STATE OF VERMONT
AGENCY OF TRANSPORTATION

GRADES V. C.	GRADES % GRADE	STATION	ELEVATION ON TANGENT	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.	MUCK EXCAVATION AREA	MUCK EXCAVATION CU. YDS.
		13+00					117				137			
						50		219				444		
		+50					119				342			
						50		254				335		
		14+00					154				20			
						50		591				19		
		+50					483				1			
						50		1,050				1		
		15+00					650				0			
						50		1,478				0		
		+50					945				0			
						50		1,948				0		
		16+00					1,159				0			
						50		2,042				0		
		+50					1,046				0			
						50		1,795				0		
		17+00					893				0			
						50		1,586				0		
		+50					820				0			
						50		1,364				83		
		18+00					653				90			
						47.75		691				403		
		+47.75	STOP ROADWAY BEGIN BRIDGE				129				366			
		21+09.75	STOP BRIDGE RESUME ROADWAY				912				921		268	
						40.25		1,202				1,969		186
		+50					701				1,720		256	
						50		1,357				3,404		485
		22+00					765				1,956		278	
						50		1,519				3,769		494
		+50					875				2,114		288	
						50		1,719				4,066		524
		23+00					982				2,277		296	
						50		1,120				4,417		541
		+50					228				2,493		352	
						50		243				3,864		600
		24+00					34				1680		580	
						50		50				2,187		863
		+50					20				660		320	
						31.50		228				545		833
		+81.50	STOP ROADWAY BEGIN BRIDGE				370				275			
						18.50		339				188		
		25+00					620				275		336	
						50		1935				255		607
		+50					1470				0		128	
						41.49		1625				19		430
		+91.49	STOP BRIDGE RESUME ROADWAY				645				25			
						8.51		203				8		
		26+00					645				25		0	
						50		912				343		119
		+50					340				345		68	
						50		546				1,097		63
		27+00					250				840		116	
						50		361				2,144		170
		+50					140				1,475		184	
						50		167				2,682		278
		28+00					40				1,400		226	
						50		37				2,483		380
		+50					0				1,260		212	
						50		0				2,167		406
		29+00					0				1,080		180	
						50		0				1,622		383
		+50					0				672		80	
						50		0				1,111		241
			CARRIED FORWARD					26,581				39,565		7,583
			COLUMN FOOTINGS											

GRADES V. C.	GRADES % GRADE	STATION	ELEVATION ON TANGENT	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.	MUCK EXCAVATION AREA	MUCK EXCAVATION CU. YDS.
		30+00				0				528		68		
					50		0				806		137	
		+50				0				343		40		
					50		0				558		100	
		31+00				0				260		36		
					50		9				399		70	
		+50				10				171				
					50		71				205			
		32+00				67				50				
					50		221				46			
		+50				172				0				
					50		338				25			
		33+00				193				27				
					50		368				37			
		+50				204				13				
					50		378				20			
		34+00				204				9				
					50		315				48			
		+50				136				43				
					50		238				57			
		35+00				119				19				
					50		270				19			
		+50				173				1				
			WALDO LANE											
		+50				253				0				
					50		379				0			
		1+00				158				0				
					50		171				7			
		+50				29				8				
					50		31				43			
		2+00				5				38				
					50		14				69			
		+50				10				38				
					50		32				36			
		3+00				25				3				
					50		60				3			
		+50				40				0				
					50		74				0			
		4+00				40				0				
						TOTAL	761				158			
			CHANNEL LINE											
		1+25				30				0		55.6		
					25		27.7							
		+50				30				120		92.6		
					25		30.6							
		+75				36				80		60.2		
					25		90.7							
		2+00				160				50		69.4		
					25		120.4							
		+25				100				100		117.9		
					25		88.0							
		+50				90				175		92.6		
					25		55.6							
		+75				30				25				
						TOTAL	413.0				488.3			
			CARRIED FORWARD					3380				2866		307
			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
13+00	15+00	3592		799	2793			
15+00	20+00	9426		486	8940		11,733	
20+00	25+00	9712		24,389		14,677		2,944
25+00	30+00	3851		13,891		10,040		12,984
30+00	35+00	2206		2,220		14		12,998
MAINLINE	TOTAL	28,787		41,785				
WALDO	LANE	761		158				
CHANNEL	LINE	413		488				
COMMON EXCAVATION FOR WETLAND MITIGATION		2100						
COMMON EXCAVATION FOR DRIVEWAYS		55		15				
COMMON EXCAVATION BR #80 (MSE WALLS)		1460						
TOTALS		33,183		42,448				

SUMMARY BY COLUMNS

SHEET NO.	COL. NO.	EXCAVATION TOTAL CY	EXCAVATION ROCK CY	EMBANKMENT CY	MUCK EXCAV. CY
9	1	26581		39,565	
9	2	3380		2866	
9	1				7,583
9	2				307
LESS CHANNEL		(413)			
COMMON EXCAV. FOR WETLAND		2100			
DRIVES		55		15	
BR #80 (MSE WALLS)		1460			
TOTALS		33,183		42,448	7,890

REMARKS

EARTH EXCAVATION	33,183
SOLID ROCK EXCAVATION	750 EST.
COMMON EXCAVATION	33,183
MUCK EXCAVATION	7,890
PLANIMETERED FILL	42,446
LESS FACTORED SOLID ROCK	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	42,446
FACTOR	6,367
PLANIMETERED FILL INCLUDING FACTOR	48,813
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	5,521
CHANNEL EXCAVATION 80% X 413 =	248
UNDERDRAIN EXCAVATION 80% X 284 =	170
STRUCTURE EXCAVATION 80% X 520 =	312
TOTAL MATERIAL AVAILABLE FOR FILL	6,251
TOTAL FILL INCLUDING FACTOR	48,813
TOTAL MATERIAL FOR FILL	6,251
BORROW	42,562
EXCESS EXCAVATION	* 26,182

* WASTE DUE TO CONSTRUCTION SEQUENCING FOR PROJECT REQUIREMENTS

PROJECT NAME WALLINGFORD

PROJECT NUMBER BRS - 0137(13)

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