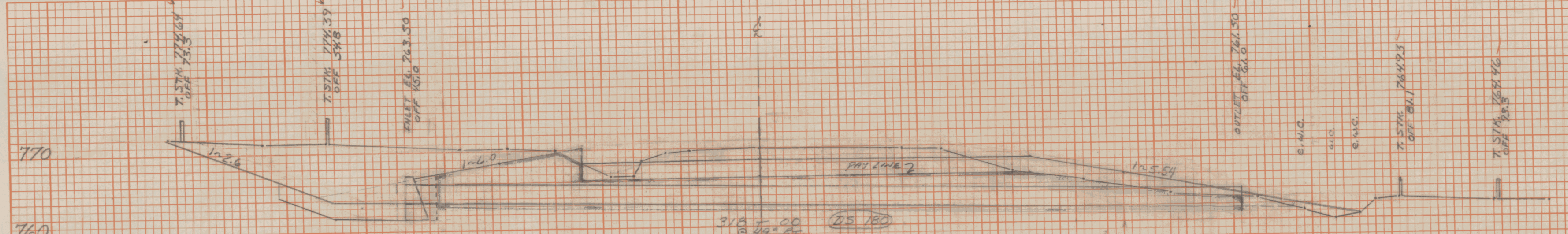
TROY RS 0311 (1)
DRAINAGE SHEET #1



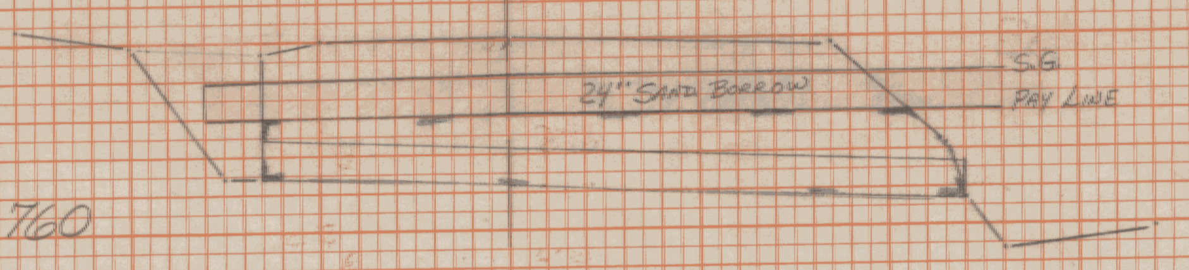
318 + 00
@ 49' RT.
(DS 180)
30" x 106 PCCSP (.079) w/ SHW @ INLET
Bk. 2F Pg. 72

TRENCH EARTH
HD. WALL - 12' x ~~20'~~ 25.0' x 1/27 = ~~8.89~~ 11.11 cy.
PIPE - ~~465'~~ 425.0' x 4.6' x 1/27 = ~~79.22~~ 72.4 cy.
~~88.11~~ 83.51 cy. TOTAL

GRAN. BK.FILL FOR STRUCTURES
0.5 x 102' x 4.6 x 1/27 = 8.69 cy.

S.G.N.
11.7.91

5-14-91 DWH
10-28-91 LDS

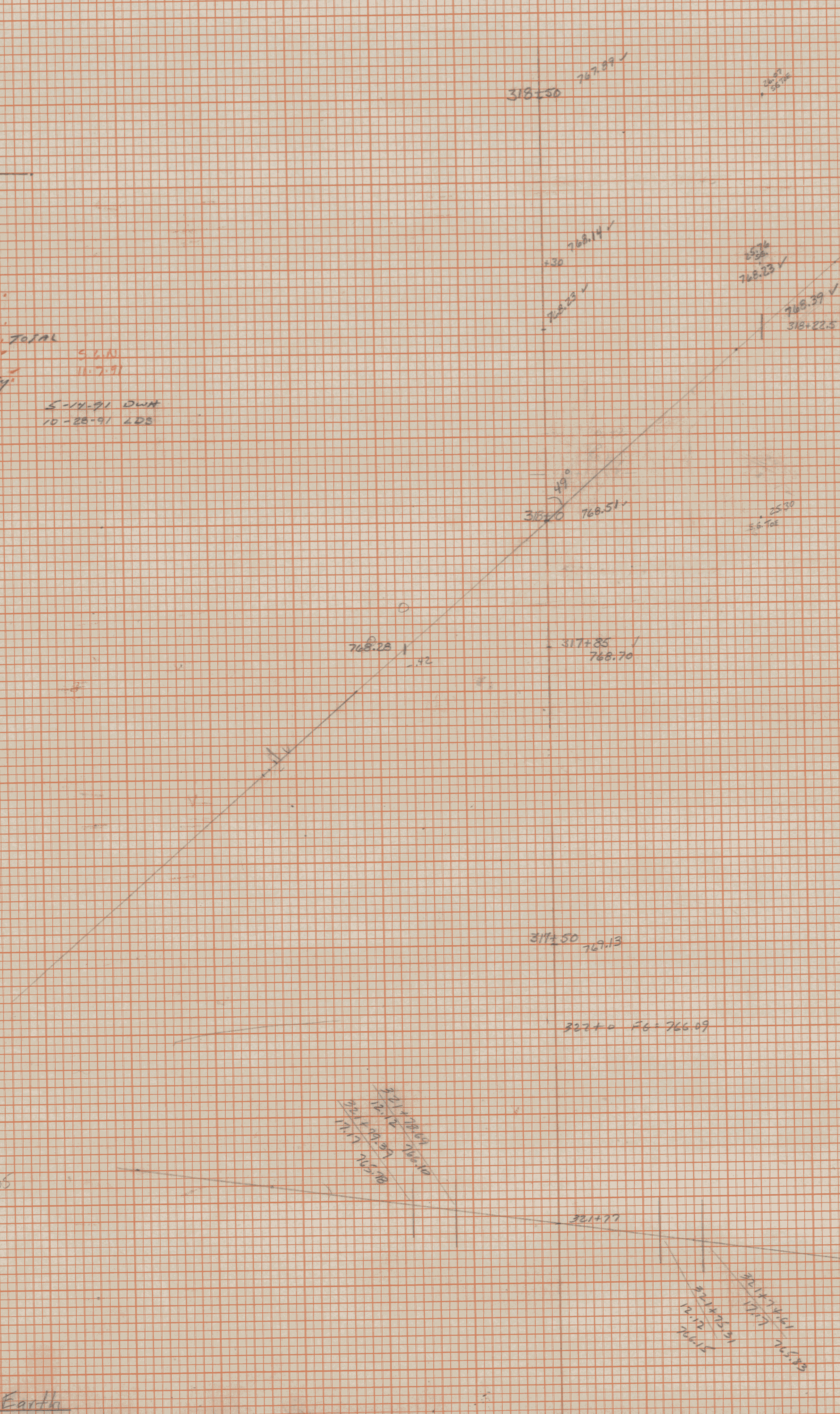


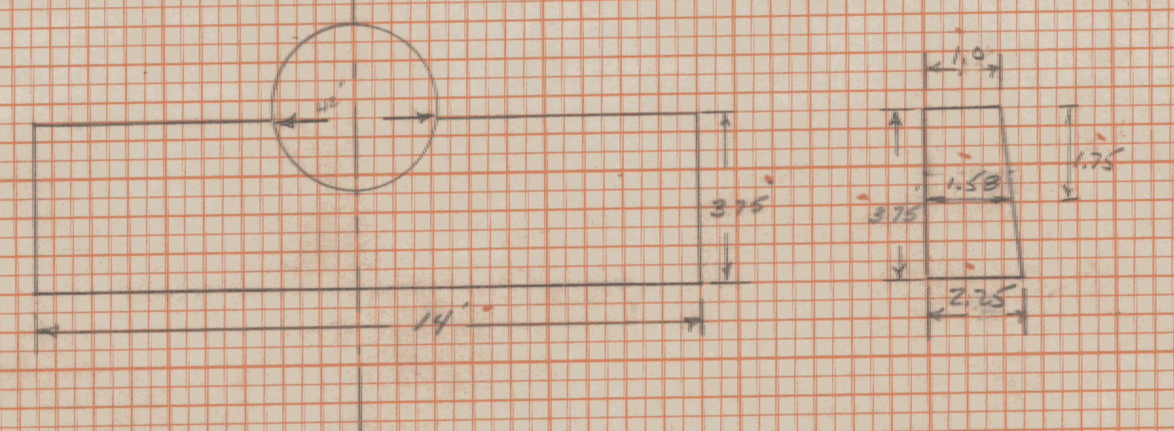
760

TRENCH EARTH
139.0' x ~~4.1'~~ 2.0' x 1/27 = ~~21.1~~ 10.3 C.Y.

S.G.N.
11.7.91

318 + 37 (DS 181)
(REMOVAL) Bk. 2F Pg. 80
24" CGMP





HEADWALL 321+77 RT (MOD.)

C.R.M. (MOD. OUT HDW)
(1.0 x 3.75) + (1.25 x 3.75 / 2) = 6.09 ft² x 14 = 85.31 ft³
π(1.75)² / 2 x (1.0 + 1.58 / 2) = 6.21 ft³
79.10 / 27 = 2.93 cy

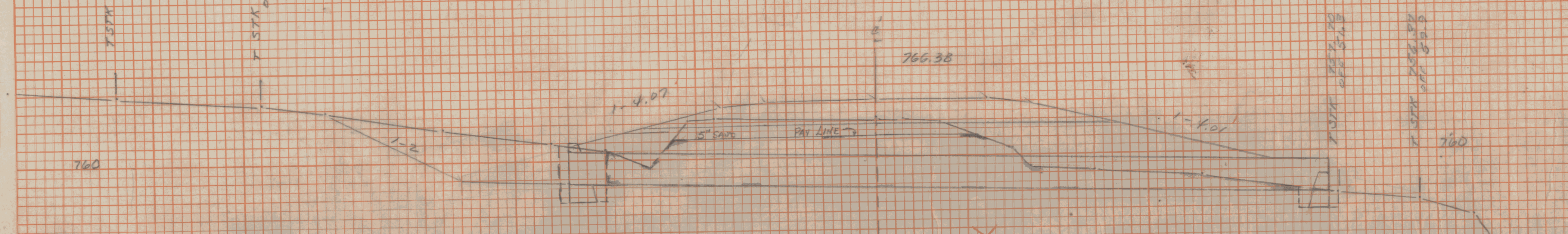
HDWLS MEAS'D IN FIELD 10/29/91
RT 3.75' x 14' 4' x 14'

10-29-91

11-18-91

C.R.M. Inlet HDW from St. D-2 = 6.40 cy
Total CRM = 9.33 cy

11-18-91



INLET
34' LT
757.50

OUTLET
50' RT
755.50

321 + 77 (DS 188)
82° LT
42" x 84' PCCSP (0.109)
SHW @ INLET & CHW @ OUTLET
Bk. 2F Pg. 118

CHANGED 5-20-91
AS PER L.J.N.
OUTLET HWALL

740

Trench Earth
Pipe - Area = 2.97 x 100 = 297 ft²
Volume = ~~297~~ 279 x 5.6 = 1663 ÷ 27 = 61.6 C.Y. 57.9 cy 58.6 cy
H.D.W. Lt. - Area = 0.28 x 100' = 28 ft²
Volume = 28 x 16 = 448 ÷ 27 = 16.6 C.Y. 16.0 cy
H.D.W. Rt. - Area = 0.08 x 100' = 8.0 ft²
Volume = 8.0 x 16 = 128 ÷ 27 = 4.7 C.Y. 12.4 cy
Total Trench Earth = ~~70.8~~ C.Y. 87.0

Pipe was backfilled with Granular Borrow. Pay for out of Pit.
S.G.N. 6.17.91
11-21-91

321+50 FG 766.71
~~HDWL LT 16 x 4 x 6 / 27 = 14.2 cy~~
~~HDWL RT 16 x 4 x 2 / 27 = 4.7 cy~~
76.8 cy
10-30-91
S.G.N. 11.7.91

TROY RS 0311 (1)
DRAINAGE SHEET #1

FINAL SURVEY
NOTE BOOK No.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK No.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

PLATE 3 CROSS SECTION ... STANDARD
... CORPORATION

301 DRAIN