

TRENCH EARTH

INLET HEADWALL

$3.1m(L) \times 1.65m(W) \times 0.95m(D) = 4.9cm$

OUTLET HEADWALL

$3.1m(L) \times 1.65m(W) \times 0.95m(D) = 4.9cm$

STONE FILL @ INLET

$13.0cm - (3.1m \times 0.5m \times 0.6m) = 12.1cm$

STONE FILL @ OUTLET

$10.4cm - (0.9cm) = 9.5cm$

CULVERT

From Inlet 0.15m
 $\left[\frac{0.4 \times 0.6}{2} \times 32 + \frac{0.6 \times 1.5}{2} \times 2 + (1.5 \times 9.8) + \frac{1.5 \times 0.3}{2} \times 33 + (0.3 \times 3.9) \right] \times 204 = 4.6cm$

Over 1.5m
 $\left[(0.2 \times 0.9) + (0.1 \times 0.5) \right] \times 204 = 1.5m \times 1.5$

$\frac{2.2cm}{79.6cm}$

GRANULAR BACKFILL FOR STRUCTURES

UNDER HEADWALLS

$(1.65m \times 3.1m \times 0.3) \times 2 = 3.1m$

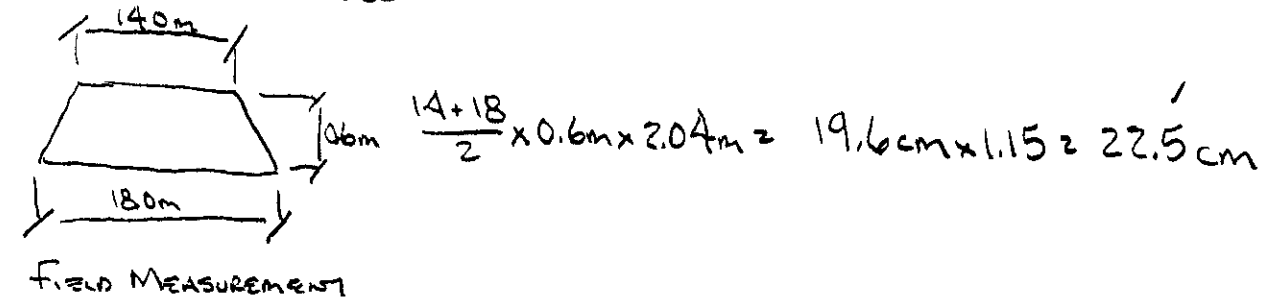
UNDER CULVERT

$2.04m \times 22.2m \times 0.3m = 13.6cm$

To Top of Culvert

$2.04m \times 10.4m \times 2.3m = \frac{48.8cm}{65.5cm}$

EARTH BARRAGE



WRF YWS
 12-13-06 1-17
 T. B. 2A, Pg 20

