

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT		TYPE II STONE		TYPE III STONE		STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT		TYPE II STONE		TYPE III STONE		SUMMARY AND BALANCES																
		AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME			AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION TO STATION	TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES		ACUMULATIVE EXCESSES								
		S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.			S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.				CUT	FILL	CUT	FILL								
MAINLINE - 110' LT TO THE PTH LINE @ 60' RT												204+60	20	59	49			82	53				197+50	200+00	834			1879									1327			1170
												204+60	20	73	54			82	53				200+20	205+00	3923			1720			1945			868						
197+50	10	0	0			0						205+00	20	72	50			49	41				205+20	206+20	132			42			84			952						
197+60	20	0	0			2	54					205+20	20	82	42			27	12																					
197+80	20	0	0			145	144					205+40	20	52	30			5	2																					
198+00	20	0	6			243	183					205+60	20	28	10			0	0																					
188+20	20	15	23			252	166					205+80	20	0	0			0	0																					
198+40	20	48	48			251	156					206+00	20	0	0			0	0																					
198+60	20	83	76			251	164					206+20	20	0	0			0	0																					
198+80	20	121	96			192	163																																	
199+00	20	138	106			248	179																																	
199+20	20	146	111			215	165																																	
199+40	20	154	118			211	148																																	
198+60	20	164	124			189	148																																	
199+80	20	171	128			212	156					200+80	24.6	488	299			0	11			372	381	8	4															
200+00	20	174	130			210	146					201+00	24.6	168	215			25	11			421	381	2	2															
200+20	20	176	154			183	78					201+20	24.6	304	286			0	11			366	368	2	2															
200+40	20	239	168			27	13					201+40	24.6	280	326			32	15			493	400	16	8															
200+60	20	217	200			7	3					201+60	24.6	495	426			11	24			545	508	22	25															
200+80	20	322	226			0	25	61	43	306	221	201+80	24.6	501	367			42	40			570	450	32	15															
201+00	20	288	212			67	66	59	40	290	214	202+00	24.6	305	338			45	21			418	431	1	1															
201+20	20	285	210			108	87	54	40	288	222	202+20	24.6	439	509			0	0			529	449	2	1															
201+40	20	262	211			126	97	53	37	312	233	202+40	24.6	678	661			0	0			456	389	1	0															
201+60	20	284	233			136	118	46	34	316	237	202+60	24.6	773	854			0	0			419	374	0	0															
201+80	20	340	250			183	130	46	34	324	224	202+80	24.6	682	616			0	0			402	360	0	0															
202+00	20	336	253			189	111	47	35	292	211	203+00	24.6	691				0	0			388	177	0	0															
202+20	20	347	284			132	104	47	35	288	211										0																			
202+40	20	366	264			149	98	48	38	283	210																													
202+60	20	347	250			118	89	50	38	283	210																													
202+80	20	329	228			43	17	54	39	263	210																													
203+00	20	287	167			2	4	20	0	283	105																													
203+20	20	164	120			8	10	0	0	0	105																													
203+40	20	160	95			18	29				3923																													
203+60	20	87	56			60	64				0																													
203+80	20	54	33			112	105				0.495																													
204+00	20	36	27			172	109				1.15																													
204+20	20	38	30			123	85				1.15																													
204+40	20	44	38			106	70				1.15																													
204+60	20	59	49			82																																		
																								REMARKS																
C+0.495R-1.15F																																								
EARTH AND ROCK EXCAVATION 9568																																								
SOLID ROCK EXCAVATION 0																																								
EARTH EXCAVATION 9568																																								
PLANIMETERED FILL 3782																																								
LESS FACTORED SOLID ROCK 0																																								
LESS DISPLACEMENT OF ANY LARGE STRUCTURES 0																																								
NET PLANIMETERED FILL 3782																																								
FACTOR (3782*0.6) 567																																								
PLANIMETERED FILL INCLUDING FACTOR 4349																																								
MATERIALS AVAILABLE FOR FILLS																																								
C 4079																																								
R 0																																								
F 141																																								
R FAC 0.495																																								
F FAC 1.15																																								
EX C 4517																																								
EARTH EXCAVATION 9568																																								
CHANNEL EXCAVATION 0																																								
UNDERDRAIN EXCAVATION (1010'D.86) 859																																								
STRUCTURE EXCAVATION 0																																								
EARTH BORROW 1400																																								
TOTAL MATERIAL AVAILABLE FOR FILL 11827																																								
TOTAL FILL INCLUDING FACTOR 4549																																								
TOTAL MATERIAL FOR FILL 11827																																								
BORROW 0																																								
EXCESS EXCAVATION 7478																																								

PROJECT NAME: **HARDWICK**
 PROJECT NUMBER: **STP ST 030-3(4)**
 FILE NAME: **d04e060aw(mod-pthline).xls** PLOT DATE: **3/2/05**
 PROJECT LEADER: **A.BOMBARDIER** DRAWN BY: **C.JOLLY**
 DESIGNED BY: **M.NUTTER** CHECKED BY: **A.BOMBARDIER**
 ITEM DETAIL AND DRAINAGE SHEET SHEET **8** OF **63**