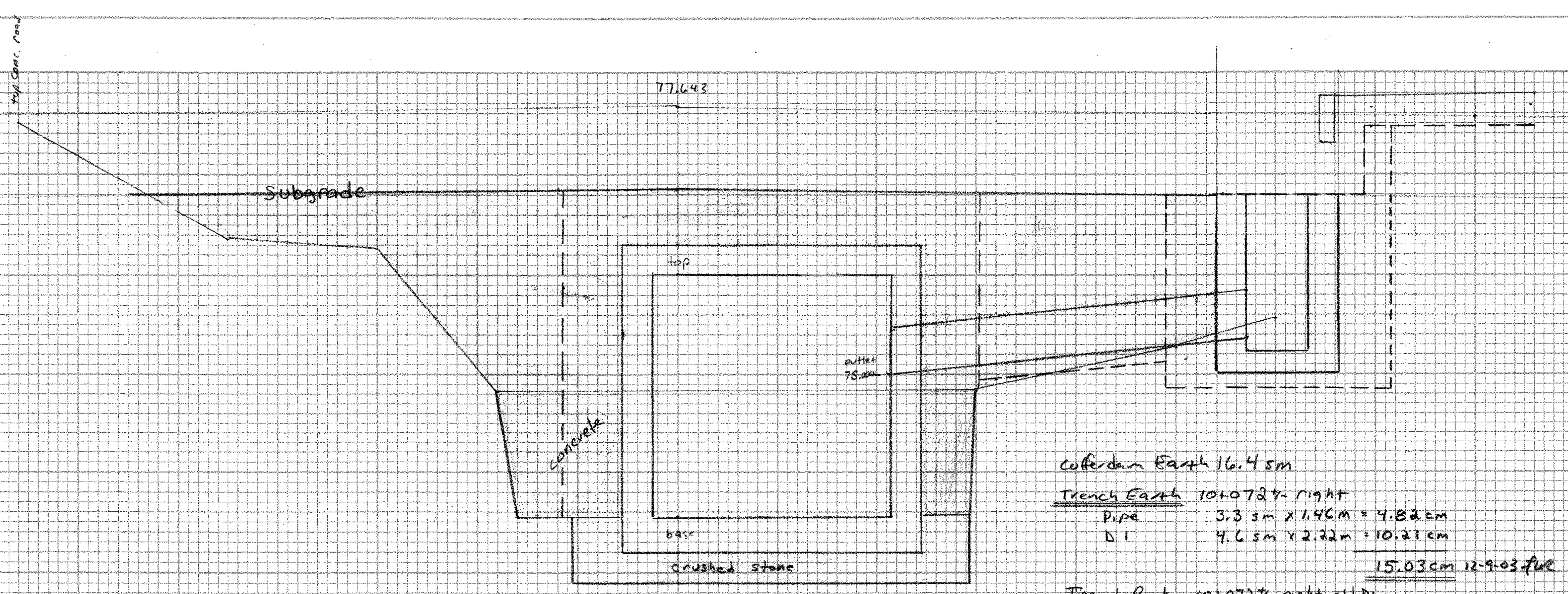
Brattleboro BHF2000(17)
Sheet #1



10+072 use for 10+072.6(butt)

Cofferdam Earth 16.4 sm

Trench Earth 10+072+/- right
Pipe 3.3 sm x 1.46 m = 4.82 cm
D I 4.6 sm x 2.22 m = 10.21 cm
15.03 cm 12-9-03 fwe

Trench Rock 10+072+/- right old DI
1.22 x 1.22 x 2.60 high (MIF fwe) = 3.87 cm 12-19-03 fwe

Cofferdam Earth

station	endarea	ave. endarea	distance	volume
10+068.97 (butt)	16.4			
		16.4	3.63	59.53
10+072.60 (butt)	16.4			

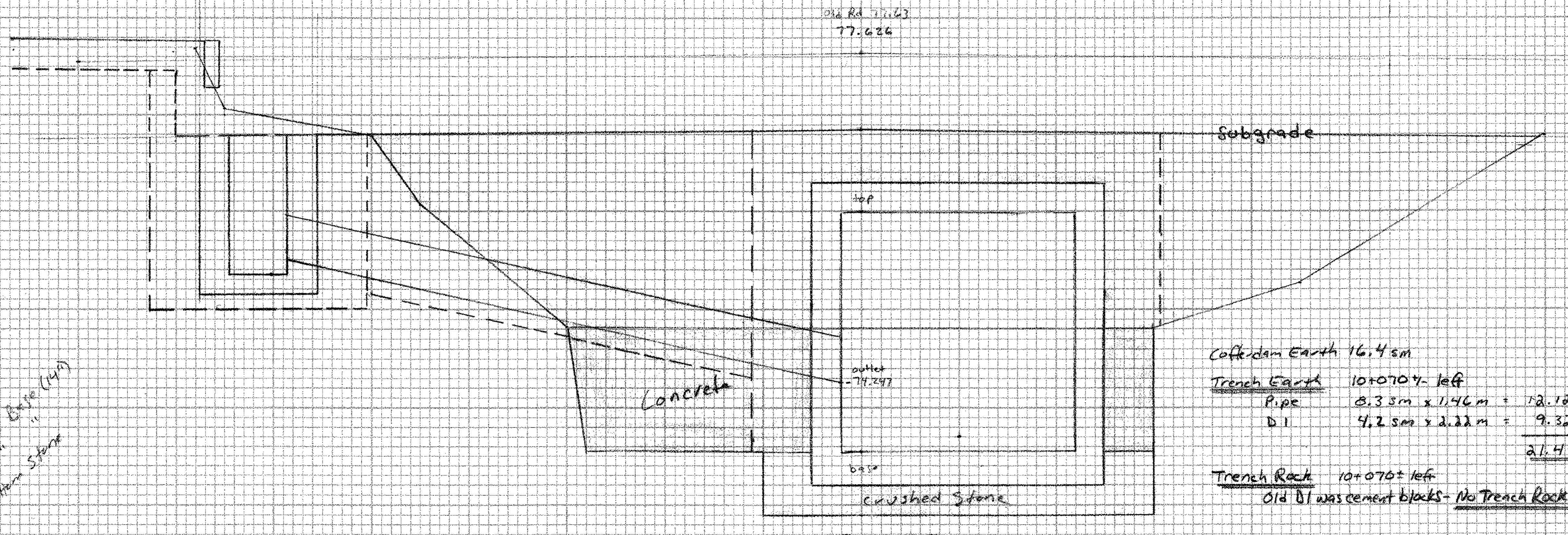
total = **59.53 cm** 12-9-03 fwe

21-04

	finish grade		Subgrade
10+080	77.710	- 0.790	76.920
+ 072	77.643		76.853
10+070	77.626	- 0.790	76.836
+068.5	77.613	- 0.790	76.823
10+067.693	77.606	- 0.790	76.816

77.349 = Top Grate
75.501 inlet
75.349 sump
75.145 bot. base

76.305 = Top of Top
75.997 = top Conc. Walls
73.558 = top Conc. Base (14")
73.202 = bottom " "
72.902 = bottom Stone



10+070 use for 10+068.97(butt)

Cofferdam Earth 16.4 sm

Trench Earth 10+070+/- left
Pipe 8.3 sm x 1.46 m = 12.12 cm
D I 4.2 sm x 2.22 m = 9.32 cm
21.44 cm 12-9-03 fwe

Trench Rock 10+070± left
Old DI was cement blocks - **No Trench Rock**

Trench Earth for 1050 mm RCP outlet pipe 10+068+/- right
Length outside Coffer-dam Exc to Abut = 0.46 m (MIF fwe)
Depth below Subgrade = 3.5 m
Pay width of Trench = 2.05 m
0.46 x 3.5 x 2.05 = **3.30 cm** 12-9-03 fwe

top grate = 77.567
inlet = 75.379
Sump 6" = 0.152 = 75.227
bottom base 14" = 0.356 = 75.023

No T. E. for existing 42" & 24" (coming into jct box) - all within Cofferdam limits 12-9-03 fwe

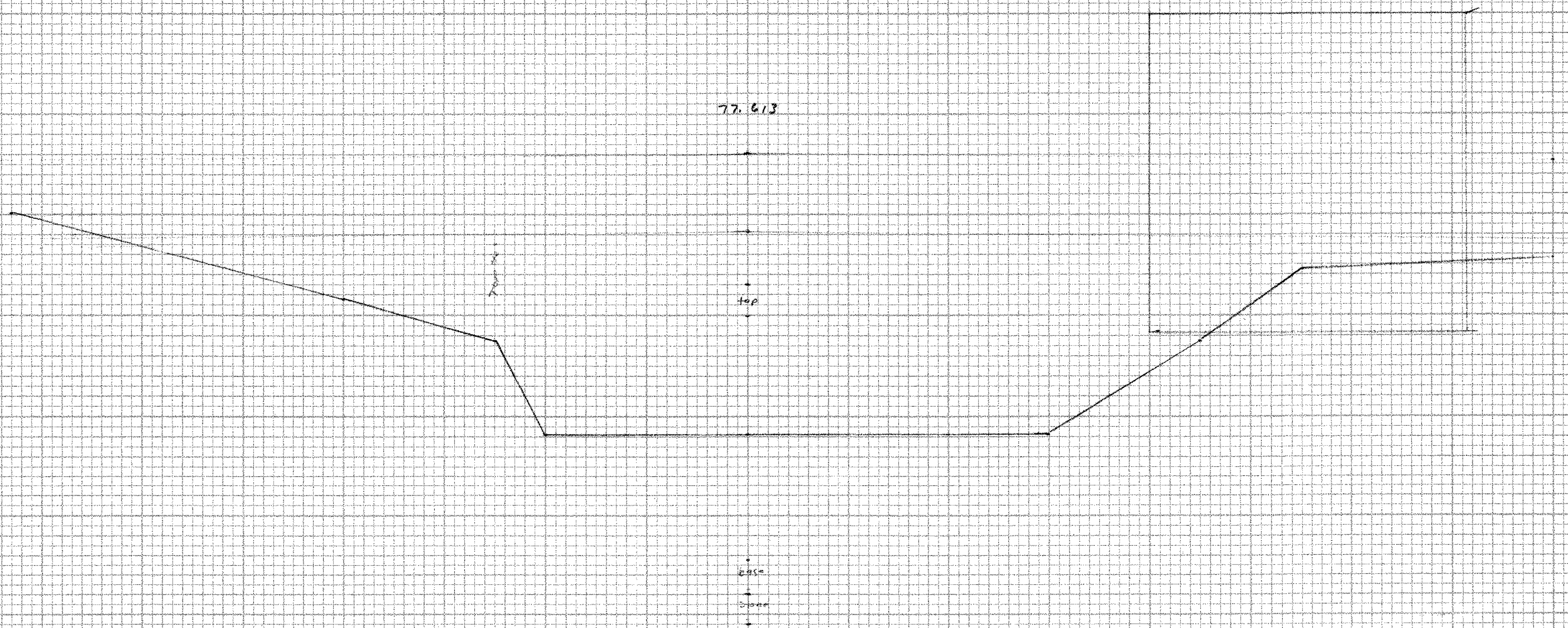
Granular Backfill for Structures
Jct Box 3.04 m wide, 2.43 m long, 3.103 tall
3.04 x 2.43 x 3.103 = 22.92 cm
Cofferdam Earth - volume Jct Box = Gran. bkfill for Structures
59.53 - 22.92 = **36.61 cm** 12-9-03 fwe

Culvert right: trench earth minus volume culvert
$\pi r^2 \times$ length $\pi .225^2 \times 1.9 = 0.30$ cm
4.82 - 0.30 = **4.52 cm** 12-9-03 fwe

DI right: trench earth minus volume DI
1.22 x 1.22 x 1.8 (tall) = 2.68 cm
10.21 - 2.68 = **7.53 cm** 12-9-03 fwe

Culvert left: trench earth minus volume culvert
$\pi r^2 \times$ length $\pi .225^2 \times 3.9 = 0.62$ cm
12.12 - 0.62 = **11.50 cm** 12-19-03 fwe

DI left: trench earth minus volume DI
1.22 x 1.22 x 1.6 (tall) = 2.38 cm
9.32 - 2.38 = **6.94 cm** 12-19-03 fwe



10+068.5

10+065.7 = Zero

10 8 6 4 2 ℄ 2 4 6 8 10