

GRADING REPORT

COMPUTED BY: GRESHAM SMITH  
 CHECKED BY: GRESHAM SMITH  
 FEDERAL PROJECT NO: N/A  
 ROUTE NO. OR STREET: SR 347

SHEET 1 OF 9  
 STATE NO.: 82023-4220-04  
 PIN: 131010.00  
 COUNTY: SULLIVAN

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.	SHRINK =		% SWELL =
MAINLINE SR 347	2116	471	2011		5	20
SIDE ROADS	0	0				
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	99	412	95	EXC.		EMB.
TEMPORARY DIVERSION CHANNEL	1039	1299	988			
TEMPORARY CONSTRUCTION EXITS AND TEMPORARY BERMS	40		38	3130	VS.	-2209
TOPSOIL (EMB.)	101			AVAILABLE	=	921
TOPSOIL (EXC.)	287			WASTE MATERIAL	=	968
TOPSOIL TOTALS (SEE TOPSOIL TABLE)						
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC. (COMMC)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	3682	2209	3682	3294	3130

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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12+78.04 EARTH

Excavation	17	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	2	0	0	1.00	0	0	0

TOPSOIL

Excavation	5	0	0	1.00		0	0
Subsoil Exc	2	0	0	1.00		0	0
Fill	0	0	0	1.00	0	0	0

Mass ordinate for TOPSOIL = 0

13+00.00 EARTH

Excavation	61	32	32	1.00		32	32
Subsoil Exc	0	0	0	1.00		0	0
Fill	2	2	2	1.00	30	2	2

TOPSOIL

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Excavation	6	4	4	1.00		4	4
Subsoil Exc	2	2	2	1.00		2	2
Fill	0	0	0	1.00	30	0	0
Mass ordinate for TOPSOIL = 6							

13+02.00 EARTH

Excavation	86	5	5	1.00		37	37
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	0	0	1.00	35	2	2

TOPSOIL

Excavation	14	1	1	1.00		5	5
Subsoil Exc	1	0	0	1.00		2	2
Fill	0	0	0	1.00	35	0	0

Mass ordinate for TOPSOIL = 7

13+29.00 EARTH

Excavation	101	93	93	1.00		130	130
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	1	1	1.00	127	3	3

TOPSOIL

Excavation	16	15	15	1.00		20	20
Subsoil Exc	1	1	1	1.00		3	3
Fill	0	0	0	1.00	127	0	0

Mass ordinate for TOPSOIL = 23

13+50.00 EARTH

Excavation	115	84	84	1.00		214	214
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	1	1	1.00	210	4	4

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TOPSOIL

Excavation	17	13	13	1.00		33	33
Subsoil Exc	1	1	1	1.00		4	4
Fill	0	0	0	1.00	210	0	0
Mass ordinate for TOPSOIL = 37							

13+70.00 EARTH

Excavation	134	92	92	1.00		306	306
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	302	4	4

TOPSOIL

Excavation	19	13	13	1.00		46	46
Subsoil Exc	0	0	0	1.00		4	4
Fill	0	0	0	1.00	302	0	0
Mass ordinate for TOPSOIL = 50							

14+00.00 EARTH

Excavation	144	154	154	1.00		460	460
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	456	4	4

TOPSOIL

Excavation	18	21	21	1.00		67	67
Subsoil Exc	0	0	0	1.00		4	4
Fill	0	0	0	1.00	456	0	0
Mass ordinate for TOPSOIL = 71							

14+50.00 EARTH

Excavation	135	258	258	1.00		718	718
Subsoil Exc	0	0	0	1.00		0	0

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Fill	1	1	1	1.00	713	5	5
TOPSOIL							
Excavation	18	33	33	1.00		100	100
Subsoil Exc	1	1	1	1.00		5	5
Fill	0	0	0	1.00	713	0	0
Mass ordinate for TOPSOIL = 105							

15+00.00 EARTH

Excavation	134	249	249	1.00		967	967
Subsoil Exc	0	0	0	1.00		0	0
Fill	8	8	8	1.00	954	13	13
TOPSOIL							
Excavation	21	36	36	1.00		136	136
Subsoil Exc	5	6	6	1.00		11	11
Fill	0	0	0	1.00	954	0	0
Mass ordinate for TOPSOIL = 147							

15+23.60 EARTH

Excavation	78	93	93	1.00		1060	1060
Subsoil Exc	0	0	0	1.00		0	0
Fill	22	13	13	1.00	1034	26	26
TOPSOIL							
Excavation	16	16	16	1.00		152	152
Subsoil Exc	9	6	6	1.00		17	17
Fill	0	0	0	1.00	1034	0	0
Mass ordinate for TOPSOIL = 169							

15+50.00 EARTH

Excavation	121	97	97	1.00		1157	1157
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Subsoil Exc	0	0	0	1.00		0	0
Fill	99	59	59	1.00	1072	85	85

TOPSOIL

Excavation	18	17	17	1.00		169	169
Subsoil Exc	16	12	12	1.00		29	29
Fill	0	0	0	1.00	1072	0	0

Mass ordinate for TOPSOIL = 198

16+00.00 EARTH

Excavation	76	182	182	1.00		1339	1339
Subsoil Exc	0	0	0	1.00		0	0
Fill	76	162	162	1.00	1092	247	247

TOPSOIL

Excavation	15	31	31	1.00		200	200
Subsoil Exc	14	28	28	1.00		57	57
Fill	0	0	0	1.00	1092	0	0

Mass ordinate for TOPSOIL = 257

16+50.00 EARTH

Excavation	60	126	126	1.00		1465	1465
Subsoil Exc	0	0	0	1.00		0	0
Fill	47	114	114	1.00	1104	361	361

TOPSOIL

Excavation	13	26	26	1.00		226	226
Subsoil Exc	11	23	23	1.00		80	80
Fill	0	0	0	1.00	1104	0	0

Mass ordinate for TOPSOIL = 306

17+00.00 EARTH

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Excavation	53	105	105	1.00		1570	1570
Subsoil Exc	0	0	0	1.00		0	0
Fill	23	65	65	1.00	1144	426	426
TOPSOIL							
Excavation	12	23	23	1.00		249	249
Subsoil Exc	8	18	18	1.00		98	98
Fill	0	0	0	1.00	1144	0	0
Mass ordinate for TOPSOIL = 347							

17+36.49 EARTH

Excavation	66	80	80	1.00		1650	1650
Subsoil Exc	0	0	0	1.00		0	0
Fill	13	24	24	1.00	1200	450	450
TOPSOIL							
Excavation	16	19	19	1.00		268	268
Subsoil Exc	7	10	10	1.00		108	108
Fill	0	0	0	1.00	1200	0	0
Mass ordinate for TOPSOIL = 376							

17+50.00 EARTH

Excavation	86	38	38	1.00		1688	1688
Subsoil Exc	0	0	0	1.00		0	0
Fill	9	6	6	1.00	1232	456	456
TOPSOIL							
Excavation	19	9	9	1.00		277	277
Subsoil Exc	5	3	3	1.00		111	111
Fill	0	0	0	1.00	1232	0	0
Mass ordinate for TOPSOIL = 388							

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17+61.72 EARTH

Excavation	83	37	37	1.00		1725	1725
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	3	3	1.00	1266	459	459

TOPSOIL

Excavation	20	8	8	1.00		285	285
Subsoil Exc	3	2	2	1.00		113	113
Fill	0	0	0	1.00	1266	0	0

Mass ordinate for TOPSOIL = 398

17+91.00 EARTH

Excavation	83	90	90	1.00		1815	1815
Subsoil Exc	0	0	0	1.00		0	0
Fill	4	4	4	1.00	1352	463	463

TOPSOIL

Excavation	19	21	21	1.00		306	306
Subsoil Exc	3	3	3	1.00		116	116
Fill	0	0	0	1.00	1352	0	0

Mass ordinate for TOPSOIL = 422

18+00.00 EARTH

Excavation	120	34	34	1.00		1849	1849
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	1	1	1.00	1385	464	464

TOPSOIL

Excavation	21	7	7	1.00		313	313
Subsoil Exc	1	1	1	1.00		117	117
Fill	0	0	0	1.00	1385	0	0

Mass ordinate for TOPSOIL = 430

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18+07.00 EARTH

Excavation	169	37	37	1.00		1886	1886
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	0	0	1.00	1422	464	464

TOPSOIL

Excavation	25	6	6	1.00		319	319
Subsoil Exc	1	0	0	1.00		117	117
Fill	0	0	0	1.00	1422	0	0

Mass ordinate for TOPSOIL = 436

18+28.60 EARTH

Excavation	151	128	128	1.00		2014	2014
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	3	3	1.00	1547	467	467

TOPSOIL

Excavation	11	14	14	1.00		333	333
Subsoil Exc	2	1	1	1.00		118	118
Fill	0	0	0	1.00	1547	0	0

Mass ordinate for TOPSOIL = 451

18+30.00 EARTH

Excavation	155	8	8	1.00		2022	2022
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	0	0	1.00	1555	467	467

TOPSOIL

Excavation	11	1	1	1.00		334	334
Subsoil Exc	2	0	0	1.00		118	118
Fill	0	0	0	1.00	1555	0	0

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Mass ordinate for TOPSOIL = 452

18+50.00 EARTH

Excavation	92	91	91	1.00		2113	2113
Subsoil Exc	0	0	0	1.00		0	0
Fill	4	4	4	1.00	1642	471	471

TOPSOIL

Excavation	10	8	8	1.00		342	342
Subsoil Exc	2	1	1	1.00		119	119
Fill	0	0	0	1.00	1642	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
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 EARTH

Excavation	2113	2113	1.00
Subsoil Exc	0	0	1.00
Fill	471	471	1.00

TOPSOIL

Excavation	342	342	1.00
Subsoil Exc	119	119	1.00
Fill	0	0	1.00