



TE 4+63.5 to 4+75 New

Sta	Area	Dist	Vol cy
0+101	10.6	11'	8.0
0+112	22.6	33'	22.6
0+145	22.0	35'	11.9
0+145	7.1		
0+180	10.7		

117.1 cu yd for 50' to 50' long

FE 4+29 ~ 4+63.5 12" x 12" Round duct corr
 only HDLF quality - rest is w/in other excavations
 12" x 12" x 5' = 22.6 cu yd
 12" x 12" x 3' = 11.9 cu yd
 2/12/11

Excavation DI
 $(5.0 \times 1.5 \times 1.5) \times 1.25 = 10.9 \text{ cy}$
 2/12/11

Excavation DI for structure DI
 $(4.5 \times 1.25 \times 1.25) + (1.5 \times 1.25 \times 1.25) = 6.8 \text{ cy}$
 2/12/11

Trench Excavation P.P.C.

Sta	Area	Dist	Vol
0+101 (4.75 x 5.5)		22'	27.9
1+10 (4.75 x 7.7)		22'	32.3
1+32 (4.75 x 10)			
OVER 5'			
0+101 (4.75 x 10 x 20)			3.4
1+10 (4.75 x 2.1 x 20)			
1+32 (4.75 x 10 x 20)			6.5
			70.1 cy

19000 cu yd
 2/12/11

GRFS 4+55 ~ 4+5
 Trench $(4.75 \times 1.5) + (4.25 \times 2.0) = 11.75$
 $11.75 \times 78 \times \frac{1}{2} = 59.55 \times 78 \times \frac{1}{2} = 120.0 \text{ cu yd}$
 2/12/11

Johnson BHO 1448 (29)
 Drainage