

GRADING REPORT

COMPUTED BY: Patrick Leppold
 CHECKED BY: Eric S. Brown
 FEDERAL PROJECT NO: HSIP-3(150)
 ROUTE NO. OR STREET: S.R. 3

SHEET 1 OF 28
 STATE NO.: 84102-3216-94
 PIN: 126981.00
 COUNTY: Tipton

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.	SHRINK = 10 % SWELL = 15 %		
MAINLINE	5973	2545	5376			
SIDE ROADS						
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES				EXC.		EMB.
INDEPENDENT DITCHES						
TEMPORARY CONSTRUCTION EXITS	15		14	5395	VS.	-2545
OTHER (CULVERT PROTECTION TYPE 1)	6		6			
TOPSOIL (EMB.)	19			AVAILABLE	=	2850
TOPSOIL (EXC.)	1511					
TOPSOIL TOTALS (SEE TOPSOIL TABLE)				WASTE MATERIAL	=	3135
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	7524	2545	7524	5994	5395

Mainline (S.R. 3)

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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135+80.31 EARTH

Common Exc	111	0	0	0.90		0	0	
Subgrade Exc	0	0	0	0.90		0	0	
Subsoil Exc	0	0	0	1.00		0	0	
Fill	7	0	0	1.15	0	0	0	
TOPSOIL								
Common Exc	27	0	0	1.00		0	0	
Subgrade Exc	0	0	0	1.00		0	0	
Subsoil Exc	0	0	0	1.00		0	0	

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Fill 0 0 0 1.00 0 0 0

Mass ordinate for TOPSOIL = 0

136+00.00 EARTH

Common Exc	139	91	82	0.90		91	82
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	8	5	6	1.15	76	5	6

TOPSOIL

Common Exc	30	21	21	1.00		21	21
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	76	0	0

Mass ordinate for TOPSOIL = 21

136+50.00 EARTH

Common Exc	267	376	338	0.90		467	420
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	13	19	22	1.15	392	24	28

TOPSOIL

Common Exc	36	61	61	1.00		82	82
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	392	0	0

Mass ordinate for TOPSOIL = 82

137+00.00 EARTH

Common Exc	323	546	492	0.90		1013	912
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Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	17	28	32	1.15	852	52	60

TOPSOIL

Common Exc	38	69	69	1.00		151	151
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	852	0	0

Mass ordinate for TOPSOIL = 151

137+20.17 EARTH

Common Exc	314	238	214	0.90		1251	1126
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	16	12	14	1.15	1052	64	74

TOPSOIL

Common Exc	37	28	28	1.00		179	179
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	1052	0	0

Mass ordinate for TOPSOIL = 179

137+50.00 EARTH

Common Exc	301	340	306	0.90		1591	1432
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	13	16	18	1.15	1340	80	92

TOPSOIL

Common Exc	37	41	41	1.00		220	220
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Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	1340	0	0

Mass ordinate for TOPSOIL = 220

138+00.00 EARTH

Common Exc	235	496	447	0.90		2087	1879
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	11	22	26	1.15	1761	102	118

TOPSOIL

Common Exc	35	67	67	1.00		287	287
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	1761	0	0

Mass ordinate for TOPSOIL = 287

138+50.00 EARTH

Common Exc	67	280	252	0.90		2367	2131
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	14	23	27	1.15	1986	125	145

TOPSOIL

Common Exc	25	56	56	1.00		343	343
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	1986	0	0

Mass ordinate for TOPSOIL = 343

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139+00.00 EARTH

Common Exc	18	79	71	0.90		2446	2202
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	18	30	34	1.15	2023	155	179

TOPSOIL

Common Exc	14	36	36	1.00		379	379
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2023	0	0

Mass ordinate for TOPSOIL = 379

139+50.00 EARTH

Common Exc	22	37	33	0.90		2483	2235
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	58	70	81	1.15	1975	225	260

TOPSOIL

Common Exc	13	25	25	1.00		404	404
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	1975	0	0

Mass ordinate for TOPSOIL = 404

139+60.17 EARTH

Common Exc	10	6	5	0.90		2489	2240
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	27	16	18	1.15	1962	241	278

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TOPSOIL

Common Exc	8	4	4	1.00		408	408
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	1962	0	0

Mass ordinate for TOPSOIL = 408

140+94.45 EARTH

Common Exc	13	57	51	0.90		2546	2291
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	75	86	1.15	1927	316	364

TOPSOIL

Common Exc	21	72	72	1.00		480	480
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	1927	0	0

Mass ordinate for TOPSOIL = 480

141+00.00 EARTH

Common Exc	25	4	4	0.90		2550	2295
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	1	1	1.15	1930	317	365

TOPSOIL

Common Exc	27	5	5	1.00		485	485
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	1930	0	0

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Mass ordinate for TOPSOIL = 485

141+50.00 EARTH

Common Exc	114	129	116	0.90		2679	2411
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	8	10	1.15	2036	325	375

TOPSOIL

Common Exc	34	56	56	1.00		541	541
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2036	0	0

Mass ordinate for TOPSOIL = 541

142+00.00 EARTH

Common Exc	125	221	199	0.90		2900	2610
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	11	13	1.15	2222	336	388

TOPSOIL

Common Exc	31	60	60	1.00		601	601
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2222	0	0

Mass ordinate for TOPSOIL = 601

142+50.00 EARTH

Common Exc	89	198	178	0.90		3098	2788
Subgrade Exc	0	0	0	0.90		0	0

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Subsoil Exc	0	0	0	1.00		0	0
Fill	6	11	13	1.15	2387	347	401

TOPSOIL

Common Exc	27	54	54	1.00		655	655
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2387	0	0

Mass ordinate for TOPSOIL = 655

143+00.00 EARTH

Common Exc	32	112	101	0.90		3210	2889
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	11	13	1.15	2475	358	414

TOPSOIL

Common Exc	23	46	46	1.00		701	701
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2475	0	0

Mass ordinate for TOPSOIL = 701

143+50.00 EARTH

Common Exc	20	48	43	0.90		3258	2932
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	9	14	16	1.15	2502	372	430

TOPSOIL

Common Exc	18	38	38	1.00		739	739
Subgrade Exc	0	0	0	1.00		0	0

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Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2502	0	0

Mass ordinate for TOPSOIL = 739

143+94.46 EARTH

Common Exc	13	27	24	0.90		3285	2956
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	20	24	27	1.15	2499	396	457

TOPSOIL

Common Exc	11	24	24	1.00		763	763
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2499	0	0

Mass ordinate for TOPSOIL = 763

144+00.00 EARTH

Common Exc	14	3	2	0.90		3288	2958
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	19	4	5	1.15	2496	400	462

TOPSOIL

Common Exc	12	2	2	1.00		765	765
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2496	0	0

Mass ordinate for TOPSOIL = 765

144+50.00 EARTH

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Common Exc	17	29	26	0.90		3317	2984
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	19	35	40	1.15	2482	435	502

TOPSOIL

Common Exc	14	24	24	1.00		789	789
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2482	0	0

Mass ordinate for TOPSOIL = 789

145+00.00 EARTH

Common Exc	11	26	23	0.90		3343	3007
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	21	37	43	1.15	2462	472	545

TOPSOIL

Common Exc	9	21	21	1.00		810	810
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2462	0	0

Mass ordinate for TOPSOIL = 810

145+50.00 EARTH

Common Exc	12	21	19	0.90		3364	3026
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	23	41	47	1.15	2434	513	592

TOPSOIL

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Common Exc	7	15	15	1.00		825	825
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2434	0	0

Mass ordinate for TOPSOIL = 825

146+00.00 EARTH

Common Exc	10	20	18	0.90		3384	3044
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	25	44	51	1.15	2401	557	643

TOPSOIL

Common Exc	7	13	13	1.00		838	838
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2401	0	0

Mass ordinate for TOPSOIL = 838

146+50.00 EARTH

Common Exc	10	19	17	0.90		3403	3061
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	19	41	47	1.15	2371	598	690

TOPSOIL

Common Exc	7	13	13	1.00		851	851
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2371	0	0

Mass ordinate for TOPSOIL = 851

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147+00.00 EARTH

Common Exc	11	19	18	0.90		3422	3079
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	15	31	36	1.15	2353	629	726

TOPSOIL

Common Exc	7	13	13	1.00		864	864
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2353	0	0

Mass ordinate for TOPSOIL = 864

147+50.00 EARTH

Common Exc	10	19	17	0.90		3441	3096
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	4	18	20	1.15	2350	647	746

TOPSOIL

Common Exc	7	13	13	1.00		877	877
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2350	0	0

Mass ordinate for TOPSOIL = 877

148+00.00 EARTH

Common Exc	10	19	17	0.90		3460	3113
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0

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Fill	10	13	15	1.15	2352	660	761
TOPSOIL							
Common Exc	7	13	13	1.00		890	890
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2352	0	0
Mass ordinate for TOPSOIL = 890							

148+50.00 EARTH

Common Exc	11	19	17	0.90		3479	3130
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	10	19	21	1.15	2348	679	782
TOPSOIL							
Common Exc	7	13	13	1.00		903	903
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2348	0	0
Mass ordinate for TOPSOIL = 903							

149+00.00 EARTH

Common Exc	10	19	18	0.90		3498	3148
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	14	22	26	1.15	2340	701	808
TOPSOIL							
Common Exc	7	13	13	1.00		916	916
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0

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Fill	0	0	0	1.00	2340	0	0
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Mass ordinate for TOPSOIL = 916

149+50.00 EARTH

Common Exc	31	38	34	0.90		3536	3182
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	45	55	63	1.15	2311	756	871

TOPSOIL

Common Exc	17	22	22	1.00		938	938
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2311	0	0

Mass ordinate for TOPSOIL = 938

150+00.00 EARTH

Common Exc	68	92	83	0.90		3628	3265
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	62	99	114	1.15	2280	855	985

TOPSOIL

Common Exc	22	36	36	1.00		974	974
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2280	0	0

Mass ordinate for TOPSOIL = 974

150+50.00 EARTH

Common Exc	80	137	123	0.90		3765	3388
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Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	71	123	142	1.15	2261	978	1127

TOPSOIL

Common Exc	23	42	42	1.00		1016	1016
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2261	0	0

Mass ordinate for TOPSOIL = 1016

151+00.00 EARTH

Common Exc	70	139	125	0.90		3904	3513
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	74	134	154	1.15	2232	1112	1281

TOPSOIL

Common Exc	20	40	40	1.00		1056	1056
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	2232	0	0

Mass ordinate for TOPSOIL = 1056

151+39.40 EARTH

Common Exc	11	59	53	0.90		3963	3566
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	22	70	81	1.15	2204	1182	1362

TOPSOIL

Common Exc	7	20	20	1.00		1076	1076
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GRADING REPORT

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 CHECKED BY: Eric S. Brown
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Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	1	1	1.00		1	1
Fill	0	0	0	1.00	2204	0	0

Mass ordinate for TOPSOIL = 1077

151+50.00 EARTH

Common Exc	11	4	4	0.90		3967	3570
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	20	8	9	1.15	2199	1190	1371

TOPSOIL

Common Exc	7	3	3	1.00		1079	1079
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		1	1
Fill	0	0	0	1.00	2199	0	0

Mass ordinate for TOPSOIL = 1080

152+00.00 EARTH

Common Exc	25	33	30	0.90		4000	3600
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	108	119	136	1.15	2093	1309	1507

TOPSOIL

Common Exc	15	20	20	1.00		1099	1099
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		1	1
Fill	0	0	0	1.00	2093	0	0

Mass ordinate for TOPSOIL = 1100

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152+50.00 EARTH

Common Exc	20	42	37	0.90		4042	3637
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	89	182	210	1.15	1920	1491	1717

TOPSOIL

Common Exc	14	27	27	1.00		1126	1126
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		1	1
Fill	0	0	0	1.00	1920	0	0

Mass ordinate for TOPSOIL = 1127

153+49.54 EARTH

Common Exc	18	70	63	0.90		4112	3700
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	45	247	284	1.15	1699	1738	2001

TOPSOIL

Common Exc	15	53	53	1.00		1179	1179
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	18	18	1.00		19	19
Fill	0	0	0	1.00	1699	0	0

Mass ordinate for TOPSOIL = 1198

153+50.00 EARTH

Common Exc	18	0	0	0.90		4112	3700
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	36	1	1	1.15	1698	1739	2002

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TOPSOIL

Common Exc	14	0	0	1.00		1179	1179
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1698	0	0

Mass ordinate for TOPSOIL = 1198

154+00.00 EARTH

Common Exc	13	29	26	0.90		4141	3726
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	2	35	40	1.15	1684	1774	2042

TOPSOIL

Common Exc	12	24	24	1.00		1203	1203
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1684	0	0

Mass ordinate for TOPSOIL = 1222

154+50.00 EARTH

Common Exc	13	24	22	0.90		4165	3748
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	7	9	1.15	1697	1781	2051

TOPSOIL

Common Exc	11	21	21	1.00		1224	1224
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1697	0	0

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Mass ordinate for TOPSOIL = 1243

155+00.00 EARTH

Common Exc	12	23	21	0.90		4188	3769
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	11	16	18	1.15	1700	1797	2069

TOPSOIL

Common Exc	10	19	19	1.00		1243	1243
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1700	0	0

Mass ordinate for TOPSOIL = 1262

155+50.00 EARTH

Common Exc	10	20	18	0.90		4208	3787
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	14	23	27	1.15	1691	1820	2096

TOPSOIL

Common Exc	9	18	18	1.00		1261	1261
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1691	0	0

Mass ordinate for TOPSOIL = 1280

156+00.00 EARTH

Common Exc	10	19	17	0.90		4227	3804
Subgrade Exc	0	0	0	0.90		0	0

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Subsoil Exc	0	0	0	1.00		0	0
Fill	20	31	36	1.15	1672	1851	2132

TOPSOIL

Common Exc	9	17	17	1.00		1278	1278
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1672	0	0

Mass ordinate for TOPSOIL = 1297

156+50.00 EARTH

Common Exc	10	19	17	0.90		4246	3821
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	43	58	67	1.15	1622	1909	2199

TOPSOIL

Common Exc	10	18	18	1.00		1296	1296
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1622	0	0

Mass ordinate for TOPSOIL = 1315

157+00.00 EARTH

Common Exc	10	19	17	0.90		4265	3838
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	52	88	101	1.15	1538	1997	2300

TOPSOIL

Common Exc	9	18	18	1.00		1314	1314
Subgrade Exc	0	0	0	1.00		0	0

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Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1538	0	0

Mass ordinate for TOPSOIL = 1333

157+50.00 EARTH

Common Exc	10	19	17	0.90		4284	3855
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	54	98	113	1.15	1442	2095	2413

TOPSOIL

Common Exc	10	18	18	1.00		1332	1332
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1442	0	0

Mass ordinate for TOPSOIL = 1351

158+00.00 EARTH

Common Exc	10	19	17	0.90		4303	3872
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	52	98	113	1.15	1346	2193	2526

TOPSOIL

Common Exc	10	19	19	1.00		1351	1351
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1346	0	0

Mass ordinate for TOPSOIL = 1370

158+50.00 EARTH

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Common Exc	10	19	17	0.90		4322	3889
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	42	87	100	1.15	1263	2280	2626
TOPSOIL							
Common Exc	9	18	18	1.00		1369	1369
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1263	0	0
Mass ordinate for TOPSOIL = 1388							

158+50.73 EARTH

Common Exc	10	0	0	0.90		4322	3889
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	41	1	1	1.15	1262	2281	2627
TOPSOIL							
Common Exc	9	0	0	1.00		1369	1369
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1262	0	0
Mass ordinate for TOPSOIL = 1388							

159+00.00 EARTH

Common Exc	10	18	16	0.90		4340	3905
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	17	53	61	1.15	1217	2334	2688
TOPSOIL							

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Common Exc	9	16	16	1.00		1385	1385
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1217	0	0

Mass ordinate for TOPSOIL = 1404

159+50.00 EARTH

Common Exc	12	20	18	0.90		4360	3923
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	10	25	29	1.15	1206	2359	2717

TOPSOIL

Common Exc	10	18	18	1.00		1403	1403
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1206	0	0

Mass ordinate for TOPSOIL = 1422

160+00.00 EARTH

Common Exc	12	22	20	0.90		4382	3943
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	8	17	19	1.15	1207	2376	2736

TOPSOIL

Common Exc	13	21	21	1.00		1424	1424
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1207	0	0

Mass ordinate for TOPSOIL = 1443

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160+50.00 EARTH

Common Exc	11	21	19	0.90		4403	3962
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	23	29	33	1.15	1193	2405	2769

TOPSOIL

Common Exc	15	26	26	1.00		1450	1450
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1193	0	0

Mass ordinate for TOPSOIL = 1469

161+00.00 EARTH

Common Exc	15	24	22	0.90		4427	3984
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	42	60	69	1.15	1146	2465	2838

TOPSOIL

Common Exc	16	29	29	1.00		1479	1479
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1146	0	0

Mass ordinate for TOPSOIL = 1498

161+31.26 EARTH

Common Exc	8	13	12	0.90		4440	3996
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0

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Fill	0	24	28	1.15	1130	2489	2866
TOPSOIL							
Common Exc	7	13	13	1.00		1492	1492
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1130	0	0
Mass ordinate for TOPSOIL = 1511							

161+50.00 EARTH

Common Exc	9	6	5	0.90		4446	4001
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	40	14	16	1.15	1119	2503	2882
TOPSOIL							
Common Exc	7	5	5	1.00		1497	1497
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1119	0	0
Mass ordinate for TOPSOIL = 1516							

161+50.66 EARTH

Common Exc	9	0	0	0.90		4446	4001
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	40	1	1	1.15	1118	2504	2883
TOPSOIL							
Common Exc	7	0	0	1.00		1497	1497
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19

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Fill	0	0	0	1.00	1118	0	0
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Mass ordinate for TOPSOIL = 1516

162+00.00 EARTH

Common Exc	12	19	17	0.90		4465	4018
Subgrade Exc	0	0	0	0.90		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	26	60	69	1.15	1066	2564	2952

TOPSOIL

Common Exc	8	14	14	1.00		1511	1511
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		19	19
Fill	0	0	0	1.00	1066	0	0

Mass ordinate for TOPSOIL = 1530

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

EARTH				
Common Exc	4465	4018	0.90	
Subgrade Exc	0	0	0.90	
Subsoil Exc	0	0	1.00	
Fill	2564	2952	1.15	
TOPSOIL				
Common Exc	1511	1511	1.00	
Subgrade Exc	0	0	1.00	
Subsoil Exc	19	19	1.00	
Fill	0	0	1.00	

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

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

 EARTH

Common Exc	4465	4018	0	0	0.90
Subgrade Exc	0	0	0	0	0.90
Subsoil Exc	0	0	0	0	1.00
Fill	2564	2952	0	0	1.15

TOPSOIL

Common Exc	1511	1511	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	19	19	0	0	1.00
Fill	0	0	0	0	1.00