EARTHWORK

V. C.	% GRADE	STATION	GRADES: ELEVATION ON TANGENT	GRADES: ELEVATION ON V. CURVES	GRADES: CORR. V. C.	DIST.	COMMON AREA	COMMON CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	SUBBASE OF GRAVEL AREA	SUBBASE OF GRAVEL CU. YDS.	GRAVEL SURFACE COURSE AREA	GRAVEL SURFACE COURSE CU. YDS.
		APPROACH WORK												
		TH #1												
		STA 40+50	MATCH EXISTING GRADE				0				0		0	
						50		19				21		9
		41+00	294.66				20		0		23		10	
						25		9		8		22		10
		41+25	295.61				0		17		24		12	
						25				25		24		12
		41+50	296.56				0		37		28		13	
						25				48		27		13
		41+75	297.51				0		55		30		15	
						25		4		49		28		13
		REV. STA	BEGIN PROJECT-CONSTRUCT SATISFACTORY APPROACH											
		83+13.32	298.46				8		50		31		15	
						25		8		40		29		13
		83+38.5	299.42				9		37		31		15	
						25		5		40		29		13
		83+63.7	300.37				0		50		32		15	
						25		3		49		31		14
		83+88.7	301.32				7		55		35		16	
						25		3		52		32		15
		84+13.8	302.28				0		58		35		17	
						25				59		32		15
		84+38.8	303.23				0		70		34		16	
						25		2		69		32		15
	+3.8%	84+63.9	304.18				5		80		35		16	
PVC						12.26								
		84+76.23	304.65	304.65	0									
						12.74		5		129		50		23
		84+88.9	305.13	305.11	-.02									
						13.62								
		85+02.59	305.65	305.55	-.10		2		100		35		16	
						25		1		91				
		85+27.59	306.60	306.21	-.39		0		96			66	—	30
						25		2		105				
		85+52.59	307.55	306.68	-.87		5		130		35		16	
						25		2		178		38		17
		85+77.59	308.50	306.97	-1.53		0		255		47		21	
						25				396		53		25
		86+02.59	309.45	307.07	-2.38				600		67		33	
						1.14								
PVT		86+03.73	309.50	307.08	-2.42					552		60		30
		TH #36	APPROACH WORK			23.86								
		STA 11+25	308.59	306.99	-1.60				592		63		31	
						25				340		47		23
		11+50	307.64	306.72	-.92				186		39		18	
						25				156		32		15
		11+75	306.69	306.26	-.43				150		31		14	
						25				123		28		13
		12+00	305.74	305.62	-.12				116		30		14	
						25				87		22		13
	-3.8%	12+25	304.79	304.79	0				72		28		13	
						3.64								
PVT		12+28.64	304.65	304.65	0									
						1.36				51		26		12
PVC		12+30	304.60	304.60	0									
						20								
		12+50	303.84	303.92	.08				38		27		12	
						25				25		25		11
		12+75	302.89	303.28	.39		0		15		26		12	
						25		21		9		25		12
PVT		13+00	301.94	302.89	.95		46		5		27		13	
						50		43				25		12
		13+50	302.74	302.82	.08		0				0		0	
		END APPROACH				20								
PVT		13+70	303.06	303.06	0									

255' VC

140' VC

MATCH EXISTING GRADE

DRAINAGE SUMMARY

		STA.	DIA	LENGTH	THICK.	TRENCH EARTH
	TH #1 REV.	83+47	18"	50'	0.064"	11 CY
	TH 36 STA.	13+00	18"	40'	0.064"	14 CY
NEW				90 Ft.		25 CY
	TH #1 REV.	84+30	12"	56'	0.064"	5 CY
	TH #1 REV.	85+31	12"	32'	0.064"	4 CY
				88 Ft.		9 CY
REMOVE EXISTING	TH 36 STA.	11+25	18"	30'	0.064"	12 CY
	TH 36 STA	11+82	18"	26'	0.064"	10 CY
	TOTAL TRENCH			56'		22 CY
						56 CY
					ROUNDING	4 CY
	TOTAL TRENCH EXCAVATION =					60 CY

CARRIED FORWARD

COLUMN FOOTINGS

EARTHWORK

V. C.	% GRADE	STATION	GRADES: ELEVATION ON TANGENT	GRADES: ELEVATION ON V. CURVES	GRADES: CORR. V. C.	DIST.	COMMON AREA	COMMON CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	SUBBASE OF GRAVEL AREA	SUBBASE OF GRAVEL CU. YDS.	GRAVEL SURFACE COURSE AREA	GRAVEL SURFACE COURSE CU. YDS.
		TH #1												
		REV. STA												
		86+03.73	307.08											
PVC						10.77								
		86+14.50	307.79	307.79	0									
						10.5								
		86+25	308.48	308.47	-.01									
						25								
		86+50	310.13	310.03	-.10									
						50								
	+6.6%	87+00	313.43	312.85	-.58									
						50								
		87+50	316.73	315.26	-1.47									
						50								
		88+00	320.03	317.28	-2.75									
						14.5								
PVT		88+14.5	320.99	317.79	-3.20									
						35.5								
		88+50	321.06	318.90	-2.16									
						50								
		89+00	321.16	320.11	-1.05									
						50								
		89+50	321.26	320.93	-.33									
						26								
		89+76	321.31	321.19	-.12						42		20	
						24						37		18
	+0.2%	90+00	321.36	321.34	-.02						42		20	
						14.5						37		17
PVT		90+14.5	321.39	321.39	0									
						10.5								
		90+25	321.41								37		17	
						25						35		17
		90+50	321.46								39		19	
						10						16		
		90+60	321.48								49		22	8
						34						88		
		90+94	321.55								90		29	32
				APPROACH WORK				96		936		357		168
				+ ROUNDING				4		4		3		2
				TOTAL APPROACH WORK				100		940		360		170
				TH #1				31		1760		664		302
				ROUNDING				9		0		6		8
				TOTAL TH #1				40		1760		670		310
									CHAN	5280	CHAN	1060		
									DRIVES	60			DRIVES	70
				- SUBTRACT GRANULAR BORROW						-5260				
				TOTALS				140		2780		2090		550

400' VC

EARTHWORK SUMMARY

PLANIMETERED FILL	=	2780
FILL FACTOR (0.15)	=	417
PLANIMETERED FILL + FACTOR		3197

MATERIALS AVAILABLE

COMMON EXCAVATION	140 X 1.00 =	140
UNCLASSIFIED CHANNEL EXCAVATION	2380 X 0.6 =	1428
TOTAL MATERIAL AVAILABLE FOR FILL		1568
TOTAL FILL INCLUDING FACTOR		3197
EARTH BORROW NEEDED		1629
ROUNDING		1
TOTAL		1630

CARRIED FORWARD

COLUMN FOOTINGS

EARTHWORK SUMMARY

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

SUMMARY OF BALANCES: STATION TO STATION		TOTAL EXCAV. EARTH & ROCK CUBIC YARDS	ROCK EXCAV. CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL		BASE CUBIC YARDS

SHEET NO.	COL. NO.	SUMMARY BY COLUMNS: EXCAVATION TOTAL CU. YDS.	EXCAVATION ROCK CU. YDS.	EMBANKMENT CUBIC YARDS		BASE CUBIC YARDS

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

PROJECT GEORGIA

PROJECT GEORGIA NO. BRZ 1448(3)

SHEET 15 OF 61 SHEETS