

GRADING REPORT

COMPUTED BY: Aaron Hays
 CHECKED BY: Eric Kim
 FEDERAL PROJECT NO: BR-NH-71(39)
 ROUTE NO. OR STREET: SR 71 (US 321)

SHEET 1 OF 20
 STATE NO.: 78008-1264-94
 PIN: 124563.00
 COUNTY: Sevier

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.	SHRINK = 5 % SWELL = 5 %		
MAINLINE	4896	919	4652	EXC.	EMB.	
SIDE ROADS	134	27	128			
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	17				
INDEPENDENT DITCHES	0	0				
TEMPORARY CONSTRUCTION EXITS	0	0				
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0				
TOPSOIL (EMB.)	313					
TOPSOIL (EXC.)	550					
TOPSOIL TOTALS (SEE TOPSOIL TABLE)				4779	VS.	-963
				AVAILABLE	=	3816
				WASTE MATERIAL	=	4007
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	5893	963	5893	5030	4779

Input File: ewkprj.inp

Output File: SR71Earth_04-13-25.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 = L:\SURVDES\Design\PROJECTS\Sevier_SR71_124563.00\SE071-03MainlineXSections.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
    
```

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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	
1	27	27	Existing Unsuitable Material
1	28	28	soil type = Topsoil
1	29	29	roadway exc mult factor = 1.000000
1	30	30	subsoil exc mult factor = 1.000000
1	31	31	fill mult factor = 1.000000
1	32	32	type = line, line_string
1	33	33	lvname = SURVEY - GROUND - Bottom of Topsoil Layer
1	34	34	lc = 2
1	35	35	wt = 2
1	36	36	co = 2
1	37	37	
1	38	38	Excavation Limit
1	39	39	type = line
1	40	40	lvname = DESIGN - EARTHWORK - Excavation Limit Lines
1	41	41	
1	42	42	Skip Areas
1	43	43	from 109+51.00 R 1 to 110+49.00 R 1
1	44	44	
1	45	45	Ignore Areas
1	46	46	from 109+51.00 R 1 to 110+49.00 R 1

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1	47	47	
1	48	48	Write Earthwork Shapes
1	49	49	plot param
1	50	50	lv = 347
1	51	51	lvname = DESIGN - EARTHWORK - Shapes
1	52	52	co = 1
1	53	53	wt = 0
1	54	54	lc = 0
1	55	55	Stratify Shape Color
1	56	56	
1	57	57	combine common exc + subgrade exc
1	58	58	
1	59	59	
1	60	60	Add Accumulated Adjusted Volume Column
1	61	61	
1	62	62	Add Accumulated Unadjusted Volume Column
1	63	63	
1	64	64	Calculate Only Between Excavation Limits
1	65	65	
1	66	66	End Area Decimal Places = 1
1	67	67	
1	68	68	write column base ascii file =
L:\SURVDES\Design\PROJECTS\Sevier_SR71_124563.00\SR71Earth_04-13-25.txt			
1	69	69	
1	70	70	column 1 formula = abs(["Earth", Common Exc, End Area] +
1	71	71	["Topsoil", Common Exc, End Area] +
1	72	72	["Topsoil", Subsoil Exc, End Area])
1	73	73	column 1 number of decimal place = 0
1	74	74	column 1 total length = 10

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1   75   75
1   76   76   column 2 formula = abs( ["Earth", Fill, End Area] +
1   77   77       ["Topsoil", Subsoil Exc, End Area] )
1   78   78   column 2 number of decimal place = 0
1   79   79   column 2 total length = 10
1   80   80
1   81   81   column 3 formula = abs( ["Earth", Common Exc, Unadjusted Volumes] +
1   82   82       ["Topsoil", Common Exc, Unadjusted Volumes] +
1   83   83       ["Topsoil", Subsoil Exc, Unadjusted Volumes] )
1   84   84   column 3 number of decimal place = 0
1   85   85   column 3 total length = 10
1   86   86
1   87   87   column 4 formula = abs( ["Earth", Fill, Unadjusted Volumes] +
1   88   88       ["Topsoil", Subsoil Exc, Unadjusted Volumes] )
1   89   89   column 4 number of decimal place = 0
1   90   90   column 4 total length = 10
1   91   91
1   92   92
1   93   93   Process Earthwork for Baseline = DSR71
1   94   94       job number = 1ec
1   95   95
1   96   96       beg sta = 101+50.00 R 1
1   97   97       end sta = 113+50.00 R 1
0    0   98 END_OF_FILE
    
```

COMPUTING EARTHWORKS FOR BASELINE = DSR71

COMPUTING EARTHWORKS FOR JOB = 1EC

FORMING LIST OF XSCCELLS

BEGINNING EARTHWORKS COMPUTATION

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[illegible]

Mass ordinate for TOPSOIL = 17

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102+50.00 EARTH

Excavation	42.0	43	43	1.00		70	70
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	10.2	10	10	1.00	54	16	16

TOPSOIL

Excavation	18.1	19	19	1.00		30	30
Subsoil Exc	10.2	10	10	1.00		16	16
Fill	0.0	0	0	1.00	54	0	0

Mass ordinate for TOPSOIL = 46

103+00.00 EARTH

Excavation	36.3	73	73	1.00		143	143
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	11.7	20	20	1.00	107	36	36

TOPSOIL

Excavation	13.6	29	29	1.00		59	59
Subsoil Exc	11.7	20	20	1.00		36	36
Fill	0.0	0	0	1.00	107	0	0

Mass ordinate for TOPSOIL = 95

103+40.86 EARTH

Excavation	49.9	65	65	1.00		208	208
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	7.9	15	15	1.00	157	51	51

TOPSOIL

Excavation	11.7	19	19	1.00		78	78
Subsoil Exc	7.8	15	15	1.00		51	51
Fill	0.0	0	0	1.00	157	0	0

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Mass ordinate for TOPSOIL = 129

103+50.00 EARTH

Excavation	48.3	17	17	1.00		225	225
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	7.2	3	3	1.00	171	54	54

TOPSOIL

Excavation	10.8	4	4	1.00		82	82
Subsoil Exc	7.1	3	3	1.00		54	54
Fill	0.0	0	0	1.00	171	0	0

Mass ordinate for TOPSOIL = 136

104+00.00 EARTH

Excavation	43.6	85	85	1.00		310	310
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	10.1	16	16	1.00	240	70	70

TOPSOIL

Excavation	8.3	18	18	1.00		100	100
Subsoil Exc	7.2	13	13	1.00		67	67
Fill	0.0	0	0	1.00	240	0	0

Mass ordinate for TOPSOIL = 167

104+03.36 EARTH

Excavation	43.3	5	5	1.00		315	315
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	10.7	1	1	1.00	244	71	71

TOPSOIL

Excavation	8.2	1	1	1.00		101	101
Subsoil Exc	7.5	1	1	1.00		68	68

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Fill	0.0	0	0	1.00	244	0	0
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Mass ordinate for TOPSOIL = 169

104+35.20 EARTH

Excavation	40.1	49	49	1.00		364	364
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	16.5	16	16	1.00	277	87	87

TOPSOIL

Excavation	7.4	9	9	1.00		110	110
Subsoil Exc	9.7	10	10	1.00		78	78
Fill	0.0	0	0	1.00	277	0	0

Mass ordinate for TOPSOIL = 188

104+50.00 EARTH

Excavation	39.0	22	22	1.00		386	386
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	13.9	8	8	1.00	291	95	95

TOPSOIL

Excavation	7.3	4	4	1.00		114	114
Subsoil Exc	9.8	5	5	1.00		83	83
Fill	0.0	0	0	1.00	291	0	0

Mass ordinate for TOPSOIL = 197

104+65.86 EARTH

Excavation	38.1	23	23	1.00		409	409
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	11.9	8	8	1.00	306	103	103

TOPSOIL

Excavation	7.7	4	4	1.00		118	118
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Subsoil Exc	9.3	6	6	1.00		89	89
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Fill	0.0	0	0	1.00	306	0	0
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Mass ordinate for TOPSOIL = 207

105+00.00 EARTH

Excavation	86.7	79	79	1.00		488	488
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Subsoil Exc	0.0	0	0	1.00		0	0
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Fill	20.8	21	21	1.00	364	124	124
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TOPSOIL

Excavation	19.3	17	17	1.00		135	135
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Subsoil Exc	12.7	14	14	1.00		103	103
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Fill	0.0	0	0	1.00	364	0	0
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Mass ordinate for TOPSOIL = 238

105+50.00 EARTH

Excavation	37.7	115	115	1.00		603	603
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Subsoil Exc	0.0	0	0	1.00		0	0
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Fill	25.5	43	43	1.00	436	167	167
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TOPSOIL

Excavation	0.7	19	19	1.00		154	154
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Subsoil Exc	13.5	24	24	1.00		127	127
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Fill	0.0	0	0	1.00	436	0	0
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Mass ordinate for TOPSOIL = 281

106+00.00 EARTH

Excavation	42.6	74	74	1.00		677	677
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Subsoil Exc	0.0	0	0	1.00		0	0
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Fill	19.5	42	42	1.00	468	209	209
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TOPSOIL

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Excavation	6.8	7	7	1.00		161	161
Subsoil Exc	13.0	25	25	1.00		152	152
Fill	0.0	0	0	1.00	468	0	0
Mass ordinate for TOPSOIL = 313							

106+50.00 EARTH

Excavation	58.1	93	93	1.00		770	770
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	54.0	68	68	1.00	493	277	277

TOPSOIL

Excavation	17.7	23	23	1.00		184	184
Subsoil Exc	18.2	29	29	1.00		181	181
Fill	0.0	0	0	1.00	493	0	0

Mass ordinate for TOPSOIL = 365

106+80.00 EARTH

Excavation	64.0	68	68	1.00		838	838
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	31.7	48	48	1.00	513	325	325

TOPSOIL

Excavation	19.7	21	21	1.00		205	205
Subsoil Exc	15.4	19	19	1.00		200	200
Fill	0.0	0	0	1.00	513	0	0

Mass ordinate for TOPSOIL = 405

107+00.00 EARTH

Excavation	112.9	66	66	1.00		904	904
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	26.7	22	22	1.00	557	347	347

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TOPSOIL

Excavation	32.8	19	19	1.00		224	224
Subsoil Exc	13.5	11	11	1.00		211	211
Fill	0.0	0	0	1.00	557	0	0
Mass ordinate for TOPSOIL = 435							

107+02.05 EARTH

Excavation	113.9	9	9	1.00		913	913
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	24.6	2	2	1.00	564	349	349

TOPSOIL

Excavation	32.7	2	2	1.00		226	226
Subsoil Exc	13.5	1	1	1.00		212	212
Fill	0.0	0	0	1.00	564	0	0
Mass ordinate for TOPSOIL = 438							

107+23.29 EARTH

Excavation	131.5	97	97	1.00		1010	1010
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	28.8	21	21	1.00	640	370	370

TOPSOIL

Excavation	33.6	26	26	1.00		252	252
Subsoil Exc	12.0	10	10	1.00		222	222
Fill	0.0	0	0	1.00	640	0	0
Mass ordinate for TOPSOIL = 474							

107+50.00 EARTH

Excavation	198.5	163	163	1.00		1173	1173
Subsoil Exc	0.0	0	0	1.00		0	0

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Fill	34.8	31	31	1.00	772	401	401
TOPSOIL							
Excavation	31.1	32	32	1.00		284	284
Subsoil Exc	10.0	11	11	1.00		233	233
Fill	0.0	0	0	1.00	772	0	0
Mass ordinate for TOPSOIL = 517							

107+64.55 EARTH

Excavation	262.6	124	124	1.00		1297	1297
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	20.2	15	15	1.00	881	416	416
TOPSOIL							
Excavation	27.6	16	16	1.00		300	300
Subsoil Exc	9.9	5	5	1.00		238	238
Fill	0.0	0	0	1.00	881	0	0
Mass ordinate for TOPSOIL = 538							

107+79.88 EARTH

Excavation	352.9	175	175	1.00		1472	1472
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	19.5	11	11	1.00	1045	427	427
TOPSOIL							
Excavation	25.5	15	15	1.00		315	315
Subsoil Exc	9.0	5	5	1.00		243	243
Fill	0.0	0	0	1.00	1045	0	0
Mass ordinate for TOPSOIL = 558							

107+85.00 EARTH

Excavation	392.5	71	71	1.00		1543	1543
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Subsoil Exc	0.0	0	0	1.00		0	0
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Fill	21.0	4	4	1.00	1112	431	431
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TOPSOIL

Excavation	12.8	4	4	1.00		319	319
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Subsoil Exc	9.7	2	2	1.00		245	245
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Fill	0.0	0	0	1.00	1112	0	0
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Mass ordinate for TOPSOIL = 564

108+00.00 EARTH

Excavation	466.3	239	239	1.00		1782	1782
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Subsoil Exc	0.0	0	0	1.00		0	0
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Fill	13.7	10	10	1.00	1341	441	441
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TOPSOIL

Excavation	18.9	9	9	1.00		328	328
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Subsoil Exc	8.7	5	5	1.00		250	250
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Fill	0.0	0	0	1.00	1341	0	0
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Mass ordinate for TOPSOIL = 578

108+27.05 EARTH

Excavation	498.3	483	483	1.00		2265	2265
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Subsoil Exc	0.0	0	0	1.00		0	0
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Fill	7.7	11	11	1.00	1813	452	452
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TOPSOIL

Excavation	10.5	15	15	1.00		343	343
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Subsoil Exc	0.6	5	5	1.00		255	255
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Fill	0.0	0	0	1.00	1813	0	0
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Mass ordinate for TOPSOIL = 598

108+50.00 EARTH

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Excavation	470.1	412	412	1.00		2677	2677
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	6.6	6	6	1.00	2219	458	458
TOPSOIL							
Excavation	14.7	11	11	1.00		354	354
Subsoil Exc	3.6	2	2	1.00		257	257
Fill	0.0	0	0	1.00	2219	0	0
Mass ordinate for TOPSOIL = 611							

Excavation	323.2	735	735	1.00		3412	3412
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	0.1	6	6	1.00	2948	464	464
PSOIL							
Excavation	29.8	41	41	1.00		395	395
Subsoil Exc	0.1	3	3	1.00		260	260
Fill	0.0	0	0	1.00	2948	0	0
Mass ordinate for TOPSOIL = 655							

Excavation	164.7	452	452	1.00		3864	3864
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	0.0	0	0	1.00	3400	464	464
PSOIL							
Excavation	17.6	44	44	1.00		439	439
Subsoil Exc	0.0	0	0	1.00		260	260
Fill	0.0	0	0	1.00	3400	0	0
Mass ordinate for TOPSOIL = 699							

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SKIP STATION RANGE = 109+51.00 to 110+49.00

110+50.00 EARTH

Excavation	45.0	8	8	1.00		3872	3872
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	0.0	0	0	1.00	3408	464	464

TOPSOIL

Excavation	9.1	1	1	1.00		440	440
Subsoil Exc	0.0	0	0	1.00		260	260
Fill	0.0	0	0	1.00	3408	0	0

Mass ordinate for TOPSOIL = 700

111+00.00 EARTH

Excavation	34.7	74	74	1.00		3946	3946
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	0.0	0	0	1.00	3482	464	464

TOPSOIL

Excavation	14.8	22	22	1.00		462	462
Subsoil Exc	0.0	0	0	1.00		260	260
Fill	0.0	0	0	1.00	3482	0	0

Mass ordinate for TOPSOIL = 722

111+50.00 EARTH

Excavation	194.2	212	212	1.00		4158	4158
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	9.3	9	9	1.00	3685	473	473

TOPSOIL

Excavation	5.7	19	19	1.00		481	481
Subsoil Exc	6.6	6	6	1.00		266	266
Fill	0.0	0	0	1.00	3685	0	0

GRADING REPORT

COMPUTED BY: Aaron Hays
 CHECKED BY: Eric Kim
 FEDERAL PROJECT NO: BR-NH-71(39)
 ROUTE NO. OR STREET: SR 71 (US 321)

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 COUNTY: Sevier

Mass ordinate for TOPSOIL = 747

111+81.00 EARTH

Excavation	191.0	221	221	1.00		4379	4379
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	2.5	7	7	1.00	3899	480	480

TOPSOIL

Excavation	8.2	8	8	1.00		489	489
Subsoil Exc	2.3	5	5	1.00		271	271
Fill	0.0	0	0	1.00	3899	0	0

Mass ordinate for TOPSOIL = 760

112+00.00 EARTH

Excavation	166.1	126	126	1.00		4505	4505
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	3.1	2	2	1.00	4023	482	482

TOPSOIL

Excavation	22.0	11	11	1.00		500	500
Subsoil Exc	3.1	2	2	1.00		273	273
Fill	0.0	0	0	1.00	4023	0	0

Mass ordinate for TOPSOIL = 773

112+50.00 EARTH

Excavation	98.9	245	245	1.00		4750	4750
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	65.5	64	64	1.00	4204	546	546

TOPSOIL

Excavation	5.7	26	26	1.00		526	526
Subsoil Exc	20.3	22	22	1.00		295	295

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Fill	0.0	0	0	1.00	4204	0	0
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Mass ordinate for TOPSOIL = 821

112+51.15 EARTH

Excavation	102.3	4	4	1.00		4754	4754
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	64.9	3	3	1.00	4205	549	549

TOPSOIL

Excavation	6.1	0	0	1.00		526	526
Subsoil Exc	20.0	1	1	1.00		296	296
Fill	0.0	0	0	1.00	4205	0	0

Mass ordinate for TOPSOIL = 822

112+54.36 EARTH

Excavation	103.7	12	12	1.00		4766	4766
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	72.9	8	8	1.00	4209	557	557

TOPSOIL

Excavation	4.8	1	1	1.00		527	527
Subsoil Exc	18.4	2	2	1.00		298	298
Fill	0.0	0	0	1.00	4209	0	0

Mass ordinate for TOPSOIL = 825

112+80.00 EARTH

Excavation	83.8	89	89	1.00		4855	4855
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	16.4	42	42	1.00	4256	599	599

TOPSOIL

Excavation	20.3	12	12	1.00		539	539
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Subsoil Exc	6.5	12	12	1.00		310	310
Fill	0.0	0	0	1.00	4256	0	0
Mass ordinate for TOPSOIL = 849							

113+00.00 EARTH

Excavation	13.3	36	36	1.00		4891	4891
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	2.3	7	7	1.00	4285	606	606
TOPSOIL							
Excavation	7.7	10	10	1.00		549	549
Subsoil Exc	1.9	3	3	1.00		313	313
Fill	0.0	0	0	1.00	4285	0	0
Mass ordinate for TOPSOIL = 862							

113+10.00 EARTH

Excavation	1.4	3	3	1.00		4894	4894
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	0.0	0	0	1.00	4288	606	606
TOPSOIL							
Excavation	0.0	1	1	1.00		550	550
Subsoil Exc	0.0	0	0	1.00		313	313
Fill	0.0	0	0	1.00	4288	0	0
Mass ordinate for TOPSOIL = 863							

113+50.00 EARTH

Excavation	1.0	2	2	1.00		4896	4896
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	0.0	0	0	1.00	4290	606	606

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SHEET 19 OF 20
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PIN: 124563.00
COUNTY: Sevier

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	4896	4896	1.00
Subsoil Exc	0	0	1.00
Fill	606	606	1.00

TOPSOIL

Excavation	550	550	1.00
Subsoil Exc	313	313	1.00
Fill	0	0	1.00

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SHEET **20** OF **20**
 STATE NO.: 78008-1264-94
 PIN: 124563.00
 COUNTY: Sevier

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

EARTH						
Excavation	4896	4896	0	0	1.00	
Subsoil Exc	0	0	0	0	1.00	
Fill	606	606	0	0	1.00	
TOPSOIL						
Excavation	550	550	0	0	1.00	
Subsoil Exc	313	313	0	0	1.00	
Fill	0	0	0	0	1.00	