STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

Metric

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME		
km + m	m	m^2	m^3	m^2	m^3	m^2	m^3	m^2	m^3
Stowe St.									
1+059		0				0			
	16		0				0		
1+075		0				0			
	5		20				0		
1+080		8				0			
	7		68				0		
1+087		11				0			
	3		29				0		
1+090		8				0			
	7		27				11	CUT	157
1+097		0				3		ROCK	0
	3		0				9	R.FAC	0.495
1+100		0				3		FILL	47
	14		0				27	F.FAC	1.15
1+114		0				1		EX. C	103
1+068 RT (sidewalk)			3						
1+072 LT (sidewalk)			9						
1+092 RT (sidewalk)			1						
1+126		0				2			
	14		0				29		
1+140		0				2			
	10		15				11		
1+150		3				0			
	10		48					CUT	272
1+160		7						ROCK	0
	10		99					R.FAC	0.495
1+170		13						FILL	40
	10		85					F.FAC	1.15
1+180		4						EX. C	226
	10		26						
1+190		2							
Union St.									
10+005		8				1			
	5		40				5		
10+010		8				1			
	10		80				5		
10+020		8				0			
	5		43					CUT	207
10+025		9						ROCK	0
	5		25					R.FAC	0.495
10+030		1						FILL	10
	6		6					F.FAC	1.15
10+036		1						EX. C	195
10+005 LT & RT (sidewalk)			13						
Bidwell St.									
1+005		4							
	5		19						
1+010		4						CUT	51
	6		24					ROCK	0
1+016		4						R.FAC	0.495
	4		8					FILL	0
1+020		0						F.FAC	1.15
								EX. C	51
Railroad St.									
5+005		10				0			
	15		152				8		
5+020		10				1			
	6		66				3		
5+026		12				0			
	4		44				2		
5+030		10				1			
	5		50				3		
5+035		10				0			
	5		46				3		
5+040		8				1		CUT	618
	10		86				10	ROCK	0
5+050		9				1		R.FAC	0.495
	3		28				2	FILL	45
5+053		10				0		F.FAC	1.15
	2		19				0	EX. C	566
5+055		9				0			
	5		47				3		
5+060		9				1			
	10		66				8		
5+070		4				1			
	7		14				5		
5+077		0				1			
sidewalk									

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK	ROCK EXCAV	EMBANK	EXCESSES		ACUMULATIVE EXCESSES	
km + m	km + m	m^3	m^3	m^3	CUT	FILL	CUT	FILL
Stowe St.								
1+059	1+114	157		47	103		103	
1+126	1+190	272		40	226		329	
Union St.								
10+005	10+036	207		10	195		524	
Bidwell St.								
1+005	1+020	51			51		575	
Railroad St.								
5+005	5+077	618		45	566		1141	
Totals		1305		142	1141		1141	

REMARKS

EARTH AND ROCK EXCAVATION	1305
SOLID ROCK EXCAVATION	
EARTH EXCAVATION	1305
PLANIMETERED FILL	142
LESS FACTORED SOLID ROCK	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NEEDED TO FILL IN BASEMENT OF #202 RAILROAD ST.	358
NET PLANIMETERED FILL	500
FACTOR (15%)	1.15
PLANIMETERED FILL INCLUDING FACTOR	575
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	1305
CHANNEL EXCAVATION	
UNDERDRAIN EXCAVATION	
STRUCTURE EXCAVATION	2185
TOTAL MATERIAL AVAILABLE FOR FILL	3490
TOTAL FILL INCLUDING FACTOR	575
TOTAL MATERIAL FOR FILL	3490
BORROW	
EXCESS EXCAVATION	2915

PROJECT NAME: **WATERBURY**
PROJECT NUMBER: **BRO 1446(26)**

FILE NAME: **12-EARTHWORKS.XLS**
PROJECT LEADER: **G. EDWARDS**
DESIGNED BY: **M. MEILLEUR**
EARTHWORKS SHEET

PLOT DATE: **6/2/2003**
DRAWN BY: **M. MEILLEUR**
CHECKED BY: **R. GINGRAS**
SHEET **12** OF **63**