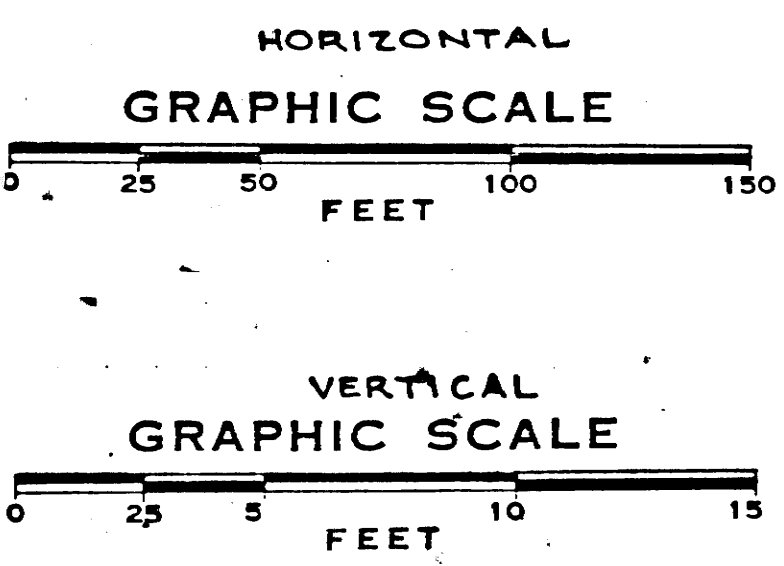
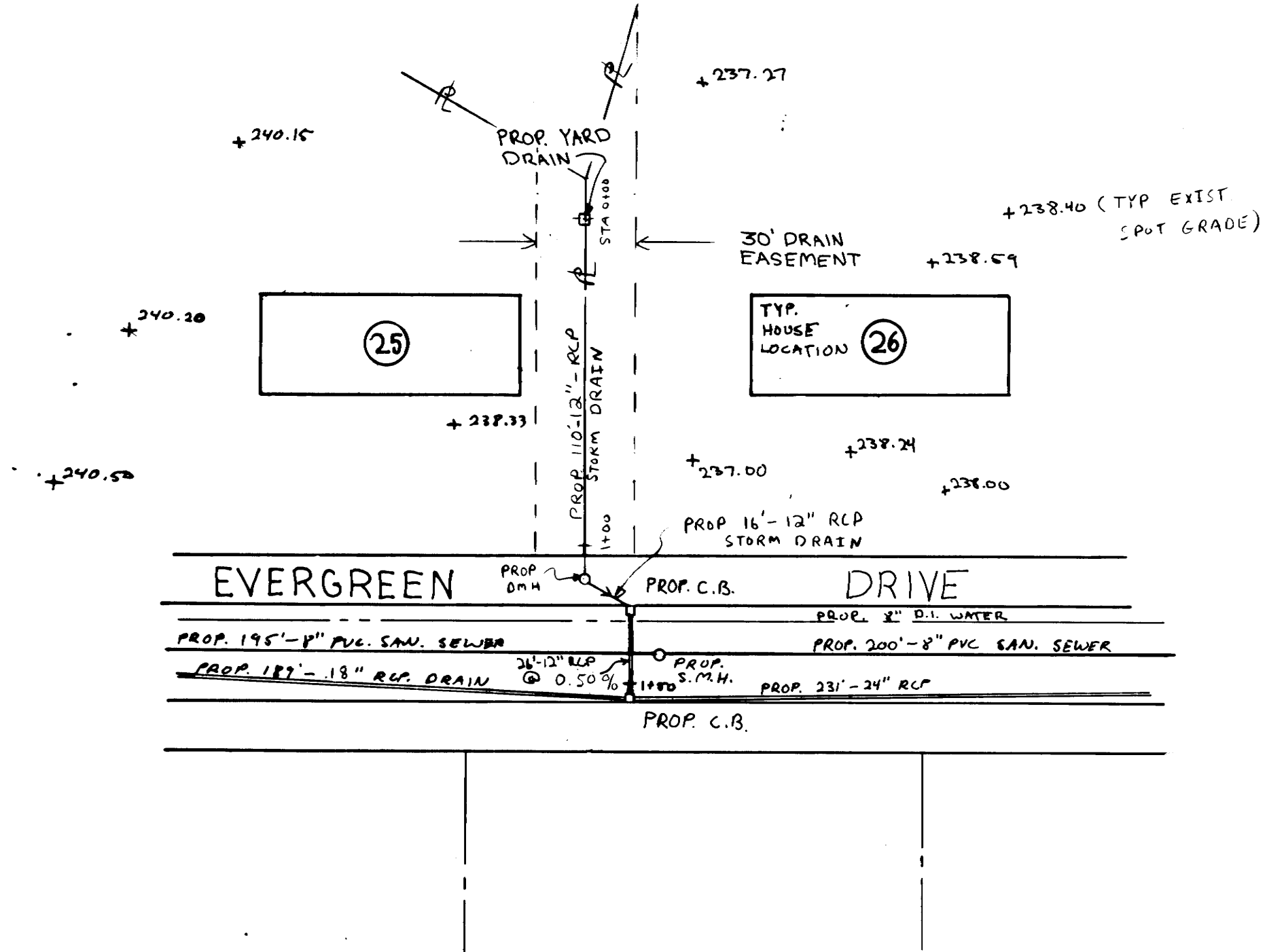
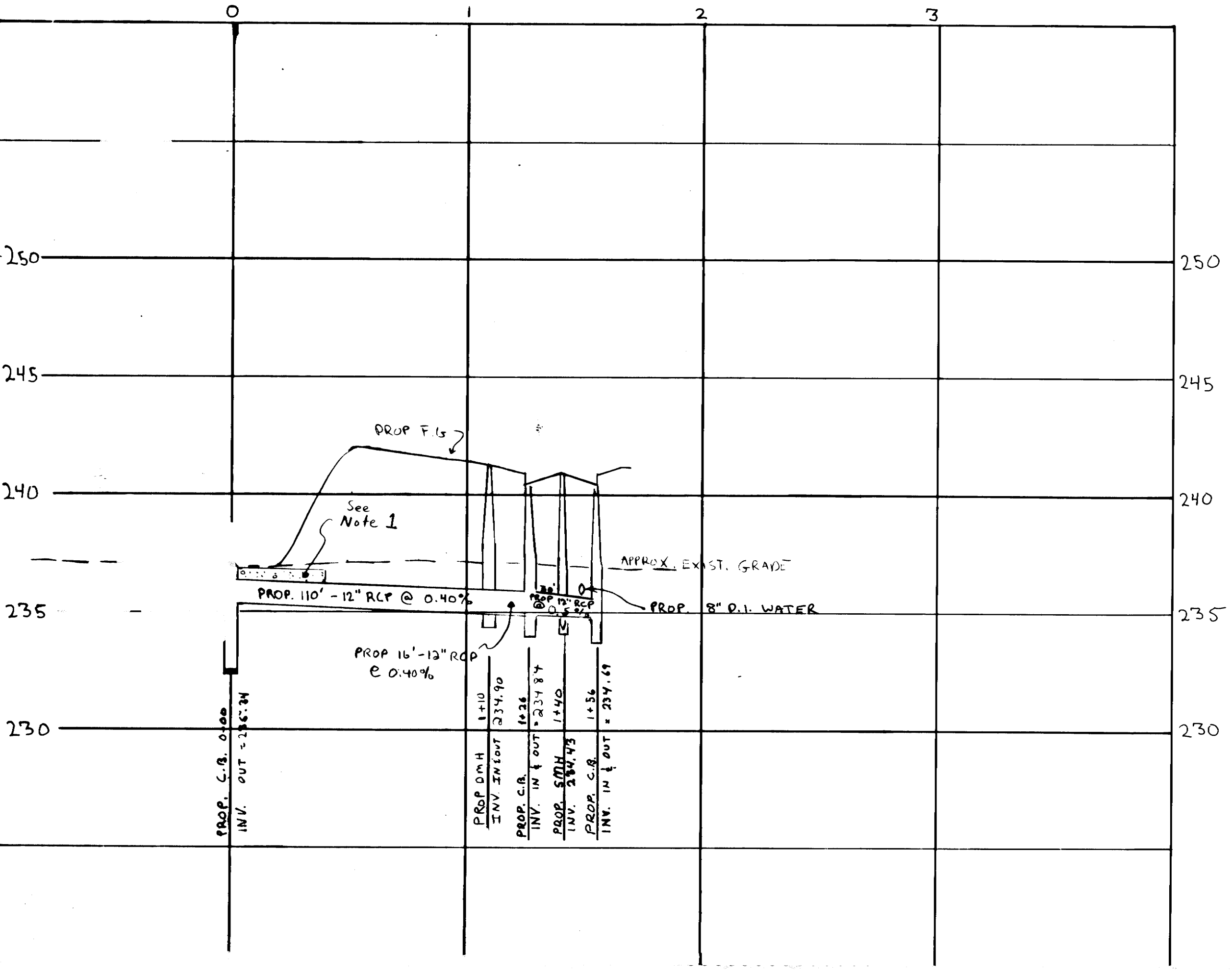


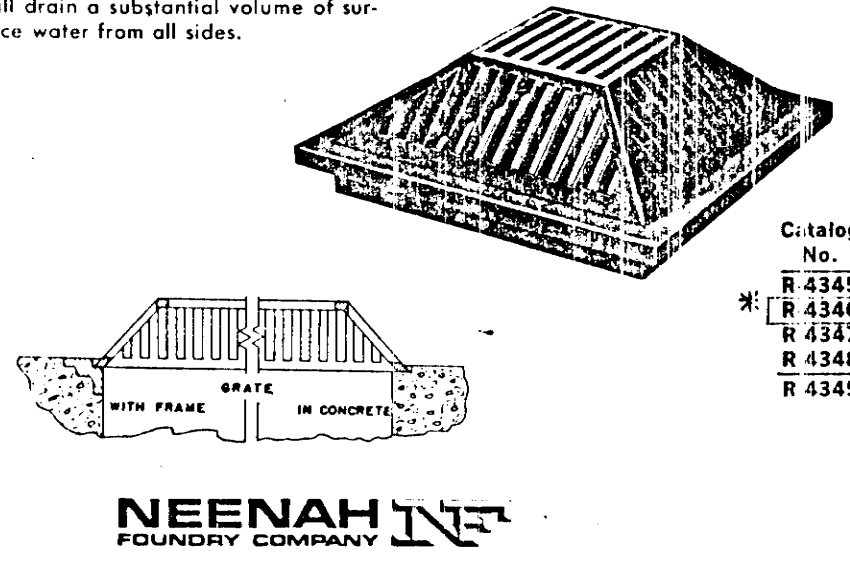


STATIONS ALONG RCP DRAIN PIPE



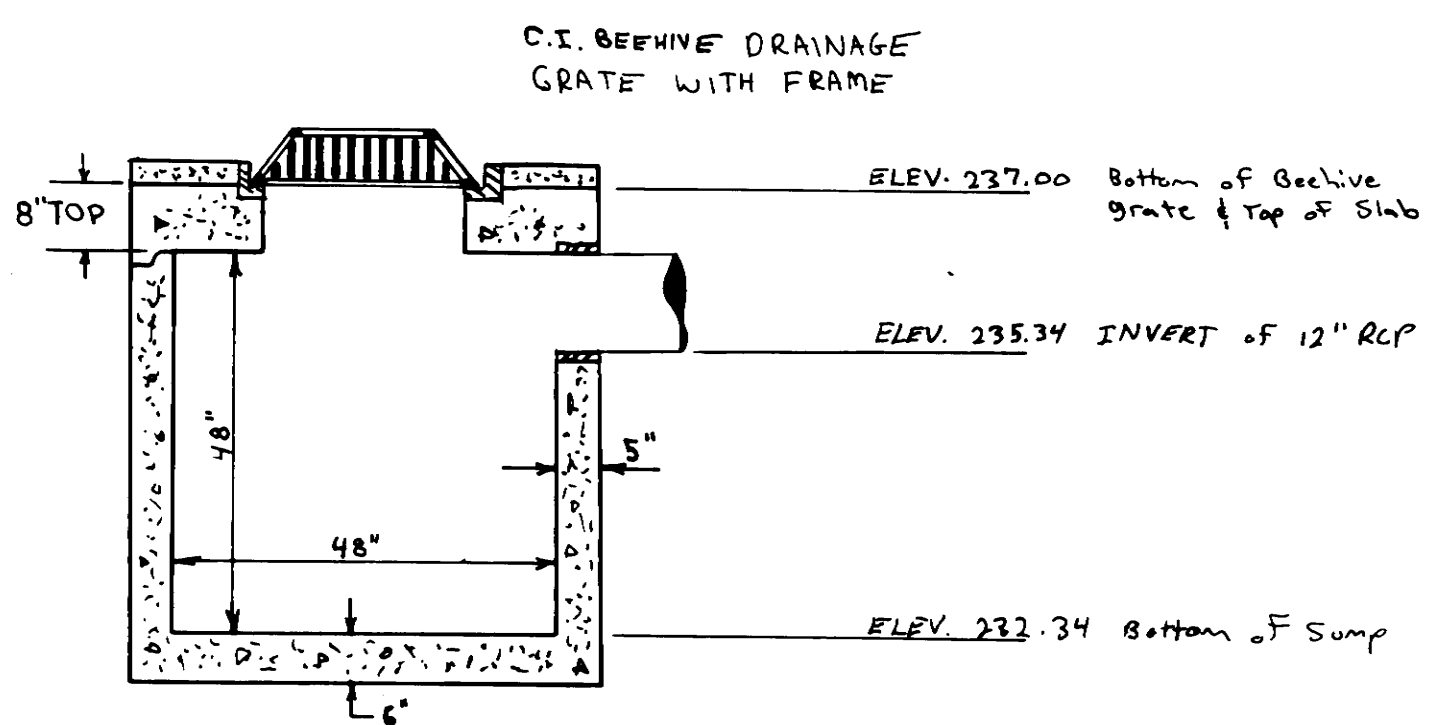
R-4345 to R-4348 Series
Square Beehive
Drainage Grates, Frames

Medium Duty - For Off-Roadway Construction
These castings are suitable for use at low points of large graded areas and will drain a substantial volume of surface water from all sides.



Dimensions in inches						
Catalog No.	Grate Overall	Grate Top Size	Frame Overall	Height Grate	Height Frame	Wt. Lbs.
R 4345	26 x 26	12 x 12	30 x 30	6 1/2	4	100
R 4346	26 x 26	12 x 12	30 x 30	6 1/2	4	250
R 4347	42 x 42	29 x 29	46 x 46	5 1/2	4	335
R 4348	38 x 38	29 x 29	46 x 46	5 1/2	4	465

R 4345 and R 4347 furnished as grates only.



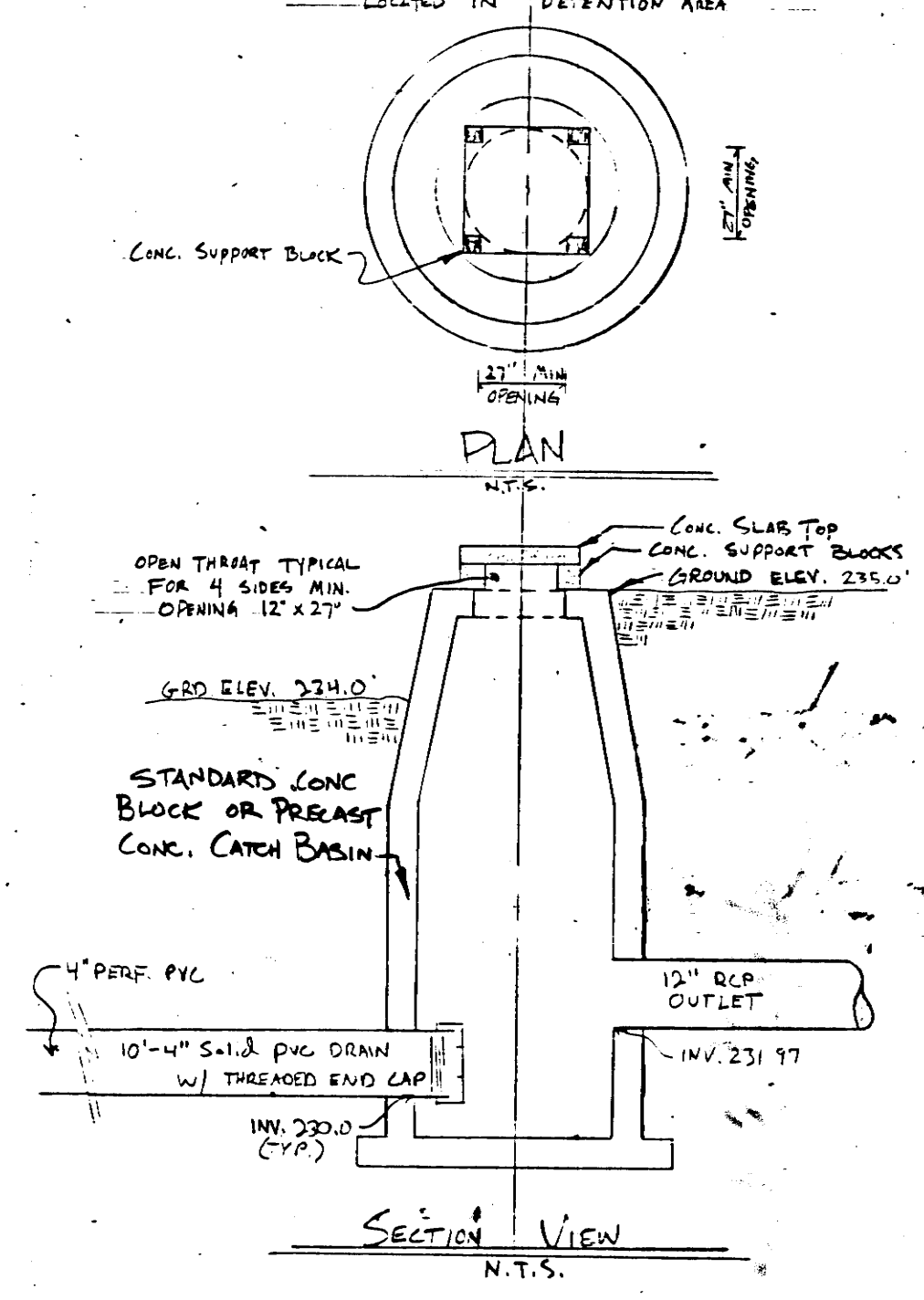
NOTE:
REINFORCED CONCRETE MANHOLE
MANUFACTURED IN ACCORDANCE
WITH ASTM C-478.

YARD DRAIN
DETAILS (NO SCALE)

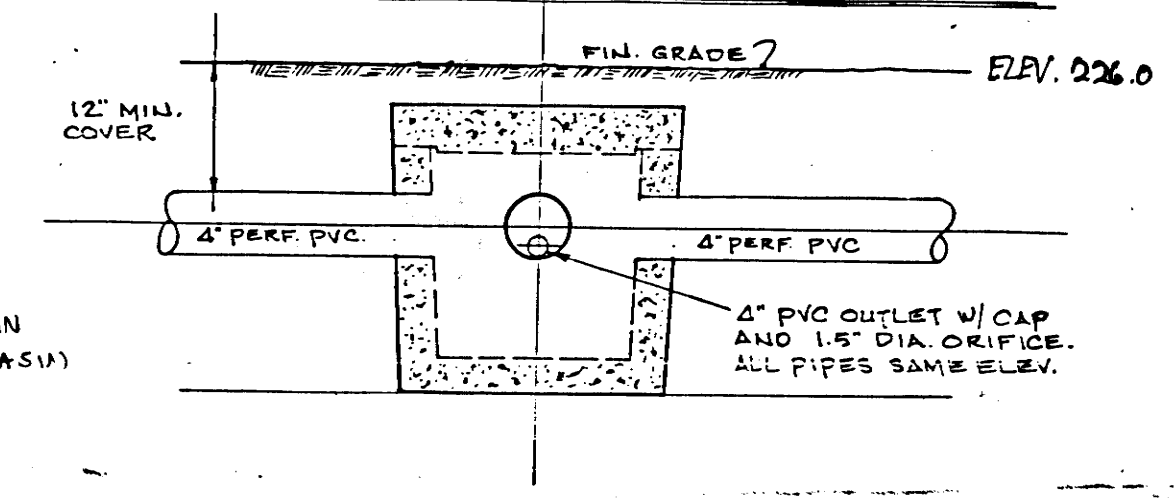
CONSTRUCTION NOTES:

1. 6" CONCRETE CAP TO SPRINGLINE OF PIPE FOR FIRST 36' OF PIPE RUN
2. ALLOWABLE FILL - FOR ENTIRE BOTTOM OF BOTH UPPER & LOWER DETENTION BASIN (NOT JUST NEAR UNDERDRAIN) - MEDIUM TO COARSE SAND WITH OR WITHOUT STONEL (NOT TO EXCEED 3" IN DIAMETER) - ANY EXISTING CLAY TO BE REMOVED

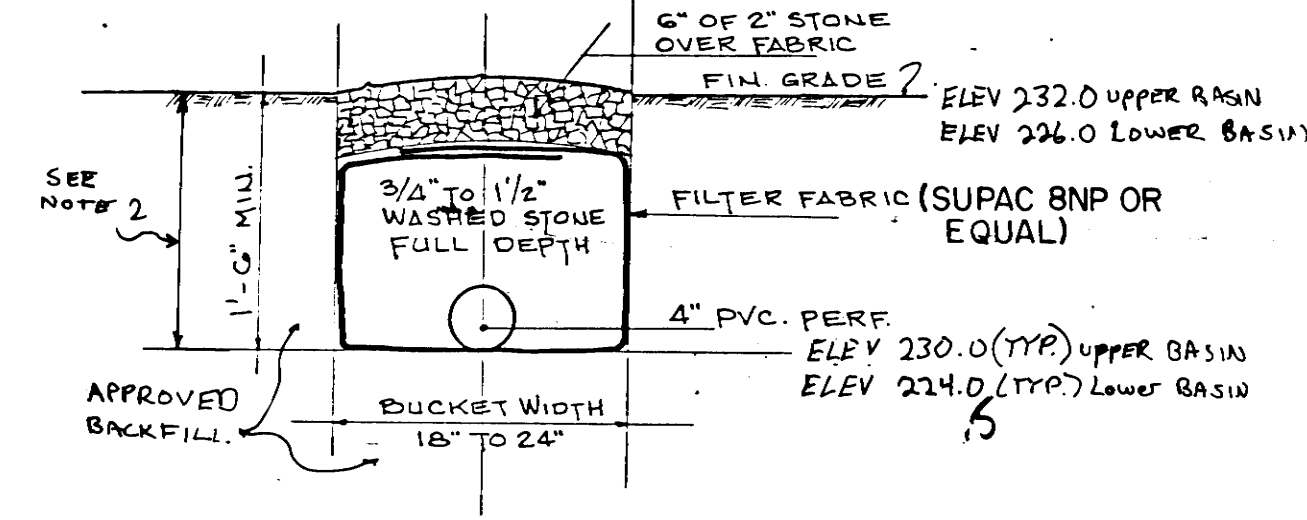
UPPER DETENTION BASIN
DROP INLET STRUCTURE



LOWER DETENTION BASIN
D-BOX SECTION DETAIL (NO SCALE)



UPPER & LOWER DETENTION BASINS
PIPE TRENCH WITH FILTER FABRIC (UNDERDRAIN)



DETAILS- YARD DRAIN & UNDERDRAINS

PLAN & PROFILE- YARD DRAIN OFF EVERGREEN DRIVE

"PORTERWOODS"

OWNER/ DEVELOPER

PORTERWOODS ASSOCIATES

WARD ENGINEERING ASSOCIATES, INC.

CONSULTING ENGINEERS

1200 CONVERSE STREET LONGMEADOW, MASS.

DRAWN BY JMM CHECKED BY JJS APPR. BY JJS

DATE 12-89

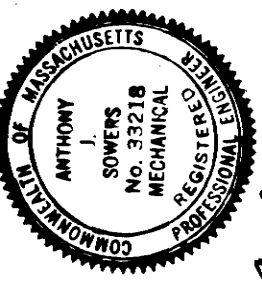
JOB NO. 85-11

CONTRACT NO.

SCALE AS NOTED

SHEET NO. 11 OF 11

REVISIONS	NO.	DATE



Anthony J. Ward