EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

STATION	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.		
21+45		437.2				1.1			
	55		693.6				4.1		
22+00		243.8				3.0			
	50		441.9				2.8		
22+50		233.4				0.1			
	50		440.9				0.1	CUT=	3697.2
23+00		242.7				0.0		FILL=	9.4
	50		445.8				0.0	F-FAC=	1.15
23+50		238.7				0.0			
	50		432.7				1.2	EX_C=	3686.4
24+00		228.7				1.3			
	50		431.8				1.2		
24+50		237.7				0.0			
	50		422.8				0.0		
25+00		218.9				0.0			
	50		387.7				0.0		
25+50		199.8				0.0			
	50		323.4				0.0		
26+00		149.5				0.0			
	50		245.7				0.0		
26+50		115.8				0.0			
	50		195.3				0.1		
27+00		95.1				0.1			
	50		143.4				1.4	CUT=	1490.4
27+50		59.8				1.3		FILL=	1049.3
	50		71.9				14.7	F-FAC=	1.15
28+00		17.9				14.6			
	50		21.0				48.0	EX_C=	283.7
28+50		4.8				37.2			
	50		10.9				179.5		
29+00		7.0				156.7			
	50		16.3				278.9		
29+50		10.6				144.5			
	50		122.7				268.7		
30+00		121.9				145.7			
	50		339.8				258.0		
30+50		245.1				132.9			
	50		627.6				225.4		
31+00		432.8				110.6			
	50		1318.3				206.4		
31+50		991.0				112.3			
	50		1934.6				214.4		
32+00		1098.4				119.2			
	50		1930.3				213.8	CUT=	12615.5
32+50		986.3				111.7		FILL=	3025.6
	50		1690.5				204.6	F-FAC=	1.15
33+00		839.4				109.3			
	50		1528.7				220.4	EX_C=	9136.1
33+50		811.6				128.7			
	50		1372.2				270.7		
34+00		670.4				163.7			
	50		1076.0				354.1		
34+50		491.8				218.8			
	50		700.0				494.5		
35+00		264.2				315.3			
	50		437.3				621.3		
35+50		208.0				355.7			
	50		424.0				601.2		
36+00		249.9				293.6			
	50		240.6				484.7		
36+50		9.9				229.9			
	50		19.8				365.0		
37+00		11.5				164.3			
	50		65.3				190.0	CUT=	2785.8
37+50		59.0				40.8		FILL=	1678.7
	50		174.1				37.8	F-FAC=	1.15
38+00		129.0				0.0			
	50		306.8				0.0	EX_C=	855.3
38+50		202.4				0.0			
	50		453.9				0.0		
39+00		287.9				0.0			
	50		537.5				0.0		
39+50		292.7				0.0			
	50		563.8						

STATION	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.		
40+00		316.3				0.0			
	50		550.3				0.0		
40+50		278.0				0.0			
	50		539.2				0.0		
41+00		304.3				0.0			
	50		484.3				0.4		
41+50		218.7				0.4			
	50		360.6				1.0		
42+00		170.8				0.7		CUT=	4702.6
	50		329.7				0.6	FILL=	3.5
42+50		185.3				0.0		F-FAC=	1.15
	50		357.9				0.0		
43+00		201.2				0.0		EX_C=	4698.6
	50		397.4				0.5		
43+50		228.0				0.5			
	50		419.1				0.5		
44+00		224.7				0.0			
	50		499.2				0.1		
44+50		314.4				0.1			
	50		438.9				0.2		
45+00		159.6				0.1			
	50		326.0				0.2		
45+50		192.5				0.1			
	50		402.8				0.1		
46+00		242.5				0.0			
	50		398.9				0.4		
46+50		188.4				0.4			
	50		362.9				0.6		
47+00		203.6				0.3			
	50		367.5				0.3	CUT=	3658.8
47+50		193.3				0.0		FILL=	14.1
	50		359.3				2.3	F-FAC=	1.15
48+00		194.7				2.5			
	50		378.2				2.3	EX_C=	3642.6
48+50		213.8				0.0			
	50		379.5				0.0		
49+00		196.0				0.0			
	50		361.2				0.7		
49+50		194.1				0.7			
	50		347.2				1.4		
50+00		180.9				0.8			
	50		301.3				6.0		
50+50		144.5				5.8			
	50		276.2				9.3		
51+00		153.9				4.2			
	50		303.1				4.6		
51+50		173.6				0.8			
	50		306.9				0.7		
52+00		157.9				0.0			
	50		327.6				2.0		
52+50		196.0				2.1		CUT=	3516.5
	50		382.4				2.0	FILL=	24.2
53+00		217.0				0.0		F-FAC=	1.15
	50		467.6				0.0		
53+50		288.0				0.0		EX_C=	3488.7
	50		455.4				0.0		
54+00		203.8				0.0			
	50		363.9				0.0		
54+50		189.2				0.0			
	50		318.5				1.9		
55+00		154.8				2.0			
	50		314.9				3.7		
55+50		185.3				2.0			
	50		329.3				4.4		
56+00		170.4				2.7			
	50		318.3				5.0		
56+50		173.3				2.6		CUT=	2114.5
	50		344.0				2.7	FILL=	13.6
57+00		198.2				0.3		F-FAC=	1.15
	50		326.7				0.9		
57+50		154.6				0.7		EX_C=	2098.9
	50		260.1				0.6		
58+00		126.3				0.0			
	50		255.9				0.0		
58+50		150.1				0.0			
	50		280.2				0.0		

STATION	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.		
59+00		152.5				0.0			
	50		182.9				0.0		
59+50		45.0				0.0		CUT=	182.9
								FILL=	0.0
								F-FAC=	1.15
								EX_C=	182.9

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
21+45	25+00	3697.2		9.4	3686.4		3686.4	
25+50	30+00	1490.4		1049.3	283.7		3970.1	
30+50	35+00	12615.5		3025.6	9136.1		13106.2	
35+50	39+50	2785.8		1678.7	855.3		13961.5	
40+00	45+00	4702.6		3.5	4698.6		18660.1	
45+50	50+00	3658.8		14.1	3642.6		22302.7	
50+50	55+00	3516.5		24.2	3488.7		25791.4	
55+50	58+50	2114.5		13.6	2098.9		27890.3	
59+00	59+87.5	182.9		0	182.9		28073.2	

REMARKS

EARTH AND ROCK EXCAVATION (37818.2 + 6773.5 + 1079.0) = 45670.7		
SOLID ROCK EXCAVATION (CONC. PVMT. EST. FROM 1931 REC. PLANS)		1650
EARTH EXCAVATION		44020.7
PLANIMETERED FILL		5818.4
LESS FACTORED SOLID ROCK		
LESS DISPLACEMENT OF ANY LARGE STRUCTURES		
NET PLANIMETERED FILL		
FACTOR		1.15
PLANIMETERED FILL INCLUDING FACTOR		6691.2
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION		44020.7
CHANNEL EXCAVATION		
UNDERDRAIN EXCAVATION	(2458.8X60%)	1475.3
STRUCTURE EXCAVATION	(2750X60%)	1650
TOTAL MATERIAL AVAILABLE FOR FILL		47146.0
TOTAL FILL INCLUDING FACTOR		6691.2
TOTAL MATERIAL FOR FILL		47146.0
BORROW		
EXCESS EXCAVATION		40454.8

PROJECT NAME: HARTFORD
PROJECT NUMBER: RS 0113(40)

FILE NAME: z86c027qty.DGN
PROJECT LEADER: KEN UPMAL
DESIGNED BY: E. ATKINS/K. ISHIKURA

PLOT DATE: 1/11/2007
DRAWN BY: A. DUMITRU
CHECKED BY: K. ISHIKURA
SHEET 15 OF 239