

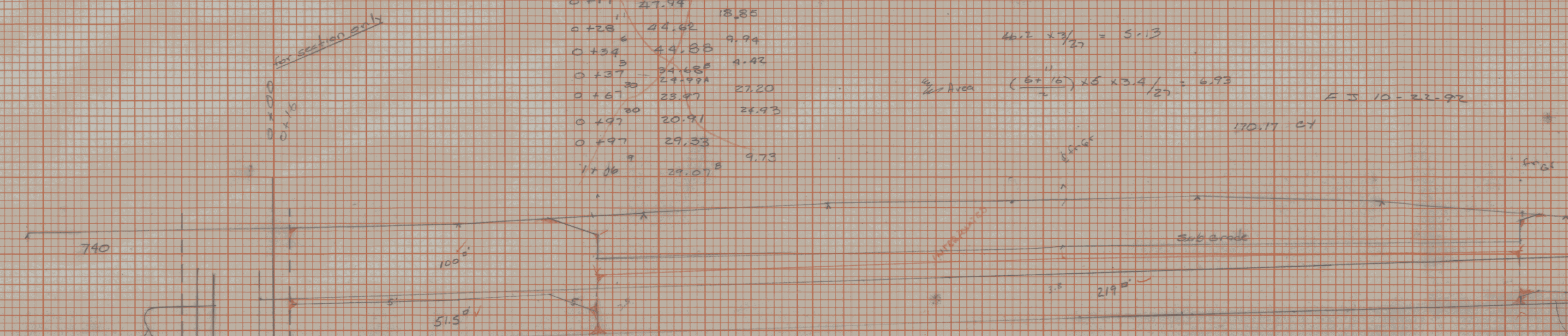
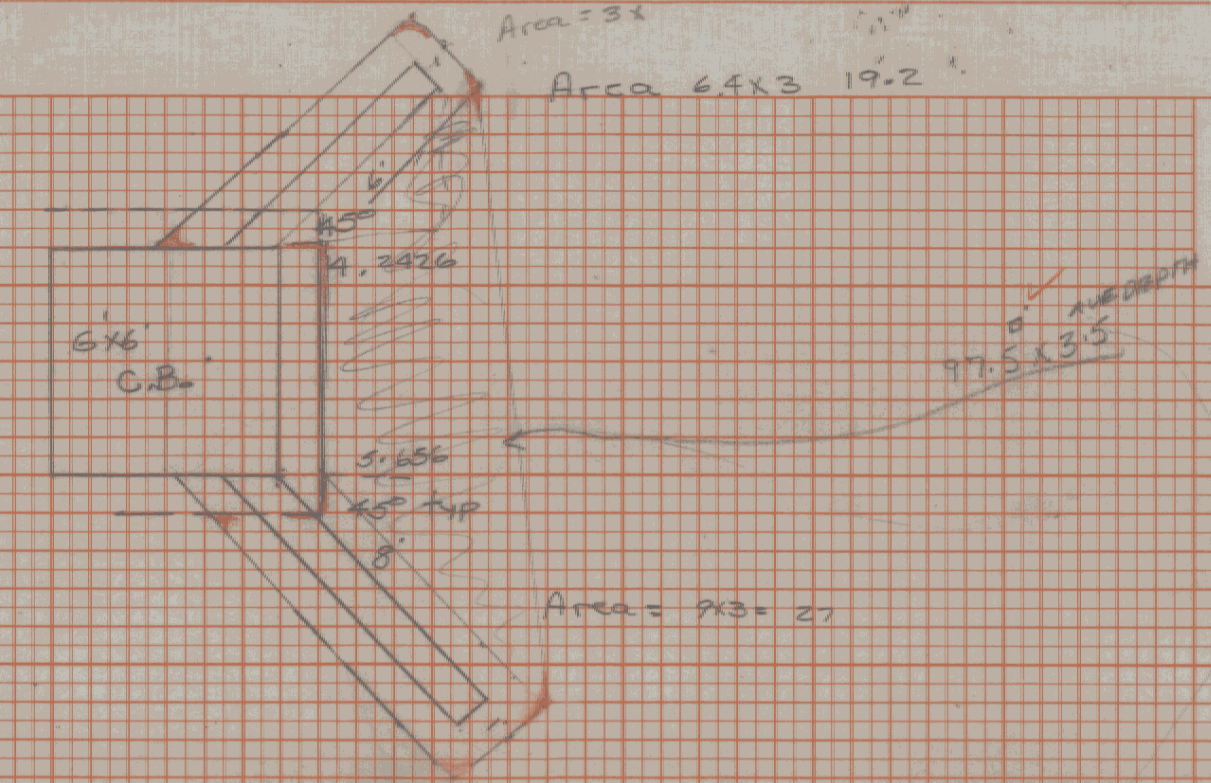
FINAL SURVEY NOTE BOOK No.	DATE
	BY
	CHECKED
	APPROVED
	NO.

ORIGINAL SURVEY NOTE BOOK No.	DATE
	BY
	CHECKED
	APPROVED
	NO.

Trench Earth

36" PIPE		
0+00	43.09	14.74
0+09	42.33	
0+09	82.00	24.19
0+17	82.00	
0+17	47.74	18.85
0+28	44.42	9.94
0+34	44.88	4.92
0+37	34.68	27.20
0+67	23.47	24.93
0+97	20.91	29.33
0+97	29.33	9.73
1+06	29.07	

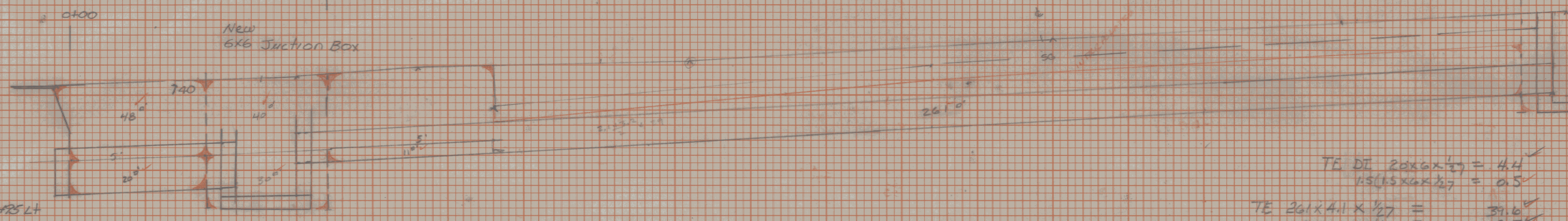
using wall excavation
 $40 \times 12 \times \frac{1}{2} = 240$
 $\frac{1}{2} \times (6 + 16) \times 5 \times \frac{1}{2} = 6.93$
 10.17 CY



40+95- 41+45 R/L
 New 36" x 105' PCCP
 800+28 PCCP 10.7

DS 570

TE DI 19'6" x 1/2" = 4.4
 TE DI 40' x 1/2" = 11.9
 1.5(22' x 1/2") = 9.8
 TE PIPE 36' x 1/2" x 1/2" = 68.7
 1.5(50' x 1/2" x 1/2") = 15.9
 TOTAL TE 118.9 CY. PH 17 JAN 93



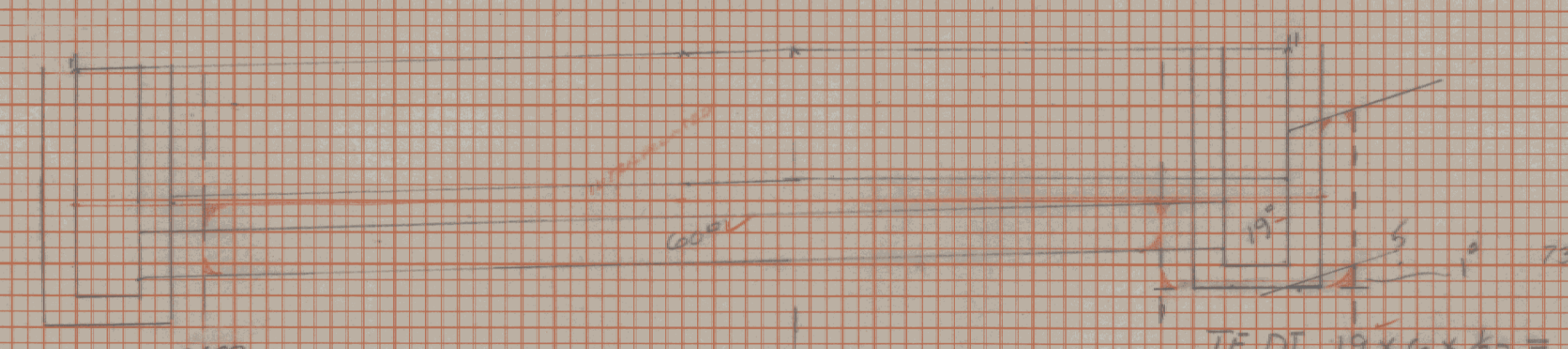
NEW 36" x 12' PCCP

TE DI 40' x 1/2" = 11.9
 1.5(30' x 1/2") = 13.3
 TE PIPE 40' x 1/2" x 1/2" = 9.1
 1.5(20' x 1/2" x 1/2") = 5.7
 TOTAL TE 40.0 CY. PH 17 JAN 93

TE		
0+00	25.42	10.36
0+02	25.42	
0+13	12.92	
0+13	38	21.21
0+51	17.82	19.36
0+81	17.82	
0+81	34.30	7.67
1+04	34.50	

40+95- 41+45 R/L
 New 36" x 99' PCCP
 See Book 2-B Page 83

TE DI 20' x 1/2" = 4.4
 1.5(15' x 1/2") = 0.5
 TE 20' x 1/2" x 1/2" = 2.5
 1.5(11' x 1/2" x 1/2") = 2.5
 TOTAL TE 9.9 CY. PH 17 JAN 93



40+50- 40+67
 New 18" x 34' PCCP
 See Book 2-B Page 83

TE DI 19'6" x 1/2" = 4.4
 1.5(16' x 1/2") = 0.3
 TE PIPE 60' x 1/2" x 1/2" = 8.0
 TOTAL TE 12.5 CY. PH 17 JAN 93

Trench Earth		
0+00	9.06	6.23
0+18.5	9.18	11.5
0+30	7.92	3.64
0+30	21.0	
0+34	22.20	3.20
0+34	28.1	2.38
0+34	28.1	2.38
0+34	28.1	2.38
0+34	28.1	2.38
0+34	28.1	2.38
0+34	28.1	2.38

Manholes 1160 MEG (116400 C.Y.)
 Drainage sheet #8
 Drainage sheet #8
 Drainage sheet #8
 Drainage sheet #8
 Drainage sheet #8