

TRENCH EARTH

HEADWALL
 $2.95m(L) \times 1.63m(W) \times 0.75m(D) = 3.6cm$

CULVERT
 $\left[\frac{0.25+1.90}{2} \times 25.9 + (1.5 \times 11) + \left(\frac{1.5+1.4}{2} \times 4.4 \right) \right] \times 1.88 = 85.0cm$

CULVERT - OVER 1.5m
 $\left[\frac{0.0+0.2}{2} \times 2.2 + \left(\frac{0.2+0.0}{2} \times 8.8 \right) \right] \times 1.88 = 2.1cm \times 15 = 3.2cm$

DI 0-1.5m
 $4.5m \times 1.5 = 6.8cm$

DI OVER 1.5m
 $4.5m \times 4.5(AVE D) = \frac{20cm}{100.6cm}$

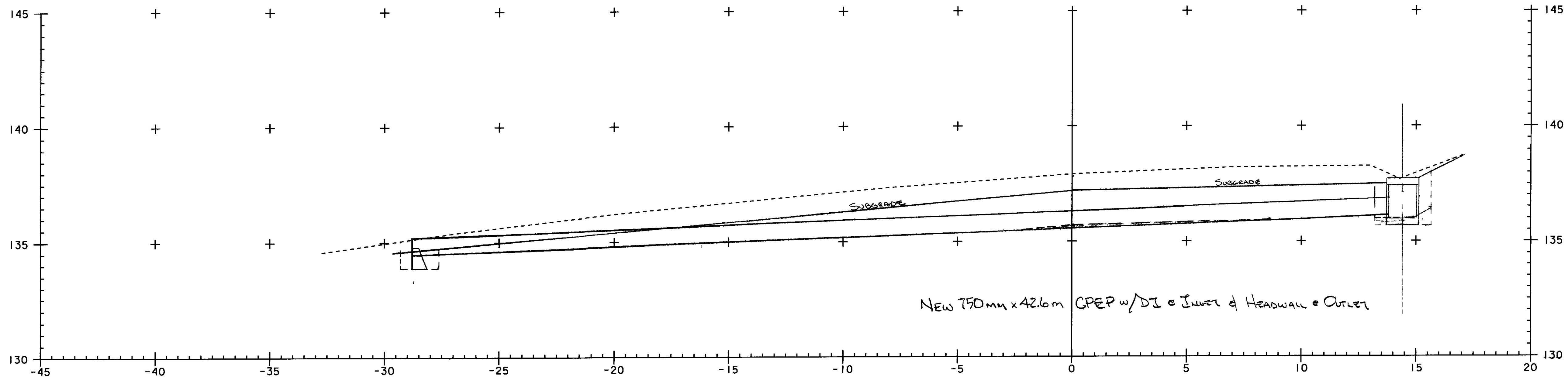
GRANULAR BACKFILL FOR STRUCTURES

DI
 $3.05m \times 1.8m(AVE D) = 5.4cm$

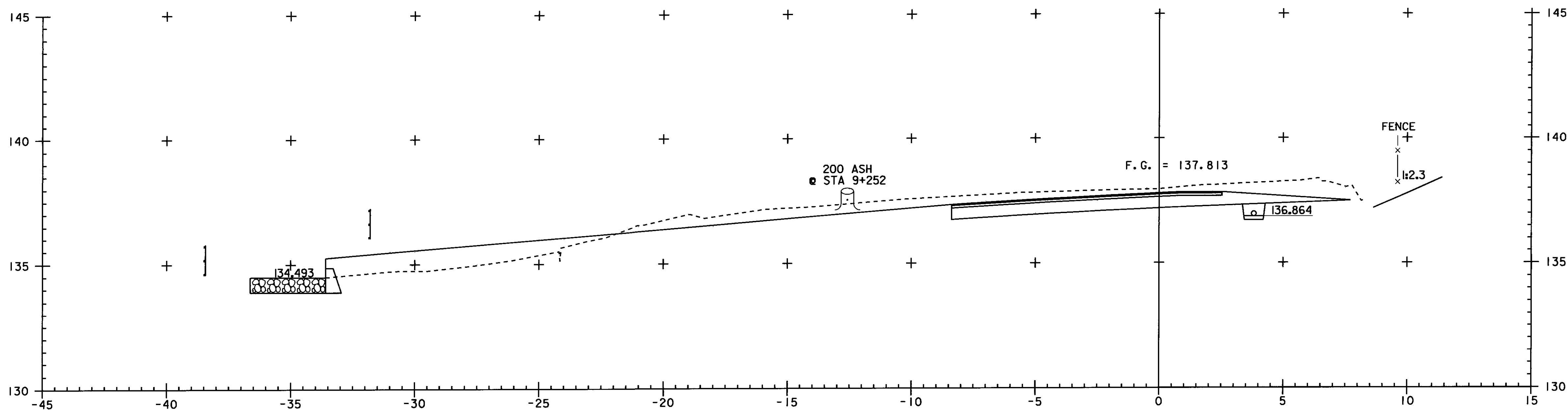
CULVERT
 $3.4m \times .88m(D) \times 1.88(W) = 5.3cm$

+ $11.0m \times \left(\frac{0.2+0.88(D)}{2} \right) \times 1.88(W) = \frac{11.2cm}{66.9cm}$

WRP 3w's
 12-18-06
 TBE ZA, Pg 128



9+250
 ASKEW = 30° 53' 21" LT
 FIELD PROFILE



9+250
 ASKEW = 30° 53' 21" LT
 DESIGN SECTION