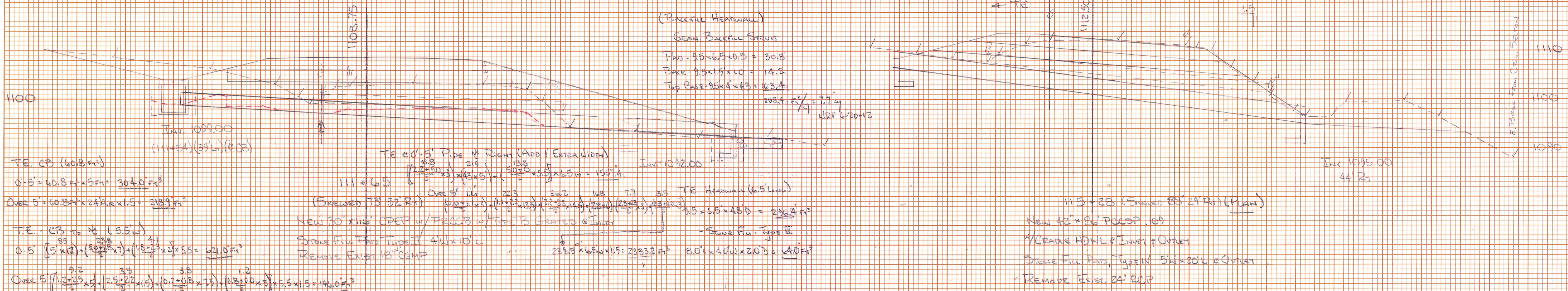


T.E. Pipe, CB, Headwall & Stone Fill
 $304.0 + 218.9 + 621.0 + 146.0 + 1567.4 + 2332.2 + 296.4 + 640.0 = 5540.9 \text{ ft}^2 \times \frac{1}{4} = 1385.2 \text{ cu yd}$
 WRF 6-20-12

Remove T.E.
 $(100 \times 15) \times \frac{1}{2} = 750 \text{ cu yd}$
 $(108 \times 18 \times 1.5) \times \frac{1}{2} = 1458 \text{ cu yd}$
 $(118 \times 28 \times 1.5) \times \frac{1}{2} = 2478 \text{ cu yd}$
 $(28 \times 20 \times 1.5) \times \frac{1}{2} = 630 \text{ cu yd}$
 $750 + 1458 + 2478 + 630 = 5316 \text{ cu yd}$
 WRF 7-11-12

NO. SHEET
 DATE
 NAME
 TITLE
 DRAWN BY
 CHECKED BY

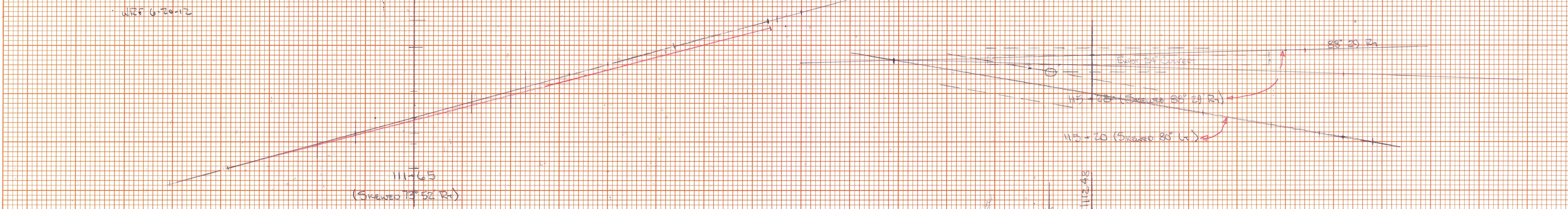
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T.E. CB (60.8 ft)
 $6.5 \times 60.8 \times 1.5 = 594.6 \text{ cu yd}$
 Over 5' = $60.8 \times 2.5 \times 1.5 = 228.0 \text{ cu yd}$
 T.E. - CB to M (5.5 w)
 $0.5 \times (5 \times 12) \times \frac{1}{2} \times 1.5 = 45.0 \text{ cu yd}$
 Over 5' = $(1.2 \times 3.5 \times 5) \times \frac{1}{2} \times 1.5 + (2.5 \times 2.2 \times 1.5) \times \frac{1}{2} \times 1.5 + (0.1 \times 0.8 \times 1.5) \times \frac{1}{2} \times 1.5 = 146.0 \text{ cu yd}$
 WRF 6-20-12

T.E. 60'-5" Pipe w/ Right (Add'l Extractions)
 $(\frac{6.5}{2} \times 30) \times 3 \times \frac{1}{2} \times 1.5 = 140.6 \text{ cu yd}$
 $(\frac{13.5}{2} \times 30) \times 3 \times \frac{1}{2} \times 1.5 = 155.1 \text{ cu yd}$
 Over 5' = $140.6 + 155.1 = 295.7 \text{ cu yd}$
 NEW 30" x 116" CPEP w/ PECCB w/ Type II Stone Fill
 Stone Fill Type II 4" x 10" L
 Remove Exst. 18" CGMP
 $23.5 \times 6.5 \times 1.5 = 233.2 \text{ cu yd}$
 $8.0 \times 6.0 \times 2.0 = 96.0 \text{ cu yd}$
 T.E. Headwall (6' L x 10' W)
 $6.5 \times 6.5 \times 4.5 = 196.9 \text{ cu yd}$
 Stone Fill Type II
 $23.5 \times 6.5 \times 1.5 = 233.2 \text{ cu yd}$
 WRF 7-11-12

115+28 (Screwed 88' 29" R) (Plan)
 NEW 42" x 82" PCCSP .109
 Type IV SF
 Stone Fill Type II
 Remove Exst. 24" RCP



T.E. - Stone Fill Type II
 $1.5 \times 18 \times 1.5 = 40.5 \text{ cu yd}$
 WRF 7-09-12
 1110
 Type IV SF
 $18 \times 20 \times 1.5 = 540 \text{ cu yd}$
 T.E. - 27.5
 $(1.5 \times 1.5) \times 10.5 = 23.6 \text{ cu yd}$
 Over 5'
 $(6.5 \times 1.5) \times 5.5 \times 1.5 = 74.2 \text{ cu yd}$
 Pipe 0'-5"
 $(4 \times 1.5) \times (4 \times 5.0) \times \frac{1}{2} \times 1.5 = 282.5 \text{ cu yd}$
 $(5.0 \times 5.0 \times 9) \times \frac{1}{2} \times 1.5 = 337.5 \text{ cu yd}$
 $(4 \times 1.5 \times 3.5) \times \frac{1}{2} \times 1.5 = 15.8 \text{ cu yd}$
 Over 5'
 $(0.5 \times 3.7 \times 5) \times \frac{1}{2} \times 1.5 + (2.9 \times 0.0 \times 5) \times \frac{1}{2} \times 1.5 = 89.2 \text{ cu yd}$
 WRF 7-09-12

GRAVEL POWERED STONE
 $6.5 \times 3.75 \times 1.5 = 36.6 \text{ cu yd}$
 T.E. - 28.5
 $(1.5 \times 1.5) \times 10.5 = 23.6 \text{ cu yd}$
 Over 5'
 $(6.5 \times 1.5) \times 5.5 \times 1.5 = 74.2 \text{ cu yd}$
 Pipe 0'-5"
 $(4 \times 1.5) \times (4 \times 5.0) \times \frac{1}{2} \times 1.5 = 282.5 \text{ cu yd}$
 $(5.0 \times 5.0 \times 9) \times \frac{1}{2} \times 1.5 = 337.5 \text{ cu yd}$
 $(4 \times 1.5 \times 3.5) \times \frac{1}{2} \times 1.5 = 15.8 \text{ cu yd}$
 Over 5'
 $(0.5 \times 3.7 \times 5) \times \frac{1}{2} \times 1.5 + (2.9 \times 0.0 \times 5) \times \frac{1}{2} \times 1.5 = 89.2 \text{ cu yd}$
 WRF 7-09-12

115+26 (Screwed 88' 29" L) (Better)
 NEW 42" x 94" PCCSP .109
 Type IV SF
 Stone Fill Type II
 Remove Exst. 24" RCP
 $(5.5 \times 2.5) \times 10 \times \frac{1}{2} \times 1.5 = 103.1 \text{ cu yd}$
 $\frac{1}{2} \times (10.5 \times 1.5) = 7.9 \text{ cu yd}$
 WRF 7-09-12

Total = $333.8 + 146.9 + 243.2 + 291.2 + 367.5 + 132.3 + 428.9 = 1901.7 \text{ cu yd}$
 WRF 7-09-12
 Final Measured Trench Area = $4 \times 4 \times \frac{1}{2} \times 1.5 = 12 \text{ cu yd}$
 1913.7 cu yd Pipe & Headwalls
 Type I SF = 12.0 cu yd
 Type IV SF = 42.7 cu yd
 1925.7 cu yd
 WRF 7-09-12

CABOT DANVILLE
 FECC F02B-3 (26) C/I
 DRAINAGE SHEET # 2