

| PERCOLATION TEST HOLES |            |              |
|------------------------|------------|--------------|
| NO.                    | TEST       | RESULTS      |
| TH-1                   | GRND. WAT. | EL. 92.52    |
| TH-2                   | PERC.      | 1" / 30 MIN. |
| TH-3                   | PERC.      | 1" / 30 MIN. |
| TH-4                   | PERC.      | 1" / 30 MIN. |

## SEWAGE DISPOSAL SYSTEM DATA

### BASIS OF DESIGN

#### TOTAL SANITARY WASTE:

RATE = 15 G.P.D./OCCUPANT  
 NO. OCCUPANTS = 85  
 DAILY FLOW  $85 \times 15 = 1275 \text{ G.P.D.}$

SEPTIC TANK CAPACITY: TOTAL DAILY FLOW  
 REQUIRED: 1275 GALS. USE 1500 GAL.

#### APPLICATION RATE:

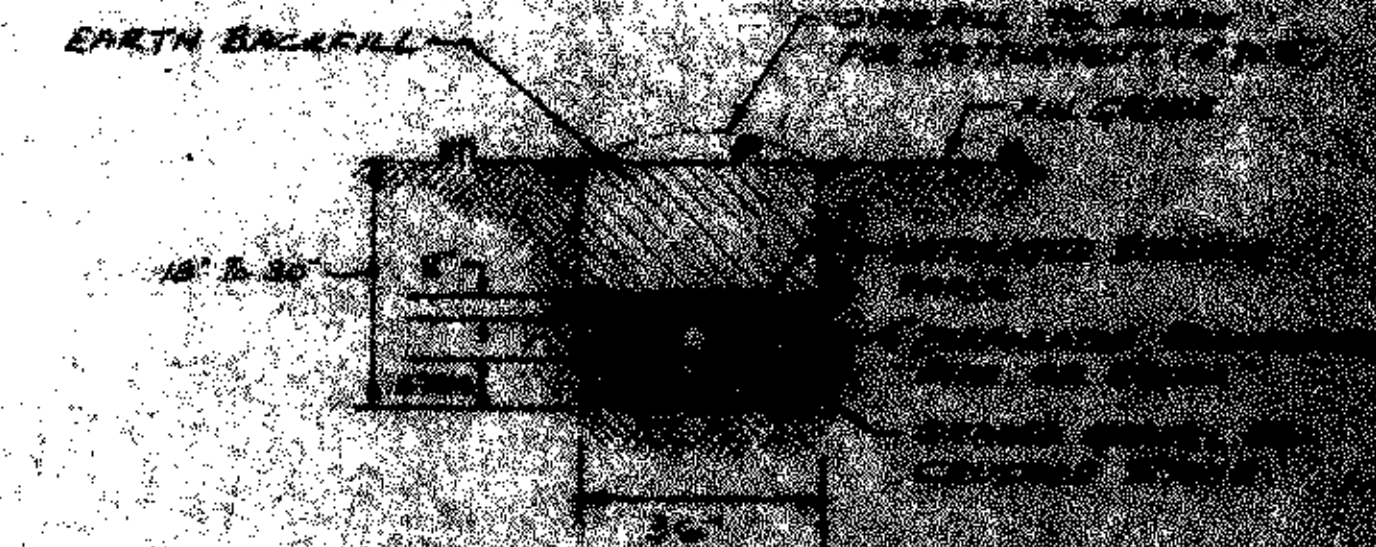
BASIS OF 1" FALL/30' MIN. = 0.8 GAL/D.

#### SUBSURFACE TILE FIELD:

TRENCH AREA =  $1275 \div 0.8 = 1594$   
 TRENCH WIDTH = 36"  
 DISTANCE BETWEEN TRENCHES = 5'-0"  
 TOTAL TRENCH LENGTH REQUIRED =  $1594 \div 3 = 531 \div 4 = 133$   
 NO. OF LATERALS =  $10 \times 54 \text{ FT} = 540 \text{ FEET}$

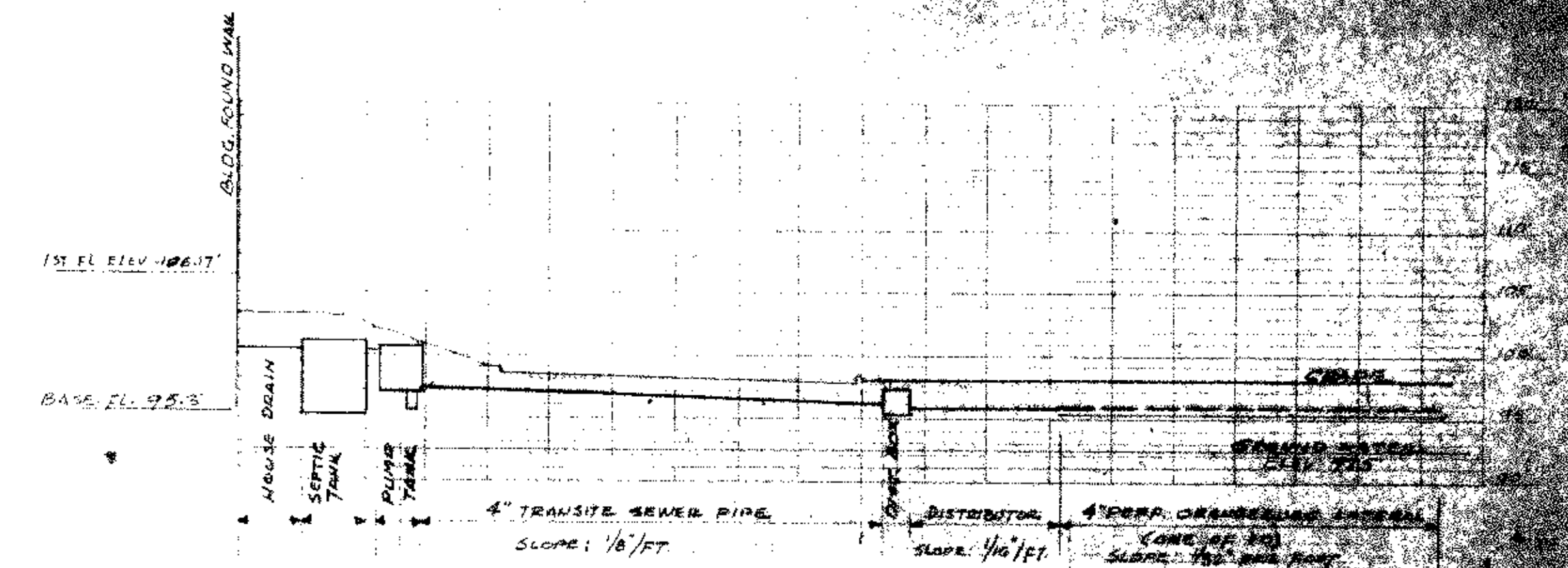
#### DOSING REQUIREMENT:

MIN. VOL. OF DOSE = 75% VOL. OF DISTRIBUTORS (4")  
 $= .75 \times .68 \times 540 = 275 \text{ GAL.}$   
 MIN. DOSE TANK CAP. =  $1.25 \times 275 = 344 \text{ GAL.}$   
 USE 650 GAL. MODIFIED TANK.

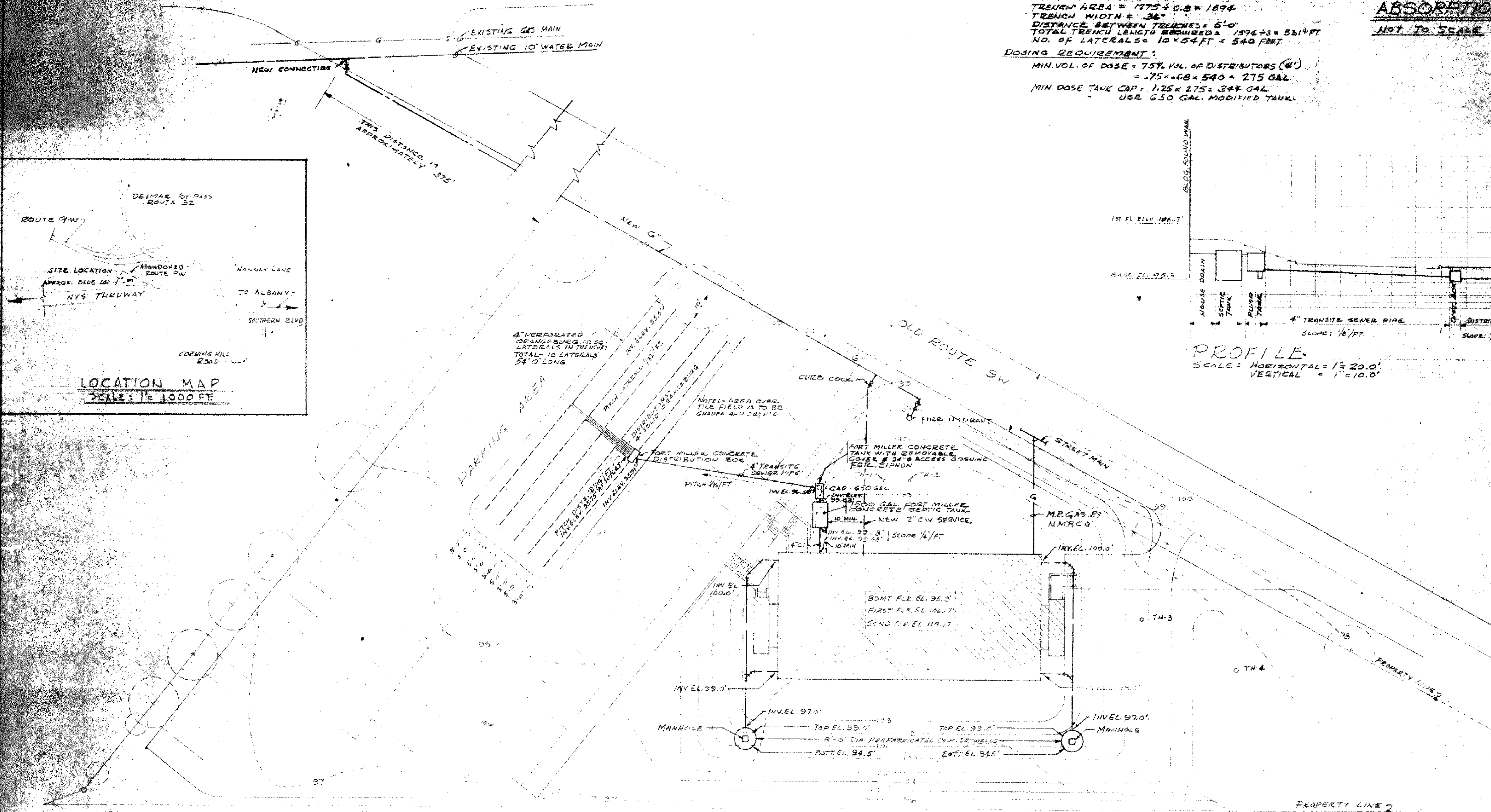
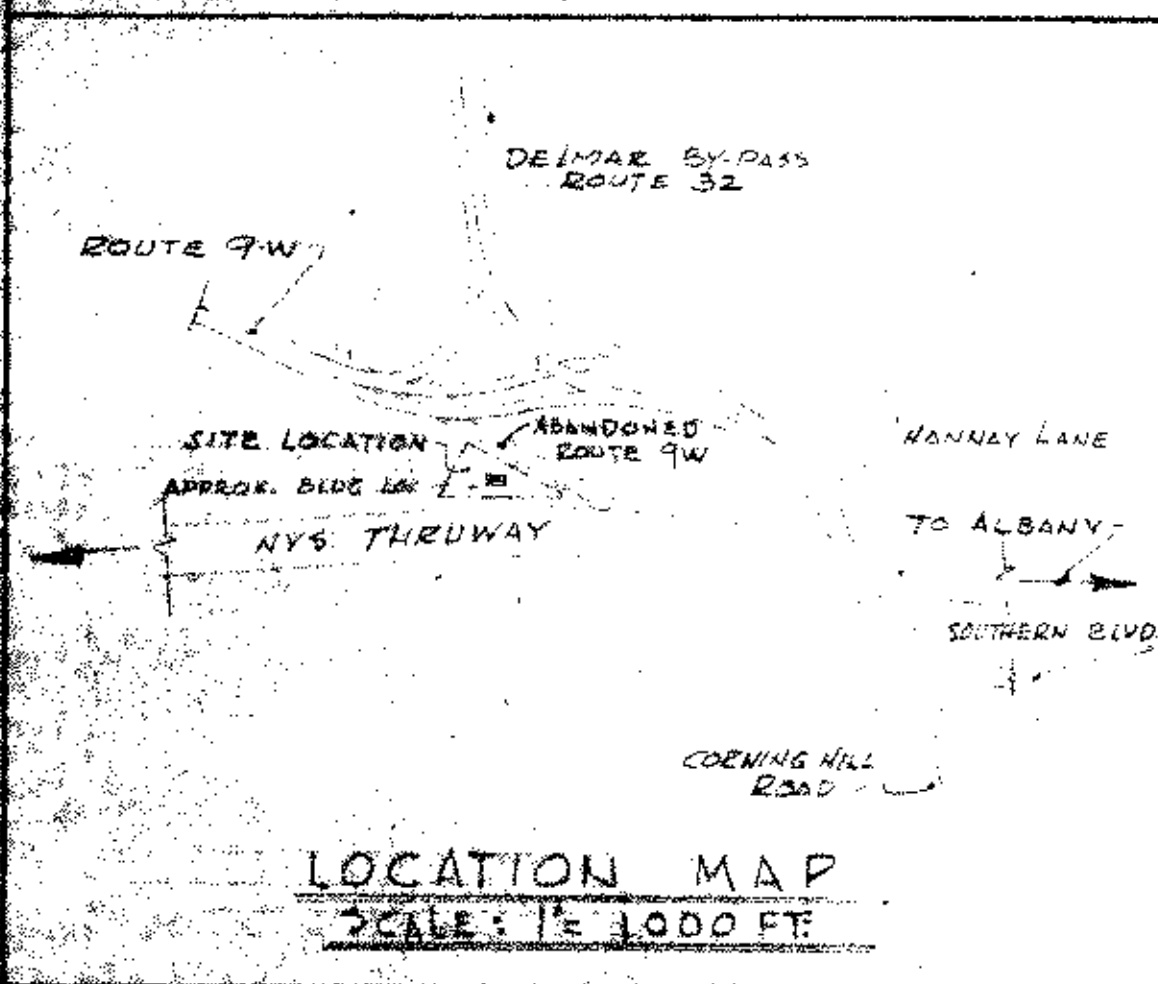


## ABSORPTION TRENCH SECTION

NOT TO SCALE

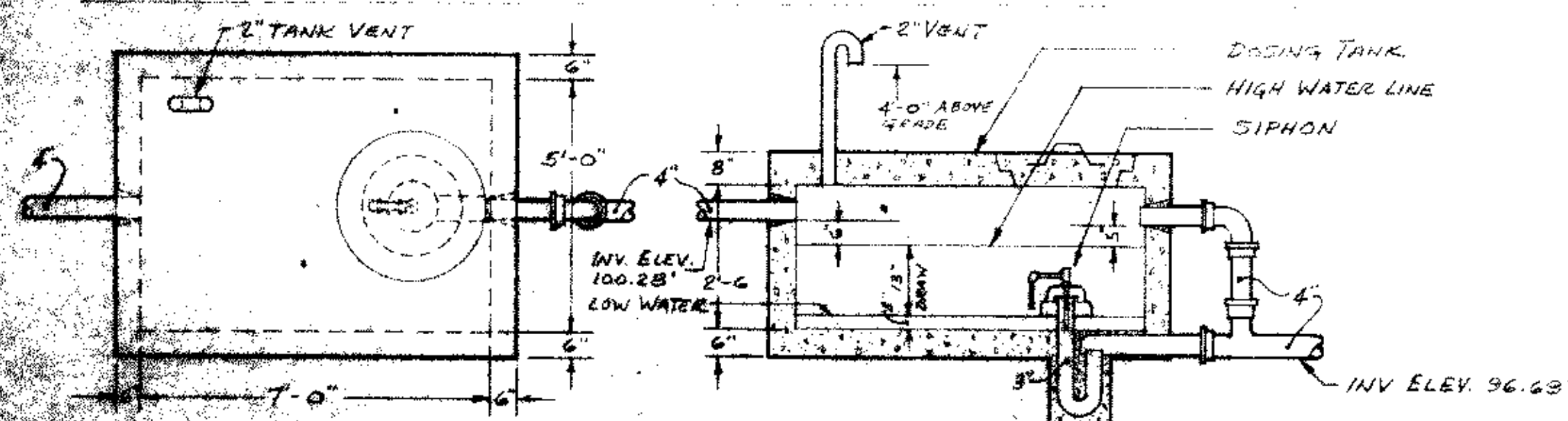


PROFILE  
 SCALE: HORIZONTAL = 1" = 20.0'  
 VERTICAL = 1" = 10.0'



## SITE PLAN

SCALE: 1" = 20.0'



## DETAILS OF DOSING TANK

NOT TO SCALE



NEW OFFICE BUILDING FOR  
 INDEPENDENT MUTUAL INSURANCE AGENTS  
 ROUTE 9W  
 TOWN OF BETHLEHEM, NEW YORK

**SEWAGE DISPOSAL**

DRAWN BY: **R.E.H.** CHECKED BY: **R.W.S.**

**LUX AND QUACKENBUSH ARCHITECTS**  
 ALBANY, NEW YORK

**5D-1**

REC'D 24 OCT 70