

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 1 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

ESTIMATED GRADING QUANTITIES						
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY	
		EXC.	EMB.	EXC.	SHRINK = %	SWELL = %
MAINLINE		119212	254970	119212	EMB.	EXC.
SIDE ROADS		24874	79725	24874		
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES						
INDEPENDENT DITCHES		115		115		
TEMPORARY CONSTRUCTION EXITS						
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)					297652	VS. -144651
TOPSOIL (EMB.)					AVAILABLE	= 153001
TOPSOIL (EXC.)						
TOPSOIL TOTALS (SEE TOPSOIL TABLE)					BORROW MATERIAL	= 153001
ROCK (C.Y.)		TOTALS (C.Y.)			BORROW ROCK	= 37043
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
450	37043	144651	297652	144201	144201	144651

Input File: ewkprj.inp

Output File: SR126EW9-14-16.log

1 1 1
 1 2 2
 1 3 3 Earthwork
 1 4 4
 1 5 5 tolerance = 0.100000
 1 6 6

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 2 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1      7      7 vertical search distance = 250.000000
1      8      8
1      9      9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\SR126 Cross Sections WORKING.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          lvname = DESIGN - EARTHWORK - Special Tie to Ground
1     19     19          lc = 0,ByLevel
1     20     20          wt = 0,4,ByLevel
1     21     21          co = 2-3,6,8,13,161,ByLevel
1     22     22
1     23     23      Existing Ground Line
1     24     24          soil type = Earth
1     25     25          roadway exc mult factor = 1.000000
1     26     26          subsoil exc mult factor = 1.000000
1     27     27          fill mult factor = 1.000000
1     28     28          type = line, line_string
1     29     29          lvname = SURVEY - GROUND - Top of Ground
1     30     30          lc = ByLevel
1     31     31          wt = ByLevel
1     32     32          co = 6,ByLevel
1     33     33
1     34     34      Write Earthwork Shapes
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 3 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

1	35	35	plot param
1	36	36	lv = 347
1	37	37	lvname = DESIGN - EARTHWORK - Shapes
1	38	38	co = ByLevel
1	39	39	wt = ByLevel
1	40	40	lc = ByLevel
1	41	41	Stratify Shape Color
1	42	42	
1	43	43	combine common exc + subgrade exc + subsoil exc
1	44	44	
1	45	45	
1	46	46	Add Accumulated Adjusted Volume Column
1	47	47	
1	48	48	Add Accumulated Unadjusted Volume Column
1	49	49	
1	50	50	End Area Decimal Places = 0
1	51	51	
1	52	52	write column base ascii file = SR126EW9-14-16.txt
1	53	53	
1	54	54	column 1 formula = abs(["Earth", Common Exc, End Area])
1	55	55	column 1 number of decimal place = 0
1	56	56	column 1 total length = 10
1	57	57	
1	58	58	column 2 formula = abs(["Earth", Fill, End Area])
1	59	59	column 2 number of decimal place = 0
1	60	60	column 2 total length = 10
1	61	61	
1	62	62	

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
CHECKED BY: ALBERT H. ZIMMERMAN
FEDERAL PROJECT NO: STP – 126 (25)
ROUTE NO. OR STREET: S.R. 126

SHEET 4 OF 97
STATE NO.: 82S126-F3-002
PIN: 105467.03
COUNTY: SULLIVAN

1 63 63 Process Earthwork for Baseline = DSR126

1 64 64 job number = 126

1 65 65

1 66 66 beg sta = 196+00 R 1

1 67 67 end sta = 413+00 R 2

0 0 68 END_OF_FILE

COMPUTING EARTHWORKS FOR BASELINE = DSR126

COMPUTING EARTHWORKS FOR JOB = 126

FORMING LIST OF XSCCELLS

BEGINNING EARTHWORKS COMPUTATION

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 5 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)

REGION = 1								
196+00.00 EARTH								
	Excavation	9	0	0	1.00		0	0
	Fill	9	0	0	1.00	0	0	0
196+50.00 EARTH								
	Excavation	10	18	18	1.00		18	18
	Fill	6	14	14	1.00	4	14	14
197+00.00 EARTH								
	Excavation	66	70	70	1.00		88	88
	Fill	5	10	10	1.00	64	24	24
197+50.00 EARTH								
	Excavation	94	148	148	1.00		236	236
	Fill	8	12	12	1.00	200	36	36
198+00.00 EARTH								
	Excavation	78	159	159	1.00		395	395
	Fill	8	15	15	1.00	344	51	51
198+50.00 EARTH								
	Excavation	87	153	153	1.00		548	548
	Fill	0	7	7	1.00	490	58	58

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 6 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

199+00.00 EARTH

Excavation	107	180	180	1.00		728	728
Fill	0	0	0	1.00	670	58	58

199+50.00 EARTH

Excavation	167	254	254	1.00		982	982
Fill	1	1	1	1.00	923	59	59

200+00.00 EARTH

Excavation	124	269	269	1.00		1251	1251
Fill	10	10	10	1.00	1182	69	69

200+50.00 EARTH

Excavation	142	246	246	1.00		1497	1497
Fill	0	9	9	1.00	1419	78	78

201+00.00 EARTH

Excavation	124	246	246	1.00		1743	1743
Fill	2	2	2	1.00	1663	80	80

201+50.00 EARTH

Excavation	113	219	219	1.00		1962	1962
Fill	8	9	9	1.00	1873	89	89

202+00.00 EARTH

Excavation	125	220	220	1.00		2182	2182
Fill	10	17	17	1.00	2076	106	106

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 7 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

202+50.00 EARTH

Excavation	194	295	295	1.00		2477	2477
Fill	11	19	19	1.00	2352	125	125

203+00.00 EARTH

Excavation	217	381	381	1.00		2858	2858
Fill	11	20	20	1.00	2713	145	145

203+50.00 EARTH

Excavation	175	363	363	1.00		3221	3221
Fill	4	14	14	1.00	3062	159	159

204+00.00 EARTH

Excavation	157	307	307	1.00		3528	3528
Fill	6	9	9	1.00	3360	168	168

204+50.00 EARTH

Excavation	165	298	298	1.00		3826	3826
Fill	14	19	19	1.00	3639	187	187

205+00.00 EARTH

Excavation	81	228	228	1.00		4054	4054
Fill	7	19	19	1.00	3848	206	206

205+50.00 EARTH

Excavation	96	164	164	1.00		4218	4218
Fill	18	23	23	1.00	3989	229	229

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 8 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

206+00.00 EARTH

Excavation	81	164	164	1.00		4382	4382
Fill	115	123	123	1.00	4030	352	352

206+50.00 EARTH

Excavation	153	217	217	1.00		4599	4599
Fill	50	153	153	1.00	4094	505	505

207+00.00 EARTH

Excavation	141	272	272	1.00		4871	4871
Fill	108	146	146	1.00	4220	651	651

207+50.00 EARTH

Excavation	137	257	257	1.00		5128	5128
Fill	87	181	181	1.00	4296	832	832

208+00.00 EARTH

Excavation	172	286	286	1.00		5414	5414
Fill	9	89	89	1.00	4493	921	921

208+50.00 EARTH

Excavation	126	276	276	1.00		5690	5690
Fill	9	17	17	1.00	4752	938	938

209+00.00 EARTH

Excavation	117	225	225	1.00		5915	5915
Fill	15	22	22	1.00	4955	960	960

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 9 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

209+50.00 EARTH

Excavation	142	240	240	1.00		6155	6155
Fill	14	27	27	1.00	5168	987	987

210+00.00 EARTH

Excavation	147	268	268	1.00		6423	6423
Fill	16	28	28	1.00	5408	1015	1015

210+50.00 EARTH

Excavation	146	271	271	1.00		6694	6694
Fill	14	28	28	1.00	5651	1043	1043

211+00.00 EARTH

Excavation	249	366	366	1.00		7060	7060
Fill	1	14	14	1.00	6003	1057	1057

211+50.00 EARTH

Excavation	196	412	412	1.00		7472	7472
Fill	1	2	2	1.00	6413	1059	1059

212+00.00 EARTH

Excavation	169	338	338	1.00		7810	7810
Fill	13	13	13	1.00	6738	1072	1072

212+50.00 EARTH

Excavation	123	270	270	1.00		8080	8080
Fill	89	94	94	1.00	6914	1166	1166

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **10** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

213+00.00 EARTH

Excavation	94	201	201	1.00		8281	8281
Fill	88	164	164	1.00	6951	1330	1330

213+50.00 EARTH

Excavation	88	169	169	1.00		8450	8450
Fill	111	184	184	1.00	6936	1514	1514

214+00.00 EARTH

Excavation	74	150	150	1.00		8600	8600
Fill	87	183	183	1.00	6903	1697	1697

214+50.00 EARTH

Excavation	63	127	127	1.00		8727	8727
Fill	156	225	225	1.00	6805	1922	1922

215+00.00 EARTH

Excavation	55	109	109	1.00		8836	8836
Fill	230	357	357	1.00	6557	2279	2279

215+50.00 EARTH

Excavation	43	91	91	1.00		8927	8927
Fill	208	406	406	1.00	6242	2685	2685

216+00.00 EARTH

Excavation	38	75	75	1.00		9002	9002
Fill	227	403	403	1.00	5914	3088	3088

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **11** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

216+50.00 EARTH

Excavation	32	65	65	1.00		9067	9067
Fill	265	456	456	1.00	5523	3544	3544

217+00.00 EARTH

Excavation	59	84	84	1.00		9151	9151
Fill	556	760	760	1.00	4847	4304	4304

217+50.00 EARTH

Excavation	80	129	129	1.00		9280	9280
Fill	505	982	982	1.00	3994	5286	5286

218+00.00 EARTH

Excavation	94	161	161	1.00		9441	9441
Fill	875	1278	1278	1.00	2877	6564	6564

218+50.00 EARTH

Excavation	98	178	178	1.00		9619	9619
Fill	150	949	949	1.00	2106	7513	7513

219+00.00 EARTH

Excavation	148	228	228	1.00		9847	9847
Fill	60	194	194	1.00	2140	7707	7707

219+50.00 EARTH

Excavation	402	509	509	1.00		10356	10356
Fill	436	459	459	1.00	2190	8166	8166

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **12** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

220+00.00 EARTH

Excavation	116	480	480	1.00		10836	10836
Fill	304	685	685	1.00	1985	8851	8851

220+50.00 EARTH

Excavation	85	186	186	1.00		11022	11022
Fill	390	643	643	1.00	1528	9494	9494

221+00.00 EARTH

Excavation	122	192	192	1.00		11214	11214
Fill	485	810	810	1.00	910	10304	10304

221+50.00 EARTH

Excavation	157	258	258	1.00		11472	11472
Fill	458	873	873	1.00	295	11177	11177

222+00.00 EARTH

Excavation	221	350	350	1.00		11822	11822
Fill	615	994	994	1.00	-349	12171	12171

222+50.00 EARTH

Excavation	267	452	452	1.00		12274	12274
Fill	630	1153	1153	1.00	-1050	13324	13324

223+00.00 EARTH

Excavation	202	434	434	1.00		12708	12708
Fill	350	907	907	1.00	-1523	14231	14231

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **13** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

223+50.00 EARTH

Excavation	158	333	333	1.00		13041	13041
Fill	52	372	372	1.00	-1562	14603	14603

224+00.00 EARTH

Excavation	202	333	333	1.00		13374	13374
Fill	113	153	153	1.00	-1382	14756	14756

224+50.00 EARTH

Excavation	793	921	921	1.00		14295	14295
Fill	135	230	230	1.00	-691	14986	14986

225+00.00 EARTH

Excavation	1092	1745	1745	1.00		16040	16040
Fill	102	219	219	1.00	835	15205	15205

225+50.00 EARTH

Excavation	1142	2069	2069	1.00		18109	18109
Fill	74	163	163	1.00	2741	15368	15368

226+00.00 EARTH

Excavation	866	1859	1859	1.00		19968	19968
Fill	60	124	124	1.00	4476	15492	15492

226+50.00 EARTH

Excavation	748	1494	1494	1.00		21462	21462
Fill	48	100	100	1.00	5870	15592	15592

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **14** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

227+00.00 EARTH

Excavation	724	1363	1363	1.00		22825	22825
Fill	32	74	74	1.00	7159	15666	15666

227+50.00 EARTH

Excavation	570	1198	1198	1.00		24023	24023
Fill	63	88	88	1.00	8269	15754	15754

228+00.00 EARTH

Excavation	499	990	990	1.00		25013	25013
Fill	65	119	119	1.00	9140	15873	15873

228+50.00 EARTH

Excavation	453	881	881	1.00		25894	25894
Fill	86	140	140	1.00	9881	16013	16013

229+00.00 EARTH

Excavation	378	769	769	1.00		26663	26663
Fill	32	109	109	1.00	10541	16122	16122

229+50.00 EARTH

Excavation	351	675	675	1.00		27338	27338
Fill	68	93	93	1.00	11123	16215	16215

230+00.00 EARTH

Excavation	431	724	724	1.00		28062	28062
Fill	174	224	224	1.00	11623	16439	16439

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **15** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

230+50.00 EARTH

Excavation	186	571	571	1.00		28633	28633
Fill	101	255	255	1.00	11939	16694	16694

231+00.00 EARTH

Excavation	169	329	329	1.00		28962	28962
Fill	138	221	221	1.00	12047	16915	16915

231+50.00 EARTH

Excavation	167	311	311	1.00		29273	29273
Fill	124	243	243	1.00	12115	17158	17158

232+00.00 EARTH

Excavation	245	381	381	1.00		29654	29654
Fill	65	175	175	1.00	12321	17333	17333

232+50.00 EARTH

Excavation	231	441	441	1.00		30095	30095
Fill	1	61	61	1.00	12701	17394	17394

233+00.00 EARTH

Excavation	197	396	396	1.00		30491	30491
Fill	4	5	5	1.00	13092	17399	17399

233+50.00 EARTH

Excavation	166	336	336	1.00		30827	30827
Fill	7	10	10	1.00	13418	17409	17409

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **16** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

234+00.00 EARTH

Excavation	122	267	267	1.00		31094	31094
Fill	11	17	17	1.00	13668	17426	17426

234+50.00 EARTH

Excavation	109	214	214	1.00		31308	31308
Fill	16	25	25	1.00	13857	17451	17451

235+00.00 EARTH

Excavation	112	205	205	1.00		31513	31513
Fill	19	32	32	1.00	14030	17483	17483

235+50.00 EARTH

Excavation	126	220	220	1.00		31733	31733
Fill	0	18	18	1.00	14232	17501	17501

236+00.00 EARTH

Excavation	132	239	239	1.00		31972	31972
Fill	3	3	3	1.00	14468	17504	17504

236+50.00 EARTH

Excavation	125	238	238	1.00		32210	32210
Fill	7	9	9	1.00	14697	17513	17513

237+00.00 EARTH

Excavation	119	226	226	1.00		32436	32436
Fill	17	22	22	1.00	14901	17535	17535

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 17 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

237+50.00 EARTH

Excavation	126	227	227	1.00		32663	32663
Fill	25	39	39	1.00	15089	17574	17574

238+00.00 EARTH

Excavation	134	241	241	1.00		32904	32904
Fill	24	45	45	1.00	15285	17619	17619

238+50.00 EARTH

Excavation	116	231	231	1.00		33135	33135
Fill	48	67	67	1.00	15449	17686	17686

239+00.00 EARTH

Excavation	103	203	203	1.00		33338	33338
Fill	77	116	116	1.00	15536	17802	17802

239+50.00 EARTH

Excavation	0	95	95	1.00		33433	33433
Fill	38	106	106	1.00	15525	17908	17908

240+00.00 EARTH

Excavation	46	43	43	1.00		33476	33476
Fill	24	57	57	1.00	15511	17965	17965

240+50.00 EARTH

Excavation	46	85	85	1.00		33561	33561
Fill	41	60	60	1.00	15536	18025	18025

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **18** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

241+00.00 EARTH

Excavation	61	99	99	1.00		33660	33660
Fill	36	71	71	1.00	15564	18096	18096

241+50.00 EARTH

Excavation	85	135	135	1.00		33795	33795
Fill	67	95	95	1.00	15604	18191	18191

242+00.00 EARTH

Excavation	93	165	165	1.00		33960	33960
Fill	25	85	85	1.00	15684	18276	18276

242+50.00 EARTH

Excavation	1	87	87	1.00		34047	34047
Fill	44	64	64	1.00	15707	18340	18340

243+00.00 EARTH

Excavation	78	73	73	1.00		34120	34120
Fill	33	71	71	1.00	15709	18411	18411

243+50.00 EARTH

Excavation	41	110	110	1.00		34230	34230
Fill	49	76	76	1.00	15743	18487	18487

244+00.00 EARTH

Excavation	7	44	44	1.00		34274	34274
Fill	217	246	246	1.00	15541	18733	18733

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **19** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

244+50.00 EARTH

Excavation	43	46	46	1.00		34320	34320
Fill	174	362	362	1.00	15225	19095	19095

245+00.00 EARTH

Excavation	36	73	73	1.00		34393	34393
Fill	296	435	435	1.00	14863	19530	19530

245+50.00 EARTH

Excavation	41	71	71	1.00		34464	34464
Fill	454	694	694	1.00	14240	20224	20224

246+00.00 EARTH

Excavation	117	146	146	1.00		34610	34610
Fill	488	872	872	1.00	13514	21096	21096

246+50.00 EARTH

Excavation	30	136	136	1.00		34746	34746
Fill	870	1257	1257	1.00	12393	22353	22353

247+00.00 EARTH

Excavation	27	53	53	1.00		34799	34799
Fill	510	1278	1278	1.00	11168	23631	23631

247+50.00 EARTH

Excavation	24	47	47	1.00		34846	34846
Fill	405	847	847	1.00	10368	24478	24478

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **20** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

248+00.00 EARTH

Excavation	9	31	31	1.00		34877	34877
Fill	645	972	972	1.00	9427	25450	25450

248+50.00 EARTH

Excavation	0	8	8	1.00		34885	34885
Fill	273	850	850	1.00	8585	26300	26300

249+00.00 EARTH

Excavation	0	0	0	1.00		34885	34885
Fill	130	373	373	1.00	8212	26673	26673

249+50.00 EARTH

Excavation	85	79	79	1.00		34964	34964
Fill	611	686	686	1.00	7605	27359	27359

250+00.00 EARTH

Excavation	18	95	95	1.00		35059	35059
Fill	565	1089	1089	1.00	6611	28448	28448

250+50.00 EARTH

Excavation	34	48	48	1.00		35107	35107
Fill	323	822	822	1.00	5837	29270	29270

251+00.00 EARTH

Excavation	57	84	84	1.00		35191	35191
Fill	307	583	583	1.00	5338	29853	29853

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **21** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

251+50.00 EARTH

Excavation	28	79	79	1.00		35270	35270
Fill	346	605	605	1.00	4812	30458	30458

252+00.00 EARTH

Excavation	9	34	34	1.00		35304	35304
Fill	517	799	799	1.00	4047	31257	31257

252+50.00 EARTH

Excavation	55	59	59	1.00		35363	35363
Fill	247	707	707	1.00	3399	31964	31964

253+00.00 EARTH

Excavation	56	103	103	1.00		35466	35466
Fill	66	290	290	1.00	3212	32254	32254

253+50.00 EARTH

Excavation	151	192	192	1.00		35658	35658
Fill	78	133	133	1.00	3271	32387	32387

254+00.00 EARTH

Excavation	304	421	421	1.00		36079	36079
Fill	160	220	220	1.00	3472	32607	32607

254+50.00 EARTH

Excavation	11	292	292	1.00		36371	36371
Fill	120	259	259	1.00	3505	32866	32866

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **22** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

255+00.00 EARTH

Excavation	71	76	76	1.00		36447	36447
Fill	445	523	523	1.00	3058	33389	33389

255+50.00 EARTH

Excavation	47	109	109	1.00		36556	36556
Fill	521	894	894	1.00	2273	34283	34283

256+00.00 EARTH

Excavation	28	69	69	1.00		36625	36625
Fill	829	1250	1250	1.00	1092	35533	35533

256+50.00 EARTH

Excavation	32	56	56	1.00		36681	36681
Fill	1013	1706	1706	1.00	-558	37239	37239

257+00.00 EARTH

Excavation	51	77	77	1.00		36758	36758
Fill	1254	2099	2099	1.00	-2580	39338	39338

257+50.00 EARTH

Excavation	25	70	70	1.00		36828	36828
Fill	1242	2311	2311	1.00	-4821	41649	41649

258+00.00 EARTH

Excavation	9	31	31	1.00		36859	36859
Fill	1222	2281	2281	1.00	-7071	43930	43930

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **23** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

258+50.00 EARTH

Excavation	15	22	22	1.00		36881	36881
Fill	874	1941	1941	1.00	-8990	45871	45871

259+00.00 EARTH

Excavation	10	23	23	1.00		36904	36904
Fill	808	1557	1557	1.00	-10524	47428	47428

259+50.00 EARTH

Excavation	28	35	35	1.00		36939	36939
Fill	896	1578	1578	1.00	-12067	49006	49006

260+00.00 EARTH

Excavation	100	119	119	1.00		37058	37058
Fill	965	1723	1723	1.00	-13671	50729	50729

260+50.00 EARTH

Excavation	9	101	101	1.00		37159	37159
Fill	1161	1969	1969	1.00	-15539	52698	52698

261+00.00 EARTH

Excavation	18	25	25	1.00		37184	37184
Fill	1221	2206	2206	1.00	-17720	54904	54904

261+50.00 EARTH

Excavation	10	26	26	1.00		37210	37210
Fill	1513	2531	2531	1.00	-20225	57435	57435

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **24** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

262+00.00 EARTH

Excavation	29	36	36	1.00		37246	37246
Fill	1670	2947	2947	1.00	-23136	60382	60382

262+50.00 EARTH

Excavation	27	52	52	1.00		37298	37298
Fill	1736	3154	3154	1.00	-26238	63536	63536

263+00.00 EARTH

Excavation	22	45	45	1.00		37343	37343
Fill	1661	3145	3145	1.00	-29338	66681	66681

263+50.00 EARTH

Excavation	23	42	42	1.00		37385	37385
Fill	1471	2900	2900	1.00	-32196	69581	69581

264+00.00 EARTH

Excavation	10	31	31	1.00		37416	37416
Fill	994	2282	2282	1.00	-34447	71863	71863

264+50.00 EARTH

Excavation	10	19	19	1.00		37435	37435
Fill	956	1806	1806	1.00	-36234	73669	73669

265+00.00 EARTH

Excavation	6	15	15	1.00		37450	37450
Fill	875	1695	1695	1.00	-37914	75364	75364

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **25** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

265+50.00 EARTH

Excavation	22	26	26	1.00		37476	37476
Fill	798	1549	1549	1.00	-39437	76913	76913

266+00.00 EARTH

Excavation	77	92	92	1.00		37568	37568
Fill	763	1445	1445	1.00	-40790	78358	78358

266+50.00 EARTH

Excavation	37	106	106	1.00		37674	37674
Fill	687	1343	1343	1.00	-42027	79701	79701

267+00.00 EARTH

Excavation	80	108	108	1.00		37782	37782
Fill	721	1304	1304	1.00	-43223	81005	81005

267+50.00 EARTH

Excavation	71	140	140	1.00		37922	37922
Fill	479	1111	1111	1.00	-44194	82116	82116

268+00.00 EARTH

Excavation	58	119	119	1.00		38041	38041
Fill	603	1002	1002	1.00	-45077	83118	83118

268+50.00 EARTH

Excavation	46	96	96	1.00		38137	38137
Fill	653	1163	1163	1.00	-46144	84281	84281

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **26** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

269+00.00 EARTH

Excavation	15	56	56	1.00		38193	38193
Fill	542	1106	1106	1.00	-47194	85387	85387

269+50.00 EARTH

Excavation	116	121	121	1.00		38314	38314
Fill	15	516	516	1.00	-47589	85903	85903

270+00.00 EARTH

Excavation	47	151	151	1.00		38465	38465
Fill	41	52	52	1.00	-47490	85955	85955

270+50.00 EARTH

Excavation	93	130	130	1.00		38595	38595
Fill	61	94	94	1.00	-47454	86049	86049

271+00.00 EARTH

Excavation	77	157	157	1.00		38752	38752
Fill	66	118	118	1.00	-47415	86167	86167

271+50.00 EARTH

Excavation	345	391	391	1.00		39143	39143
Fill	63	119	119	1.00	-47143	86286	86286

272+00.00 EARTH

Excavation	403	693	693	1.00		39836	39836
Fill	103	154	154	1.00	-46604	86440	86440

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **27** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

272+50.00 EARTH

Excavation	386	731	731	1.00		40567	40567
Fill	305	378	378	1.00	-46251	86818	86818

273+00.00 EARTH

Excavation	778	1078	1078	1.00		41645	41645
Fill	488	734	734	1.00	-45907	87552	87552

273+50.00 EARTH

Excavation	905	1558	1558	1.00		43203	43203
Fill	447	866	866	1.00	-45215	88418	88418

REGION = 2

274+00.00 EARTH

Excavation	901	1081	1081	1.00		44284	44284
Fill	810	752	752	1.00	-44886	89170	89170

274+50.00 EARTH

Excavation	762	1540	1540	1.00		45824	45824
Fill	1267	1923	1923	1.00	-45269	91093	91093

275+00.00 EARTH

Excavation	64	765	765	1.00		46589	46589
Fill	67	1235	1235	1.00	-45739	92328	92328

275+50.00 EARTH

Excavation	0	59	59	1.00		46648	46648
Fill	59	117	117	1.00	-45797	92445	92445

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **28** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

276+00.00 EARTH

Excavation	102	94	94	1.00		46742	46742
Fill	994	975	975	1.00	-46678	93420	93420

276+50.00 EARTH

Excavation	969	992	992	1.00		47734	47734
Fill	533	1414	1414	1.00	-47100	94834	94834

277+00.00 EARTH

Excavation	1279	2081	2081	1.00		49815	49815
Fill	8	501	501	1.00	-45520	95335	95335

277+50.00 EARTH

Excavation	1331	2417	2417	1.00		52232	52232
Fill	14	20	20	1.00	-43123	95355	95355

278+00.00 EARTH

Excavation	1002	2160	2160	1.00		54392	54392
Fill	45	55	55	1.00	-41018	95410	95410

278+50.00 EARTH

Excavation	758	1630	1630	1.00		56022	56022
Fill	65	102	102	1.00	-39490	95512	95512

279+00.00 EARTH

Excavation	659	1312	1312	1.00		57334	57334
Fill	76	131	131	1.00	-38309	95643	95643

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **29** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

279+50.00 EARTH

Excavation	870	1416	1416	1.00		58750	58750
Fill	53	119	119	1.00	-37012	95762	95762

280+00.00 EARTH

Excavation	1125	1847	1847	1.00		60597	60597
Fill	22	69	69	1.00	-35234	95831	95831

280+50.00 EARTH

Excavation	1222	2173	2173	1.00		62770	62770
Fill	6	26	26	1.00	-33087	95857	95857

281+00.00 EARTH

Excavation	1149	2195	2195	1.00		64965	64965
Fill	0	6	6	1.00	-30898	95863	95863

281+50.00 EARTH

Excavation	1059	2044	2044	1.00		67009	67009
Fill	0	0	0	1.00	-28854	95863	95863

282+00.00 EARTH

Excavation	1052	1955	1955	1.00		68964	68964
Fill	17	16	16	1.00	-26915	95879	95879

282+50.00 EARTH

Excavation	962	1865	1865	1.00		70829	70829
Fill	13	28	28	1.00	-25078	95907	95907

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **30** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

283+00.00 EARTH

Excavation	785	1618	1618	1.00		72447	72447
Fill	51	59	59	1.00	-23519	95966	95966

283+50.00 EARTH

Excavation	550	1236	1236	1.00		73683	73683
Fill	168	203	203	1.00	-22486	96169	96169

284+00.00 EARTH

Excavation	378	859	859	1.00		74542	74542
Fill	246	383	383	1.00	-22010	96552	96552

284+50.00 EARTH

Excavation	257	588	588	1.00		75130	75130
Fill	433	629	629	1.00	-22051	97181	97181

285+00.00 EARTH

Excavation	238	458	458	1.00		75588	75588
Fill	538	899	899	1.00	-22492	98080	98080

285+50.00 EARTH

Excavation	295	494	494	1.00		76082	76082
Fill	368	839	839	1.00	-22837	98919	98919

286+00.00 EARTH

Excavation	196	455	455	1.00		76537	76537
Fill	117	449	449	1.00	-22831	99368	99368

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **31** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

286+50.00 EARTH

Excavation	433	582	582	1.00		77119	77119
Fill	24	131	131	1.00	-22380	99499	99499

287+00.00 EARTH

Excavation	278	658	658	1.00		77777	77777
Fill	21	42	42	1.00	-21764	99541	99541

287+50.00 EARTH

Excavation	571	786	786	1.00		78563	78563
Fill	2	21	21	1.00	-20999	99562	99562

288+00.00 EARTH

Excavation	583	1069	1069	1.00		79632	79632
Fill	1	3	3	1.00	-19933	99565	99565

288+50.00 EARTH

Excavation	615	1109	1109	1.00		80741	80741
Fill	5	6	6	1.00	-18830	99571	99571

289+00.00 EARTH

Excavation	553	1081	1081	1.00		81822	81822
Fill	11	15	15	1.00	-17764	99586	99586

289+50.00 EARTH

Excavation	400	882	882	1.00		82704	82704
Fill	26	34	34	1.00	-16916	99620	99620

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **32** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

290+00.00 EARTH

Excavation	243	595	595	1.00		83299	83299
Fill	39	60	60	1.00	-16381	99680	99680

290+50.00 EARTH

Excavation	191	402	402	1.00		83701	83701
Fill	225	244	244	1.00	-16223	99924	99924

291+00.00 EARTH

Excavation	130	297	297	1.00		83998	83998
Fill	1048	1179	1179	1.00	-17105	101103	101103

291+50.00 EARTH

Excavation	15	134	134	1.00		84132	84132
Fill	1515	2373	2373	1.00	-19344	103476	103476

292+00.00 EARTH

Excavation	23	35	35	1.00		84167	84167
Fill	1834	3101	3101	1.00	-22410	106577	106577

292+50.00 EARTH

Excavation	18	38	38	1.00		84205	84205
Fill	2292	3820	3820	1.00	-26192	110397	110397

293+00.00 EARTH

Excavation	16	31	31	1.00		84236	84236
Fill	3099	4992	4992	1.00	-31153	115389	115389

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **33** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

293+50.00 EARTH

Excavation	9	23	23	1.00		84259	84259
Fill	4155	6717	6717	1.00	-37847	122106	122106

294+00.00 EARTH

Excavation	40	45	45	1.00		84304	84304
Fill	3935	7491	7491	1.00	-45293	129597	129597

294+50.00 EARTH

Excavation	26	61	61	1.00		84365	84365
Fill	3766	7131	7131	1.00	-52363	136728	136728

295+00.00 EARTH

Excavation	23	45	45	1.00		84410	84410
Fill	3548	6772	6772	1.00	-59090	143500	143500

295+50.00 EARTH

Excavation	26	45	45	1.00		84455	84455
Fill	3414	6446	6446	1.00	-65491	149946	149946

296+00.00 EARTH

Excavation	34	56	56	1.00		84511	84511
Fill	2850	5800	5800	1.00	-71235	155746	155746

296+50.00 EARTH

Excavation	39	68	68	1.00		84579	84579
Fill	1524	4050	4050	1.00	-75217	159796	159796

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **34** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

297+00.00 EARTH

Excavation	42	75	75	1.00		84654	84654
Fill	826	2176	2176	1.00	-77318	161972	161972

297+50.00 EARTH

Excavation	43	79	79	1.00		84733	84733
Fill	565	1288	1288	1.00	-78527	163260	163260

298+00.00 EARTH

Excavation	242	264	264	1.00		84997	84997
Fill	545	1028	1028	1.00	-79291	164288	164288

298+50.00 EARTH

Excavation	253	458	458	1.00		85455	85455
Fill	495	963	963	1.00	-79796	165251	165251

299+00.00 EARTH

Excavation	295	507	507	1.00		85962	85962
Fill	300	736	736	1.00	-80025	165987	165987

299+50.00 EARTH

Excavation	295	546	546	1.00		86508	86508
Fill	288	544	544	1.00	-80023	166531	166531

300+00.00 EARTH

Excavation	306	556	556	1.00		87064	87064
Fill	111	369	369	1.00	-79836	166900	166900

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **35** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

300+50.00 EARTH

Excavation	379	634	634	1.00		87698	87698
Fill	95	191	191	1.00	-79393	167091	167091

301+00.00 EARTH

Excavation	372	695	695	1.00		88393	88393
Fill	111	191	191	1.00	-78889	167282	167282

301+50.00 EARTH

Excavation	317	638	638	1.00		89031	89031
Fill	150	242	242	1.00	-78493	167524	167524

302+00.00 EARTH

Excavation	271	544	544	1.00		89575	89575
Fill	191	316	316	1.00	-78265	167840	167840

302+50.00 EARTH

Excavation	220	455	455	1.00		90030	90030
Fill	113	281	281	1.00	-78091	168121	168121

303+00.00 EARTH

Excavation	163	355	355	1.00		90385	90385
Fill	118	214	214	1.00	-77950	168335	168335

303+50.00 EARTH

Excavation	50	197	197	1.00		90582	90582
Fill	218	311	311	1.00	-78064	168646	168646

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **36** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

304+00.00 EARTH

Excavation	17	62	62	1.00		90644	90644
Fill	188	376	376	1.00	-78378	169022	169022

304+50.00 EARTH

Excavation	3	19	19	1.00		90663	90663
Fill	125	290	290	1.00	-78649	169312	169312

305+00.00 EARTH

Excavation	44	44	44	1.00		90707	90707
Fill	30	144	144	1.00	-78749	169456	169456

305+50.00 EARTH

Excavation	96	130	130	1.00		90837	90837
Fill	8	35	35	1.00	-78654	169491	169491

306+00.00 EARTH

Excavation	219	292	292	1.00		91129	91129
Fill	4	11	11	1.00	-78373	169502	169502

306+50.00 EARTH

Excavation	256	440	440	1.00		91569	91569
Fill	3	6	6	1.00	-77939	169508	169508

307+00.00 EARTH

Excavation	300	515	515	1.00		92084	92084
Fill	7	9	9	1.00	-77433	169517	169517

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 37 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

307+50.00 EARTH

Excavation	216	478	478	1.00		92562	92562
Fill	83	83	83	1.00	-77038	169600	169600

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	92562	92562	1.00	
	Fill	169600	169600	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	XS Quant Adjusted Volume	Add/Sub Quant Unadjusted Volume	Add/Sub Quant Adjusted Volume	Mult Factor
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

EARTH						
	Excavation	92562	92562	0	0	1.00
	Fill	169600	169600	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 Factor
		Unadjusted Volumes	Adjusted Volumes	Unadjusted Volumes	Adjusted Volumes	
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

Station = 221+72.90, Region 1						
EARTH						
	Excavation	11632	11632	11632	11632	1.00
	Fill	11632	11632	11632	11632	1.00
Station = 224+72.64, Region 1						
EARTH						
	Excavation	15085	15085	3453	3453	1.00
	Fill	15085	15085	3453	3453	1.00
Station = 256+33.09, Region 1						
EARTH						
	Excavation	36662	36662	21577	21577	1.00
	Fill	36662	36662	21577	21577	1.00

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **38** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Input File: ewkprj.inp

Output File: EASTCNTREARTH8-22-16.log

```

1      1      1
1      2      2
1      3      3 Earthwork
1      4      4
1      5      5 tolerance = 0.010000
1      6      6
1      7      7 vertical search distance = 250.000000
1      8      8
1      9      9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\East Center Sections.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 = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **39** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

1	27	27	wt = ByLevel
1	28	28	co = ByLevel
1	29	29	
1	30	30	Write Earthwork Shapes
1	31	31	plot param
1	32	32	lv = 347
1	33	33	lvname = DESIGN - EARTHWORK - Shapes
1	34	34	co = ByLevel
1	35	35	wt = ByLevel
1	36	36	lc = ByLevel
1	37	37	Stratify Shape Color
1	38	38	
1	39	39	combine common exc + subgrade exc + subsoil exc
1	40	40	
1	41	41	
1	42	42	Add Accumulated Adjusted Volume Column
1	43	43	
1	44	44	Add Accumulated Unadjusted Volume Column
1	45	45	
1	46	46	End Area Decimal Places = 0
1	47	47	
1	48	48	write column base ascii file = EASTCNTREarth.txt
1	49	49	
1	50	50	column 1 formula = abs(["Earth", Common Exc, End Area])
1	51	51	column 1 number of decimal place = 0
1	52	52	column 1 total length = 10
1	53	53	
1	54	54	column 2 formula = abs(["Earth", Fill, End Area])

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **40** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1   55   55   column 2 number of decimal place = 0
1   56   56   column 2 total length = 10
1   57   57
1   58   58
1   59   59   Process Earthwork for Baseline = DEASTCENTER
1   60   60   job number = 126
1   61   61
1   62   62   beg sta = 46+00.00 R 1
1   63   63   end sta = 53+00.00 R 1
0    0   64 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DEASTCENTER

COMPUTING EARTHWORKS FOR JOB = 126

FORMING LIST OF XSCHELLS

BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
---------	---------------	------------------------	------------------------------------	----------------------------------	----------------	------------------	---------------------------------	-------------------------------

46+25.00 EARTH

Excavation	63	0	0	1.00		0	0
Fill	0	0	0	1.00	0	0	0

46+50.00 EARTH

Excavation	58	56	56	1.00		56	56
Fill	1	0	0	1.00	56	0	0

47+00.00 EARTH

COMPUTED BY: TERRY SNODGRESS
CHECKED BY: ALBERT H. ZIMMERMAN
FEDERAL PROJECT NO: STP – 126 (25)
ROUTE NO. OR STREET: S.R. 126

SHEET 41 OF 97
STATE NO.: 82S126-F3-002
PIN: 105467.03
COUNTY: SULLIVAN

	Excavation	66	115	115	1.00		171	171
	Fill	3	4	4	1.00	167	4	4
47+50.00 EARTH								
	Excavation	62	119	119	1.00		290	290
	Fill	2	5	5	1.00	281	9	9
48+00.00 EARTH								
	Excavation	58	111	111	1.00		401	401
	Fill	8	9	9	1.00	383	18	18
48+50.00 EARTH								
	Excavation	76	124	124	1.00		525	525
	Fill	5	12	12	1.00	495	30	30
49+00.00 EARTH								
	Excavation	106	169	169	1.00		694	694
	Fill	3	7	7	1.00	657	37	37
49+50.00 EARTH								
	Excavation	152	239	239	1.00		933	933
	Fill	3	6	6	1.00	890	43	43
51+00.00 EARTH								
	Excavation	137	803	803	1.00		1736	1736
	Fill	2	14	14	1.00	1679	57	57
51+50.00 EARTH								

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **42** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Excavation	99	219	219	1.00		1955	1955
Fill	0	2	2	1.00	1896	59	59

52+00.00 EARTH

Excavation	74	160	160	1.00		2115	2115
Fill	0	0	0	1.00	2056	59	59

52+50.00 EARTH

Excavation	68	131	131	1.00		2246	2246
Fill	1	1	1	1.00	2186	60	60

52+75.00 EARTH

Excavation	52	56	56	1.00		2302	2302
Fill	1	1	1	1.00	2241	61	61

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	2302	2302	1.00
Fill	61	61	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 Volume (cu. yd.)	Add/Sub Quant Volume (cu. yd.)	Mult Factor
---------------	---	---	---	---	----------------

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **43** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

EARTH

Excavation	2302	2302	0	0	1.00
Fill	61	61	0	0	1.00

Input File: ewkprj.inp

Output File: CENTRALEARTH8-22-16.log

```

1      1      1
1      2      2
1      3      3 Earthwork
1      4      4
1      5      5 tolerance = 0.010000
1      6      6
1      7      7 vertical search distance = 250.000000
1      8      8
1      9      9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Central Sections.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
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **44** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

1	21	21	Existing Ground Line
1	22	22	soil type = Earth
1	23	23	roadway exc mult factor = 1.000000
1	24	24	subsoil exc mult factor = 1.000000
1	25	25	fill mult factor = 1.000000
1	26	26	type = line_string
1	27	27	lvname = SURVEY - GROUND - Top of Ground
1	28	28	lc = 3
1	29	29	co = 0
1	30	30	
1	31	31	Write Earthwork Shapes
1	32	32	plot param
1	33	33	lv = 347
1	34	34	lvname = DESIGN - EARTHWORK - Shapes
1	35	35	co = ByLevel
1	36	36	wt = ByLevel
1	37	37	lc = ByLevel
1	38	38	Stratify Shape Color
1	39	39	
1	40	40	combine common exc + subgrade exc + subsoil exc
1	41	41	
1	42	42	
1	43	43	Add Accumulated Adjusted Volume Column
1	44	44	
1	45	45	Add Accumulated Unadjusted Volume Column
1	46	46	
1	47	47	End Area Decimal Places = 0
1	48	48	

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **45** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  49  49  write column base ascii file = CENTRALEarth.txt
1  50  50
1  51  51  column 1 formula = abs( ["Earth", Common Exc, End Area]  )
1  52  52  column 1 number of decimal place = 0
1  53  53  column 1 total length = 10
1  54  54
1  55  55  column 2 formula = abs( ["Earth", Fill, End Area]  )
1  56  56  column 2 number of decimal place = 0
1  57  57  column 2 total length = 10
1  58  58
1  59  59
1  60  60  Process Earthwork for Baseline = CENTRAL
1  61  61      job number = 126
1  62  62
1  63  63      beg sta = 50+50.00 R 1
1  64  64      end sta = 52+00.00 R 1
0    0    65 END_OF_FILE

```

COMPUTING EARTHWORKS FOR BASELINE = CENTRAL

COMPUTING EARTHWORKS FOR JOB = 126

FORMING LIST OF XSCCELLS

BEGINNING EARTHWORKS COMPUTATION

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 46 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
50+50.00	EARTH							
	Excavation	2	0	0	1.00		0	0
	Fill	23	0	0	1.00	0	0	0
51+00.00	EARTH							
	Excavation	13	14	14	1.00		14	14
	Fill	0	21	21	1.00	-7	21	21
51+50.00	EARTH							
	Excavation	18	29	29	1.00		43	43
	Fill	0	0	0	1.00	22	21	21
51+60.00	EARTH							
	Excavation	16	6	6	1.00		49	49
	Fill	0	0	0	1.00	28	21	21
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		49	49	1.00			
	Fill		21	21	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 Unadjusted Volume (cu. yd.)	Add/Sub Adjusted Volume (cu. yd.)	Mult Factor	
	EARTH							
	Excavation		49	49	0	0	1.00	
	Fill		21	21	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 = 51+12.07	EARTH							
	Excavation		21	21	21	21	1.00	
	Fill		21	21	21	21	1.00	

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 47 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Input File: ewkprj.inp

Output File: PARKEREARTH8-22-16.log

```

1      1      1
1      2      2
1      3      3 Earthwork
1      4      4
1      5      5 tolerance = 0.010000
1      6      6
1      7      7 vertical search distance = 250.000000
1      8      8
1      9      9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Parker Sections.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         lvname = DESIGN - DRAINAGE - Special Ditches
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         lc = ByLevel
1     28     28         wt = ByLevel
1     29     29         co = 6,ByLevel
1     30     30
1     31     31     Write Earthwork Shapes
1     32     32         plot param
1     33     33             lv = 347
1     34     34             lvname = DESIGN - EARTHWORK - Shapes
1     35     35             co = ByLevel
1     36     36             wt = ByLevel
1     37     37             lc = ByLevel
1     38     38             Stratify Shape Color
1     39     39
1     40     40     combine common exc + subgrade exc + subsoil exc
1     41     41
1     42     42
1     43     43     Add Accumulated Adjusted Volume Column
1     44     44
1     45     45     Add Accumulated Unadjusted Volume Column
1     46     46
1     47     47     End Area Decimal Places = 0
1     48     48
1     49     49     write column base ascii file = ParkerEarth.txt
1     50     50
1     51     51     column 1 formula = abs( ["Earth", Common Exc, End Area] )
1     52     52     column 1 number of decimal place = 0
1     53     53     column 1 total length = 10
1     54     54
1     55     55     column 2 formula = abs( ["Earth", Fill, End Area] )
1     56     56     column 2 number of decimal place = 0
1     57     57     column 2 total length = 10
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 48 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

1 58 58
 1 59 59
 1 60 60 Process Earthwork for Baseline = DPARKER
 1 61 61 job number = 126
 1 62 62
 1 63 63 beg sta = 50+00.00 R 1
 1 64 64 end sta = 56+00.00 R 1
 0 0 65 END_OF_FILE

COMPUTING EARTHWORKS FOR BASELINE = DPARKER
 COMPUTING EARTHWORKS FOR JOB = 126
 FORMING LIST OF XSCCELLS
 BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
50+25.00	EARTH							
	Excavation	24	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
50+50.00	EARTH							
	Excavation	25	23	23	1.00		23	23
	Fill	0	0	0	1.00	23	0	0
51+00.00	EARTH							
	Excavation	29	50	50	1.00		73	73
	Fill	0	0	0	1.00	73	0	0
51+50.00	EARTH							
	Excavation	30	55	55	1.00		128	128
	Fill	1	1	1	1.00	127	1	1
52+00.00	EARTH							
	Excavation	13	40	40	1.00		168	168
	Fill	69	65	65	1.00	102	66	66
52+50.00	EARTH							
	Excavation	40	49	49	1.00		217	217
	Fill	177	228	228	1.00	-77	294	294
53+00.00	EARTH							
	Excavation	41	75	75	1.00		292	292
	Fill	196	345	345	1.00	-347	639	639
53+50.00	EARTH							
	Excavation	14	51	51	1.00		343	343
	Fill	80	256	256	1.00	-552	895	895
54+00.00	EARTH							
	Excavation	12	24	24	1.00		367	367
	Fill	36	107	107	1.00	-635	1002	1002
54+50.00	EARTH							
	Excavation	13	23	23	1.00		390	390
	Fill	2	35	35	1.00	-647	1037	1037
55+00.00	EARTH							
	Excavation	31	41	41	1.00		431	431

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 49 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Fill	0	2	2	1.00	-608	1039	1039
55+50.00 EARTH							
Excavation	16	44	44	1.00		475	475
Fill	0	0	0	1.00	-564	1039	1039

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		475	475	1.00	
Fill		1039	1039	1.00	

S P L I T		S U M M A R Y		T O T A L S		
Material Name		XS Quant	XS Quant	Add/Sub Quant	Add/Sub Quant	
		Unadjusted	Adjusted	Unadjusted	Adjusted	Mult
		Volume	Volume	Volume	Volume	Factor
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

EARTH						
	Excavation	475	475	0	0	1.00
	Fill	1039	1039	0	0	1.00

B A L A N C E		P O I N T S U M M A R Y				
Material Name		Cumulative		Incremental		Mult
		Unadjusted	Adjusted	Unadjusted	Adjusted	Factor
		Volumes	Volumes	Volumes	Volumes	
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	
-----		-----	-----	-----	-----	-----
Station = 52+28.49						
EARTH						
	Excavation	196	196	196	196	1.00
	Fill	196	196	196	196	1.00

Input File: ewkprj.inp

Output File: CONWAYEARTH8-22-16.log

```

1  1  1
1  2  2
1  3  3 Earthwork
1  4  4
1  5  5 tolerance = 0.010000
1  6  6
1  7  7 vertical search distance = 250.000000
1  8  8
1  9  9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Conway Sections.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
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 50 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  18  18          lvname = DESIGN - DRAINAGE - Special Ditches
1  19  19          lvname = DESIGN - PROFILE - Proposed
1  20  20          lc = 0,ByLevel
1  21  21          wt = 4,7,ByLevel
1  22  22
1  23  23      Existing Ground Line
1  24  24          soil type = Earth
1  25  25          roadway exc mult factor = 1.000000
1  26  26          subsoil exc mult factor = 1.000000
1  27  27          fill mult factor = 1.000000
1  28  28          type = line_string
1  29  29          lvname = SURVEY - GROUND - Top of Ground
1  30  30          lc = 3
1  31  31          wt = 2
1  32  32          co = 0
1  33  33
1  34  34      Write Earthwork Shapes
1  35  35          plot param
1  36  36          lv = 347
1  37  37          lvname = DESIGN - EARTHWORK - Shapes
1  38  38          co = ByLevel
1  39  39          wt = ByLevel
1  40  40          lc = ByLevel
1  41  41          Stratify Shape Color
1  42  42
1  43  43      combine common exc + subgrade exc + subsoil exc
1  44  44
1  45  45
1  46  46      Add Accumulated Adjusted Volume Column
1  47  47
1  48  48      Add Accumulated Unadjusted Volume Column
1  49  49
1  50  50      End Area Decimal Places = 0
1  51  51
1  52  52      write column base ascii file = CONWAYEarth.txt
1  53  53
1  54  54      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  55  55      column 1 number of decimal place = 0
1  56  56      column 1 total length = 10
1  57  57
1  58  58      column 2 formula = abs( ["Earth", Fill, End Area] )
1  59  59      column 2 number of decimal place = 0
1  60  60      column 2 total length = 10
1  61  61
1  62  62
1  63  63      Process Earthwork for Baseline = DCONWAY
1  64  64          job number = 126
1  65  65
1  66  66          beg sta = 50+50.00 R 1
1  67  67          end sta = 52+50.00 R 1
0    0    68 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DCONWAY
 COMPUTING EARTHWORKS FOR JOB = 126
 FORMING LIST OF XSCCELLS
 BEGINNING EARTHWORKS COMPUTATION

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 51 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
50+50.00	EARTH							
	Excavation	185	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
51+00.00	EARTH							
	Excavation	116	279	279	1.00		279	279
	Fill	0	0	0	1.00	279	0	0
51+50.00	EARTH							
	Excavation	58	161	161	1.00		440	440
	Fill	0	0	0	1.00	440	0	0
52+00.00	EARTH							
	Excavation	23	75	75	1.00		515	515
	Fill	3	3	3	1.00	512	3	3
52+25.00	EARTH							
	Excavation	23	21	21	1.00		536	536
	Fill	0	1	1	1.00	532	4	4
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		536	536	1.00			
	Fill		4	4	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 Unadjusted Volume (cu. yd.)	Add/Sub Adjusted Volume (cu. yd.)	Mult Factor	
EARTH								
	Excavation		536	536	0	0	1.00	
	Fill		4	4	0	0	1.00	

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 52 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Input File: ewkprj.inp

Output File: WOODSIDE EARTH8-22-16.log

```

1      1      1
1      2      2
1      3      3 Earthwork
1      4      4
1      5      5 tolerance = 0.010000
1      6      6
1      7      7 vertical search distance = 250.000000
1      8      8
1      9      9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Woodside Sections.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         lvname = DESIGN - DRAINAGE - Special Ditches
1     19     19         lc = 0,ByLevel
1     20     20         wt = 4,ByLevel
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 = ByLevel
1     38     38             wt = ByLevel
1     39     39             lc = ByLevel
1     40     40             Stratify Shape Color
1     41     41
1     42     42     combine common exc + subgrade exc + subsoil exc
1     43     43
1     44     44
1     45     45     Add Accumulated Adjusted Volume Column
1     46     46
1     47     47     Add Accumulated Unadjusted Volume Column
1     48     48
1     49     49     End Area Decimal Places = 0
1     50     50
1     51     51     write column base ascii file = WOODSIDEEarth.txt
1     52     52
1     53     53     column 1 formula = abs( ["Earth", Common Exc, End Area] )
1     54     54     column 1 number of decimal place = 0
1     55     55     column 1 total length = 10
1     56     56
1     57     57     column 2 formula = abs( ["Earth", Fill, End Area] )
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 53 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

1 58 58 column 2 number of decimal place = 0
 1 59 59 column 2 total length = 10
 1 60 60
 1 61 61
 1 62 62 Process Earthwork for Baseline = DWOODSIDE
 1 63 63 job number = 126
 1 64 64
 1 65 65 beg sta = 47+00.00 R 1
 1 66 66 end sta = 50+00.00 R 1
 0 0 67 END_OF_FILE

COMPUTING EARTHWORKS FOR BASELINE = DWOODSIDE
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
47+00.00	EARTH							
	Excavation	31	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
47+50.00	EARTH							
	Excavation	25	52	52	1.00		52	52
	Fill	0	0	0	1.00	52	0	0
48+00.00	EARTH							
	Excavation	1	24	24	1.00		76	76
	Fill	19	18	18	1.00	58	18	18
48+50.00	EARTH							
	Excavation	17	17	17	1.00		93	93
	Fill	62	75	75	1.00	0	93	93
49+00.00	EARTH							
	Excavation	0	16	16	1.00		109	109
	Fill	110	159	159	1.00	-143	252	252
49+50.00	EARTH							
	Excavation	0	0	0	1.00		109	109
	Fill	68	165	165	1.00	-308	417	417
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		109	109	1.00			
	Fill		417	417	1.00			

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **54** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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

EARTH						
Excavation	109	109	0	0	1.00	
Fill	417	417	0	0	1.00	

Material Name	B A L A N C E		P O I N T		S U M M A R Y	
	Cumulative		Incremental		Mult	Factor
	Unadjusted	Adjusted	Unadjusted	Adjusted		
	Volumes	Volumes	Volumes	Volumes		
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)		

Station = 48+50.00						
EARTH						
Excavation	93	93	93	93	1.00	
Fill	93	93	93	93	1.00	

Input File: ewkprj.inp

Output File: OREBANKEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Orebank Cross Sections.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 - EARTHWORK - Special Tie to Ground
1 18 18 lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
1 19 19 lvname = DESIGN - DRAINAGE - Special Ditches
1 20 20 lc = 0,ByLevel
1 21 21 wt = 2,4,ByLevel
1 22 22 co = 1-160,ByLevel
1 23 23
1 24 24 Existing Ground Line
1 25 25 soil type = Earth
1 26 26 roadway exc mult factor = 1.000000
1 27 27 subsoil exc mult factor = 1.000000
1 28 28 fill mult factor = 1.000000
1 29 29 type = line, line_string
1 30 30 lvname = SURVEY - GROUND - Top of Ground
1 31 31 lc = ByLevel
1 32 32 wt = ByLevel
1 33 33 co = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 55 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  34  34
1  35  35      Write Earthwork Shapes
1  36  36          plot param
1  37  37              lv = 347
1  38  38              lvname = DESIGN - EARTHWORK - Shapes
1  39  39              co = ByLevel
1  40  40              wt = ByLevel
1  41  41              lc = ByLevel
1  42  42              Stratify Shape Color
1  43  43
1  44  44      combine common exc + subgrade exc + subsoil exc
1  45  45
1  46  46
1  47  47      Add Accumulated Adjusted Volume Column
1  48  48
1  49  49      Add Accumulated Unadjusted Volume Column
1  50  50
1  51  51      End Area Decimal Places = 0
1  52  52
1  53  53      write column base ascii file = OrebankEarth.txt
1  54  54
1  55  55      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  56  56      column 1 number of decimal place = 0
1  57  57      column 1 total length = 10
1  58  58
1  59  59      column 2 formula = abs( ["Earth", Fill, End Area] )
1  60  60      column 2 number of decimal place = 0
1  61  61      column 2 total length = 10
1  62  62
1  63  63
1  64  64      Process Earthwork for Baseline = DOREBANK
1  65  65          job number = 126
1  66  66
1  67  67          beg sta = 42+50.00 R 1
1  68  68          end sta = 50+00.00 R 1
0   0   69 END_OF_FILE
  
```

COMPUTING EARTHWORKS FOR BASELINE = DOREBANK
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
43+00.00	EARTH							
	Excavation	26	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
43+50.00	EARTH							
	Excavation	194	204	204	1.00		204	204
	Fill	7	6	6	1.00	198	6	6
44+00.00	EARTH							
	Excavation	39	216	216	1.00		420	420
	Fill	0	6	6	1.00	408	12	12

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **56** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

44+50.00 EARTH								
Excavation	45	78	78	1.00		498	498	
Fill	19	18	18	1.00	468	30	30	
45+00.00 EARTH								
Excavation	38	77	77	1.00		575	575	
Fill	24	40	40	1.00	505	70	70	
45+50.00 EARTH								
Excavation	55	86	86	1.00		661	661	
Fill	123	136	136	1.00	455	206	206	
46+00.00 EARTH								
Excavation	51	98	98	1.00		759	759	
Fill	828	881	881	1.00	-328	1087	1087	
46+50.00 EARTH								
Excavation	0	47	47	1.00		806	806	
Fill	1549	2201	2201	1.00	-2482	3288	3288	
47+00.00 EARTH								
Excavation	35	32	32	1.00		838	838	
Fill	2207	3478	3478	1.00	-5928	6766	6766	
47+50.00 EARTH								
Excavation	183	202	202	1.00		1040	1040	
Fill	2525	4381	4381	1.00	-10107	11147	11147	
48+00.00 EARTH								
Excavation	198	353	353	1.00		1393	1393	
Fill	2490	4644	4644	1.00	-14398	15791	15791	
48+50.00 EARTH								
Excavation	0	183	183	1.00		1576	1576	
Fill	4471	6445	6445	1.00	-20660	22236	22236	
49+00.00 EARTH								
Excavation	0	0	0	1.00		1576	1576	
Fill	3671	7539	7539	1.00	-28199	29775	29775	
49+50.00 EARTH								
Excavation	0	0	0	1.00		1576	1576	
Fill	1254	4560	4560	1.00	-32759	34335	34335	

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	1576	1576	1.00	
	Fill	34335	34335	1.00	

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 57 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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

EARTH						
Excavation	1576	1576	0	0	1.00	
Fill	34335	34335	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 Factor
	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	
	-----	-----	-----	-----	
Station = 45+79.05					
EARTH					
Excavation	718	718	718	718	1.00
Fill	718	718	718	718	1.00

Input File: ewkprj.inp

Output File: LYNNBROOKEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Lynnbrook Cross Sections.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,ByLevel
1 19 19 wt = 4,ByLevel
1 20 20
1 21 21 Existing Ground Line
1 22 22 soil type = Earth
1 23 23 roadway exc mult factor = 1.000000
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 = ByLevel
1 29 29 wt = ByLevel
1 30 30 co = ByLevel
1 31 31
1 32 32 Write Earthwork Shapes
1 33 33 plot param
1 34 34 lv = 347
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **58** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  35  35          lvname = DESIGN - EARTHWORK - Shapes
1  36  36          co = ByLevel
1  37  37          wt = ByLevel
1  38  38          lc = ByLevel
1  39  39          Stratify Shape Color
1  40  40
1  41  41          combine common exc + subgrade exc + subsoil exc
1  42  42
1  43  43
1  44  44          Add Accumulated Adjusted Volume Column
1  45  45
1  46  46          Add Accumulated Unadjusted Volume Column
1  47  47
1  48  48          End Area Decimal Places = 0
1  49  49
1  50  50          write column base ascii file = LynnbrookEarth.txt
1  51  51
1  52  52          column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  53  53          column 1 number of decimal place = 0
1  54  54          column 1 total length = 10
1  55  55
1  56  56          column 2 formula = abs( ["Earth", Fill, End Area] )
1  57  57          column 2 number of decimal place = 0
1  58  58          column 2 total length = 10
1  59  59
1  60  60
1  61  61          Process Earthwork for Baseline = DLYNNBROOK
1  62  62          job number = 126
1  63  63
1  64  64          beg sta = 10+00.00 R 1
1  65  65          end sta = 12+00.00 R 1
0   0   66 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DLYNNBROOK
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)

10+50.00	EARTH							
	Excavation	64	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
11+00.00	EARTH							
	Excavation	35	92	92	1.00		92	92
	Fill	0	0	0	1.00	92	0	0
11+25.00	EARTH							
	Excavation	39	34	34	1.00		126	126
	Fill	0	0	0	1.00	126	0	0

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 59 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		126	126	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		126	126	0	0	1.00
Fill		0	0	0	0	1.00

Input File: ewkprj.inp

Output File: HILLCRESTEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Hillcrest Cross Sections.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 - PROFILE - Proposed
1 18 18 lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
1 19 19 lc = 0
1 20 20 wt = 4,10
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 = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **60** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          wt = ByLevel
1  39  39          lc = ByLevel
1  40  40          Stratify Shape Color
1  41  41
1  42  42      combine common exc + subgrade exc + subsoil exc
1  43  43
1  44  44
1  45  45      Add Accumulated Adjusted Volume Column
1  46  46
1  47  47      Add Accumulated Unadjusted Volume Column
1  48  48
1  49  49      End Area Decimal Places = 0
1  50  50
1  51  51      write column base ascii file = HillcrestEarth.txt
1  52  52
1  53  53      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  54  54      column 1 number of decimal place = 0
1  55  55      column 1 total length = 10
1  56  56
1  57  57      column 2 formula = abs( ["Earth", Fill, End Area] )
1  58  58      column 2 number of decimal place = 0
1  59  59      column 2 total length = 10
1  60  60
1  61  61
1  62  62      Process Earthwork for Baseline = DHILLCREST
1  63  63          job number = 126
1  64  64
1  65  65          beg sta = 50+00.00 R 1
1  66  66          end sta = 52+50.00 R 1
0   0   67 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DHILLCREST
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
50+50.00	EARTH							
	Excavation	77	0	0	1.00		0	0
	Fill	3	0	0	1.00	0	0	0
51+00.00	EARTH							
	Excavation	110	173	173	1.00		173	173
	Fill	0	3	3	1.00	170	3	3
51+50.00	EARTH							
	Excavation	51	149	149	1.00		322	322
	Fill	0	0	0	1.00	319	3	3

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **61** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		322	322	1.00		
Fill		3	3	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		322	322	0	0	1.00
Fill		3	3	0	0	1.00

Input File: ewkprj.inp

Output File: RAMPBEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Ramp B Sections.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,ByLevel
1 19 19 wt = 4,ByLevel
1 20 20
1 21 21 Existing Ground Line
1 22 22 soil type = Earth
1 23 23 roadway exc mult factor = 1.000000
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 = ByLevel
1 29 29 wt = ByLevel
1 30 30 co = ByLevel
1 31 31
1 32 32 Write Earthwork Shapes
1 33 33 plot param
1 34 34 lv = 347
1 35 35 lvname = DESIGN - EARTHWORK - Shapes
1 36 36 co = ByLevel
1 37 37 wt = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **62** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          lc = ByLevel
1  39  39          Stratify Shape Color
1  40  40
1  41  41      combine common exc + subgrade exc + subsoil exc
1  42  42
1  43  43
1  44  44      Add Accumulated Adjusted Volume Column
1  45  45
1  46  46      Add Accumulated Unadjusted Volume Column
1  47  47
1  48  48      End Area Decimal Places = 0
1  49  49
1  50  50      write column base ascii file = RampBEarth.txt
1  51  51
1  52  52      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  53  53      column 1 number of decimal place = 0
1  54  54      column 1 total length = 10
1  55  55
1  56  56      column 2 formula = abs( ["Earth", Fill, End Area] )
1  57  57      column 2 number of decimal place = 0
1  58  58      column 2 total length = 10
1  59  59
1  60  60
1  61  61      Process Earthwork for Baseline = DRAMPB
1  62  62          job number = 126
1  63  63
1  64  64          beg sta = 21+00.00 R 1
1  65  65          end sta = 22+50.00 R 1
0   0   66 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DRAMPB
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
21+00.00	EARTH							
	Excavation	83	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
21+50.00	EARTH							
	Excavation	91	161	161	1.00		161	161
	Fill	0	0	0	1.00	161	0	0
22+00.00	EARTH							
	Excavation	22	105	105	1.00		266	266
	Fill	0	0	0	1.00	266	0	0

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **63** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		266	266	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		266	266	0	0	1.00
Fill		0	0	0	0	1.00

Input File: ewkprj.inp

Output File: RAMPDEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Ramp D Sections.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 lvname = DESIGN - EARTHWORK - Special Tie to Ground
1 19 19 lc = 0,ByLevel
1 20 20 wt = 0,4
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 = 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 = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **64** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          wt = ByLevel
1  39  39          lc = ByLevel
1  40  40          Stratify Shape Color
1  41  41
1  42  42      combine common exc + subgrade exc + subsoil exc
1  43  43
1  44  44
1  45  45      Add Accumulated Adjusted Volume Column
1  46  46
1  47  47      Add Accumulated Unadjusted Volume Column
1  48  48
1  49  49      End Area Decimal Places = 0
1  50  50
1  51  51      write column base ascii file = RampDEarth.txt
1  52  52
1  53  53      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  54  54      column 1 number of decimal place = 0
1  55  55      column 1 total length = 10
1  56  56
1  57  57      column 2 formula = abs( ["Earth", Fill, End Area] )
1  58  58      column 2 number of decimal place = 0
1  59  59      column 2 total length = 10
1  60  60
1  61  61
1  62  62      Process Earthwork for Baseline = DRAMPD
1  63  63          job number = 126
1  64  64
1  65  65          beg sta = 37+50.00 R 1
1  66  66          end sta = 39+50.00 R 1
0   0   67 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DRAMPD
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
37+50.00	EARTH							
	Excavation	32	0	0	1.00		0	0
	Fill	351	0	0	1.00	0	0	0
38+00.00	EARTH							
	Excavation	30	57	57	1.00		57	57
	Fill	260	566	566	1.00	-509	566	566
38+50.00	EARTH							
	Excavation	33	58	58	1.00		115	115
	Fill	95	329	329	1.00	-780	895	895
39+00.00	EARTH							
	Excavation	74	99	99	1.00		214	214
	Fill	0	88	88	1.00	-769	983	983
39+50.00	EARTH							
	Excavation	251	301	301	1.00		515	515
	Fill	0	0	0	1.00	-468	983	983

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **65** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		515	515	1.00		
Fill		983	983	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		515	515	0	0	1.00
Fill		983	983	0	0	1.00

Input File: ewkprj.inp

Output File: RAMP AEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Ramp A Sections.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,ByLevel
1 19 19 wt = 4,7,ByLevel
1 20 20
1 21 21 Existing Ground Line
1 22 22 soil type = Earth
1 23 23 roadway exc mult factor = 1.000000
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 = ByLevel
1 29 29 wt = ByLevel
1 30 30 co = ByLevel
1 31 31
1 32 32 Write Earthwork Shapes
1 33 33 plot param
1 34 34 lv = 347
1 35 35 lvname = DESIGN - EARTHWORK - Shapes
1 36 36 co = ByLevel
1 37 37 wt = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **66** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          lc = ByLevel
1  39  39          Stratify Shape Color
1  40  40
1  41  41      combine common exc + subgrade exc + subsoil exc
1  42  42
1  43  43
1  44  44      Add Accumulated Adjusted Volume Column
1  45  45
1  46  46      Add Accumulated Unadjusted Volume Column
1  47  47
1  48  48      End Area Decimal Places = 0
1  49  49
1  50  50      write column base ascii file = RampAEarth.txt
1  51  51
1  52  52      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  53  53      column 1 number of decimal place = 0
1  54  54      column 1 total length = 10
1  55  55
1  56  56      column 2 formula = abs( ["Earth", Fill, End Area] )
1  57  57      column 2 number of decimal place = 0
1  58  58      column 2 total length = 10
1  59  59
1  60  60
1  61  61      Process Earthwork for Baseline = DRAMPA
1  62  62          job number = 126
1  63  63
1  64  64          beg sta = 8+50.00 R 1
1  65  65          end sta = 9+50.00 R 1
0   0   66 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DRAMPA
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
8+75.00	EARTH							
	Excavation	31	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
9+00.00	EARTH							
	Excavation	46	36	36	1.00		36	36
	Fill	0	0	0	1.00	36	0	0
9+50.00	EARTH							
	Excavation	43	82	82	1.00		118	118
	Fill	0	0	0	1.00	118	0	0

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 67 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		118	118	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		118	118	0	0	1.00
Fill		0	0	0	0	1.00

Input File: ewkprj.inp

Output File: RAMPCEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Ramp C Sections.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,ByLevel
1 19 19 wt = 4,ByLevel
1 20 20
1 21 21 Existing Ground Line
1 22 22 soil type = Earth
1 23 23 roadway exc mult factor = 1.000000
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 lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
1 29 29 lc = 3,ByLevel
1 30 30 wt = 4,ByLevel
1 31 31 co = 2,6,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 = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **68** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          wt = ByLevel
1  39  39          lc = ByLevel
1  40  40          Stratify Shape Color
1  41  41
1  42  42      combine common exc + subgrade exc + subsoil exc
1  43  43
1  44  44
1  45  45      Add Accumulated Adjusted Volume Column
1  46  46
1  47  47      Add Accumulated Unadjusted Volume Column
1  48  48
1  49  49      End Area Decimal Places = 0
1  50  50
1  51  51      write column base ascii file = RampCEarth.txt
1  52  52
1  53  53      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  54  54      column 1 number of decimal place = 0
1  55  55      column 1 total length = 10
1  56  56
1  57  57      column 2 formula = abs( ["Earth", Fill, End Area] )
1  58  58      column 2 number of decimal place = 0
1  59  59      column 2 total length = 10
1  60  60
1  61  61
1  62  62      Process Earthwork for Baseline = DRAMPC
1  63  63          job number = 126
1  64  64
1  65  65          beg sta = 30+00.00 R 1
1  66  66          end sta = 32+50.00 R 1
0   0   67 END_OF_FILE
  
```

COMPUTING EARTHWORKS FOR BASELINE = DRAMPC
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
30+00.00	EARTH							
	Excavation	0	0	0	1.00		0	0
	Fill	60	0	0	1.00	0	0	0
30+50.00	EARTH							
	Excavation	13	12	12	1.00		12	12
	Fill	65	116	116	1.00	-104	116	116
31+00.00	EARTH							
	Excavation	23	33	33	1.00		45	45
	Fill	39	96	96	1.00	-167	212	212
31+50.00	EARTH							
	Excavation	38	56	56	1.00		101	101
	Fill	16	51	51	1.00	-162	263	263
32+00.00	EARTH							
	Excavation	38	70	70	1.00		171	171
	Fill	0	15	15	1.00	-107	278	278

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 69 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

32+50.00 EARTH							
Excavation	34	67	67	1.00		238	238
Fill	0	0	0	1.00	-40	278	278

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		238	238	1.00		
Fill		278	278	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		238	238	0	0	1.00
Fill		278	278	0	0	1.00

Input File: ewkprj.inp

Output File: STRATFORDEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Stratford Sections.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 - EARTHWORK - Special Tie to Ground
1 18 18 lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
1 19 19 lc = 0
1 20 20 wt = 0,4
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
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **70** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  34  34      plot param
1  35  35      lv = 347
1  36  36      lvname = DESIGN - EARTHWORK - Shapes
1  37  37      co = ByLevel
1  38  38      wt = ByLevel
1  39  39      lc = ByLevel
1  40  40      Stratify Shape Color
1  41  41
1  42  42      combine common exc + subgrade exc + subsoil exc
1  43  43
1  44  44
1  45  45      Add Accumulated Adjusted Volume Column
1  46  46
1  47  47      Add Accumulated Unadjusted Volume Column
1  48  48
1  49  49      End Area Decimal Places = 0
1  50  50
1  51  51      write column base ascii file = STRATEarth.txt
1  52  52
1  53  53      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  54  54      column 1 number of decimal place = 0
1  55  55      column 1 total length = 10
1  56  56
1  57  57      column 2 formula = abs( ["Earth", Fill, End Area] )
1  58  58      column 2 number of decimal place = 0
1  59  59      column 2 total length = 10
1  60  60
1  61  61
1  62  62      Process Earthwork for Baseline = DSTRATFORD
1  63  63      job number = 126
1  64  64
1  65  65      beg sta = 50+50.00 R 1
1  66  66      end sta = 52+00.00 R 1
0   0   67 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DSTRATFORD
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
50+50.00	EARTH							
	Excavation	34	0	0	1.00		0	0
	Fill	35	0	0	1.00	0	0	0
51+00.00	EARTH							
	Excavation	38	67	67	1.00		67	67
	Fill	7	39	39	1.00	28	39	39
51+50.00	EARTH							
	Excavation	20	54	54	1.00		121	121
	Fill	0	6	6	1.00	76	45	45
51+60.00	EARTH							
	Excavation	20	7	7	1.00		128	128
	Fill	0	0	0	1.00	83	45	45

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **71** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		128	128	1.00		
Fill		45	45	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		128	128	0	0	1.00
Fill		45	45	0	0	1.00

Input File: ewkprj.inp

Output File: HEATHEREARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Heather Sections.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,ByLevel
1 19 19 wt = 4,ByLevel
1 20 20
1 21 21 Existing Ground Line
1 22 22 soil type = Earth
1 23 23 roadway exc mult factor = 1.000000
1 24 24 subsoil exc mult factor = 1.000000
1 25 25 fill mult factor = 1.000000
1 26 26 type = 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
1 31 31
1 32 32 Write Earthwork Shapes
1 33 33 plot param
1 34 34 lv = 347
1 35 35 lvname = DESIGN - EARTHWORK - Shapes
1 36 36 co = ByLevel
1 37 37 wt = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 72 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          lc = ByLevel
1  39  39          Stratify Shape Color
1  40  40
1  41  41      combine common exc + subgrade exc + subsoil exc
1  42  42
1  43  43
1  44  44      Add Accumulated Adjusted Volume Column
1  45  45
1  46  46      Add Accumulated Unadjusted Volume Column
1  47  47
1  48  48      End Area Decimal Places = 0
1  49  49
1  50  50      write column base ascii file = HEATHEREarth.txt
1  51  51
1  52  52      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  53  53      column 1 number of decimal place = 0
1  54  54      column 1 total length = 10
1  55  55
1  56  56      column 2 formula = abs( ["Earth", Fill, End Area] )
1  57  57      column 2 number of decimal place = 0
1  58  58      column 2 total length = 10
1  59  59
1  60  60
1  61  61      Process Earthwork for Baseline = DHEATHERA1
1  62  62          job number = 126
1  63  63
1  64  64          beg sta = 47+50.00 R 1
1  65  65          end sta = 49+50.00 R 1
0   0   66 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DHEATHERA1
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
47+50.00	EARTH							
	Excavation	21	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
48+00.00	EARTH							
	Excavation	51	67	67	1.00		67	67
	Fill	1	1	1	1.00	66	1	1
48+50.00	EARTH							
	Excavation	66	108	108	1.00		175	175
	Fill	10	10	10	1.00	164	11	11
49+00.00	EARTH							
	Excavation	15	75	75	1.00		250	250
	Fill	103	105	105	1.00	134	116	116
49+50.00	EARTH							
	Excavation	0	14	14	1.00		264	264
	Fill	120	206	206	1.00	-58	322	322

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 73 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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	264	264	1.00	
	Fill	322	322	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		264	264	0	0	1.00
Fill		322	322	0	0	1.00

B A L A N C E		P O I N T S U M M A R Y				
Material Name		Cumulative		Incremental		Mult
		Unadjusted	Adjusted	Unadjusted	Adjusted	Factor
		Volumes	Volumes	Volumes	Volumes	
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	
-----		-----	-----	-----	-----	-----
Station = 49+34.90						
EARTH						
Excavation		260	260	260	260	1.00
Fill		260	260	260	260	1.00

Input File: ewkprj.inp

Output File: MILTONEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Milton Sections.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,ByLevel
1 19 19 wt = 4,ByLevel
1 20 20
1 21 21 Existing Ground Line
1 22 22 soil type = Earth
1 23 23 roadway exc mult factor = 1.000000
1 24 24 subsoil exc mult factor = 1.000000
1 25 25 fill mult factor = 1.000000
1 26 26 type = line_string
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 74 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  27  27          lvname = SURVEY - GROUND - Top of Ground
1  28  28          lc = 3
1  29  29          wt = 2
1  30  30          co = 0
1  31  31
1  32  32      Write Earthwork Shapes
1  33  33          plot param
1  34  34          lv = 347
1  35  35          lvname = DESIGN - EARTHWORK - Shapes
1  36  36          co = ByLevel
1  37  37          wt = ByLevel
1  38  38          lc = ByLevel
1  39  39          Stratify Shape Color
1  40  40
1  41  41      combine common exc + subgrade exc + subsoil exc
1  42  42
1  43  43
1  44  44      Add Accumulated Adjusted Volume Column
1  45  45
1  46  46      Add Accumulated Unadjusted Volume Column
1  47  47
1  48  48      End Area Decimal Places = 0
1  49  49
1  50  50      write column base ascii file = MILTONEarth.txt
1  51  51
1  52  52      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  53  53      column 1 number of decimal place = 0
1  54  54      column 1 total length = 10
1  55  55
1  56  56      column 2 formula = abs( ["Earth", Fill, End Area] )
1  57  57      column 2 number of decimal place = 0
1  58  58      column 2 total length = 10
1  59  59
1  60  60
1  61  61      Process Earthwork for Baseline = DHEATHERA1
1  62  62          job number = 126
1  63  63
1  64  64          beg sta = 50+50.00 R 1
1  65  65          end sta = 51+00.00 R 1
0   0   66 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DHEATHERA1

COMPUTING EARTHWORKS FOR JOB = 126

FORMING LIST OF XSCCELLS

BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)

50+50.00	EARTH							
	Excavation	19	0	0	1.00		0	0
	Fill	30	0	0	1.00	0	0	0
51+00.00	EARTH							
	Excavation	25	41	41	1.00		41	41
	Fill	0	28	28	1.00	13	28	28

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 75 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		41	41	1.00		
Fill		28	28	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		41	41	0	0	1.00
Fill		28	28	0	0	1.00

Input File: ewkprj.inp

Output File: KITEEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Kite Cross Sections.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 lvname = DESIGN - DRAINAGE - Special Ditches
1 19 19 lc = 0,ByLevel
1 20 20 wt = 4,ByLevel
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
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 = ByLevel

```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 76 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          wt = ByLevel
1  39  39          lc = ByLevel
1  40  40          Stratify Shape Color
1  41  41
1  42  42      combine common exc + subgrade exc + subsoil exc
1  43  43
1  44  44
1  45  45      Add Accumulated Adjusted Volume Column
1  46  46
1  47  47      Add Accumulated Unadjusted Volume Column
1  48  48
1  49  49      End Area Decimal Places = 0
1  50  50
1  51  51      write column base ascii file = KiteEarth.txt
1  52  52
1  53  53      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  54  54      column 1 number of decimal place = 0
1  55  55      column 1 total length = 10
1  56  56
1  57  57      column 2 formula = abs( ["Earth", Fill, End Area] )
1  58  58      column 2 number of decimal place = 0
1  59  59      column 2 total length = 10
1  60  60
1  61  61
1  62  62      Process Earthwork for Baseline = KITE
1  63  63          job number = 126
1  64  64
1  65  65          beg sta = 50+00.00 R 1
1  66  66          end sta = 53+50.00 R 1
0   0   67 END_OF_FILE
  
```

COMPUTING EARTHWORKS FOR BASELINE = KITE
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
50+50.00	EARTH							
	Excavation	0	0	0	1.00		0	0
	Fill	157	0	0	1.00	0	0	0
51+00.00	EARTH							
	Excavation	412	381	381	1.00		381	381
	Fill	305	428	428	1.00	-47	428	428
51+50.00	EARTH							
	Excavation	7	388	388	1.00		769	769
	Fill	950	1162	1162	1.00	-821	1590	1590
52+00.00	EARTH							
	Excavation	14	19	19	1.00		788	788
	Fill	193	1058	1058	1.00	-1860	2648	2648
52+50.00	EARTH							
	Excavation	14	26	26	1.00		814	814
	Fill	2	181	181	1.00	-2015	2829	2829

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 77 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		814	814	1.00		
Fill		2829	2829	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		814	814	0	0	1.00
Fill		2829	2829	0	0	1.00

Input File: ewkprj.inp

Output File: BEVBERLYEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Beverly Cross Sections.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,ByLevel
1 19 19 wt = 4,ByLevel
1 20 20
1 21 21 Existing Ground Line
1 22 22 soil type = Earth
1 23 23 roadway exc mult factor = 1.000000
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 = 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 = 347
1 35 35 lvname = DESIGN - EARTHWORK - Shapes
1 36 36 co = ByLevel
1 37 37 wt = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **78** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          lc = ByLevel
1  39  39          Stratify Shape Color
1  40  40
1  41  41      combine common exc + subgrade exc + subsoil exc
1  42  42
1  43  43
1  44  44      Add Accumulated Adjusted Volume Column
1  45  45
1  46  46      Add Accumulated Unadjusted Volume Column
1  47  47
1  48  48      End Area Decimal Places = 0
1  49  49
1  50  50      write column base ascii file = BeverlyEarth.txt
1  51  51
1  52  52      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  53  53      column 1 number of decimal place = 0
1  54  54      column 1 total length = 10
1  55  55
1  56  56      column 2 formula = abs( ["Earth", Fill, End Area] )
1  57  57      column 2 number of decimal place = 0
1  58  58      column 2 total length = 10
1  59  59
1  60  60
1  61  61      Process Earthwork for Baseline = ALTBEVHILLS
1  62  62          job number = 126
1  63  63
1  64  64          beg sta = 48+00.00 R 1
1  65  65          end sta = 49+50.00 R 1
0   0   66 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = ALTBEVHILLS
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
48+60.00	EARTH							
	Excavation	18	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
49+00.00	EARTH							
	Excavation	102	89	89	1.00		89	89
	Fill	1	1	1	1.00	88	1	1
49+50.00	EARTH							
	Excavation	0	94	94	1.00		183	183
	Fill	65	61	61	1.00	121	62	62

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 79 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		183	183	1.00		
Fill		62	62	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		183	183	0	0	1.00
Fill		62	62	0	0	1.00

Input File: ewkprj.inp

Output File: GLENWOODEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Glenwood Cross Sections.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,ByLevel
1 19 19 wt = 4,ByLevel
1 20 20
1 21 21 Existing Ground Line
1 22 22 soil type = Earth
1 23 23 roadway exc mult factor = 1.000000
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 = 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 = 347
1 35 35 lvname = DESIGN - EARTHWORK - Shapes
1 36 36 co = ByLevel
1 37 37 wt = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **80** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          lc = ByLevel
1  39  39          Stratify Shape Color
1  40  40
1  41  41      combine common exc + subgrade exc + subsoil exc
1  42  42
1  43  43
1  44  44      Add Accumulated Adjusted Volume Column
1  45  45
1  46  46      Add Accumulated Unadjusted Volume Column
1  47  47
1  48  48      End Area Decimal Places = 0
1  49  49
1  50  50      write column base ascii file = GlenwoodEarth.txt
1  51  51
1  52  52      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  53  53      column 1 number of decimal place = 0
1  54  54      column 1 total length = 10
1  55  55
1  56  56      column 2 formula = abs( ["Earth", Fill, End Area] )
1  57  57      column 2 number of decimal place = 0
1  58  58      column 2 total length = 10
1  59  59
1  60  60
1  61  61      Process Earthwork for Baseline = ALTGLEN
1  62  62          job number = 126
1  63  63
1  64  64          beg sta = 47+50.00 R 1
1  65  65          end sta = 49+50.00 R 1
0   0   66 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = ALTGLEN
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
48+00.00	EARTH							
	Excavation	36	0	0	1.00		0	0
	Fill	9	0	0	1.00	0	0	0
48+50.00	EARTH							
	Excavation	18	50	50	1.00		50	50
	Fill	23	30	30	1.00	20	30	30
49+00.00	EARTH							
	Excavation	1	18	18	1.00		68	68
	Fill	11	31	31	1.00	7	61	61
49+50.00	EARTH							
	Excavation	3	4	4	1.00		72	72
	Fill	29	37	37	1.00	-26	98	98

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **81** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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	72	72	1.00	
	Fill	98	98	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		72	72	0	0	1.00
Fill		98	98	0	0	1.00

B A L A N C E		P O I N T S U M M A R Y				
Material Name		Cumulative		Incremental		Mult
		Unadjusted	Adjusted	Unadjusted	Adjusted	Factor
		Volumes	Volumes	Volumes	Volumes	
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	
-----		-----	-----	-----	-----	-----
Station = 49+10.61						
EARTH						
	Excavation	69	69	69	69	1.00
	Fill	69	69	69	69	1.00

Input File: ewkprj.inp

Output File: WOODRIDGEEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Woodridge Cross Sections.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 - EARTHWORK - Special Tie to Ground
1 18 18 lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
1 19 19 lc = 0
1 20 20 wt = 0,4
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
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **82** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

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 = ByLevel
1  38  38          wt = ByLevel
1  39  39          lc = ByLevel
1  40  40          Stratify Shape Color
1  41  41
1  42  42      combine common exc + subgrade exc + subsoil exc
1  43  43
1  44  44
1  45  45      Add Accumulated Adjusted Volume Column
1  46  46
1  47  47      Add Accumulated Unadjusted Volume Column
1  48  48
1  49  49      End Area Decimal Places = 0
1  50  50
1  51  51      write column base ascii file = WoodridgeEarth.txt
1  52  52
1  53  53      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  54  54      column 1 number of decimal place = 0
1  55  55      column 1 total length = 10
1  56  56
1  57  57      column 2 formula = abs( ["Earth", Fill, End Area] )
1  58  58      column 2 number of decimal place = 0
1  59  59      column 2 total length = 10
1  60  60
1  61  61
1  62  62      Process Earthwork for Baseline = OPT2WOOD
1  63  63          job number = 126
1  64  64
1  65  65          beg sta = 44+50.00 R 1
1  66  66          end sta = 50+00.00 R 1
0   0   67 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = OPT2WOOD

COMPUTING EARTHWORKS FOR JOB = 126

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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
44+50.00	EARTH							
	Excavation	25	0	0	1.00		0	0
	Fill	1	0	0	1.00	0	0	0
45+00.00	EARTH							
	Excavation	4	27	27	1.00		27	27
	Fill	154	144	144	1.00	-117	144	144
45+50.00	EARTH							
	Excavation	5	8	8	1.00		35	35

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **83** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

	Fill	211	338	338	1.00	-447	482	482
46+00.00	EARTH							
	Excavation	5	9	9	1.00		44	44
	Fill	668	814	814	1.00	-1252	1296	1296
46+50.00	EARTH							
	Excavation	62	62	62	1.00		106	106
	Fill	698	1265	1265	1.00	-2455	2561	2561
47+00.00	EARTH							
	Excavation	18	74	74	1.00		180	180
	Fill	1437	1977	1977	1.00	-4358	4538	4538
47+50.00	EARTH							
	Excavation	18	33	33	1.00		213	213
	Fill	2845	3965	3965	1.00	-8290	8503	8503
48+00.00	EARTH							
	Excavation	18	33	33	1.00		246	246
	Fill	3123	5526	5526	1.00	-13783	14029	14029
48+50.00	EARTH							
	Excavation	15	31	31	1.00		277	277
	Fill	1868	4621	4621	1.00	-18373	18650	18650
49+00.00	EARTH							
	Excavation	12	25	25	1.00		302	302
	Fill	2139	3710	3710	1.00	-22058	22360	22360
49+50.00	EARTH							
	Excavation	0	11	11	1.00		313	313
	Fill	1203	3094	3094	1.00	-25141	25454	25454

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		313	313	1.00		
Fill		25454	25454	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		313	313	0	0	1.00
Fill		25454	25454	0	0	1.00

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **84** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Input File: ewkprj.inp

Output File: AMYEARTH8-22-16.log

```

1      1      1
1      2      2
1      3      3 Earthwork
1      4      4
1      5      5 tolerance = 0.010000
1      6      6
1      7      7 vertical search distance = 250.000000
1      8      8
1      9      9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Amy Cross Sections.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         lvname = DESIGN - DRAINAGE - Special Ditches
1     19     19         lvname = DESIGN - EARTHWORK - Special Tie to Ground
1     20     20         lc = 0,ByLevel
1     21     21         wt = 4,ByLevel
1     22     22
1     23     23     Existing Ground Line
1     24     24         soil type = Earth
1     25     25         roadway exc mult factor = 1.000000
1     26     26         subsoil exc mult factor = 1.000000
1     27     27         fill mult factor = 1.000000
1     28     28         type = line, line_string
1     29     29         lvname = SURVEY - GROUND - Top of Ground
1     30     30         lc = ByLevel
1     31     31         wt = ByLevel
1     32     32         co = 0,6
1     33     33
1     34     34     Write Earthwork Shapes
1     35     35         plot param
1     36     36             lv = 347
1     37     37             lvname = DESIGN - EARTHWORK - Shapes
1     38     38             co = ByLevel
1     39     39             wt = ByLevel
1     40     40             lc = ByLevel
1     41     41             Stratify Shape Color
1     42     42
1     43     43     combine common exc + subgrade exc + subsoil exc
1     44     44
1     45     45
1     46     46     Add Accumulated Adjusted Volume Column
1     47     47
1     48     48     Add Accumulated Unadjusted Volume Column
1     49     49
1     50     50     End Area Decimal Places = 0
1     51     51
1     52     52     write column base ascii file = AmyEarth.txt
1     53     53
1     54     54     column 1 formula = abs( ["Earth", Common Exc, End Area] )
1     55     55     column 1 number of decimal place = 0
1     56     56     column 1 total length = 10
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **85** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  57  57
1  58  58      column 2 formula = abs( ["Earth", Fill, End Area]  )
1  59  59      column 2 number of decimal place = 0
1  60  60      column 2 total length = 10
1  61  61
1  62  62
1  63  63      Process Earthwork for Baseline = OPT2AMY
1  64  64          job number = 126
1  65  65
1  66  66          beg sta = 243+50.00 R 1
1  67  67          end sta = 250+00.00 R 1
0   0   68 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = OPT2AMY
 COMPUTING EARTHWORKS FOR JOB = 126
 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	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
244+50.00	EARTH							
	Excavation	70	0	0	1.00		0	0
	Fill	1	0	0	1.00	0	0	0
245+00.00	EARTH							
	Excavation	148	202	202	1.00		202	202
	Fill	4	5	5	1.00	197	5	5
245+50.00	EARTH							
	Excavation	189	312	312	1.00		514	514
	Fill	6	9	9	1.00	500	14	14
246+00.00	EARTH							
	Excavation	219	378	378	1.00		892	892
	Fill	0	6	6	1.00	872	20	20
246+50.00	EARTH							
	Excavation	352	529	529	1.00		1421	1421
	Fill	0	0	0	1.00	1401	20	20
247+00.00	EARTH							
	Excavation	292	596	596	1.00		2017	2017
	Fill	29	27	27	1.00	1970	47	47
247+50.00	EARTH							
	Excavation	890	1094	1094	1.00		3111	3111
	Fill	111	130	130	1.00	2934	177	177
248+00.00	EARTH							
	Excavation	191	1001	1001	1.00		4112	4112
	Fill	524	588	588	1.00	3347	765	765
248+50.00	EARTH							
	Excavation	8	184	184	1.00		4296	4296
	Fill	1489	1864	1864	1.00	1667	2629	2629
249+00.00	EARTH							

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **86** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Excavation	0	7	7	1.00		4303	4303
Fill	2428	3627	3627	1.00	-1953	6256	6256

249+50.00 EARTH

Excavation	0	0	0	1.00		4303	4303
Fill	3421	5416	5416	1.00	-7369	11672	11672

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		4303	4303	1.00		
Fill		11672	11672	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		4303	4303	0	0	1.00
Fill		11672	11672	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.)	Adjusted Volumes (cu. yd.)	Incremental Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor

Station = 248+73.02

EARTH

Excavation		4299	4299	4299	4299	1.00
Fill		4299	4299	4299	4299	1.00

Input File: ewkprj.inp
 Output File: AMYCRTEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Amy Court Cross Sections.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 lvname = DESIGN - EARTHWORK - Special Tie to Ground
1 19 19 lc = 0,ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 87 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  20  20          wt = 4,ByLevel
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
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 = ByLevel
1  38  38          wt = ByLevel
1  39  39          lc = ByLevel
1  40  40          Stratify Shape Color
1  41  41
1  42  42      combine common exc + subgrade exc + subsoil exc
1  43  43
1  44  44
1  45  45      Add Accumulated Adjusted Volume Column
1  46  46
1  47  47      Add Accumulated Unadjusted Volume Column
1  48  48
1  49  49      End Area Decimal Places = 0
1  50  50
1  51  51      write column base ascii file = AmyCtEarth8-22-16.txt
1  52  52
1  53  53      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  54  54      column 1 number of decimal place = 0
1  55  55      column 1 total length = 10
1  56  56
1  57  57      column 2 formula = abs( ["Earth", Fill, End Area] )
1  58  58      column 2 number of decimal place = 0
1  59  59      column 2 total length = 10
1  60  60
1  61  61
1  62  62      Process Earthwork for Baseline = DAMYCOURT
1  63  63          job number = 126
1  64  64
1  65  65          beg sta = 350+50.00 R 1
1  66  66          end sta = 351+40.00 R 1
0   0   67 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DAMYCOURT
 COMPUTING EARTHWORKS FOR JOB = 126
 FORMING LIST OF XSCELLS

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **88** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
350+50.00	EARTH							
	Excavation	26	0	0	1.00		0	0
	Fill	20	0	0	1.00	0	0	0
351+00.00	EARTH							
	Excavation	165	177	177	1.00		177	177
	Fill	2	20	20	1.00	157	20	20
351+40.00	EARTH							
	Excavation	390	411	411	1.00		588	588
	Fill	0	1	1	1.00	567	21	21
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		588	588	1.00			
	Fill		21	21	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		588	588		0	0	1.00
	Fill		21	21		0	0	1.00

Input File: ewkprj.inp

Output File: TRINITYEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Trinity Cross Sections.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 lvname = DESIGN - EARTHWORK - Special Tie to Ground
1 19 19 lc = 0,ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 89 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  20  20          wt = 0,4,ByLevel
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_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 = ByLevel
1  38  38          wt = ByLevel
1  39  39          lc = ByLevel
1  40  40          Stratify Shape Color
1  41  41
1  42  42      combine common exc + subgrade exc + subsoil exc
1  43  43
1  44  44
1  45  45      Add Accumulated Adjusted Volume Column
1  46  46
1  47  47      Add Accumulated Unadjusted Volume Column
1  48  48
1  49  49      End Area Decimal Places = 0
1  50  50
1  51  51      write column base ascii file = TRINITYEarth.txt
1  52  52
1  53  53      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  54  54      column 1 number of decimal place = 0
1  55  55      column 1 total length = 10
1  56  56
1  57  57      column 2 formula = abs( ["Earth", Fill, End Area] )
1  58  58      column 2 number of decimal place = 0
1  59  59      column 2 total length = 10
1  60  60
1  61  61
1  62  62      Process Earthwork for Baseline = OPT3TRIN
1  63  63          job number = 126
1  64  64
1  65  65          beg sta = 145+50.00 R 1
1  66  66          end sta = 150+00.00 R 1
0   0   67 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = OPT3TRIN
 COMPUTING EARTHWORKS FOR JOB = 126
 FORMING LIST OF XSCELLS

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **90** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
146+50.00	EARTH							
	Excavation	115	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
147+00.00	EARTH							
	Excavation	140	236	236	1.00		236	236
	Fill	0	0	0	1.00	236	0	0
147+50.00	EARTH							
	Excavation	257	368	368	1.00		604	604
	Fill	0	0	0	1.00	604	0	0
148+00.00	EARTH							
	Excavation	548	745	745	1.00		1349	1349
	Fill	0	0	0	1.00	1349	0	0
148+50.00	EARTH							
	Excavation	862	1306	1306	1.00		2655	2655
	Fill	0	0	0	1.00	2655	0	0
149+00.00	EARTH							
	Excavation	883	1616	1616	1.00		4271	4271
	Fill	0	0	0	1.00	4271	0	0
149+50.00	EARTH							
	Excavation	891	1643	1643	1.00		5914	5914
	Fill	0	0	0	1.00	5914	0	0
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		5914	5914	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		5914	5914	0	0	1.00	
	Fill		0	0	0	0	1.00	

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 91 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Input File: ewkprj.inp

Output File: HARBOREARTH8-22-16.log

```

1      1      1
1      2      2
1      3      3 Earthwork
1      4      4
1      5      5 tolerance = 0.010000
1      6      6
1      7      7 vertical search distance = 250.000000
1      8      8
1      9      9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Harbor Chapel Sections.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,ByLevel
1     19     19         wt = 4,ByLevel
1     20     20
1     21     21     Existing Ground Line
1     22     22         soil type = Earth
1     23     23         roadway exc mult factor = 1.000000
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
1     31     31
1     32     32     Write Earthwork Shapes
1     33     33         plot param
1     34     34             lv = 347
1     35     35             lvname = DESIGN - EARTHWORK - Shapes
1     36     36             co = ByLevel
1     37     37             wt = ByLevel
1     38     38             lc = ByLevel
1     39     39             Stratify Shape Color
1     40     40
1     41     41     combine common exc + subgrade exc + subsoil exc
1     42     42
1     43     43
1     44     44     Add Accumulated Adjusted Volume Column
1     45     45
1     46     46     Add Accumulated Unadjusted Volume Column
1     47     47
1     48     48     End Area Decimal Places = 0
1     49     49
1     50     50     write column base ascii file = HarborEarth.txt
1     51     51
1     52     52     column 1 formula = abs( ["Earth", Common Exc, End Area] )
1     53     53     column 1 number of decimal place = 0
1     54     54     column 1 total length = 10
1     55     55
1     56     56     column 2 formula = abs( ["Earth", Fill, End Area] )
1     57     57     column 2 number of decimal place = 0
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 92 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

1 58 58 column 2 total length = 10
 1 59 59
 1 60 60
 1 61 61 Process Earthwork for Baseline = HARBORSEC2ALT2
 1 62 62 job number = 126
 1 63 63
 1 64 64 beg sta = 50+50.00 R 1
 1 65 65 end sta = 51+90.16 R 1
 0 0 66 END_OF_FILE

COMPUTING EARTHWORKS FOR BASELINE = HARBORSEC2ALT2
 COMPUTING EARTHWORKS FOR JOB = 126
 FORMING LIST OF XSCCELLS
 BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
50+50.00	EARTH							
	Excavation	238	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
51+00.00	EARTH							
	Excavation	39	256	256	1.00		256	256
	Fill	0	0	0	1.00	256	0	0
51+50.00	EARTH							
	Excavation	39	72	72	1.00		328	328
	Fill	0	0	0	1.00	328	0	0

G R A N D S U M M A R Y T O T A L S
 Material Name Unadjusted Volumes Adjusted Volumes Mult Factor
 (cu. yd.) (cu. yd.)

EARTH				
	Excavation	328	328	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 Adjusted Volume Add/Sub Quant Unadjusted Volume Adjusted Volume Mult Factor
 (cu. yd.) (cu. yd.) (cu. yd.) (cu. yd.)

EARTH							
	Excavation	328	328	0	0	1.00	
	Fill	0	0	0	0	1.00	

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 93 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

Input File: ewkprj.inp

Output File: BRIARWOODEARTH8-22-16.log

```

1      1      1
1      2      2
1      3      3 Earthwork
1      4      4
1      5      5 tolerance = 0.100000
1      6      6
1      7      7 vertical search distance = 250.000000
1      8      8
1      9      9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Briarwood Sections.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         lvname = DESIGN - EARTHWORK - Special Tie to Ground
1     19     19         lc = 0,ByLevel
1     20     20         wt = 0,4,ByLevel
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_string
1     28     28         lvname = SURVEY - GROUND - Top of Ground
1     29     29         lc = 3
1     30     30         wt = 2
1     31     31         co = 0
1     32     32
1     33     33     Write Earthwork Shapes
1     34     34         plot param
1     35     35             lv = 347
1     36     36             lvname = DESIGN - EARTHWORK - Shapes
1     37     37             co = ByLevel
1     38     38             wt = ByLevel
1     39     39             lc = ByLevel
1     40     40             Stratify Shape Color
1     41     41
1     42     42     combine common exc + subgrade exc + subsoil exc
1     43     43
1     44     44
1     45     45     Add Accumulated Adjusted Volume Column
1     46     46
1     47     47     Add Accumulated Unadjusted Volume Column
1     48     48
1     49     49     End Area Decimal Places = 0
1     50     50
1     51     51     write column base ascii file = BRIARWOODEarth.txt
1     52     52
1     53     53     column 1 formula = abs( ["Earth", Common Exc, End Area] )
1     54     54     column 1 number of decimal place = 0
1     55     55     column 1 total length = 10
1     56     56
1     57     57     column 2 formula = abs( ["Earth", Fill, End Area] )
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **94** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

1 58 58 column 2 number of decimal place = 0
 1 59 59 column 2 total length = 10
 1 60 60
 1 61 61
 1 62 62 Process Earthwork for Baseline = BRIARWOOD
 1 63 63 job number = 126
 1 64 64
 1 65 65 beg sta = 50+50.00 R 1
 1 66 66 end sta = 54+00.00 R 1
 0 0 67 END_OF_FILE

COMPUTING EARTHWORKS FOR BASELINE = BRIARWOOD
 COMPUTING EARTHWORKS FOR JOB = 126
 FORMING LIST OF XSCCELLS
 BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
50+50.00	EARTH							
	Excavation	24	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
51+00.00	EARTH							
	Excavation	27	47	47	1.00		47	47
	Fill	0	0	0	1.00	47	0	0
51+50.00	EARTH							
	Excavation	24	47	47	1.00		94	94
	Fill	0	0	0	1.00	94	0	0
52+00.00	EARTH							
	Excavation	4	26	26	1.00		120	120
	Fill	5	5	5	1.00	115	5	5
52+50.00	EARTH							
	Excavation	8	11	11	1.00		131	131
	Fill	2	6	6	1.00	120	11	11
53+00.00	EARTH							
	Excavation	20	26	26	1.00		157	157
	Fill	0	2	2	1.00	144	13	13
53+50.00	EARTH							
	Excavation	213	216	216	1.00		373	373
	Fill	0	0	0	1.00	360	13	13
54+00.00	EARTH							
	Excavation	20	216	216	1.00		589	589
	Fill	0	0	0	1.00	576	13	13

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **95** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		589	589	1.00		
Fill		13	13	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		589	589	0	0	1.00
Fill		13	13	0	0	1.00

Input File: ewkprj.inp

Output File: TANGLEWOODEARTH8-22-16.log

```

1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.010000
1 6 6
1 7 7 vertical search distance = 250.000000
1 8 8
1 9 9 xs dgn = T:\13150 - SR 126 Sullivan County\DGN\Xsects\Tanglewood Sections.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,ByLevel
1 19 19 wt = 4,ByLevel
1 20 20
1 21 21 Existing Ground Line
1 22 22 soil type = Earth
1 23 23 roadway exc mult factor = 1.000000
1 24 24 subsoil exc mult factor = 1.000000
1 25 25 fill mult factor = 1.000000
1 26 26 type = 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
1 31 31
1 32 32 Write Earthwork Shapes
1 33 33 plot param
1 34 34 lv = 347
1 35 35 lvname = DESIGN - EARTHWORK - Shapes
1 36 36 co = ByLevel
1 37 37 wt = ByLevel
    
```

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET 96 OF 97
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

```

1  38  38          lc = ByLevel
1  39  39          Stratify Shape Color
1  40  40
1  41  41      combine common exc + subgrade exc + subsoil exc
1  42  42
1  43  43
1  44  44      Add Accumulated Adjusted Volume Column
1  45  45
1  46  46      Add Accumulated Unadjusted Volume Column
1  47  47
1  48  48      End Area Decimal Places = 0
1  49  49
1  50  50      write column base ascii file = TANGLEWOODEarth.txt
1  51  51
1  52  52      column 1 formula = abs( ["Earth", Common Exc, End Area] )
1  53  53      column 1 number of decimal place = 0
1  54  54      column 1 total length = 10
1  55  55
1  56  56      column 2 formula = abs( ["Earth", Fill, End Area] )
1  57  57      column 2 number of decimal place = 0
1  58  58      column 2 total length = 10
1  59  59
1  60  60
1  61  61      Process Earthwork for Baseline = TANGLEWOOD
1  62  62          job number = 126
1  63  63
1  64  64          beg sta = 10+50.00 R 1
1  65  65          end sta = 12+00.00 R 1
0   0   66 END_OF_FILE
  
```

COMPUTING EARTHWORKS FOR BASELINE = TANGLEWOOD
 COMPUTING EARTHWORKS FOR JOB = 126
 FORMING LIST OF XSCHELLS
 BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
10+50.00	EARTH							
	Excavation	19	0	0	1.00		0	0
	Fill	23	0	0	1.00	0	0	0
11+00.00	EARTH							
	Excavation	67	80	80	1.00		80	80
	Fill	6	27	27	1.00	53	27	27
11+50.00	EARTH							
	Excavation	54	112	112	1.00		192	192
	Fill	2	7	7	1.00	158	34	34
12+00.00	EARTH							
	Excavation	19	68	68	1.00		260	260
	Fill	0	2	2	1.00	224	36	36

GRADING REPORT

COMPUTED BY: TERRY SNODGRESS
 CHECKED BY: ALBERT H. ZIMMERMAN
 FEDERAL PROJECT NO: STP – 126 (25)
 ROUTE NO. OR STREET: S.R. 126

SHEET **97** OF **97**
 STATE NO.: 82S126-F3-002
 PIN: 105467.03
 COUNTY: SULLIVAN

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		260	260	1.00		
Fill		36	36	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		260	260	0	0	1.00
Fill		36	36	0	0	1.00