

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

# EARTHWORKS



SUMMARY AND BALANCES									
STATION TO STATION		TOTAL EXC. EARTH+ROCK m <sup>3</sup>	ROCK EXCAVATION m <sup>3</sup>	EMBANKMENT m <sup>3</sup>	EXCESSES		ACCUMULATIVE EXCESSES		
km + m	km + m				CUT	FILL	CUT	FILL	
HAUL ROAD A									
HRI+343	HRI+400	629		0	629		629		
HRI+400	HRI+600	400		480		152	477		
HRI+600	HRI+800	60		1820		2033		1556	
HRI+800	HR2+000	40		3240		3686		5242	
HR2+000	HR2+200	3310		1030	2126			3116	
HR2+200	HR2+400	870		1050		338		3454	
HR2+400	HR2+600	180		2010		2132		5586	
HR2+600	HR2+800	40		5670		6481		12067	
HR2+800	HR3+000	0		3190		3669		15736	
HR3+000	HR3+200	62		1312		1447		17183	
HR3+200	HR3+280	20		880		992		18175	
HAUL ROAD B									
HRBI+278	HRBI+400	4		455		519		18694	
HRBI+400	HRBI+500	0		1310		1507		20201	
STAGE ONE SITES									
HR2+422	HR2+520	0		10458		12027		32228	
HR2+592	HR2+806	0		88976		102322		134550	
HR3+097	HR3+284	0		35056		40314		174864	
HRBI+304	HRBI+512	0		28584		32872		207736	
ACCESS ROAD									
ARI+003	ARI+255	698		1625		1171		208907	
ROADSIDE DITCH									
MPI+389	MPI+464	187		0	187			208720	
TRENCH EXCAVATION									
		35		0	35			208685	

SUMMARY AND BALANCES									
STATION TO STATION		TOTAL EXC. EARTH+ROCK m <sup>3</sup>	ROCK EXCAVATION m <sup>3</sup>	EMBANKMENT m <sup>3</sup>	EXCESSES		ACCUMULATIVE EXCESSES		
km + m	km + m				CUT	FILL	CUT	FILL	

SUMMARY BY COLUMNS						
SHEET NO.	COL NO.	EXCAVATION		FILL		
		TOTAL m <sup>3</sup>	ROCK m <sup>3</sup>			
EW-1	1	1089		2300		
EW-1	2	3350		4270		
EW-1	3	1090		8730		
EW-1	4	62		4502		
EW-2	1	24		2645		
EW-2	2	0		99434		
EW-2	3	0		63640		
EW-2	4	885		1625		
TOTALS		6500		187146		

REMARKS	
EARTH AND ROCK EXCAVATION	6500 m <sup>3</sup>
SOLID ROCK EXCAVATION	0 m <sup>3</sup>
EARTH EXCAVATION	6500 m <sup>3</sup>
PLANIMETERED FILL	187146 m <sup>3</sup>
SOLID ROCK FACTOR	1.30
LESS FACTORED SOLID ROCK	187146 m <sup>3</sup>
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	0
NET PLANIMETERED FILL	187146 m <sup>3</sup>
FACTOR	1.15
PLANIMETERED FILL INCLUDING FACTOR	215218 m <sup>3</sup>
MATERIALS AVAILABLE FOR FILLS	
ROADWAY/DRAINAGE/EROSION CONTROL EXCAVATION	6500 m <sup>3</sup>
CHANNEL EXCAVATION (x 0.30)	0
TRENCH EXCAVATION (FROM DRAINAGE SHEET)	35
MUCK EXCAVATION	0
STRUCTURE EXCAVATION (x 0.30)	0
TOTAL MATERIAL AVAILABLE FOR FILL	6535 m <sup>3</sup>
TOTAL FILL INCLUDING FACTOR	215218 m <sup>3</sup>
TOTAL MATERIAL FOR FILL	6535 m <sup>3</sup>
EARTH BORROW SUBTOTAL	208683 m <sup>3</sup>

FILE NAME = U:\9819\mstn\03\clough\Stage One Sites\z048ew.dgn  
 DATE/TIME = 5/18/2007  
 USER = 3076

<b>VERMONT AGENCY OF TRANSPORTATION</b>	
 <b>CHA</b> <small>CLOUGH HARBOUR &amp; ASSOCIATES LLP</small> <small>11 Winners Circle, PO Box 5269, Albany, NY 12205</small> <small>www.cha.org</small>	PROJECT NAME: BENNINGTON PROJECT NUMBER: AC NH 019-1(53)
	FILE NAME: Z0048EW.DGN PROJECT LEADER: D.E.G. DESIGNED BY: J.S.P. <b>EARTHWORK SHEET EW-3</b>