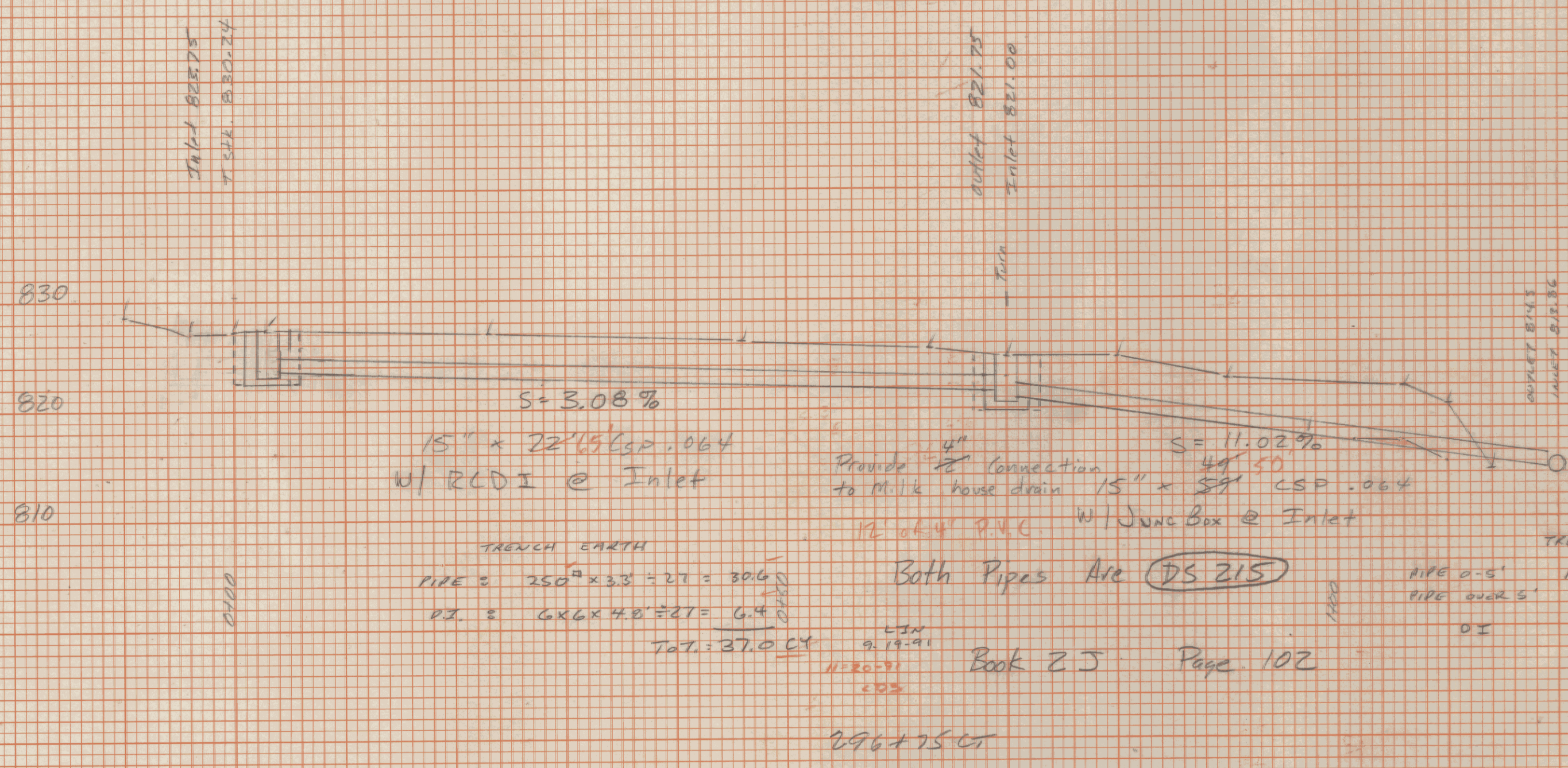


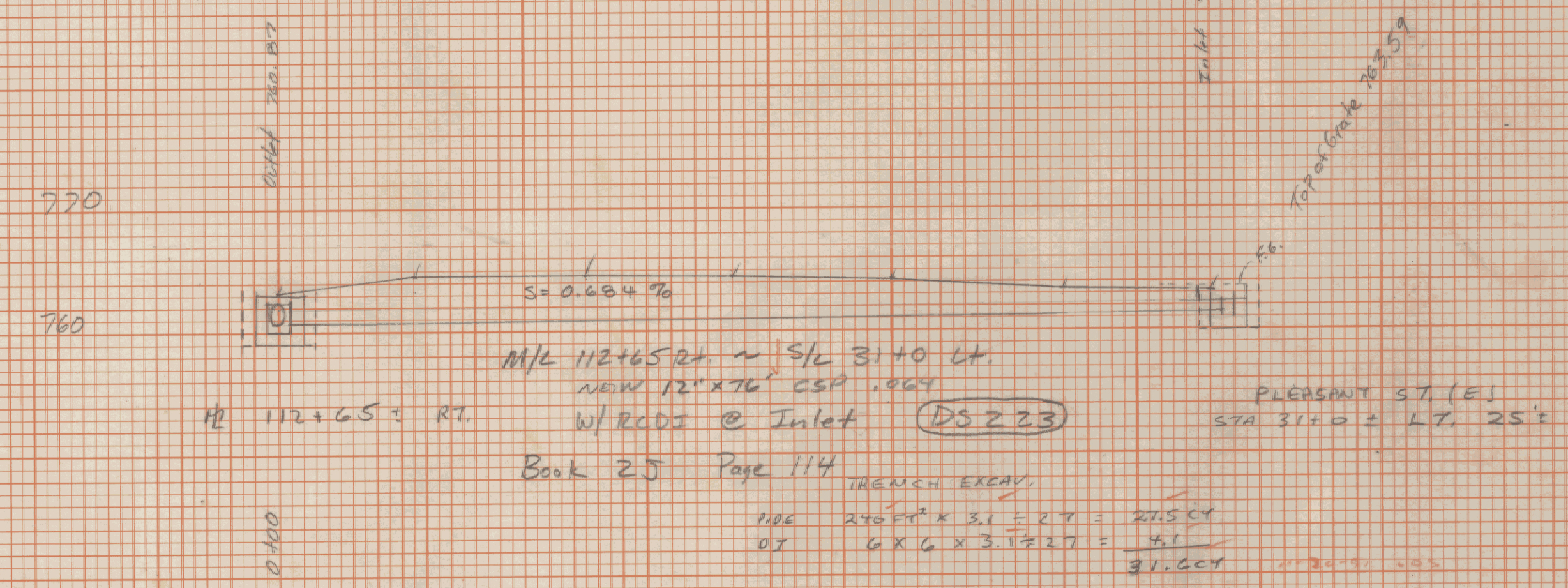
DATE _____ BY _____
 SWITTED PLOTTED
 ORIGINAL SURVEY NOTE BOOK NO. _____
 AREA CHECKED

DATE _____ BY _____
 SWITTED PLOTTED
 ORIGINAL SURVEY NOTE BOOK NO. _____
 AREA CHECKED



$S = 3.08\%$
 $15'' \times 22' 15'' \text{ CSP } 0.064$
 W/ RCDI @ Inlet
 TRENCH EARTH
 PIPE $250'' \times 3.3 = 27 = 306$
 D.X. $6 \times 6 \times 4.8 = 27 = 64$
 Tot: 37.0 CY
 9-14-91
 11-20-91
 209
 Both Pipes Are DS 215
 Book 25 Page 102
 296+75 ST

TRENCH EARTH
 PIPE $150'' \times 3.3 = 22 = 220$
 PIPE OVER $3'' \times 3.3 = 27 = 66$
 D.X. $6 \times 6 \times 5 = 27 = 67$
 Tot: 29.3 CY
 9-14-91
 11-20-91
 209



$S = 0.004\%$
 M/L 112+65 RT. ~ S/L 31+0 LT.
 NEW $12'' \times 16'' \text{ CSP } 0.064$
 W/ RCDI @ Inlet DS 223
 Book 25 Page 114
 TRENCH EARTH
 PIPE $270'' \times 3.1 = 27 = 275$
 D.X. $6 \times 6 \times 3.1 = 27 = 46$
 31.6 CY
 11-20-91
 209

Trench Earth
 100% T.E. Pipe = $270'' \times 3.1 \times 1/27 = 33.3$ c.y.
 50% T.E. Pipe = $2.5'' \times 3.1 \times 1.5 \times 1/27 = 0.4$ c.y.
 100% T.E. D.I. = $6' \times 8' \times 5' \times 1/27 = 8.9$ c.y.
 150% T.E. D.I. = $6' \times 8' \times 1.5' \times 1.5 \times 1/27 = 4.0$ c.y.
 Total Trench Earth = 46.6 c.y.

Granular Backfill for Structures
 Pipe = $0.5' \times 20' \times 3.1' \times 1/27 = 1.1$ c.y.
 D.I. = $(6' \times 8' \times 6.5') - (4' \times 6' \times 6.5') \times 1/27 = 5.8$ c.y.
 Total = 6.9 c.y.
 11-20-91
 209

Trench Earth
 100% T.E. = $220'' \times 3.1 \times 1/27 = 25.3$ c.y.
 150% T.E. = $10'' \times 3.1 \times 1.5 \times 1/27 = 1.7$ c.y.
 100% D.I. = $6' \times 6' \times 3.5' \times 1/27 = 4.7$ c.y.
 Total Trench Earth = 31.7 c.y.
 S.G.N. 10-1-91
 11-20-91
 209

Rte. 242, Sta 51+0 ~ 51+80 RT.
 $12'' \times 80'' \text{ CSP } 0.064$ W/ RCDI
 @ Inlet DS 222
 Book 25 Page 110
 Rte 242 DITCH RT. 51+0E
 Installed 165 Lf. of Underdrain in Same Trench.
 11-20-91
 209

Rte. 242, Sta 140 ~ 51+0 RT.
 $12'' \times 60'' \text{ CSP } 0.064$ W/ RCDI
 @ Inlet DS 221
 Book 25 Page 106
 Remove D.I.,
 Extend Pipe 4'
 and add M.G.S.
 11-20-91
 209