STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

Metric

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
US 7 SB									
9+747		13							
	13		169						
9+760		13							
	20		270						
9+780		14							
	20		310						
9+800		17				0			
	20		440				20		
9+820		27				2			
	20		690				20	CUT	7429
9+840		42				0		ROCK	0
	20		1000					R.FAC	0.495
9+860		58						FILL	40
	20		1230					F.FAC	1.15
9+880		65						EX. C	7383
	20		1310						
9+900		66							
	20		1160						
9+920		50							
	20		850						
9+940		35				0			
	20		590				230		
9+960		24				23			
	20		410				720		
9+980		17				49			
	20		300				1100		
10+000		13				61			
	20		240				1160		
10+020		11				55			
	20		230				990		
10+040		12				44			
	20		310				780		
10+060		19				34			
	20		370				500		
10+080		18				16		CUT	4098
	20		330				190	ROCK	0
10+100		15				3		R.FAC	0.495
	20		300				130	FILL	6280
10+120		15				10		F.FAC	1.15
	20		270				290	EX. F	-3124
10+140		12				19			
	20		250				190		
10+160		13				0			
	20		230						
10+180		10							
	20		190						
10+200		9							
	13		78						
10+213		3							
10+568		6				4			
	12		78				54		
10+580		7				5			
	20		140				100		
10+600		7				5			
	20		160				100		
10+620		9				5			
	20		230				80		
10+640		14				3			
	20		320				60		
10+660		18				3		CUT	3368
	20		360				40	ROCK	0
10+680		18				1		R.FAC	0.495
	20		360				10	FILL	444
10+700		18				0		F.FAC	1.15
	20		480					EX. C	2857
10+720		30							
	20		570						
10+740		27							
	20		470						
10+760		20							
	20		200						
10+780		0							
BRIDGE									
10+850		0							
	10		5						
10+860		1				0			
	20		40				20		
10+880		3				2			
	20		60				50		
10+900		3				3			
	20		60				50	CUT	375
10+920		3				2		ROCK	0
	20		60				20	R.FAC	0.495
10+940		3				0		FILL	190
	20		50				10	F.FAC	1.15
10+960		2				1		EX. C	157
	20		50				20		
10+980		3				1			
	20		50				20		

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
11+000		2				1			
	20		40				20		
11+020		2				1			
	20		40				20		
11+040		2				1			
	20		30				20		
11+060		1				1			
	20		20				10		
11+080		1				0			
	20		50				20		
11+100		4				2		CUT	720
	20		120				30	ROCK	0
11+120		8				1		R.FAC	0.495
	20		110				20	FILL	150
11+140		3				1		F.FAC	1.15
	20		100				10	EX. C	548
11+160		7				0			
	20		120						
11+180		5							
	20		90						
11+200		4							
	20		50						
11+220		1							
	20		20						
11+240		1						CUT	100
	20		20					ROCK	0
11+260		1						R.FAC	0.495
	20		10					FILL	0
11+280		0						F.FAC	1.15
								EX. C	100
OPTIONAL WASTE AREA									
9+750						0			
	10						550		
9+760						110			
	20						3080		
9+780						198			
	20						5090		
9+800						311			
	20						6640		
9+820						353			
	20						6790		
9+840						326			
	20						5650		
9+860						239		CUT	0
	20						4860	ROCK	0
9+880						247		R.FAC	0
	20						4910	FILL	54950
9+900						244		F.FAC	1
	20						4810	EX. F	-63193
9+920						237			
	20						4730		
9+940						236			
	20						4320		
9+960						196			
	20						3000		
9+980						104			
	10						520		
9+990						0			

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

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
US 7 SB								
9+747	9+940	7429	0	40	7383		56632	
9+940	10+213	4098	0	6280		-3124	53508	
10+568	10+780	3368	0	444	2857		56365	
10+850	11+000	375	0	190	157		56522	
11+000	11+200	720	0	150	548		57070	
11+200	11+280	100	0	0	100		57170	
OPTIONAL WASTE AREA								
9+750	9+990	0	0	54950		-63193		-6023
ESS-04 TOTALS		**16,090**	**0**	**62,054**				
ESS-03 TOTALS		**33,776**	**2,466**	**22,975**				
ESS-02 TOTALS		**29,132**	**0**	**15,800**				
ESS-01 TOTALS		**31,902**	**15,380**	**12,238**				
TEMP. ROADS		**13,301**	**0**	**3,116**				
RAMP G SWALE		**1,560**	**0**	**0**				
POND LINER EXC.			**3,010**	**0**				
PROJECT TOTALS		**125,761**	**20,856**	**116,183**				
PROJECT TOTAL BREAKDOWN								
VT 279 WB		20,906	15,380	6,558				
VT 279 EB		10,996	0	5,680				
RAMP F		7,617	0	12,180				
RAMP G		13,469	0	40				
RAMP I		3,036	0	2,940				
RAMP L		5,010	0	640				
RAMP N		2,632	0	64				
RAMP P		2,732	0	1,195				
RAMP Q		2,430	0	320				
RAMP R		1,020	0	6,432				
RAMP S		1,556	0	4,476				
RAMP T		178	0	1,839				
RAMP U		540	0	1,750				
US 7 NB		22,688	2,466	6,899				
US 7 SB		16,090	0	7,104				
WASTE AREA*		0	0	54,950				
TEMP. ROADS		13,301	0	3,116				
RAMP G SWALE		1,560	0	0				
POND LINER EXC.			3010	0				

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW
EXCESS EXCAVATION

Stantec

PROJECT NAME: BENNINGTON
PROJECT NUMBER: NH 019-1(54)

FILE NAME: ...\zd307c4det_earthworks.ptf
DESIGN SUPERVISOR: GREG EDWARDS
DESIGNED BY: MARC FOISY
EARTHWORKS SUMMARY SHEET ESS-04

PLOT DATE: 1/26/2010
DRAWN BY: STANTEC
CHECKED BY: GARY SANTY
SHEET 26 OF 468

1/26/2010 4:46:07 PM v:\1953\active\195300002\transportation\drawing\contract_4\plot_files\zd307c4det_earthworks.ptf