

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.: 78008-3264-94  
 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	4894	606	4650			
SIDE ROADS	134	27	128			
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	17		EXC.		EMB.
INDEPENDENT DITCHES	0	0				
TEMPORARY CONSTRUCTION EXITS	0	0		4777	VS.	-650
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0				
TOPSOIL (EMB.)	313			AVAILABLE	=	4127
TOPSOIL (EXC.)	550					
TOPSOIL TOTALS (SEE TOPSOIL TABLE)				WASTE MATERIAL	=	4334
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	5891	650	5891	5028	4777

SR 71 (US 321) Earthwork

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.)
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102+00.00 EARTH

Excavation	0.1	0	0	1.00		0	0
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	0.1	0	0	1.00	0	0	0

102+14.58 EARTH

Excavation	46.1	12	12	1.00		12	12
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	9.9	3	3	1.00	9	3	3

TOPSOIL

Excavation	18.6	5	5	1.00		5	5
Subsoil Exc	9.9	3	3	1.00		3	3
Fill	0.0	0	0	1.00	9	0	0

Mass ordinate for TOPSOIL = 8

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102+23.58 EARTH

Excavation	46.7	15	15	1.00		27	27
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	10.4	3	3	1.00	21	6	6

TOPSOIL

Excavation	19.9	6	6	1.00		11	11
Subsoil Exc	10.4	3	3	1.00		6	6
Fill	0.0	0	0	1.00	21	0	0

Mass ordinate for TOPSOIL = 17

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

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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

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

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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
Fill	0.0	0	0	1.00	244	0	0

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

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Fill	0.0	0	0	1.00	291	0	0
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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
Subsoil Exc	9.3	6	6	1.00		89	89
Fill	0.0	0	0	1.00	306	0	0

Mass ordinate for TOPSOIL = 207

105+00.00 EARTH

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

TOPSOIL

Excavation	19.3	17	17	1.00		135	135
Subsoil Exc	12.7	14	14	1.00		103	103
Fill	0.0	0	0	1.00	364	0	0

Mass ordinate for TOPSOIL = 238

105+50.00 EARTH

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

TOPSOIL

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

106+00.00 EARTH

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

TOPSOIL

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

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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

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

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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
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

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Fill	19.5	11	11	1.00	1045	427	427
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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
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	21.0	4	4	1.00	1112	431	431

TOPSOIL

Excavation	12.8	4	4	1.00		319	319
Subsoil Exc	9.7	2	2	1.00		245	245
Fill	0.0	0	0	1.00	1112	0	0

Mass ordinate for TOPSOIL = 564

108+00.00 EARTH

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

TOPSOIL

Excavation	18.9	9	9	1.00		328	328
Subsoil Exc	8.7	5	5	1.00		250	250
Fill	0.0	0	0	1.00	1341	0	0

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
Fill	7.7	11	11	1.00	1813	452	452

TOPSOIL

Excavation	10.5	15	15	1.00		343	343
Subsoil Exc	0.6	5	5	1.00		255	255
Fill	0.0	0	0	1.00	1813	0	0

Mass ordinate for TOPSOIL = 598

108+50.00 EARTH

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

109+00.00 EARTH

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

TOPSOIL

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

109+50.00 EARTH

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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
TOPSOIL							
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							

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							

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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

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

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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
Fill	0.0	0	0	1.00	4204	0	0

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

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Fill	0.0	0	0	1.00	4209	0	0
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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
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
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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 **15** OF **20**  
STATE NO.: 78008-3264-94  
PIN: 124563.00  
COUNTY: Sevier

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

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 16 OF 20  
 STATE NO.: 78008-3264-94  
 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	4894	4894	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	

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 17 OF 20  
 STATE NO.: 78008-3264-94  
 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	Quant	Quant
	Unadjusted	Adjusted	Unadjusted	Adjusted	Mult	
	Volume	Volume	Volume	Volume	Factor	
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)		
-----						
EARTH						
Excavation	4894	4894	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	

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 18 OF 20  
 STATE NO.: 78008-3264-94  
 PIN: 124563.00  
 COUNTY: Sevier

**Spring Valley Road Earthwork**

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.)
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 20+23.28 EARTH

Excavation	93.5	0	0	1.00		0	0
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	0.0	0	0	1.00	0	0	0

20+50.00 EARTH

Excavation	124.8	108	108	1.00		108	108
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	38.1	19	19	1.00	89	19	19

20+61.00 EARTH

Excavation	0.4	26	26	1.00		134	134
Subsoil Exc	0.0	0	0	1.00		0	0
Fill	0.4	8	8	1.00	107	27	27

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 19 OF 20  
 STATE NO.: 78008-3264-94  
 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.)	

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EARTH

Excavation	134	134	1.00
Subsoil Exc	0	0	1.00
Fill	27	27	1.00

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 20 OF 20  
 STATE NO.: 78008-3264-94  
 PIN: 124563.00  
 COUNTY: Sevier

S P L I T      S U M M A R Y      T O T A L S

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

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EARTH

Excavation	134	134	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	27	27	0	0	1.00