

Cesspools, Septic Tanks, Sewers, Sumps, Drain Fields Cleaned, Installed and Repaired

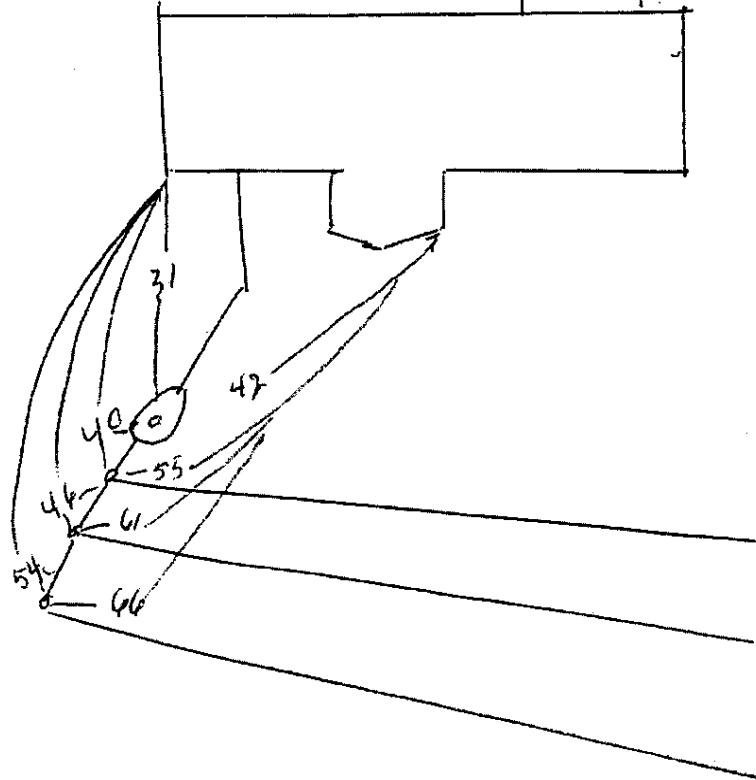
AAA POLLUTION CONTROL

1525 SO. STERLING AVENUE
ST. PAUL, MINNESOTA 55119

PHONE: 739-9341

APR 26 1991

DENNIS R. SCHLOMKA



TED BUCHHOLTZ
3597 KELVIN AV. N.
LK. ELMO 55042

BUILDING PERMIT City of Lake Elmo

Bus: 777-5510

(PLEASE PRESS HARD)

No. 91-65

Site Address 3597 KELVIN AVE Owner Theo. Buchholtz Phone 770-5197

Contractor AAA Pollution Control Address _____ Phone 738-9341

Owner's Address 3597 Kelvin Ave Legal Description of Site _____

Zone _____ Flood Plain: NA, FW, FF _____

Set Backs _____ Lot Size _____ Fire Zone _____
Front R. Side Back L. Side

Type of Construction _____ Size of Bldg. _____ Square Feet _____
Frame Brick Masonry Other

Type of Construction _____ No. of Stories _____ Starting Date _____

OFFICE USE ONLY

Building & Remodeling

- 1. Alteration _____
 - 2. Remodel _____
 - 3. Addition _____
 - 4. New Const. _____
 - 5. Roof & Siding _____
 - 6. Insulation _____
 - 7. Garage _____
 - 8. Swimming Pool _____
 - 9. Decks & Porches _____
 - 10. Sheds _____
 - 11. Curb Cut & Driveway
& Parking Lot _____
 - 12. Other _____
- Estimated Cost \$ _____
(including labor)

Plumbing, Heating, A.C., Venting & Mechanical

- A. Repair _____
 - B. Alter _____
 - C. New _____
 -
 - 1. Type of heat _____
 - 2. No. Bathrooms _____
 - 3. Other _____
- \$ _____ \$ _____
 Plumbing Heating
- \$ _____ \$ _____
 Venting Mechanical
- \$ 2832 \$ _____
 Sewer Water

- S.A.C. \$ _____
- Sewer-Septic \$ 25.00
- Connection No. 50.50
- W.A.C. \$ _____
- Plumbing fee \$ _____
- Surcharge \$ _____
- Heating fee \$ _____
- Surcharge \$ _____
- Vent, A.C. fee \$ _____
- Surcharge \$ _____
- Bldg. \$ _____
- Surcharge \$ _____
- Investigation fee \$ _____
- Other \$ _____

EXPLANATION OF WORK TO BE DONE:

Depth/Dimension of Trench: _____
 Cost of Sewer and Water Hookup \$ _____

Plan Review \$ _____
 Surcharge Total \$ 50

This permit is granted on the condition that all ORDINANCES will be respected and that the above information is true and correct. This permit expires after 1 year, but all exterior appearances must be reasonably complete within 90 days.

TOTAL PERMIT FEES \$ 25.50
 Receipt No. ck #0947
 Date 4-17-91

Theo. Buchholtz _____ 4-17-91
 Applicant/Contractor Date

Jim Mc Namara _____ 4-17-91
 Building Official Date

 Planning Director Date

*Paid
4-17-91
Jim Mc Namara*



EARTH SCIENCE

858 SW 1st AVE.
FOREST LAKE, MN 55025
464-4902 — 462-2314

FOR THEODORE BUCHHOLTZ - 3597 KELVIN AVE. NO.
LAKE ELMO, MN. 55042

LOCATION 3597 KELVIN AVE. NO. CITY OF LAKE ELMO, MN.
FAILED SYSTEM

THE RESULTS OF THESE SOIL TESTS DOES NEITHER APPROVE OR DISAPPROVE THIS SITE AS TO CONSTRUCTING A STRUCTURE OR INSTALLING AN ONSITE SEWAGE TREATMENT SYSTEM:

THIS TESTING INFORMATION SHOULD BE SUBMITTED TO THE APPROVING OFFICIALS FOR REVIEW AND APPROVAL, WHILE THE TESTING AREA IS STAKED CLEARLY ONSITE FOR INSPECTION:

*1500 GAL TANK
510 SQ FT DRAWFIELD
18" Rock Below Pipes*

BY: - H. WEAVER
MPCA. CERT:
NO. # 551

DATE: 8 APRIL 1991

PROFESSIONAL SOIL TESTERS
SINCE 1977



EARTH SCIENCE

858 SW 1st AVE.
FOREST LAKE, MN 55025
464-4902 — 462-2314

8 APRIL 1991

MR. THEODORE BUCHHOLTZ
3597 KELVIN AVE. NORTH
LAKE ELMO, MN. 55042

RE: SOIL BORINGS & PERCOLATION TESTS

LOCATION: 3597 KELVIN AVE. NORTH - CITY OF LAKE ELMO, MN.

DEAR MR. BUCHHOLTZ:

AT YOUR REQUEST SOIL BORINGS AND PERCOLATION TESTS WERE CONDUCTED ON YOUR PROPERTY LOCATED AT 3597 KELVIN AVE. NO. CITY OF LAKE ELMO, MN.

THESE SOIL TESTS WERE CONDUCTED TO DETERMIN SOILS PROFILE FOR INSTALLATION OF A NEW ONSITE WASTE WATER TREATMENT SYSTEM TO REPLACE THE EXISTING FAILED SEPTIC TANK AND DRY WELL CURRENTLY ON THIS SITE.

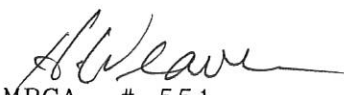
THE SOIL TESTS CONDUCTED IN THE TESTED AREA, INDICATE A WELL DRAINED LOAMY SAND SOIL TYPE. AVERAGE PERCOLATION RATE IS IN THE 6 - 15 MPÍ. RANGE. (WELL DRAINED)

A SIZING FACTOR OF 1.27 SQ. FT. IS SUGGESTED FOR THE NEW IN GROUND TREATMENT TRENCH SYSTEM. THE EXISTING TWO TANKS ON THIS SITE SHOULD BE PUMPED AND FILLED AND A NEW SEPTIC TANK INSTALLED.

18"IN. OF FILTER ROCK BELOW THE PIPE TO REDUCE THE MINIMUM REQUIRED LIN. FEET OF TRENCH, DUE TO LIMITED INSTALLATION SPACE AVAILABLE.

ENCLOSED IS TEST AREA LOCATION DRAWING, SOIL BORING PROFILE LOGS AND PERCOLATION TEST HOLE DATA. THIS TESTING SHOULD BE SUBMITTED TO CITY OFFICIALS FOR FORMAL REVIEW TO OBTAIN PERMIT TO INSTALL THE NEW SYSTEM.

SINCERELY,


H. WEAVER - MPCA. # 551

VILLAGE OF OAKDALE
VILLAGE OF LAKE ELMO

T.29N. - R.21W.

GRANT-MAHTOMEDI PG.32



VILLAGE OF OAKDALE + VILLAGE OF LAKE ELMO HUDSON VILLAGE OF WOODBURY

PG.28 10000 11000 12000

**FULL SERVICE
PROFESSIONALLY
DESIGNATED APPRAISERS
CONTACT:**

William A. Schwab, CA-S., C.R.A.

Our company can serve your appraisal needs in real estate, fixtures or equipment. Expert witnesses for court or condemnation work.



PENFIELD, INC.

**CALL OR WRITE
TO INQUIRE
(612) 439-2047**

11170 60TH ST. N.
STILLWATER, MN.
55082

MEMBERS OF:
National Association of Review Appraisers
American Association of Certified Appraisers
Minnesota Governmental Appraisers
American Right of Way Association
American Society of Appraisers

Cesspools, Septic Tanks, Sewers, Sumps, Drain Fields Cleaned, Installed and Repaired

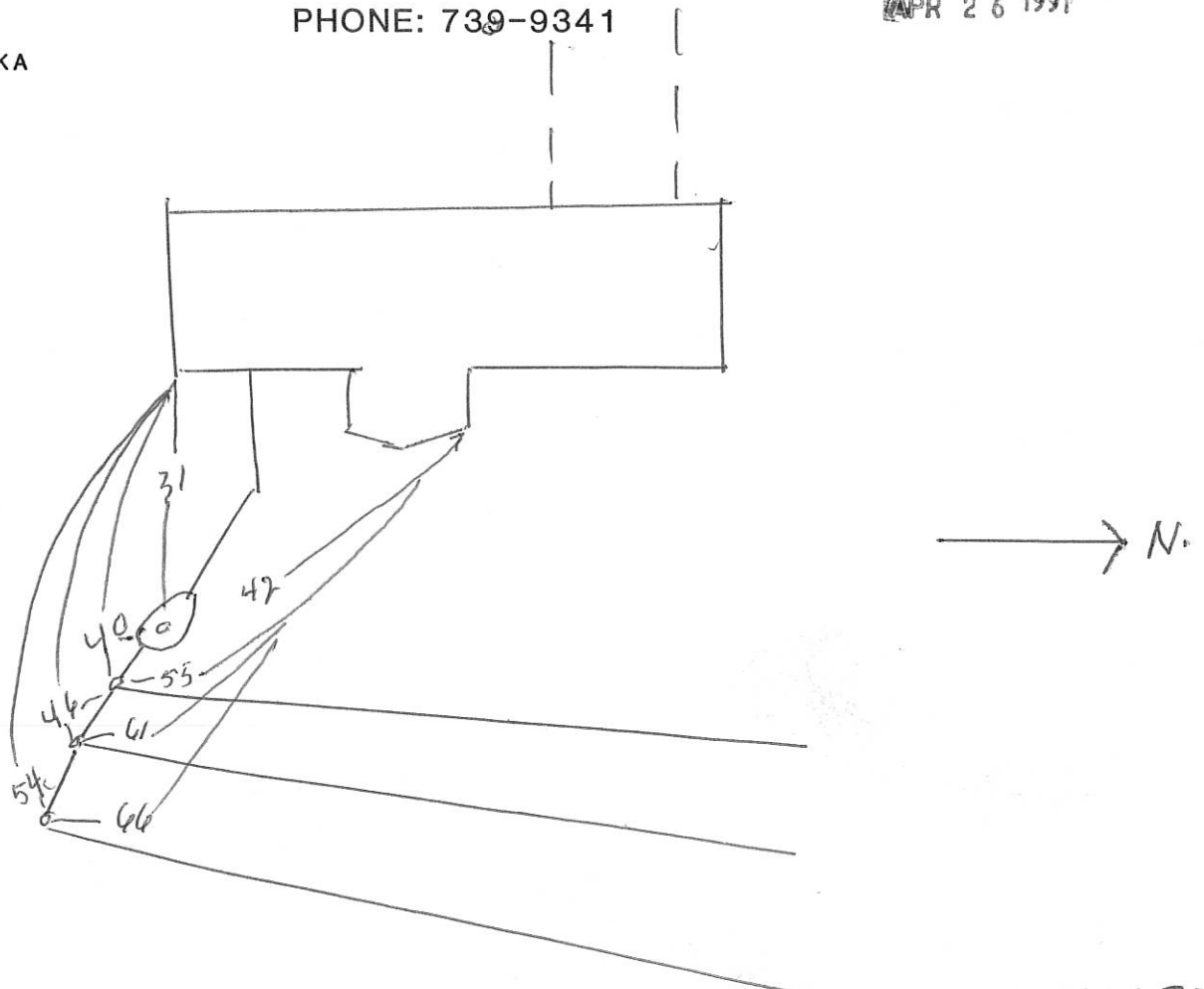
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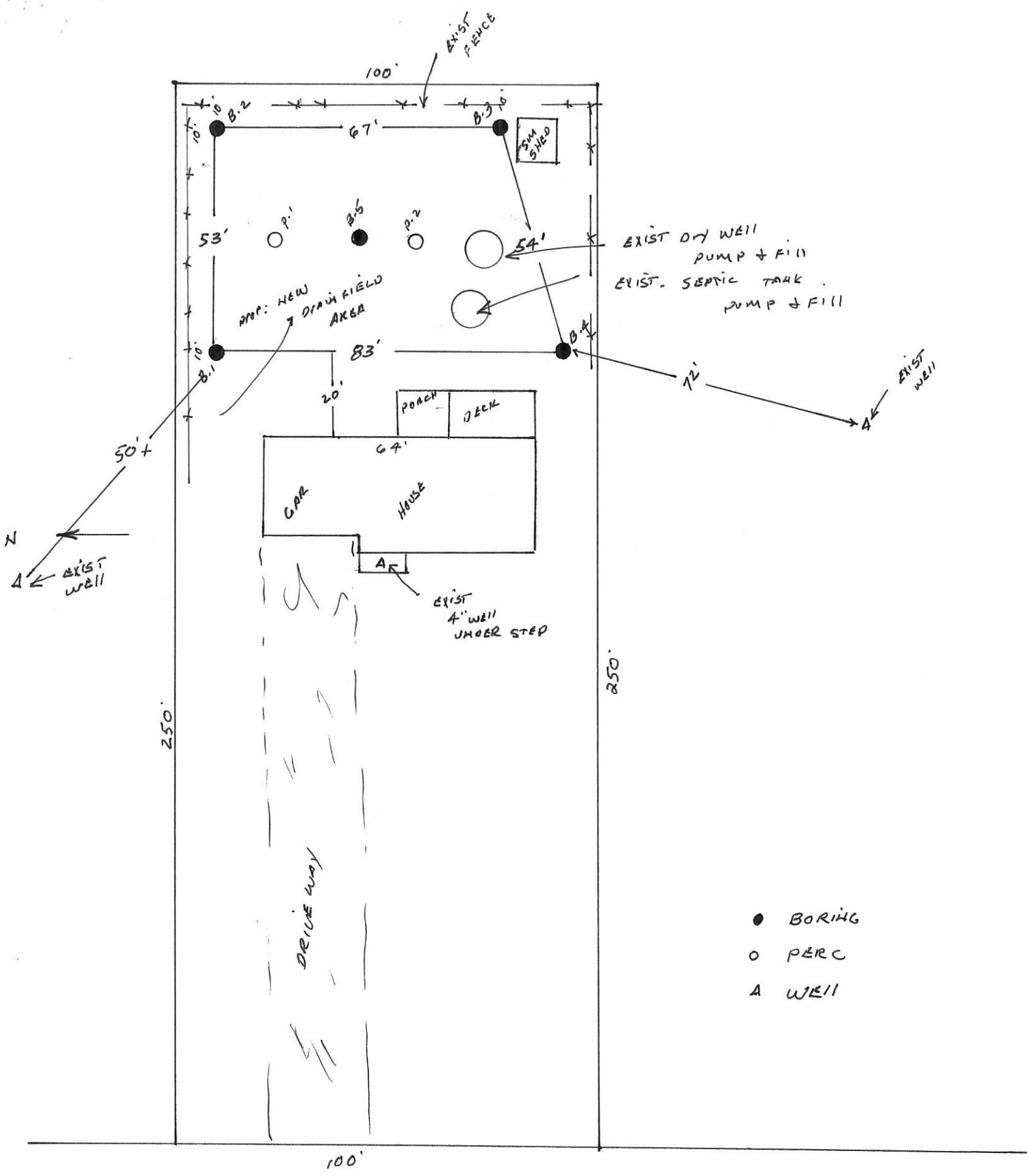
PHONE: 739-9341

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DENNIS R. SCHLOMKA



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- BORING
- PERC
- A WELL

KELVIN AVE NORTH

SCALE 1" = 30'



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PERCOLATION TEST DATA

TEST HOLE NO. P-1
LOCATION: 3597 KELVIN AVE. NO
PREPARED: 4 APRIL 1991 BOTTOM DEPTH: 42"
TEST HOLE DIAMETER: 6 IN.
TEST HOLE PROFILE: 0-5" DRK. BRN. FINE SANDY LOAM
5"-24" LT. BRN. FINE SANDY LOAM
24"-36" LT. REDDISH TAN FINE LOAMY SAND & ROCKS
36"-42" LT. REDDISH TAN FINE - MED. SAND

PERCOLATION TEST CONDUCTED BY: H. WEAVER — MPCA. # 551

START 4 APRIL 91 AM PM
TIME: 11:00 6" IN. H/20 DROP LEVEL: REMARKS:

| | | | |
|-------|------------------|--------|--|
| 11:00 | - | | |
| 11:10 | $\frac{3}{16}$ " | | |
| 11:12 | - | REFILL | |
| 11:22 | $\frac{1}{4}$ " | | |
| 11:24 | - | REFILL | |
| 11:34 | $\frac{1}{2}$ " | | |
| 11:37 | - | REFILL | |
| 11:47 | $\frac{3}{16}$ " | | |

PERCOLATION AVERAGE RATE: 8 MPI:

PERCOLATION TEST DATA

TEST HOLE NO. P-2
LOCATION: 3597 KELVIN AVE. NO.
PREPARED: 4 APRIL 1991 BOTTOM DEPTH: 48"
TEST HOLE DIAMETER: 6 IN.
TEST HOLE PROFILE: 0-7" DRK. BRN. FINE SANDY LOAM
7"-20" LT. BRN. RED FINE SANDY LOAM
20"-48" LT. REDDISH TAN FINE SAND & ROCKS

PERCOLATION TEST CONDUCTED BY: H. WEAVER — MPCA. # 551

START 4 APRIL 1991 AM PM
TIME: 11:05 6" IN. H/20 DROP LEVEL: REMARKS:

| | | | |
|-------|-------------------|--------|--|
| 11:05 | - | | |
| 11:15 | $\frac{15}{16}$ " | | |
| 11:17 | - | REFILL | |
| 11:27 | $\frac{7}{8}$ " | | |
| 11:30 | - | REFILL | |
| 11:40 | $\frac{7}{8}$ " | | |
| 11:42 | - | REFILL | |
| 11:52 | $\frac{13}{16}$ " | | |

PERCOLATION AVERAGE RATE: 5.3 MPI:

BORING LOG

BORING #1

0" - 6 "
DRK. BROWN FINE SANDY
LOAM

6" - 24"
LT. BROWN FINE SILTY
LOAM

24" - 40"
LT. REDDISH BRN. FINE
SANDY LOAM

40" - 48"
LT. RED BRN. FINE LOAMY
SAND & ROCKS

48" - 6' - 7"
LT. REDDISH TAN FINE SAND

6' - 7" - 8' - 0"
LT. RED FINE SAND

END BORING - 8' - 0"

SATURATION ZONE: IMPERVIOUS

DEPTH_(NONE)_____

BORING #2

0" - 7"
DRK. BROWN FINE SANDY LOAM

7" - 20"
LT. YELLOW TAN FINE SANDY
LOAM

20" - 36"
LT TAN FINE SANDY LOAM

36" - 7' - 0"
LT. REDDISH TAN FINE LOAMY
SAND & ROCKS

7' - 0" - 8' - 0"
LT. BRN. FINE SILTY SAND
(COMPRESSED)

END BORING - 8' - 0"

LAYER - WATER INDICATED:

DEPTH_(NONE)_____

BORING LOG

BORING #3

0" - 3 "
DRK. BROWN FINE SANDY
LOAM

3" - 26"
LT. BROWN FINE SANDY
LOAM

26" - 40"
REDBRN. FINE SANDY LOAM
(OLD DRAINFIELD TRENCH)

40" - 52"
RED BRN. FINE SANDY CLAY
(MOIST - SOFT)

52" - 8' - 0"
LT. REDDISH TAN FINE SAND

END BORING - 8' - 0"

SATURATION ZONE: IMPERVIOUS LAYER - WATER INDICATED:

DEPTH_(NONE)_____

BORING #4

0" - 5"
DRK. BROWN FINE SANDY LOAM

5" - 33"
BRN. FINE SANDY LOAM

33" - 48"
LT. REDDISH LOAMY SAND

48" - 56"
LT. REDDISH TAN FINE LOAMY
SAND & ROCKS

56" - 59"
LT. YELLOW FINE SANDY LOAM

59" - 8' - 0"
LT. YELLOW RED VERY FINE
LOAMY SAND

END BORING - 8' - 0"

DEPTH_(NONE)_____

BORING LOG

BORING #5

BORING

0" - 5 "

DRK. BROWN FINE SANDY
LOAM

5" - 21"

LT. BROWN FINE SANDY
LOAM

21" - 33"

LT. REDDISH BRN. FINE LOAMY
SAND & ROCKS

33" - 60"

LT. RED TAN FINE LOAMY
SAND & ROCKS

60 - 68"

LT. TAN FINE - MED. SAND

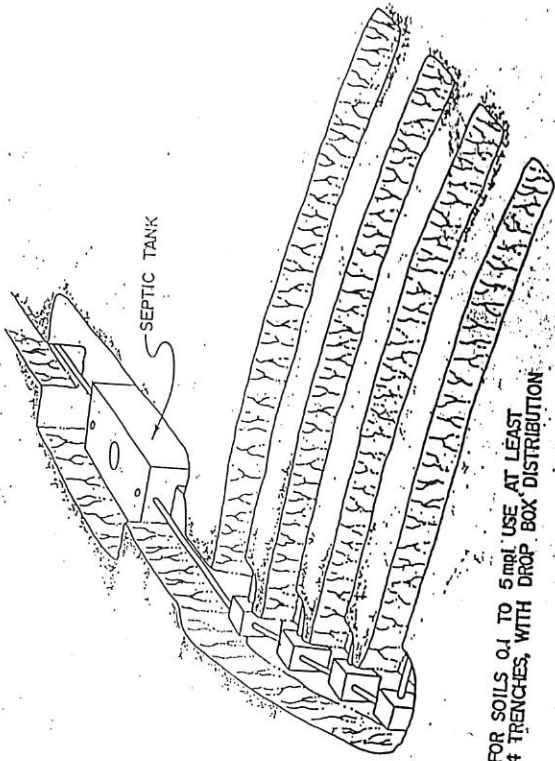
68" - 8' - 0"

LT. TAN FINE SAND

END BORING - 8' - 0"

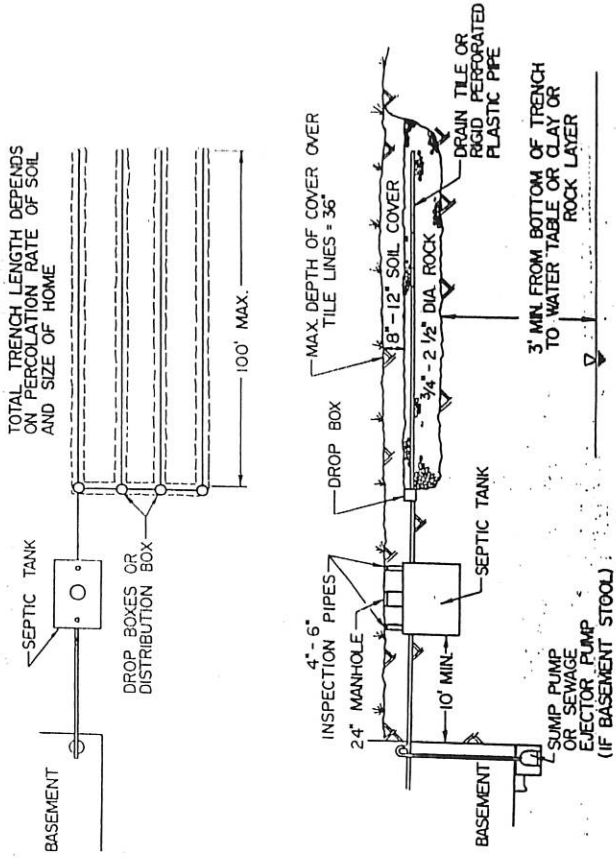
SATURATION ZONE: IMPERVIOUS LAYER - WATER INDICATED:

DEPTH_(NONE)_____



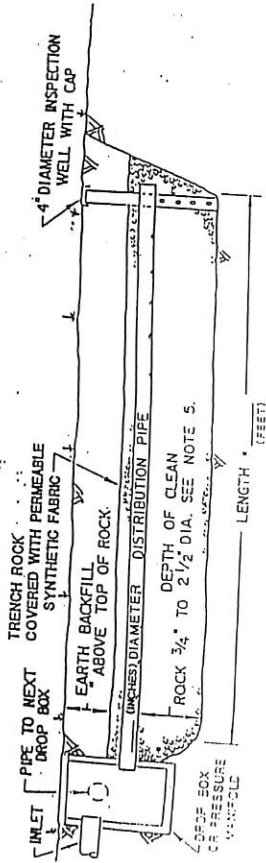
FOR SOILS O.I. TO 5 m.p.l. USE AT LEAST 4 TRENCHES, WITH DROP BOX DISTRIBUTION

TOTAL TRENCH LENGTH DEPENDS ON PERCOLATION RATE OF SOIL AND SIZE OF HOME

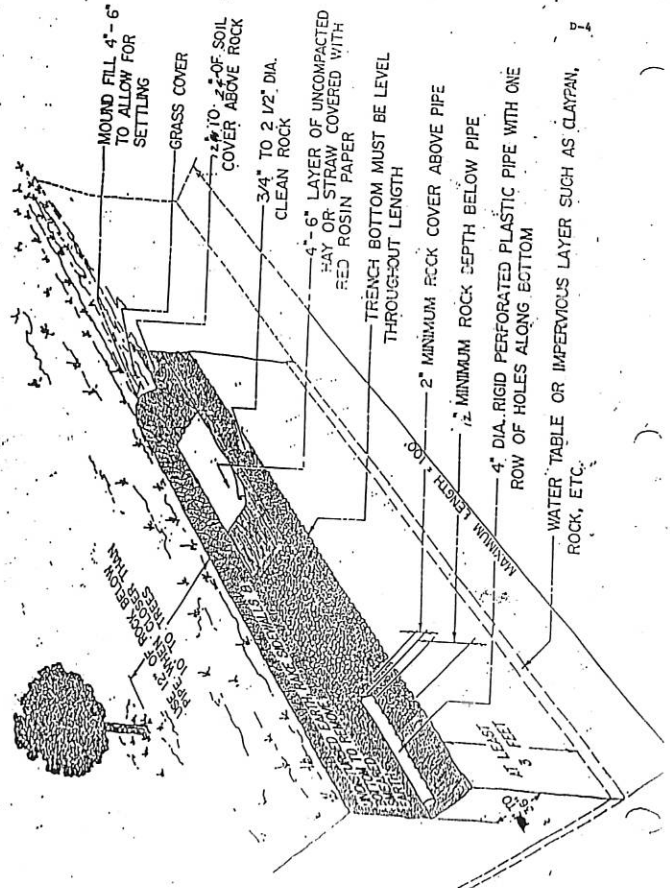
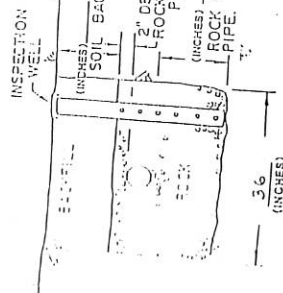


PUMPING STATION FOR HOMES (PUMP IN BASEMENT)

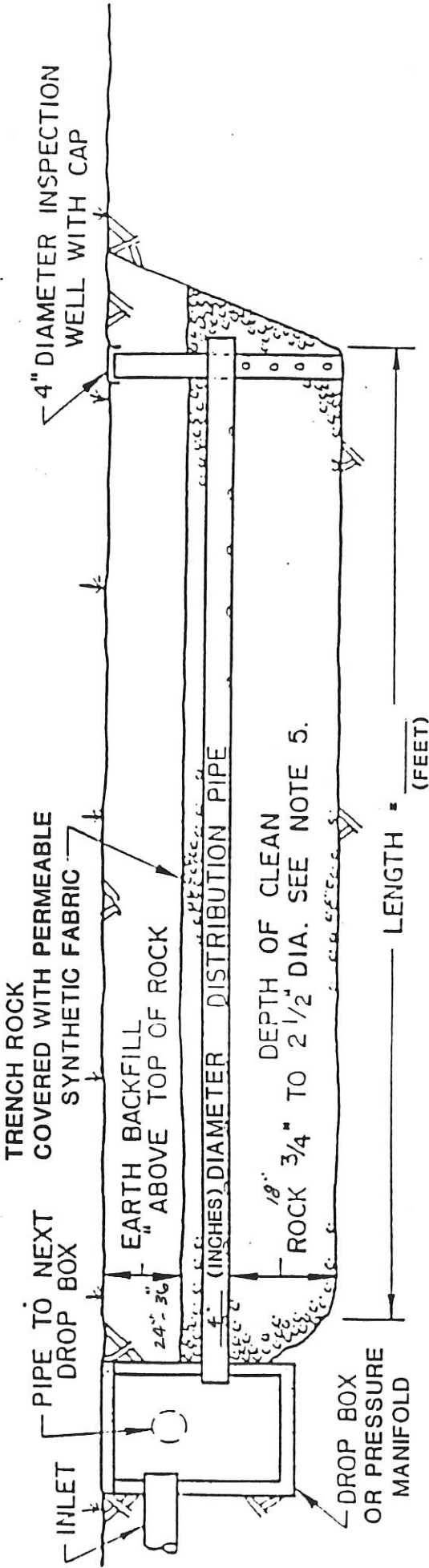
RAINFIELD TRENCH



- NOTES: 1. BOTTOM OF TRENCH MUST BE LEVEL. TOP OF TRENCH ROCK MUST BE LEVEL.
- 2. SLOPE ON DISTRIBUTION PIPE IS
- 3. DISTRIBUTION PIPE CAN BE PERFORATED PLASTIC INSTALLED WITH ONE ROW OF HOLES ALONG THE PIPE BOTTOM. PIPE MUST HAVE A BEARING STRENGTH OF AT LEAST 1000 LBS/FT.
- 4. EXCAVATE TRENCHES ONLY WHEN THE SOIL-MOISTURE CONTENT DOES NOT EXCEED THE PLAS LIMIT AND IN A MANNER THAT LEAVES THE TRENCH BOTTOM UNWEALED AND IN A NATURAL UNSMEARED, UNCOMPACTED CONDITION.



DRAINFIELD TRENCH



NOTES: 1. BOTTOM OF TRENCH MUST BE LEVEL. TOP OF TRENCH ROCK MUST BE LEVEL.

2. SLOPE ON DISTRIBUTION PIPE IS LEVEL

3. DISTRIBUTION PIPE CAN BE PERFORATED PLASTIC INSTALLED WITH ONE ROW OF HOLES ALONG THE PIPE BOTTOM. PIPE MUST HAVE A BEARING STRENGTH OF AT LEAST 1000 LB/FT.

4. EXCAVATE TRENCHES ONLY WHEN THE SOIL MOISTURE CONTENT DOES NOT EXCEED THE PLASTIC LIMIT AND IN A MANNER THAT LEAVES THE TRENCH BOTTOM AND SIDEWALLS IN A NATURAL, UNSMEARED, UNCOMPACTED CONDITION.

