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
4+000		1.7				2.4			
	20		31				57		
4+020		1.4				3.3			
	20		22				65		
4+040		0.8				3.2			
	20		15				61		
4+060		0.7				2.9			
	20		14				57		
4+080		0.7				2.8			
	20		12				101		
4+100		0.5				7.2			
	20		6				140		
4+120		0.1				6.7			
	20		6				251		
4+140		0.6				18.4			
	20		6				474		
4+160		0.0				29.0			
	20		0				602		
4+180		0.0				31.2			
	20		0				513		
4+200		0.0				20.1			
	20		0				226		
4+220		0.0				2.5			
	20		6				25		
4+240		0.6				0.0			
	20		82				0		
4+260		7.6				0.0			
	20		154		1.1		0		
4+280		7.8		0.11		0.0			
	20		136		1.1		0		
4+300		5.8				0.0			
	20		114				0		
4+320		5.6				0.0			
	20		126				0		
4+340		7.0				0.0			
	20		141				0		
4+360		7.1				0.0			
	20		174				0		
4+380		10.3				0.0			
	20		224				0		
4+400		12.1				0.0			
FRANKLIN	20		232						
4+420		11.0				0.0			
	20		195				0		
4+440		8.5				0.0			
	20		91				20		
4+460		0.6				2.0			
	20		18				105		
4+480		1.2				8.5			
	20		13				242		
4+500		0.1				15.8			
								C=	1818
								F=	2939
								R=	2
								FR=	0.045
								FF=	1.15
TOTALS			1818		2		2939	EXF=	1561

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
4+500		0.1				15.8			
	20		19				216		
4+520		1.8				5.8			
	20		41				100		
4+540		2.3				4.2			
	20		42				101		
4+560		1.9				5.9			
	20		44				116		
4+580		2.5				5.7			
	20		25				114		
4+600		0.0				5.7			
	20		3				89		
4+620		0.3				3.2			
	20		16				138		
4+640		1.3				10.6			
	20		13				218		
4+660		0.0				11.1			
	20		2				246		
4+680		0.2				13.5			
	20		17				217		
4+700		1.6				8.2			
	20		100		14.1		105		
4+720		8.4		1.4		2.2			
	20		106		14.1		40		
4+740		2.2				1.8			
	20		26				106		
4+760		0.4				8.8			
	20		4				253		
4+780		0.0				16.5			
	20		3				367		
4+800		0.3				20.2			
	20		7				258		
4+820		0.4				5.7			
	20		30				93		
4+840		2.6				3.6			
	20		26				127		
4+860		0.0				9.1			
	20		4				129		
4+880		0.4				3.7			
	20		30				42		
4+900		2.6				0.4			
	20		74				8		
4+920		4.8				0.3			
	20		115				3		
4+940		6.8				0.0			
	20		151				0		
4+960		8.3				0.0			
	20		140				3		
4+980		5.7				0.3			
	20		200				106		
5+000		14.3				10.3			
								C=	1238
								F=	3195
								R=	28
								FR=	0.495
								FF=	1.15
TOTALS			1238		28		3195	EXF=	2422

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
5+000		14.3				10.3			
	20		151				284		
5+020		0.8				18.1			
	20		12				212		
5+040		0.4				3.1			
	20		12				31		
5+060		0.8				0.0			
	20		175				0		
5+080		16.7				0.0			
	20		341				0		
5+100		17.3				0.0			
	20		234				66		
5+120		6.0				6.6			
	20		81				215		
5+140		2.1				14.8			
	20		27				205		
5+160		0.6				5.7			
	20		6				83		
5+180		0.0				2.6			
	20		5				44		
5+200		0.5				1.8			
	20		14				34		
5+220		0.8				1.6			
	20		16				45		
5+240		0.8				2.9			
	20		17				49		
5+260		0.9				2.0			
	20		10				80		
5+280		0.1				6.0			
	20		18				172		
5+300		1.7				11.2			
	20		17				269		
5+320		0.0				15.6			
	20		0				376		
5+340		0.0				22.0			
	20		0				531		
5+360		0.0				31.1			
	20		0				670		
5+380		0.0				35.9			
	20		0				600		
5+400		0.0				24.1			
	20		0				415		
5+420		0.0				17.5			
	20		0				269		
5+440		0.0				9.4			
	20		13				137		
5+460		1.3				4.3			
	20		37				43		
5+480		2.3				0.0			
	20		83				0		
5+500		6.0				0.0			
								C=	1269
								F=	4830
								R=	0
								FR=	0.495
								FF=	1.15
TOTALS			1269		0		4830	EXF=	4286

SUMMARY AND BALANCES

STATION TO STATION km + m	km + m	TOTAL EXC. EARTH+ROCK m³	ROCK EXCAVATION m³	EMBANKMENT m³	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL

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

PROJECT NAME: HIGHGATE - FRANKLIN
PROJECT NUMBER: STP RS 0301(1) SA

FILE NAME: ...85c060/design/dc060frm.dgn
PROJECT LEADER: DELLASANTA
DESIGNED BY: SQUAD B
IPARM FILE NAME: dc060ew3.i
PLOT DATE: 09-MAY-2005
DRAWN BY: SQUAD B
CHECKED BY: SQUAD B
SHEET 22 OF 450