STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
VERMONT ROUTE 11									
32+65		0				0			
	33		22				0		
32+98		36				0			
	2		4				0		
33+00		63				0			
	50		192				0	CUT	428
33+50		145				0		ROCK	13
	50		190				0	R.FAC	0.495
34+00		60				0		FILL	0
	17		19				0	F.FAC	1.15
34+17		0						EX. C	428
STONE FILL, TYPE II OUTLET PROTECTION									
10+10		907	67			0		CUT	67
								ROCK	2
								R.FAC	0.495
								FILL	0
								F.FAC	1.15
								EX. C	67

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
PERU STP SCRP(4)								
32+48	34+67	428	-	0	428	-	428	-
9+89	10+13	67	-	0	67	-	495	-
3% CONTINGENCY		-	15	-	15	-	510	-
SUB-TOTAL		495	15	0	510	0	510	-
TOTAL		495	15	0	510	0	510	-

REMARKS

EARTH AND ROCK EXCAVATION	510
SOLID ROCK EXCAVATION	15
EARTH EXCAVATION	495
BACKFILL FOR TRENCH EXCAVATION (CB AND PIPES)	
PLANIMETERED FILL	0
LESS FACTORED SOLID ROCK	0
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	0
NET PLANIMETERED FILL	0
FACTOR	1.15
PLANIMETERED FILL INCLUDING FACTOR	0
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION (COMMON)	495
CHANNEL EXCAVATION	0
UNDERDRAIN EXCAVATION	0
STRUCTURE EXCAVATION (see note 1)	4740
TRENCH EXCAVATION FOR DRAINAGE (see note 2)	95
TRENCH EXCAVATION OF ROCK	0
TOTAL MATERIAL AVAILABLE FOR FILL	4145
TOTAL MATERIAL FOR FILL	4145
FILL MATERIAL REQUIRED	3650
EXCESS EXCAVATION	495

Notes:
1) 75% of Struct. Ex. is assumed to be reusable in the trench
2) All of Trench Ex. Earth is assumed to be resuable in the trench

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: PERU
PROJECT NUMBER: STP SCRP(4)

FILE NAME: z07b106ewqty.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: M. BRADLEY
EARTHWORKS SHEET

PLOT DATE: 12/31/2014
DRAWN BY: M. BRADLEY
CHECKED BY: E. ATKINS
SHEET 25 OF 45