

GRADING REPORT

COMPUTED BY: Benesch
 CHECKED BY: Heather Dean
 FEDERAL PROJECT NO: PROT-108(106)
 ROUTE NO. OR STREET: SR-108

SHEET 1 OF 25
 STATE NO.: 58S108-F3-002
 PIN:130296.00
 COUNTY: Marion

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.	SHRINK = 15 %	SWELL = 15 %	
MAINLINE	92313	1021	78467			
HAUL ROAD AND DRIVE (TRACT 2)	46	4611	40			
PVI. DRIVES, BUSINESS AND FIELD ENTRANCES	184	4109	157	EXC.	EMB.	
INDEPENDENT DITCHES	281	0	239	79481	VS.	-9741
TEMPORARY CONSTRUCTION EXITS	0	0				
FALLEN ROCK EXCAVATION	682	0	580	AVAILABLE	=	69740
TOPSOIL (EMB.)	3851					
TOPSOIL (EXC.)	4327			WASTE MATERIAL	=	80201
TOPSOIL TOTALS (SEE TOPSOIL TABLE)						
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC. (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	101684	9741	101684	93506	79481

SR-108 Earthwork

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

8+50.00 EARTH						
Excavation	5	0	0	0.85		0
Fill	19	0	0	1.00	0	0
9+00.00 EARTH						
Excavation	8	12	10	0.85		12
Fill	138	145	145	1.00	-135	145
9+50.00 EARTH						
Excavation	13	19	17	0.85		31
Fill	2	130	130	1.00	-248	275
10+00.00 EARTH						
Excavation	68	75	64	0.85		106

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Fill	0	2	2	1.00	-186	277
10+30.00 EARTH						
Excavation	26	52	44	0.85		158
Fill	43	24	24	1.00	-166	301
10+50.00 EARTH						
Excavation	72	36	31	0.85		194
Fill	93	50	50	1.00	-185	351
10+58.84 EARTH						
Excavation	53	20	17	0.85		214
Fill	91	30	30	1.00	-198	381
10+86.79 EARTH						
Excavation	39	48	40	0.85		262
Fill	61	79	79	1.00	-237	460
11+00.00 EARTH						
Excavation	33	18	15	0.85		280
Fill	61	30	30	1.00	-252	490
11+50.00 EARTH						
Excavation	76	101	86	0.85		381
Fill	108	156	156	1.00	-322	646
11+70.00 EARTH						
Excavation	49	46	39	0.85		427
Fill	158	99	99	1.00	-382	745

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11+95.00 EARTH

Excavation	869	425	361	0.85		852
Fill	6	76	76	1.00	-97	821

12+00.00 EARTH

Excavation	859	160	136	0.85		1012
Fill	6	1	1	1.00	38	822

12+15.00 EARTH

Excavation	844	473	402	0.85		1485
Fill	7	4	4	1.00	436	826

12+50.00 EARTH

Excavation	927	1148	976	0.85		2633
Fill	7	9	9	1.00	1403	835

12+50.68 EARTH

Excavation	929	23	20	0.85		2656
Fill	7	0	0	1.00	1423	835

13+00.00 EARTH

Excavation	883	1655	1407	0.85		4311
Fill	11	16	16	1.00	2814	851

13+30.68 EARTH

Excavation	863	992	843	0.85		5303
Fill	19	17	17	1.00	3640	868

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13+40.68 EARTH

Excavation	906	328	278	0.85		5631
Fill	20	7	7	1.00	3911	875

13+50.00 EARTH

Excavation	902	312	265	0.85		5943
Fill	23	7	7	1.00	4169	882

13+80.00 EARTH

Excavation	935	1021	867	0.85		6964
Fill	23	26	26	1.00	5010	908

13+80.68 EARTH

Excavation	939	24	20	0.85		6988
Fill	24	1	1	1.00	5029	909

13+96.53 EARTH

Excavation	988	566	481	0.85		7554
Fill	22	14	14	1.00	5496	923

14+00.00 EARTH

Excavation	998	128	109	0.85		7682
Fill	21	3	3	1.00	5602	926

14+30.68 EARTH

Excavation	1283	1296	1102	0.85		8978
Fill	10	18	18	1.00	6686	944

14+36.53 EARTH

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Excavation	1328	283	240	0.85		9261
Fill	9	2	2	1.00	6924	946

14+50.00 EARTH

Excavation	1417	685	582	0.85		9946
Fill	6	4	4	1.00	7502	950

14+87.32 EARTH

Excavation	1357	1917	1630	0.85		11863
Fill	4	7	7	1.00	9125	957

15+00.00 EARTH

Excavation	1362	638	543	0.85		12501
Fill	5	2	2	1.00	9666	959

15+16.53 EARTH

Excavation	1362	834	709	0.85		13335
Fill	4	3	3	1.00	10372	962

15+36.53 EARTH

Excavation	1271	975	829	0.85		14310
Fill	2	2	2	1.00	11199	964

15+50.00 EARTH

Excavation	1180	611	520	0.85		14921
Fill	0	0	0	1.00	11719	964

15+96.53 EARTH

Excavation	786	1694	1440	0.85		16615
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Fill	0	0	0	1.00	13159	964
16+00.00 EARTH						
Excavation	769	100	85	0.85		16715
Fill	0	0	0	1.00	13244	964
16+50.00 EARTH						
Excavation	635	1300	1105	0.85		18015
Fill	0	0	0	1.00	14349	964
16+60.00 EARTH						
Excavation	581	225	191	0.85		18240
Fill	0	0	0	1.00	14540	964
16+75.00 EARTH						
Excavation	589	325	276	0.85		18565
Fill	0	0	0	1.00	14816	964
17+00.00 EARTH						
Excavation	640	569	484	0.85		19134
Fill	0	0	0	1.00	15300	964
17+50.00 EARTH						
Excavation	732	1270	1080	0.85		20404
Fill	0	0	0	1.00	16380	964
18+00.00 EARTH						
Excavation	952	1559	1325	0.85		21963
Fill	0	0	0	1.00	17705	964

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18+50.00 EARTH

Excavation	1043	1847	1570	0.85		23810
Fill	0	0	0	1.00	19275	964

19+00.00 EARTH

Excavation	1334	2201	1871	0.85		26011
Fill	0	0	0	1.00	21146	964

19+50.00 EARTH

Excavation	1371	2505	2129	0.85		28516
Fill	0	0	0	1.00	23275	964

20+00.00 EARTH

Excavation	3428	4444	3777	0.85		32960
Fill	0	0	0	1.00	27052	964

20+50.00 EARTH

Excavation	3441	6360	5406	0.85		39320
Fill	0	0	0	1.00	32458	964

21+00.00 EARTH

Excavation	2968	5934	5044	0.85		45254
Fill	0	0	0	1.00	37502	964

21+50.00 EARTH

Excavation	3021	5545	4714	0.85		50799
Fill	0	0	0	1.00	42216	964

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21+56.68 EARTH

Excavation	2991	744	632	0.85		51543
Fill	0	0	0	1.00	42848	964

22+00.00 EARTH

Excavation	2886	4715	4008	0.85		56258
Fill	0	0	0	1.00	46856	964

22+50.00 EARTH

Excavation	2732	5202	4422	0.85		61460
Fill	0	0	0	1.00	51278	964

23+00.00 EARTH

Excavation	2544	4885	4152	0.85		66345
Fill	0	0	0	1.00	55430	964

23+50.00 EARTH

Excavation	2663	4821	4098	0.85		71166
Fill	0	0	0	1.00	59528	964

23+57.25 EARTH

Excavation	2658	715	607	0.85		71881
Fill	0	0	0	1.00	60135	964

24+00.00 EARTH

Excavation	2479	4067	3457	0.85		75948
Fill	0	0	0	1.00	63592	964

24+50.00 EARTH

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Excavation	1516	3699	3144	0.85		79647
Fill	0	0	0	1.00	66736	964
25+00.00 EARTH						
Excavation	1419	2718	2310	0.85		82365
Fill	0	0	0	1.00	69046	964
25+26.69 EARTH						
Excavation	1349	1368	1163	0.85		83733
Fill	0	0	0	1.00	70209	964
25+50.00 EARTH						
Excavation	1283	1136	966	0.85		84869
Fill	0	0	0	1.00	71175	964
26+00.00 EARTH						
Excavation	1332	2421	2058	0.85		87290
Fill	0	0	0	1.00	73233	964
26+50.00 EARTH						
Excavation	1257	2397	2038	0.85		89687
Fill	0	0	0	1.00	75271	964
26+51.17 EARTH						
Excavation	1261	55	46	0.85		89742
Fill	0	0	0	1.00	75317	964
27+00.00 EARTH						
Excavation	1162	2191	1862	0.85		91933

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Fill	0	0	0	1.00	77179	964
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27+05.00 EARTH

Excavation	1153	214	182	0.85		92147
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Fill	0	0	0	1.00	77361	964
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27+07.25 EARTH

Excavation	18	49	41	0.85		92196
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Fill	2	0	0	1.00	77402	964
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27+50.00 EARTH

Excavation	17	28	24	0.85		92224
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Fill	30	25	25	1.00	77401	989
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28+00.00 EARTH

Excavation	20	34	29	0.85		92258
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Fill	2	30	30	1.00	77400	1019
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28+46.40 EARTH

Excavation	39	51	43	0.85		92309
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Fill	0	2	2	1.00	77441	1021
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28+50.00 EARTH

Excavation	20	4	3	0.85		92313
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Fill	0	0	0	1.00	77444	1021
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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					
Excavation	92313	78465	0.85		
Fill	1021	1021	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						
	Excavation	92313	78465	0	0	0.85
	Fill	1021	1021	0	0	1.00

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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	Adjusted	Unadjusted	Adjusted	
	Volumes	Volumes	Volumes	Volumes	
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

Station = 11+98.59

EARTH

Excavation	967	822	967	822	0.85
Fill	822	822	822	822	1.00

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Driveway Tract 2 Earthwork

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

1+30.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	876	0	0	1.00	0	0	0
1+40.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	872	324	324	1.00	-324	324	324
1+50.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	883	325	325	1.00	-649	649	649
1+60.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	907	331	331	1.00	-980	980	980
1+70.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	849	325	325	1.00	-1305	1305	1305
1+80.00 EARTH							
Excavation	0	0	0	1.00		0	0

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Fill	806	306	306	1.00	-1611	1611	1611
1+90.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	783	294	294	1.00	-1905	1905	1905
2+00.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	682	271	271	1.00	-2176	2176	2176
2+10.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	580	234	234	1.00	-2410	2410	2410
2+20.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	485	197	197	1.00	-2607	2607	2607
2+30.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	394	163	163	1.00	-2770	2770	2770
2+40.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	324	133	133	1.00	-2903	2903	2903
2+50.00 EARTH							
Excavation	0	0	0	1.00		0	0
Fill	263	109	109	1.00	-3012	3012	3012

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2+60.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	226	91	91	1.00	-3103	3103	3103

2+70.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	169	73	73	1.00	-3176	3176	3176

2+80.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	138	57	57	1.00	-3233	3233	3233

2+90.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	140	51	51	1.00	-3284	3284	3284

3+00.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	161	56	56	1.00	-3340	3340	3340

3+10.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	176	62	62	1.00	-3402	3402	3402

3+20.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	202	70	70	1.00	-3472	3472	3472

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3+30.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	218	78	78	1.00	-3550	3550	3550

3+40.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	226	82	82	1.00	-3632	3632	3632

3+50.00 EARTH

Excavation	0	0	0	1.00		0	0
Fill	237	86	86	1.00	-3718	3718	3718

3+60.00 EARTH

Excavation	12	2	2	1.00		2	2
Fill	242	89	89	1.00	-3805	3807	3807

3+70.00 EARTH

Excavation	12	4	4	1.00		6	6
Fill	268	94	94	1.00	-3895	3901	3901

3+80.00 EARTH

Excavation	11	4	4	1.00		10	10
Fill	222	91	91	1.00	-3982	3992	3992

3+90.00 EARTH

Excavation	53	12	12	1.00		22	22
Fill	205	79	79	1.00	-4049	4071	4071

4+00.00 EARTH

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Excavation	60	21	21	1.00		43	43
Fill	0	38	38	1.00	-4066	4109	4109
4+10.00 EARTH							
Excavation	68	24	24	1.00		67	67
Fill	0	0	0	1.00	-4042	4109	4109
4+20.00 EARTH							
Excavation	65	25	25	1.00		92	92
Fill	0	0	0	1.00	-4017	4109	4109
4+30.00 EARTH							
Excavation	62	24	24	1.00		116	116
Fill	0	0	0	1.00	-3993	4109	4109
4+40.00 EARTH							
Excavation	53	21	21	1.00		137	137
Fill	0	0	0	1.00	-3972	4109	4109
4+50.00 EARTH							
Excavation	39	17	17	1.00		154	154
Fill	0	0	0	1.00	-3955	4109	4109
4+60.00 EARTH							
Excavation	28	12	12	1.00		166	166
Fill	0	0	0	1.00	-3943	4109	4109
4+70.00 EARTH							
Excavation	19	9	9	1.00		175	175

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Fill	0	0	0	1.00	-3934	4109	4109
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4+80.00 EARTH

Excavation	12	6	6	1.00		181	181
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Fill	0	0	0	1.00	-3928	4109	4109
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4+90.00 EARTH

Excavation	6	3	3	1.00		184	184
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Fill	0	0	0	1.00	-3925	4109	4109
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GRADING REPORT

COMPUTED BY: Benesch
CHECKED BY: Heather Dean
FEDERAL PROJECT NO: PROT-108(106)
ROUTE NO. OR STREET: SR-108

SHEET **20** OF **25**
STATE NO.: 58S108-F3-002
PIN:130296.00
COUNTY: Marion

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	184	184	1.00
Fill	4109	4109	1.00

GRADING REPORT

COMPUTED BY: Benesch
CHECKED BY: Heather Dean
FEDERAL PROJECT NO: PROT-108(106)
ROUTE NO. OR STREET: SR-108

SHEET 21 OF 25
STATE NO.: 58S108-F3-002
PIN:130296.00
COUNTY: Marion

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	184	184	0	0	1.00	
Fill	4109	4109	0	0	1.00	

GRADING REPORT

COMPUTED BY: Benesch
 CHECKED BY: Heather Dean
 FEDERAL PROJECT NO: PROT-108(106)
 ROUTE NO. OR STREET: SR-108

SHEET **22** OF **25**
 STATE NO.: 58S108-F3-002
 PIN:130296.00
 COUNTY: Marion

Haul Road/Maintenance Road 1A 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.)

20+25.00	EARTH							
	Excavation	19	0	0	0.85		0	0
	Fill	0	0	0	1.00	0	0	0
20+50.00	EARTH							
	Excavation	0	9	7	0.85		9	7
	Fill	244	113	113	1.00	-106	113	113
20+75.00	EARTH							
	Excavation	0	0	0	0.85		9	7
	Fill	592	387	387	1.00	-493	500	500
21+00.00	EARTH							
	Excavation	0	0	0	0.85		9	7
	Fill	1057	763	763	1.00	-1256	1263	1263
21+25.00	EARTH							
	Excavation	0	0	0	0.85		9	7
	Fill	1228	1058	1058	1.00	-2314	2321	2321
21+50.00	EARTH							
	Excavation	0	0	0	0.85		9	7
	Fill	693	889	889	1.00	-3203	3210	3210

GRADING REPORT

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 CHECKED BY: Heather Dean
 FEDERAL PROJECT NO: PROT-108(106)
 ROUTE NO. OR STREET: SR-108

SHEET **23** OF **25**
 STATE NO.: 58S108-F3-002
 PIN:130296.00
 COUNTY: Marion

21+75.00 EARTH

Excavation	0	0	0	0.85		9	7
Fill	520	562	562	1.00	-3765	3772	3772

22+00.00 EARTH

Excavation	0	0	0	0.85		9	7
Fill	338	397	397	1.00	-4162	4169	4169

22+25.00 EARTH

Excavation	0	0	0	0.85		9	7
Fill	143	223	223	1.00	-4385	4392	4392

22+50.00 EARTH

Excavation	0	0	0	0.85		9	7
Fill	165	143	143	1.00	-4528	4535	4535

22+75.00 EARTH

Excavation	81	37	32	0.85		46	39
Fill	0	76	76	1.00	-4572	4611	4611

GRADING REPORT

COMPUTED BY: Benesch
CHECKED BY: Heather Dean
FEDERAL PROJECT NO: PROT-108(106)
ROUTE NO. OR STREET: SR-108

SHEET **24** OF **25**
STATE NO.: 58S108-F3-002
PIN:130296.00
COUNTY: Marion

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	46	39	0.85
Fill	4611	4611	1.00

GRADING REPORT

COMPUTED BY: Benesch
CHECKED BY: Heather Dean
FEDERAL PROJECT NO: PROT-108(106)
ROUTE NO. OR STREET: SR-108

SHEET 25 OF 25
STATE NO.: 58S108-F3-002
PIN:130296.00
COUNTY: Marion

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
		Volume	Volume	Volume	Volume
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)

EARTH					
	Excavation	46	39	0	0 0.85
	Fill	4611	4611	0	0 1.00