STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
13+00		26		0		0			
	50		51		1				
13+50		29		1		0			
	50		49		6		1		
14+00		24		5		1			
	50		41		11		2		
14+50		20		7		1			
	50		37		14		2		
15+00		20		8		1			
	50		38		12		1		
15+50		21		5		0			
	50		38		9		1		
16+00		20		5		1			
	25		18		5		1	CUT	388
16+25		18		5		1		ROCK	99
	25		17		5		1	R.FAC	.495
16+50		18		6		1		FILL	14
	25		17		6		1	F.FAC	1.15
16+75		18		6		1		EX. C	420
	25		17		6		1		
17+00		18		6		1			
	25		17		6		1		
17+25		18		7		1			
	25		17		6		1		
17+50		19		7		1			
	25		18		6		1		
17+75		19		6		1			
	25		15		6		1		
18+00		14		6		2			
	23		13		5		2		
18+23		16		5		2			
	27		18		6		2		
18+50		19		6		1			
	25		18		5		1		
18+75		19		5		2			
	25		18		5		2		
19+00		19		5		3			
	25		19		4		2		
19+25		21		4		2			
	25		18		4		2		
19+50		18		5		2		CUT	279
	50		29		9		7	ROCK	91
20+00		13		5		6		R.FAC	.495
	50		24		9		10	FILL	64
20+50		13		5		5		F.FAC	1.15
	50		28		9		7	EX. C	251
21+00		17		5		3			
	50		31		9		8		
21+50		16		5		6			
	50		19		9		7		
22+00		4		5		2			
	50		19		9		6		
22+50		16		5		5			
	50		29		8		6		
23+00		15		4		1			
	50		40		8		2		
23+50		28		5		1			
	50		57		9		3		
24+00		34		5		2			
	50		62		9		4		
24+50		33		5		2			
	50		65		9		3		
25+00		37		5		1			
	50		66		8		3	CUT	575
25+50		34		4		2		ROCK	81
	50		65		8		2	R.FAC	.495
26+00		36		5		0		FILL	21
	50		61		8		1	F.FAC	1.15
26+50		30		4		1		EX. C	591
	50		63		8		2		
27+00		38		5		1			
	50		66		9		2		
27+50		33		5		1			
	50		31		5		1		
28+00									

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
28+00		36		5		1			
	50		73		9		2		
28+50		43		5		1			
	50		68		9		6		
29+00		30		5		5			
	50		57		9		6		
29+50		32		5		1			
	50		61		9		2		
30+00		34		5		1			
	50		62		10		5	CUT	686
30+50		33		6		4		ROCK	99
	50		60		11		5	R.FAC	.495
31+00		32		6		1		FILL	30
	50		67		11		2	F.FAC	1.15
31+50		40		6		1		EX. C	701
	50		79		11		2		
32+00		45		6		1			
	50		81		10		1		
32+50		43		5		0			
	50		78		10		1		
33+00		41		6		1			
	50		72		11		1		
33+50		37		6		0			
	50		69		12		1		
34+00		38		7		1			
	50		73		13		2		
34+50		41		7		1			
	50		82		14		1		
35+00		48		8		0			
	50		59		13		1	CUT	656
35+50		16		6		1		ROCK	114
	50		47		10		2	R.FAC	.495
36+00		35		5		1		FILL	11
	50		63		9		2	F.FAC	1.15
36+50		33		5		1		EX. C	700
	50		67		10		1		
37+00		39		6		0			
	50		69		11				
37+50		35		6		0			
	50		55		11		1		
38+00		24		6		1			
	50		36		11		2		
38+50		15		6		1			
	50		55		11		2		
39+00		44		6		1			
	50		95		11		19		
39+50		59		6		19			
	50		84		11		19		
40+00		32		6		1			
	50		65		10		1	CUT	767
40+50		38		5		0		ROCK	126
	50		87		11			R.FAC	.495
41+00		56		7		0		FILL	47
	50		109		15			F.FAC	1.15
41+50		62		9		0		EX. C	775
	50		94		16		1		
42+00		39		8		1			
	50		75		15		2		
42+50		42		8		1			
	50		67		15		3		
43+00		30		8		2			
	50		57		14		3		
43+50		32		7		1			
	50		74		12		1		
44+00		48		6		0			
	50		72		11		1		
44+50		30		6		1			
	50		56		12		2		
45+00		30		7		1			
	50		58		15		2	CUT	544
45+50		33		9		1		ROCK	128
	50		61		16		2	R.FAC	.495
46+00		33		8		1		FILL	39
	50		61		15		1	F.FAC	1.15
46+50		33		8		0		EX. C	563
	50		45		14		5		
47+00		16		7		5			
	50		37		13		14		
47+50		24		7		10			
	50		22		6		9		
48+00									

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
48+00		20		6		3			
	50		42		12		4		
48+50		25		7		1			
	50		78		15		1		
49+00		59		9		0			
	25		44		9		1		
49+25		36		10		2			
	25		34		9		2		
49+50		38		10		3			
	50		63		19		4		
50+00		30		10		1		CUT	701
	50		62		17		2	ROCK	141
50+50		37		8		1		R.FAC	.495
	50		80		13		1	FILL	15
51+00		49		6		0		F.FAC	1.15
	50		90		11			EX. C	754
51+50		48		6		0			
	50		64		12				
52+00		21		7		0			
	50		63		12				
52+50		47		6		0			
	50		82		12		1		
53+00		42		7		1			
	50		81		12		2		
53+50		46		6		1			
	50		98		11		2		
54+00		60		6		1			
	50		84		11		2		
54+50		31		6		1			
	50		60		11		1		
55+00		34		6		0			
	50		63		11		1		
55+50		34		6		1		CUT	694
	50		77		12		2	ROCK	90
56+00		49		7		1		R.FAC	.495
	50		75		13		4	FILL	27
56+50		32		7		3		F.FAC	1.15
	25		30		6		2	EX. C	708
56+75		33		7		1			
	25		29		3		2		
57+00		30		0		3			
	50		52		0		6		
57+50		26		0		3			
	50		44		0		5		
58+00		22		0		2			
	50		42		0		8		
58+50		23		0		7			
	50		42		0		22		
59+00		22		0		17			
	50		37		0		32		
59+50		18		0		18			
	50		65		0		24		
60+00		52		0		8			
	50		75		0		13	CUT	389
60+50		29		0		6		ROCK	0
	50		41		0		19	R.FAC	.495
61+00		15		0		14		FILL	178
	50		28		0		27	F.FAC	1.15
61+50		15		0		15		EX. C	184
	50		28		0		19		
62+00		15		0		5			
	50		23		0		9		
62+50		10		0		5			
	50		9		0		5		
63+00									

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
13+00	18+00	388	99	14	420		420	
18+00	23+00	279	91	64	251		671	
23+00	28+00	575	81	21	591		1262	
28+00	33+00	686	99	30	701		1963	
33+00	38+00	656	114	11	700		2663	
38+00	43+00	767	126	47	775		3438	
43+00	48+00	544	128	39	563		4001	
48+00	53+00	701	141	15	754		4755	
53+00	58+00	694	90	27	708		5463	
58+00	63+00	389	0	178	184		5647	
63+00	68+00	323	2	35	284		5931	
68+00	71+28	181	0	18	161		6092	
DRIVES		431	0	0	431		6523	
STONE FILL EXCAV.		75	0	0	75		6598	
TOTALS		6689	971	499	6598		6598	

REMARKS

EARTH AND ROCK EXCAVATION		6689
SOLID ROCK EXCAVATION		971
EARTH EXCAVATION		5718
PLANIMETERED FILL		499
LESS FACTORED SOLID ROCK (=0: F<1.3R; CASE II Crit. Actual=1262 CY)		0
LESS DISPLACEMENT OF ANY LARGE STRUCTURES		0
NET PLANIMETERED FILL		499
FACTOR		75
PLANIMETERED FILL INCLUDING FACTOR		574
MATERIALS AVAILABLE FOR FILLS		0
EARTH EXCAVATION		5718
CHANNEL EXCAVATION		0
UNDERDRAIN EXCAVATION		0
STRUCTURE EXCAVATION		198
TOTAL MATERIAL AVAILABLE FOR FILL		
TOTAL FILL INCLUDING FACTOR		574
TOTAL MATERIAL FOR FILL		5916
BORROW		
EXCESS EXCAVATION (CASE II Criteria: (C1+R)+0.3R-F since F<1.3R)		6679

PROJECT NAME: **BURLINGTON**
PROJECT NUMBER: **MEGC 5000(15)**

JUL 30 2004

FILE NAME: **89109earth.xls**
PROJECT LEADER: **J. WARNER**
DESIGNED BY: **J. WARNER**
EARTHWORK SHEET #1

PLOT DATE: **6/10/2004**
DRAWN BY: **H. CARLSON**
CHECKED BY: **J. WARNER**
SHEET **13** OF **252**