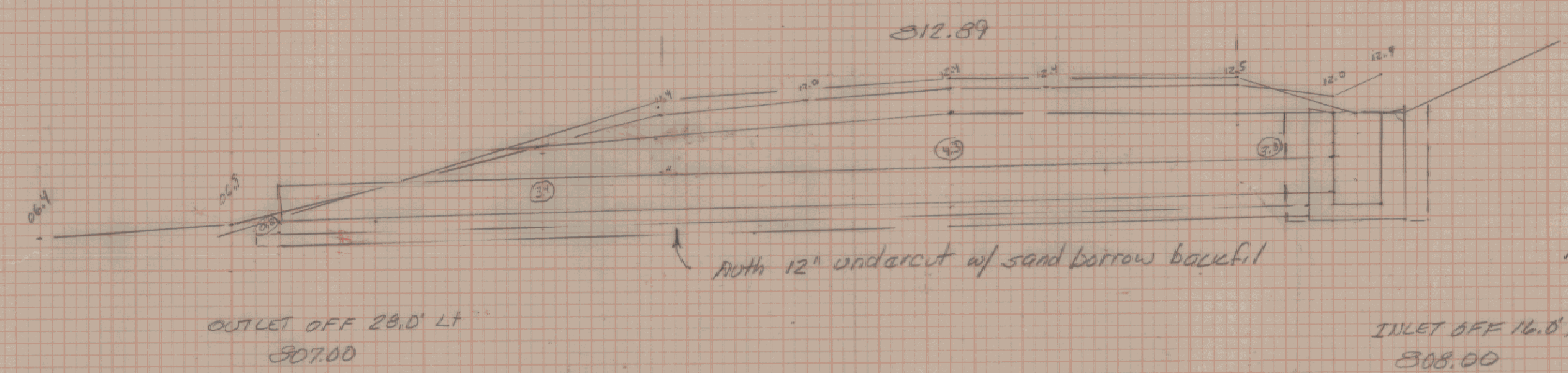


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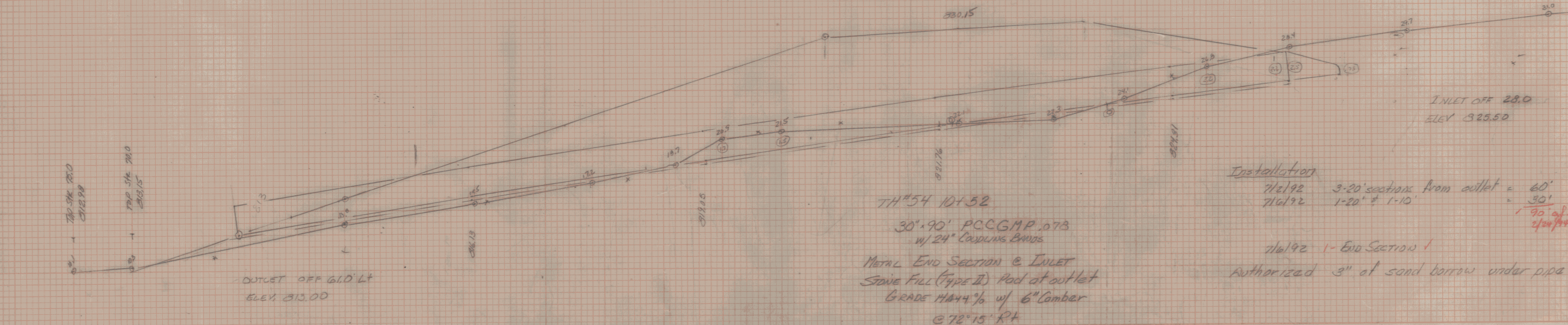
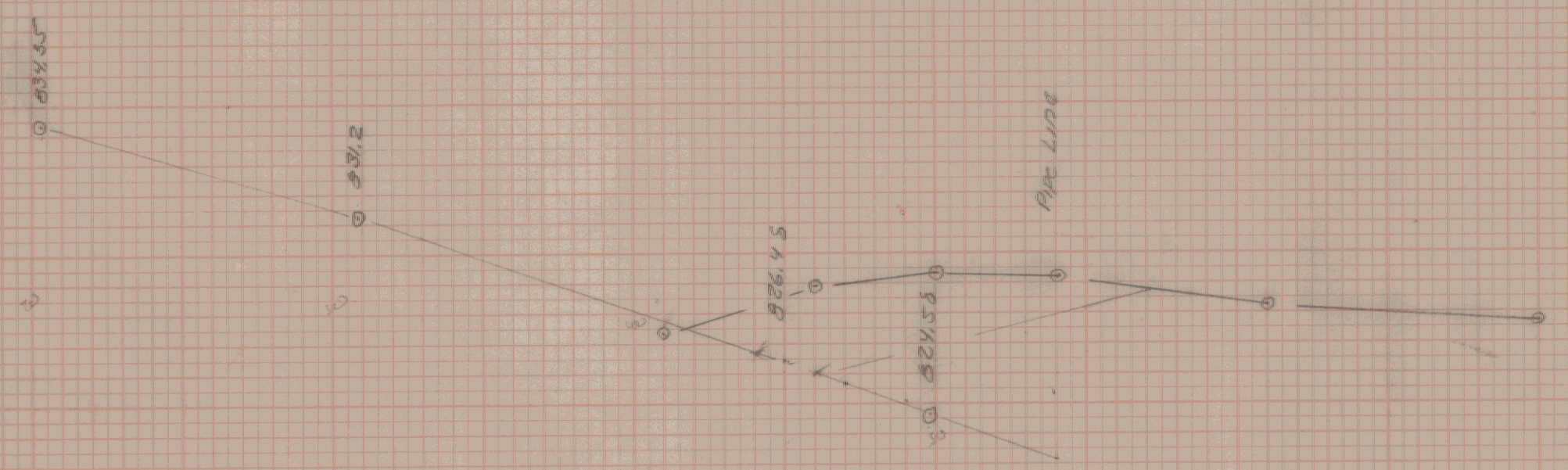
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TRENCH EXC.
DROP INLET (4.5' DEEP x 6' x 6' / 12) = 6.0 cy ✓
PIPE [(21)(12) + (3.35)(12) + (4.05)(12)] (3.6)(1/2) = 19.6 ✓
ROBT (6") - (0.5)(42)(3.6)(1/2) = 25.6 cy ✓
Sand Borrow (10' under pipe) = 29.4 cy ✓
R.Lom 2-24-94

TH #54 13150
18" x 44" CSP .064
RCDI @ INLET of Type B Grate
STONE PAD @ OUTLET

* only included 6" undercut - authorized 12"



TRENCH EXC.
With 3" under throughout
(25' x 16' x 90') (1/2) = 38 cy ✓
PIPE [(20.55)(4) + (1.6)(51)(1.5)(1.5) + (1.1)(3.5) + (2.4)(3.75) + (2.55)(12.5)] (4.6)(1/2) = 8.9 cy ✓
END SECTION [(2.5 x 4.6) + (.15 x 8) / 2] (4.28)(1/2) = 0.7 ✓
R.Lom 12-8-94

TH #54 10152
30' x 90" PCC GMP .073
w/ 24" COUPLING BANDS
METAL END SECTION @ INLET
STONE FILL (Type II) Pad at outlet
GRADE 11.44% w/ 6" Comber
@ 72' 15" RT

Installation
7/16/92 3-20' sections from outlet = 60' ✓
7/16/92 1-20' + 1-10' = 30' ✓
7/16/92 1- End Section ✓
Authorized 3" of sand borrow under pipe & backfill halfway up pipe - throughout R.Lom

Sand Borrow Backfill
From 3" undercut above = 3.5 ✓
[(25' x 16') (4.6) - ((20.55)(4.5) / 2) (1/2)] = 27.1 ✓
30.9 cy ✓
R.Lom