

DATE: _____ BY: _____
 ORIGINAL SURVEY: _____
 REVISIONS: _____
 NOTE BOOK: _____
 NO. _____ AREAS CHECKED: _____

DRAINAGE NOTE #22:
 (DRAINAGE BOOK 2 p. 114)

204.20 TRENCH EARTH

POINTS	OFFSET	ELEVATION
1	12.25	32.38
2	-15.8	32.22
3	-11.15	33.37
4	-11.0	33.30
5	-6.5	33.20
6	8.75	32.39
7	9.86	32.34
1	12.25	32.38

$15.55m^2 \times 1.45m = 22.5 m^3$

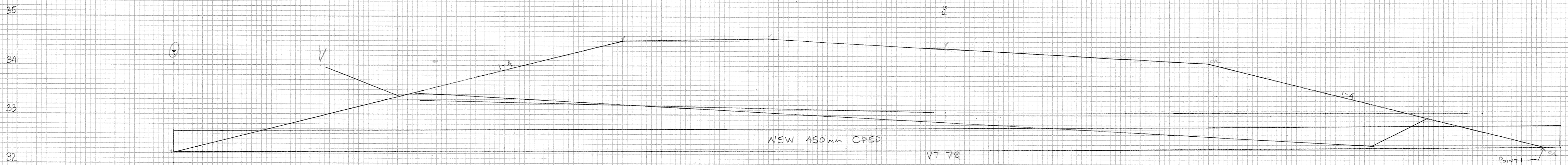
PLUS T.E. FOR STONE PAD (FIELD MEAS'D BY STW 9-11-07)
 $0.9m \times 2.1m \times 0.3m = 0.6 m^3$

TOTAL T.E. FOR DN#22: $23.1 m^3$ TO BOOK 2, PAGE 114.

END AREA USING AREA PROGRAM: $15.55 m^2$

613.10 STONE FILL, TYPE I (FIELD MEAS'D BY STW 9-11-07)

$0.9m \times 2.1m \times 0.3m = 0.6 m^3$ TO BK 2, PAGE 114.



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DRAINAGE NOTE #20:
 (DRAINAGE BOOK 2 p. 102)

204.21 TRENCH ROCK

POINT	OFFSET	ELEVATION
T.R. 1	23.1	32.42
2	7.0	32.70
3	8.0	33.10
4	10.0	33.27
5	14.0	32.85
6	18.0	32.30
7	19.7	33.30
8	20.0	33.21
9	20.0	33.36
10	23.1	32.42
1	23.1	32.42

$7.58 m^2 \times 1.45 m = 10.99 m^3$

PLUS UNDERCUT PIPE
 INLET: $2.2 \times 0.3 \times 1.45 = 0.96 m^3$
 $11.95 m^3$ TO BK 2 P. 102

END AREA USING AREA PROGRAM: $7.58 m^2$

204.20 TRENCH EARTH

POINT	OFFSET	ELEVATION
T.R.#1	0	33.11
2	0	33.23
3	4.0	34.23
4	16.0	34.23
5	19.75	33.30
6	18.0	33.30
7	14.0	32.85
8	10.0	33.27
9	8.0	33.16
10	7.0	32.70
11	7.0	33.00
1	0	33.11

$18.74 m^2 \times 1.45 m = 27.17 m^3$

TO BK 2 P. 102

END AREA USING AREA PROGRAM: $18.74 m^2$

204.30

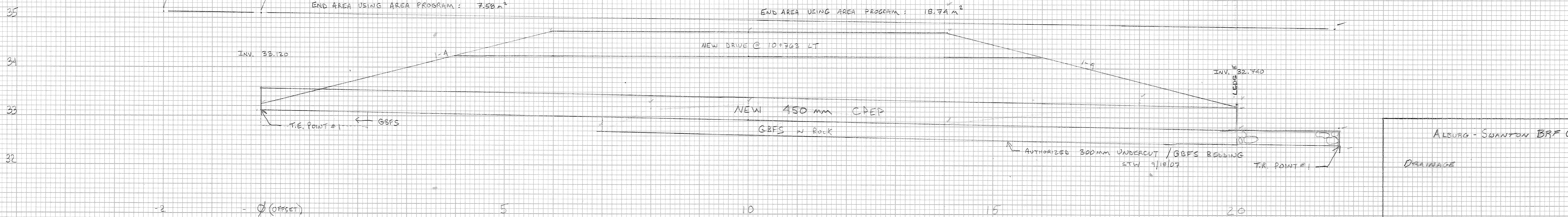
GEOMORPHIC BACKFILL FOR STRUCTURES (300mm OVER PIPE AND 500mm ON EACH SIDE)

FIELD MEASURED BY STW ON 9/18/07

PIPE: $[1.450 \times 0.750 - \pi (\frac{.450}{2})^2] \times 20m = 18.6 m^3$

UNDERCUT: $1.450 \times 0.300 \times \frac{1}{5} \times 20m = 6.6 m^3$

$1.450 \times 0.300 \times 25.2m = 25.2 m^3$



ALBURG - SWANTON BR# 036-1(6)
 DRAINAGE

DRAWN BY: S. WHEATLEY DATE: 6-30-06
 CHECK BY: DATE:

SHEET 6 OF 10