EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

GRADES (Mainline)

V. C.	% 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.	AREA	CU. YDS.
		12+00					46				0			
						50		127				31		
		+50					91				34			
						50		160				85		
		13+00					82				58			
						50		139				93		
		+50					68				42			
						50		90				135	C	572
		14+00					29				104		F	770
						50		38				188	FFAC	1.15
		+50					12				99			
						50		18				238	EXF	314
		15+00					7				158			
						50		9				345		
		+50					3				215			
						50		5				422		
		16+00					2				241			
						49		24				493		
		+49					24				302		C	792
						50		59				664	F	5013
		+99					40				415		FFAC	1.15
						50		97				792		
		17+49					65				440		EXF	4973
						50		218				882		
		+99					170				513			
						51		289				924		
		18+50					136				465			
						21		–				362		
		18+71				36	–	91			465			
						15		–				129		
		18+86					0				0			
			BRIDGE			–		–				–		
		21+24					0				0			
						10		0				37		
		+34					0				202			
						13		43				116		
		+47					179				280			
						50		286				379		
		+97					130				129			
						49		187				207	C	1531
		22+46					76				99		F	1308
						50		131				188	FFAC	1.15
		+96					65				104			
						50		125				169	EXC	27
		23+46					70				79			
						50		147				121		
		+96					89				52			
						50		183				68		
		24+46					109				21			
						50		217				19		
		+96					125				0			
						50		162				2		
		25+46					50				2			
						54		50				2		
		26+00					0				0			
		CARRIED FORWARD												
		COLUMN FOOTINGS						2895				7091		

GRADES (Town Highway #35)

V. C.	% 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.	AREA	CU. YDS.
		TOWN HIGHWAY #35												
		AREA FROM PLAN:												
		TH 35 STA 0+25 TO 0+85												
		[(2228 SF)(AVG. DEPTH 3.2')]/27=										264		
		ADDDITIONAL FILL FROM CHANNEL SECTIONS 50+30 TO 51+00 RT =										120		
		0+85					0				127			
						55		39				205		
		+39					38				74		C	303
						54		63				170	F	886
		+93					25				96		FFAC	1.15
						53		57				111		
		2+46					33				17		EXF	716
						52		74				16		
		2+98					44				0			
						52		58				0		
		3+50					16				0			
						20		12				0		
		3+70					16				0			
		DRIVES/FIELD ENTRANCES						15				440	C	15
													F	440
													FFAF	1.15
													EXF	491
		CARRIED FORWARD						2895				7091		
		COLUMN FOOTINGS						3213				8417		

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
11+50	15+00	572		770		314		
								314
15+00	20+00	792		5013		4973		
								5287
20+00	26+00	1531		1308	27			
								5260
MAINLINE TOTAL		2895		7091				
								5260
TH 35		303		886		716		
								5976
FIELD ENTRANCES		15		440		491		
								6467
SUBTOTAL		3213		8417				6467
TRENCH EXCAVATION		132		0	132			
								6335
UNCLASSIFIED CHANNEL EXCAVATION		635		0	635			
								5700
MATERIAL EXCAVATED FROM COFFERDAMS		420		0	420			
								5280
PROJECT TOTAL		5100		8417				5280

SUMMARY BY COLUMNS

SHEET NO.	COL. NO.	EXCAVATION TOTAL CY	EXCAVATION ROCK CY	EMBANKMENT CY		

REMARKS

EARTH AND ROCK EXCAVATION	3213
SOLID ROCK EXCAVATION	
EARTH EXCAVATION	3213
PLANIMETERED FILL	8417
LESS FACTORED SOLID ROCK (1.30)	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	8417
FACTOR (0.15)	1263
PLANIMETERED FILL INCLUDING FACTOR	9680
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	3213
UNCLASSIFIED CHANNEL EXCAVATION	635
UNDERDRAIN EXCAVATION	
MATERIAL EXCAVATED FROM COFFERDAMS	420
TRENCH EXCAVATION (SPECIAL DITCH)	132
TOTAL MATERIAL AVAILABLE FOR FILL	5100
TOTAL FILL INCLUDING FACTOR	9680
TOTAL MATERIAL FOR FILL	5100
BORROW	5280
EXCESS EXCAVATION	

PROJECT NAME BRAINTREE
PROJECT NUMBER BRS 0187(6)

90282EWK.DWG (1=1)