

SOUTH BURLINGTON
COLCHESTER
JIM CULY (23)

EXTRA WORK:

EXIST. SLOPE PIPE REPLACEMENT
ITEM 204.22, T.E. EXPLORATORY
TRENCH EARTH TO 6' DEPTH

S.W. HEADLEY
8-15-12

RE: CROSS SECTION DRAWING

STATION	DEPTH	WIDTH	END AREA	FACTOR	BASE	VOLUME
0+00	5'	4.5'	22.5'	1.0	3	67.5 cy
0+03	5	4.5	22.5		7	157.5
0+10	5	4.5	22.5		6	135.0
0+16	5	4.5	22.5		14	315.0
0+30	5	4.5	22.5		12	270.0
0+42	5	4.5	22.5		14	315.0
0+56	5	4.5	22.5		10	225.0
0+66	5	4.5	22.5		6	135.0
0+72	5	4.5	22.5		8	180.0
0+80	5	4.5	22.5		9	197.5
0+89	0.8	4.5	3.6		12	21.6
1+01	∅	4.5	∅			
TRENCH EXIST BELOW 5' DEPTH						
0+00	2.5'	4.5	11.3	1.0	6	33.9
0+06	∅	4.5	∅		4	∅
0+10	∅	4.5	∅		6	6.9
0+16	0.5	4.5	2.3		14	47.6
0+30	1.0	4.5	4.5		12	81.0
0+42	2.0	4.5	9.0		14	189.0
0+56	4.0	4.5	18.0		10	225.0
0+66	6.0	4.5	27.0		6	156.4
0+71	3.5	4.5	24.8		8	99.7
0+80	∅	4.5	∅			

T.E. 70.5' = $\frac{1939.1 \text{ cy}}{27}$ = 71.8 cy

0.75
2.75/12

118.4 cy

TOTAL T.E. = 71.8 cy + 46.6 cy = 118.4 cy

T.E. BELOW 5' = $\frac{838.0 \text{ cy}}{27}$ = 30.9

1.5 ft = 46.6 cy