

DRAINAGE NOTE 25  
(DRAINAGE BOOK 2 p. 142)

204.20 TRENCH EARTH (PIPE)  $5.84 \text{ m}^2 \times 1.6 \text{ m} = 9.3 \text{ m}^3$

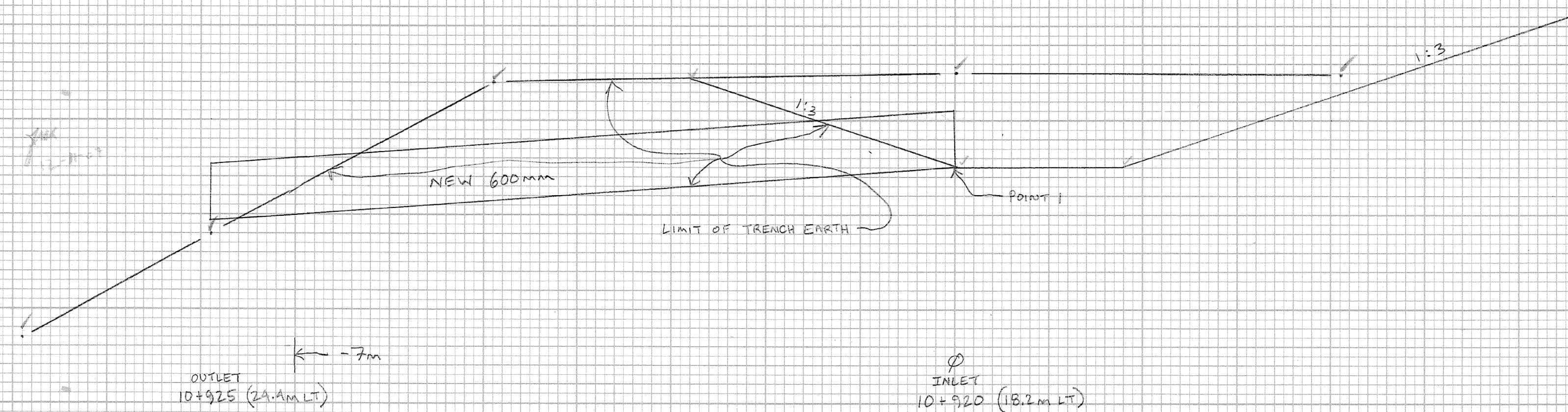
POINT	OFFSET	ELEVATION
1	0	31.50
2	-7.6	30.95
3	-4.9	30.40
4	-2.8	32.45
1	0	31.50

END AREA USING AREA PROGRAM:  $5.84 \text{ m}^2$

204.30 GBFS Backfill

FMD by STW on 9/1/07

$$\left( \frac{7.5 + 5.0}{2} \right) \times \left[ \frac{.96}{16 \times 6} - (\pi \cdot 0.3^2) \right] = 4.2 \text{ m}^3 \text{ To BK 2 p. 142}$$



DRAINAGE NOTE 26 + 27: (DRAINAGE BOOK 2 pgs. 130 AND 134)

204.20 TRENCH EARTH (PIPE):  $3.97 \text{ m}^2 \times 1.45 \text{ m} = 5.8 \text{ m}^3$

POINT	OFFSET	ELEVATION
1	-7.55	32.10
2	-16.40	31.82
3	-13.20	32.80
4	-7.55	32.18
1	-7.55	32.10

END AREA USING AREA PROGRAM:  $3.97 \text{ m}^2$

204.20 TRENCH EARTH (D.I.)

$$\pi \cdot R^2 \cdot H = 3.14 \times 1.25^2 \times 0.55 \text{ m} = 2.7 \text{ m}^3 \text{ STW}$$

204.20 TRENCH EARTH TOTAL: PIPE  $5.8 \text{ m}^3$   
for DN# 27 D.I.  $2.7 \text{ m}^3$

FMD by STW for S&C OUTLET  $2.7 \text{ m} \times 4.0 \text{ m} \times 0.3 \text{ m} = 3.2 \text{ m}^3$

$$11.7 \text{ m}^3 \text{ To BK 2, PAGE 134, STW}$$

VT 78  
10+865

204.30 GBFS FOR PIPE @ 10+865 LT/RT

FIELD MEAS'D BY STW 8-22-06

$$\left( \frac{0.95 + 0.70}{2} \right) \times 1.05 \times 10.4 = 9.01 \text{ m}^3$$

$$\text{LESS PIPE } \pi \cdot 0.225^2 \times 10.4 = 1.65 \text{ m}^3$$

$$7.4 \text{ m}^3$$

204.30 GBFS FOR CATCH BASIN @ 10+865 LT

$$3.14 \times 0.9^2 \times 1.0 = 2.54 \text{ m}^3$$

$$\text{LESS CATCH BASIN: } 3.14 \times 0.6^2 \times 1.0 = 1.13 \text{ m}^3$$

$$1.4 \text{ m}^3$$

204.30 GBFS FOR CATCH BASIN @ 10+845 LT

$$3.14 \times 0.9^2 \times 1.4 = 3.56 \text{ m}^3$$

$$\text{LESS CATCH BASIN: } 3.14 \times 0.6^2 \times 1.4 = 1.58 \text{ m}^3$$

$$2.0 \text{ m}^3$$

204.30 TOTAL GBFS FOR DN 26+27 =

$$7.4 + 1.4 + 2.0 = 10.8 \text{ m}^3$$

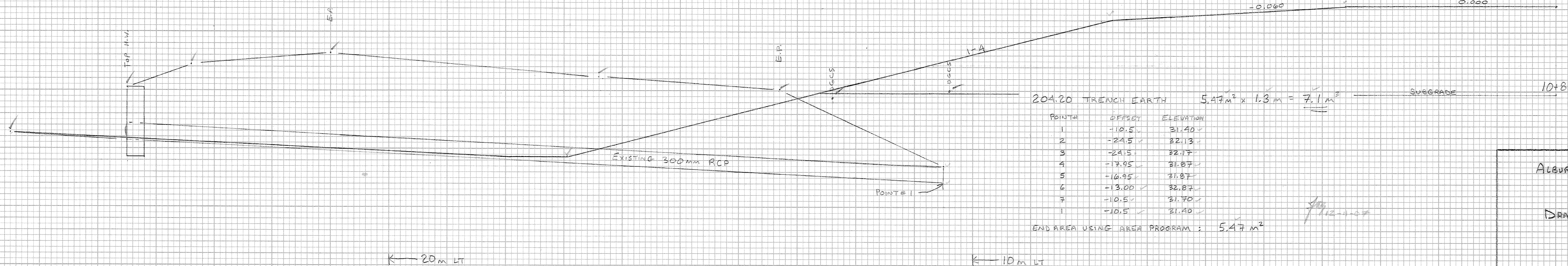
To BK 2 p. 130 STW

DRAINAGE NOTE 28: (DRAINAGE BOOK 2 p. 118)

204.20 TRENCH EARTH  $5.47 \text{ m}^2 \times 1.3 \text{ m} = 7.1 \text{ m}^3$

POINT	OFFSET	ELEVATION
1	-10.5	31.40
2	-24.5	32.13
3	-24.5	32.17
4	-17.95	31.87
5	-16.95	31.87
6	-13.00	32.87
7	-10.5	31.70
1	-10.5	31.40

END AREA USING AREA PROGRAM:  $5.47 \text{ m}^2$



ALBURG-SWANTON BR# 036-1(1)

DRAINAGE

DRAWN BY: S. WHEATLEY 7-11-06

CHECKED BY: SHEET 7 OF 10