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.		
RAMP "B"									
53+00		0				0			
	50		64						
53+50		70				0			
	50		189						
54+00		135				0			
	50		254						
54+50		140				0			
	50		290				3		
55+00		173				3			
	50		325				5		
55+50		178				2			
	50		328				3		
56+00		176				2			
	50		342				2	CUT	3962
56+50		193				0		ROCK	0
	50		397					R.FAC	.495
57+00		236				0		FILL	15
	50		446					F.FAC	1.15
57+50		246				0		EX. C	3945
	50		470						
58+00		262				0			
	50		333						
58+50		97				0			
	50		206				1		
59+00		125				1			
	50		234				1		
59+50		128				0			
	18		84				0		
59+68		128				0			
SLIP RAMP									
80+00		180							
	50		325						
80+50		171							
	50		379						
81+00		238						CUT	1586
	50		415					ROCK	0
81+50		210						R.FAC	.495
	27		196					FILL	0
81+77		181						F.FAC	1.15
	81		271					EX. C	1586
82+58		0							

VT ROUTE 15

VOLUME OF COMMON EXCAVATION WITHIN THE FOOTPRINT OF THE ISLAND WORK AREAS WERE CALCULATED BY THE DEPTH OF EXCAVATION REQUIRED MULTIPLIED BY THE AREA OF THE EXCAVATION.

AREA OF ISLAND WORK =	1963	SF
DEPTH OF CUT =	30	INCHES
COMMON EXCAVATION =	182	CY
AREA OF ISLAND WORK =	95	SF
DEPTH OF CUT =	5	INCHES
COMMON EXCAVATION =	1	CY

VOLUME OF SOLID ROCK EXCAVATION ACCOUNT FOR REMOVAL OF CONCRETE SLAB ON VT ROUTE 15.

SOLID ROCK EXCAVATION =	55	CY

SIDEWALK CONSTRUCTION

REMOVAL OF EXISTING SIDEWALK

COMMON EXCAVATION =	33	CY

COMMON EXCAVATION FOR SIDEWALK SUBBASE

DEPTH OF SUBBASE =	6	INCH	(FROM STD. A-76)
AREA OF NEW SIDEWALK =	343	SY	

SUBBASE EXCAVATION FOR SIDEWALK

COMMON EXCAVATION =	57	

CONSTRUCTION PHASING

COMMON EXCAVATION =	1297	CY
EARTH BORROW =	260	CY

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
53+00	59+68	3962		15	3945		3945	
80+00	82+58	1586		0	1586		5531	
VT ROUTE 15		238	55	0	238		5769	
SIDEWALK CONSTRUCTION		90		0	90		5859	
CONSTRUCTION PHASING		1297		260	998		6857	
TOTALS		7173	55	275	6857			

REMARKS

EARTH AND ROCK EXCAVATION		7173
SOLID ROCK EXCAVATION		55
EARTH EXCAVATION		7118
BACKFILL FOR TRENCH EXCAVATION (CB AND PIPES)		52
PLANIMETERED FILL		275
LESS FACTORED SOLID ROCK		
LESS DISPLACEMENT OF ANY LARGE STRUCTURES		
NET PLANIMETERED FILL		327
FACTOR		1.15
PLANIMETERED FILL INCLUDING FACTOR		376
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION		7118
CHANNEL EXCAVATION		
UNDERDRAIN EXCAVATION		478
STRUCTURE EXCAVATION		
TRENCH EXCAVATION FOR DRAINAGE		62
TRENCH EXCAVATION OF ROCK		21
TOTAL MATERIAL AVAILABLE FOR FILL		7679
TOTAL FILL INCLUDING FACTOR		376
TOTAL MATERIAL FOR FILL		7679
BORROW		
EXCESS EXCAVATION		7303

PROJECT NAME: **WINOOSKI**
PROJECT NUMBER: **NH 089-3(65)**

FILE NAME: **Z94A198EWQTY.XLS**
PROJECT LEADER: **KEN UPMAL**
DESIGNED BY: **E.ATKINS**
EARTHWORK SHEET

PLOT DATE: **2/19/2010**
DRAWN BY: **A. ACHARYA**
CHECKED BY: **E.ATKINS**
SHEET **11** OF **67**