    45         end sta = 1+80.00 R 1
 0     0    46 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = A153
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
    1+50.00 EARTH
                Excavation       44          0          0   1.00
                    Fill          0          0          0   1.00        0

    1+60.00 EARTH
                Excavation       36         15         15   1.00
```

```
                Fill          0          0          0   1.00       15

    1+80.00 EARTH
            Excavation       29         24         24   1.00
                Fill          0          0          0   1.00       39
♀                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         39         39   1.00
                        Fill              0          0   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         39         39             0
0   1.00
                        Fill              0          0             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: A12590-8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork       ALLEY LT SR62 STA. 125+90
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-A12590.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
 1    19    19             wt = 4
 1    20    20             co = 2,6,8,18
 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             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 = 0
 1    36    36             lvname = Default
 1    37    37             co = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     End Area Decimal Places = 0
 1    42    42
 1    43    43     Process Earthwork for Baseline = A12590
 1    44    44         job number = 162
 1    45    45
 1    46    46         beg sta = 1+75.00 R 1
 1    47    47         end sta = 2+75.00 R 1
 0     0    48 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = A12590
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
    1+75.00 EARTH
                Common Exc        26          0          0   1.00
               Subgrade Exc        0          0          0   1.00
                Subsoil Exc        0          0          0   1.00
```

```
                Fill          2          0          0   1.00        0

    2+00.00 EARTH
            Common Exc       53         37         37   1.00
          Subgrade Exc        0          0          0   1.00
           Subsoil Exc        0          0          0   1.00
                Fill          0          1          1   1.00       36
♀              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
                        Common Exc         37         37   1.00
                      Subgrade Exc          0          0   1.00
                       Subsoil Exc          0          0   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
                        Common Exc         37         37             0
0   1.00
                      Subgrade Exc          0          0             0
0   1.00
                       Subsoil Exc          0          0             0
0   1.00
                          Fill              1          1             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: A13289-8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork       ALLEY LT SR62 STA. 132+89
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-A13289.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
 1    19    19             wt = 4
 1    20    20             co = 2,6,8,18
 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 = 0
 1    36    36             lvname = Default
 1    37    37             co = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     End Area Decimal Places = 0
 1    42    42
 1    43    43     Process Earthwork for Baseline = A13289
 1    44    44         job number = 162
 1    45    45
 1    46    46         beg sta = 1+75.00 R 1
 1    47    47         end sta = 2+75.00 R 1
 0     0    48 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = A13289
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- --------------- ---------- ---------- ---------- ------ --------
    1+75.00 EARTH
                Common Exc        75          0          0   1.00
               Subgrade Exc        0          0          0   1.00
                Subsoil Exc        0          0          0   1.00
```

Fill	0	0	0	1.00	0

2+00.00 EARTH

Common Exc	55	60	60	1.00	
Subgrade Exc	0	0	0	1.00	
Subsoil Exc	0	0	0	1.00	
Fill	0	0	0	1.00	60

2+25.00 EARTH

Common Exc	53	50	50	1.00	
Subgrade Exc	0	0	0	1.00	
Subsoil Exc	0	0	0	1.00	
Fill	0	0	0	1.00	110

♀ G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
EARTH			
Common Exc	110	110	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	0	0	1.00

♀ S P L I T S U M M A R Y T O T A L S

Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Quant Adjusted Volume (cu. yd.)	Mult Factor
EARTH					
Common Exc	110	110	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: A13624-8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork    ALLEY LT. SR62 STA. 136+24
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-A13624.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
 1    18    18     Existing Ground Line
 1    19    19         soil type = earth
 1    20    20         roadway exc mult factor = 1.000000
 1    21    21         subsoil exc mult factor = 1.000000
 1    22    22         fill mult factor = 1.000000
 1    23    23             type = line, line_string
 1    24    24             lvname = SURVEY - GROUND - Top of Ground
 1    25    25             lc = 3
 1    26    26             wt = 2
 1    27    27             co = 0,6
 1    28    28
 1    29    29     Write Earthwork Shapes
 1    30    30         plot param
 1    31    31             lv = 0
 1    32    32             lvname = Default
 1    33    33             co = 11
 1    34    34             wt = 0
 1    35    35             lc = 0
 1    36    36
 1    37    37     End Area Decimal Places = 0
 1    38    38
 1    39    39     Process Earthwork for Baseline = A13624
 1    40    40         job number = 162
 1    41    41
 1    42    42         beg sta = 1+75.00 R 1
 1    43    43         end sta = 2+75.00 R 1
 0     0    44 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = A13624
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
    1+75.00 EARTH
                Common Exc       67          0          0   1.00
              Subgrade Exc        0          0          0   1.00
               Subsoil Exc        0          0          0   1.00
                    Fill          0          0          0   1.00        0

    2+00.00 EARTH
                Common Exc       68         62         62   1.00
```

```
             Subgrade Exc        0          0          0   1.00
              Subsoil Exc        0          0          0   1.00
                   Fill          0          0          0   1.00       62

    2+25.00 EARTH
                Common Exc      45         52         52   1.00
             Subgrade Exc        0          0          0   1.00
              Subsoil Exc        0          0          0   1.00
                   Fill          0          0          0   1.00      114
♀                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
                          Common Exc        114        114   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          0          0   1.00
                           Fill              0          0   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
                          Common Exc        114        114             0
0   1.00
                       Subgrade Exc          0          0             0
0   1.00
                        Subsoil Exc          0          0             0
0   1.00
                           Fill              0          0             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: A20250.log
 1     1     1
 1     2     2
 1     3     3 Earthwork   ALLEY LT. MASS. STA. 202+50
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-A20250.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
 1    18    18     Existing Ground Line
 1    19    19         soil type = earth
 1    20    20         roadway exc mult factor = 1.000000
 1    21    21         subsoil exc mult factor = 1.000000
 1    22    22         fill mult factor = 1.000000
 1    23    23             type = line, line_string
 1    24    24             lvname = SURVEY - GROUND - Top of Ground
 1    25    25             lc = 3
 1    26    26             wt = 2
 1    27    27             co = 0,6
 1    28    28
 1    29    29     Write Earthwork Shapes
 1    30    30         plot param
 1    31    31             lv = 0
 1    32    32             lvname = Default
 1    33    33             co = 11
 1    34    34             wt = 0
 1    35    35             lc = 0
 1    36    36
 1    37    37     combine common exc + subgrade exc + subsoil exc
 1    38    38
 1    39    39     End Area Decimal Places = 0
 1    40    40
 1    41    41     Process Earthwork for Baseline = A20250
 1    42    42         job number = 162
 1    43    43
 1    44    44         beg sta = 1+50.00 R 1
 1    45    45         end sta = 3+00.00 R 1
 0     0    46 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = A20250
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
    1+50.00 EARTH
                Excavation        1          0          0   1.00
                    Fill          0          0          0   1.00        0

    1+75.00 EARTH
                Excavation        0          1          1   1.00
```

```
                Fill          0          0          0   1.00        1


2+25.00 EARTH
            Excavation        2          1          1   1.00
                Fill          0          0          0   1.00        2

2+50.00 EARTH
            Excavation       21         11         11   1.00
                Fill          0          0          0   1.00       13

2+75.00 EARTH
            Excavation       20         19         19   1.00
                Fill          0          0          0   1.00       32

3+00.00 EARTH
            Excavation       36         26         26   1.00
                Fill          0          0          0   1.00       58
♀               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         58         58   1.00
                       Fill              0          0   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         58         58             0
0   1.00
                       Fill              0          0             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: A20700-8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork    ALLEY LT MASS. STA. 207+00
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-A20700.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
 1    18    18     Existing Ground Line
 1    19    19         soil type = earth
 1    20    20         roadway exc mult factor = 1.000000
 1    21    21         subsoil exc mult factor = 1.000000
 1    22    22         fill mult factor = 1.000000
 1    23    23             type = line, line_string
 1    24    24             lvname = SURVEY - GROUND - Top of Ground
 1    25    25             lc = 3
 1    26    26             wt = 2
 1    27    27             co = 0,6
 1    28    28
 1    29    29     Write Earthwork Shapes
 1    30    30         plot param
 1    31    31             lv = 0
 1    32    32             lvname = Default
 1    33    33             co = 11
 1    34    34             wt = 0
 1    35    35             lc = 0
 1    36    36
 1    37    37     combine common exc + subgrade exc + subsoil exc
 1    38    38
 1    39    39     End Area Decimal Places = 0
 1    40    40
 1    41    41     Process Earthwork for Baseline = A20700
 1    42    42         job number = 162
 1    43    43
 1    44    44         beg sta = 1+50.00 R 1
 1    45    45         end sta = 2+00.00 R 1
 0     0    46 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = A20700
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
    1+50.00 EARTH
                Excavation      224          0          0   1.00
                    Fill          0          0          0   1.00        0

    1+75.00 EARTH
                Excavation       29        117        117   1.00
```

```
                 Fill          0          0          0   1.00      117

    2+00.00 EARTH
             Excavation       11         18         18   1.00
                 Fill          0          0          0   1.00      135
♀              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        135        135   1.00
                           Fill              0          0   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        135        135             0
0   1.00
                           Fill              0          0             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: A20917-8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork    ALLEY RT. MASS STA. 209+17
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-A20917.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
 1    19    19             wt = 4
 1    20    20             co = 2,6,8,18
 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             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 = 0
 1    36    36             lvname = Default
 1    37    37             co = 11
 1    38    38             wt = 0
 1    39    39             lc = 0
 1    40    40
 1    41    41     combine common exc + subgrade exc + subsoil exc
 1    42    42
 1    43    43     End Area Decimal Places = 0
 1    44    44
 1    45    45     Process Earthwork for Baseline = A20917
 1    46    46         job number = 162
 1    47    47
 1    48    48         beg sta = 1+50.00 R 1
 1    49    49         end sta = 3+25.00 R 1
 0     0    50 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = A20917
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
    1+50.00 EARTH
                Excavation      155          0          0   1.00
```

```
                Fill          0          0          0   1.00        0

    1+75.00 EARTH
            Excavation       92        114        114   1.00
                Fill          0          0          0   1.00      114

    2+00.00 EARTH
            Excavation       45         63         63   1.00
                Fill          0          0          0   1.00      177

    2+25.00 EARTH
            Excavation       50         44         44   1.00
                Fill          0          0          0   1.00      221

    2+50.00 EARTH
            Excavation       35         39         39   1.00
                Fill          0          0          0   1.00      260

    2+75.00 EARTH
            Excavation       46         38         38   1.00
                Fill          0          0          0   1.00      298

    3+00.00 EARTH
            Excavation       66         52         52   1.00
                Fill          0          0          0   1.00      350

    3+25.00 EARTH
            Excavation       52         55         55   1.00
                Fill          0          0          0   1.00      405
♀                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        405        405   1.00
                           Fill              0          0   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        405        405             0
0   1.00
                           Fill              0          0             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: A31050-8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork   ALLEY RT. KEITHWEST STA. 310+50
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-A31050.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
 1    19    19             wt = 4
 1    20    20             co = 2,6,8,18
 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             lc = ByLevel
 1    29    29             wt = ByLevel
 1    30    30             co = 6,ByLevel
 1    31    31
 1    32    32     Write Earthwork Shapes
 1    33    33         plot param
 1    34    34             lv = 0
 1    35    35             lvname = Default
 1    36    36             co = 11
 1    37    37             wt = 0
 1    38    38             lc = 0
 1    39    39
 1    40    40     combine common exc + subgrade exc + subsoil exc
 1    41    41
 1    42    42     End Area Decimal Places = 0
 1    43    43
 1    44    44     Process Earthwork for Baseline = A31050
 1    45    45         job number = 162
 1    46    46
 1    47    47         beg sta = 0+25.00 R 1
 1    48    48         end sta = 1+75.00 R 1
 0     0    49 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = A31050
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
    0+25.00 EARTH
                Excavation      353          0          0   1.00
                    Fill          0          0          0   1.00        0
```

```
    0+50.00 EARTH
                Excavation      334        318        318   1.00
                    Fill          0          0          0   1.00      318

    0+75.00 EARTH
                Excavation      222        257        257   1.00
                    Fill          0          0          0   1.00      575

    1+00.00 EARTH
                Excavation      134        165        165   1.00
                    Fill          0          0          0   1.00      740

    1+25.00 EARTH
                Excavation      111        114        114   1.00
                    Fill          0          0          0   1.00      854

    1+50.00 EARTH
                Excavation       74         86         86   1.00
                    Fill          0          0          0   1.00      940

    1+75.00 EARTH
                Excavation        0         34         34   1.00
                    Fill          1          0          0   1.00      974
♀                 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        974        974   1.00
                             Fill              0          0   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        974        974             0
0   1.00
                             Fill              0          0             0
0   1.00
```

```
Input  File: ewkprj.inp
Output File: ATR93-8-2012.log
 1     1     1
 1     2     2
 1     3     3 Earthwork ALLEY RT. KEITHREV. STA. 64+80 (TR. 93)
 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 = n:\4823 sr 62 knoxville\01\dgn\XS-DRTR93.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
 1    19    19             wt = 4
 1    20    20             co = 2,6,8,18
 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             lc = ByLevel
 1    29    29             wt = ByLevel
 1    30    30             co = 6,ByLevel
 1    31    31
 1    32    32     Write Earthwork Shapes
 1    33    33         plot param
 1    34    34             lv = 0
 1    35    35             lvname = Default
 1    36    36             co = 11
 1    37    37             wt = 0
 1    38    38             lc = 0
 1    39    39
 1    40    40     combine common exc + subgrade exc + subsoil exc
 1    41    41
 1    42    42     End Area Decimal Places = 0
 1    43    43
 1    44    44     Process Earthwork for Baseline = DRTR93
 1    45    45         job number = 162
 1    46    46
 1    47    47         beg sta = 0+00.00 R 1
 1    48    48         end sta = 2+00.00 R 1
 0     0    49 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = DRTR93
COMPUTING EARTHWORKS FOR JOB = 162
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♀
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                             (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
    0+50.00 EARTH
                Excavation      102          0          0   1.00
                    Fill          0          0          0   1.00        0
```

```
    0+75.00 EARTH
                Excavation        2         48         48   1.00
                    Fill          7          3          3   1.00       45

    1+00.00 EARTH
                Excavation        1          1          1   1.00
                    Fill         12          9          9   1.00       37

    1+25.00 EARTH
                Excavation       47         22         22   1.00
                    Fill          0          6          6   1.00       53

    1+50.00 EARTH
                Excavation        9         26         26   1.00
                    Fill          0          0          0   1.00       79
♀                 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         97         97   1.00
                            Fill             18         18   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         97         97             0
0   1.00
                            Fill             18         18             0
0   1.00
```