EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVES	CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.		
					TOWN	HIGHWAY #61								
		0+20	814.17	814.17	0.00						0			
						30						163		
		+50	812.37	812.26	-0.11						293		C	282
						50						804	F	2685
		1+00	806.37	806.37	0.00						575		F FAC	1.15
						50						856	EX F	2806
		+50	800.37								350			
						50		0				478		
		2+00	794.37				29				123			
						50		45				182		
		+50	788.37				20				74			
						50		28				103		
		3+00	782.37	782.37	0.00		10				37			
						50		109				67		
		+50	776.37	777.15	+0.78		108				35			
						50		100				32		
		4+00	773.50	773.50	0.00		0				0			
					TOWN	HIGHWAY #13								
		0+20	803.45	803.45	0.00						0			
						30						45		
		+50	802.76	803.07	+0.31		0				51			
						50		17				69	C	119
		1+00	801.60	803.86	+2.26		18				23		F	137
						50		59				22	F FAC	1.15
		+50	806.10	806.42	+0.32		46				1		EX F	39
						50		43				1		
		2+00	810.60	810.60	0.00		0				0			
						50		0						
		+50	815.10											
					TOWN	HIGHWAY #5								
		0+20	776.04	776.04	0.00		0							
						30		79					C	242
		+50	776.50	776.52	+0.02		142						EX C	242
						50		147						
		1+00	782.00	782.00	0.00		17							
						50		16						
		+50					0							
		CARRIED FORWARD												
		COLUMN FOOTINGS						643				2822		

V.C.	% GRADE	STATION	GRADES ELEVATION ON TANGENT	GRADES ELEVATION ON CURVES	CORR V.C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.		
		CARRIED FORWARD												
		COLUMN FOOTINGS												

SUMMARY AND BALANCES

STATION TO STATION		TOTAL EXCAV EARTH & ROCK	ROCK EXCAV CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL
373+00	375+00	661	0	363	244		244	
375+00	380+00	4397	507	816	3710		3954	
380+00	385+00	16715	5586	1727	17494		21448	
385+00	390+00	3215	0	9015		7152	14296	
390+00	395+00	5482	0	0	5482		19778	
395+00	400+00	7129	0	98	7016		26794	
400+00	405+00	2183	0	4008		2426	24368	
405+00	410+00	3426	0	1228	2014		26382	
410+00	415+00	5068	0	648	4323		30705	
415+00	420+00	3188	0	553	2552		33257	
420+00	425+00	2839	0	7699		6015	27242	
425+00	430+00	10818	0	1613	8963		36205	
430+00	435+00	4909	219	985	3885		40090	
435+00	440+00	11015	2670	2673	9263		49353	
440+00	445+00	14468	6248	289	17228		66581	
445+00	450+00	9290	2522	3323	6717		73298	
450+00	455+00	4610	728	8723		5061	68237	
455+00	460+00	11968	7906	4049	11225		79462	
460+00	465+00	11342	3727	812	12253		91715	
465+00	470+00	3384	0	247	3100		94815	
470+00	475+00	7175	0	0	7175		101990	
475+00	480+00	1303	0	1266		153	101837	
480+00	485+00	7269	0	293	6932		108769	
485+00	490+00	4744	0	283	4419		113188	
490+00	491+50	2278	0	0	2278		115466	
SUB TOTALS		158876	30113	50711				
TOWN HIGHWAY #61		282	0	2685		2806	112660	
TOWN HIGHWAY #13		119	0	137		39	112621	
TOWN HIGHWAY #5		242	0	0	242		112863	
DRIVES		519	0	1943		1715	111148	
SUB TOTALS		1162	0	4765			111148	
TOTALS		160038	30113	55476			111148	

SHEET NO.	COL. NO.	SUMMARY BY COLUMNS EXCAVATION TOTAL CY	EXCAVATION ROCK CY	EMBANKMENT CY

REMARKS

EARTH AND ROCK EXCAVATION	160038
SOLID ROCK EXCAVATION	30113
EARTH EXCAVATION	129925
PLANIMETERED FILL	55476
LESS FACTORED SOLID ROCK (1.3)	39147
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	-
NET PLANIMETERED FILL	16329
FACTOR	0.15
PLANIMETERED FILL INCLUDING FACTOR	18778
MATERIALS AVAILABLE FOR FILLS	-
EARTH EXCAVATION	129925
CHANNEL EXCAVATION (60% X 1710)	1026
UNDERDRAIN EXCAVATION (60% X 4266)	2560
STRUCTURE EXCAVATION (60% X 1110)	666
TOTAL MATERIAL AVAILABLE FOR FILL	134177
TOTAL FILL INCLUDING FACTOR	18778
TOTAL MATERIAL FOR FILL	134177
BORROW	-
EXCESS EXCAVATION	115399

PROJECT NAME GROTON - RYEGATE
PROJECT NUMBER F026 -1(30)

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SHEET 17 OF 152 SHEETS

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