STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION km + m	DIST m	TOTAL EXCAVATION EARTH AND ROCK AREA m²	TOTAL EXCAVATION EARTH AND ROCK VOLUME m³	ROCK EXCAVATION AREA m²	ROCK EXCAVATION VOLUME m³	EMBANKMENT AREA m²	EMBANKMENT VOLUME m³	AREA m²	VOLUME m³
203.15 COMMON EXCAVATION (CM)									
1+120		0				0			
	10		22				5		
1+130		4				1			
	10		50				5		
1+140		6				0			
	10		63				2		
1+150		7				0			
	10		96				1		
1+160		12				0			
	10		121				4		
1+170		12				1			
	10		110				10		
1+180		10				1			
	10		97				16		
1+190		9				2			
	10		97				19		
1+200		10				2			
	10		101				21		
1+210		10				2			
	10		104				27		
1+220		11				3			
	10		105				27		
1+230		10				2		CUT	2125
	10		101				20	ROCK	0
1+240		10				2		R.FAC	1.00
	10		108				15	FILL	306
1+250		12				1		F.FAC	1.15
	10		123				11	EX. C	1773
1+260		13				1			.
	10		135				8		
1+270		14				1			
	10		133				7		
1+280		13				1			
	10		118				5		
1+290		11				0			
	10		103				11		
1+300		10				2			
	10		93				32		
1+310		9				4			
	10		95				39		
1+320		10				4			
	5		59				11		
1+325		14				1			
	5		56				5		
1+330		9				1			
	6		35				5		
1+336		5				1			
1+346		8				0			
	4		27				4		
1+350		9				2			
	7		62				16		
1+357		9				2			
	3		26				9		
1+360		9				4			
	10		90				31		
1+370		10				2			
	10		99				16		
1+380		10				1			
	10		108				5		
1+390		11				0		CUT	1080
	10		114				4	ROCK	0
1+400		11				0		R.FAC	1.000
	10		117				6	FILL	115
1+410		12				1		F.FAC	1.15
	10		143				7	EX. C	948
1+420		17				1			
	10		127				8		
1+430		9				1			
	10		77				5		
1+440		7				0			
	10		59				3		
1+450		5				0			
	10		31				2		
1+460		1				0			
208.30 COFFERDAM EXCAVATION,EARTH (CM)									
		TOTAL	204					CUT	204
								FAC	0.3
								FAC CUT	61

STATION km + m	DIST m	TOTAL EXCAVATION EARTH AND ROCK AREA m²	TOTAL EXCAVATION EARTH AND ROCK VOLUME m³	ROCK EXCAVATION AREA m²	ROCK EXCAVATION VOLUME m³	EMBANKMENT AREA m²	EMBANKMENT VOLUME m³	AREA m²	VOLUME m³
208.35 COFFERDAM EXCAVATION, ROCK (CM)									
ASSUME 10% COFFERDAM EXCAVATION EARTH IS ROCK									
		TOTAL	26					ROCK	26
								FAC	0.3
								FAC CUT	8
203.27 UNCLASSIFIED CHANNEL EXCAVATION (CM)									
4+965		0							
	5		0						
4+970		0							
	5		0						
4+975		0							
	5		0						
4+980		0							
	5		15						
4+985		6							
	0		0						
4+985		0							
	5		14						
4+990		6							
	5		30						
4+995		6							
	5		32						
5+000		7							
	5		35						
5+005		7							
	5		46						
5+010		12							
	5		45						
5+015		7							
	5		17						
5+015		0						CUT	234
	5		0					FAC	0.3
5+020		0						FAC CUT	70
							TOTAL	CUT	3681
							TOTAL	FILL	421

SUMMARY AND BALANCES

STATION TO STATION km + m	km + m	TOT EXC. EARTH & ROCK m³	ROCK EXCAV m³	EMBANK m³	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
1+120	1+336	2129	0	306	1778			
							1778	
1+346	1+460	1087	0	115	955			
							2733	

REMARKS

EARTH AND ROCK EXCAVATION	3707.00	
SOLID ROCK EXCAVATION	0.00	
EARTH EXCAVATION	3707.00	
PLANIMETERED FILL	421.00	
LESS FACTORED SOLID ROCK	0.00	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	0.00	
NET PLANIMETERED FILL	421.00	
FACTOR	1.15	
PLANIMETERED FILL INCLUDING FACTOR	484.00	
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION	3205.00	
CHANNEL EXCAVATION	70.00	
TRENCH EXCAVATION	608.00	30%
COFFERDAM EXCAVATION	61.00	
TOTAL MATERIAL AVAILABLE FOR FILL	3334.00	
TOTAL FILL INCLUDING FACTOR	484.00	
TOTAL MATERIAL FOR FILL	3334.00	
BORROW	0.00	
EXCESS EXCAVATION	2850.00	

EARTHWORK SHEET

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STP 037-2(9)

FILE NAME: 78f200\str\earthworks.xls
PROJECT LEADER: K. HIGGINS
DESIGNED BY: J. LACROIX
sf200ew.l

PLOT DATE: 14-JUL-2009
DRAWN BY: R. PELLETT
CHECKED BY: J. LACROIX
SHEET 8 OF 67