

EARTHWORK

EARTHWORK

EARTHWORK SUMMARY

STATE OF VERMONT
DEPARTMENT OF
HIGHWAYS

V.C.	% GRADE	GRADES				TOTAL EXCAVATION EARTH AND ROCK		EMBANKMENT		BASE	
		STATION	ELEVATION ON TANGENT	ON V. CURVES	CORR. V.C.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
		32+00	491.85	TH #49							
		+50	492.06								
		+95	492.25								
		33+00	492.27	492.27	0.00						
		+50	492.48	492.69	+0.21						
		34+00	492.69	493.46	+0.77						
		+50	492.90	494.57	+1.67						
		35+00	493.12	496.04	+2.92						
		+50	493.33	497.85	+4.52						
		36+00	493.54	500.01	-6.47						
		+15	493.60	500.72	+7.12						
		+50	496.86	502.51	+5.65						
		37+00	501.53	505.37	+3.84						
		+50	506.19	508.57	-2.38						
		38+00	510.86	512.13	+1.27						
		+50	515.52	516.02	+0.50						
		39+00	520.18	520.27	+0.09						
		+35	523.45	523.45	0.00						
		+50	524.55								
		40+00	529.51								
		+50	534.17								
		+65	535.57	535.57	0.00						
		41+00	538.84	538.96	+0.12						
		+50	543.50	544.20	+0.70						
		42+00	549.81	549.93	+0.12						
		+35	554.22	554.22	0.00						
		+50	556.11								
		43+00	562.42								
		+50	568.73								
		44+00	575.04								
		+50	581.34								
		45+00	587.65								
		+50	593.96								
		46+00	600.26								
		+50	606.57								
		47+00	612.88								
		+50	619.19								
		48+00	625.49								
		+45	631.17	631.17	0.00						
		+50	631.80	631.79	-0.01						
		+75	634.95	634.53	-0.42						
		49+00	638.11	636.68	-1.43						
		+15	640.00	637.69	-2.31						
		+25	639.94	638.24	-1.70						
		+50	639.80	639.22	-0.58						
		+75	639.66	639.61	-0.05						

V.C.	% GRADE	GRADES				TOTAL EXCAVATION EARTH AND ROCK		ROCK		EMBANKMENT		BASE	
		STATION	ELEVATION ON TANGENT	ON V. CURVES	CORR. V.C.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
		49+75	639.66	639.61	-0.05								
		+85	639.60	639.60	0.00								
		TH #49 Sta. 50+00.00 = 1/4 ROC				269	20.00						
		269+72.5	641.72										
		270+00	642.83										
		+50	644.85										
		271+00	646.86										
		+42.5	648.58										
		+50	648.83										
		+62.6	649.39										
		272+00	650.92	650.92	0.00								
		+50	652.93	652.80	-0.13								
		273+00	654.95	654.42	-0.53								
		+50	656.97	655.78	-1.19								
		+72.5	657.87	656.30	-1.57								
		274+00	658.98	656.87	-2.11								
		+50	661.00	657.70	-3.30								

STATION TO STATION	SUMMARY OF BALANCES				EXCESS CUT	EXCESS FILL	ACCUMULATIVE EXCESS CUT	ACCUMULATIVE EXCESS FILL	BASE CUBIC YARDS
	TOTAL EXCAV. EARTH & ROCK CUBIC YARDS	ROCK EXCAV. CUBIC YARDS	EMBANKMENT CUBIC YARDS	BASE CUBIC YARDS					
36+00 - 40+00	2883	0	40	2837			2837		
40+00 - 45+00	1628	0	1965	632			2205		
45+00 - 49+85	256	0	4021	4368			2163		
SUB-TOTAL	4767		6026				2163		
BEGIN APPROACH	337	0	11	324			1839		
DECEL LANE TAPER	2210	84	34	2212			373		
TH #201 APPROACH	49	0	58	18			355		
TH #224 APPROACH	17	0	16	1			354		
DRIVES	80	0	146	88			266		
TOTAL	7460	84	6291						

SHEET NO.	COL. NO.	SUMMARY BY COLUMNS			REMARKS
		EXCAVATION TOTAL CU. YDS.	EMBANKMENT CUBIC YARDS	BASE CUBIC YARDS	
		7460	84	6291	EARTH AND ROCK EXCAVATION 7460
					SOLID ROCK EXCAVATION 84
					EARTH EXCAVATION 7376
					PLANIMETERED FILL 6291
					LESS FACTORED SOLID ROCK (TO BE USED IN ROCK FILL AREA)
					LESS DISPLACEMENT OF ANY LARGE STRUCTURES
					NET PLANIMETERED FILL 6291
					FACTOR (0.15) 944
					PLANIMETERED FILL INCLUDING FACTOR 7235
					MATERIALS AVAILABLE FOR FILLS
					EARTH EXCAVATION 7376
					CHANNEL EXCAVATION
					UNDERDRAIN EXCAVATION 450
					STRUCTURE EXCAVATION
					TOTAL MATERIAL AVAILABLE FOR FILL 7826
					TOTAL FILL INCLUDING FACTOR 7235
					TOTAL MATERIAL FOR FILL 7826
					EXCESS EXCAVATION 591
					ROCK FILL 1200
					LESS FACTORED ROCK (1.3) 109
					ROCK BORROW 1091

CARRIED FORWARD COLUMN FOOTINGS 215 4019 4726 6035

CARRIED FORWARD COLUMN FOOTINGS 2251 34 36 363

PROJECT HARTFORD PROJECT HES-505 NO. 2194(4) SHEET 4 OF 60 SHEETS