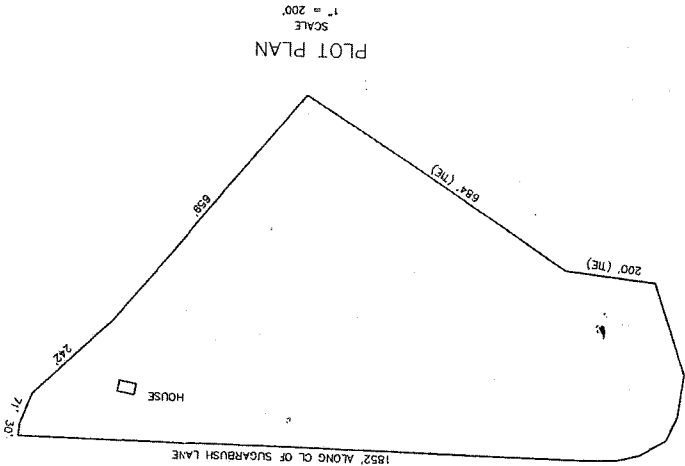


THIS DESIGN REPRESENTS A "BEST-FIX" SOLUTION FOR AN EXISTING HOUSE WITH A FAILING SYSTEM. AS SUCH, NO WARRANTY EXPRESS OR IMPLIED IS OFFERED.



P-2 @ 24" 20 minutes/inch

It is apparent that there has been some disturbance/recontouring of the soils in the proposed septic disposal area, however, this activity has not diminished the suitability of the area for a leachfield.

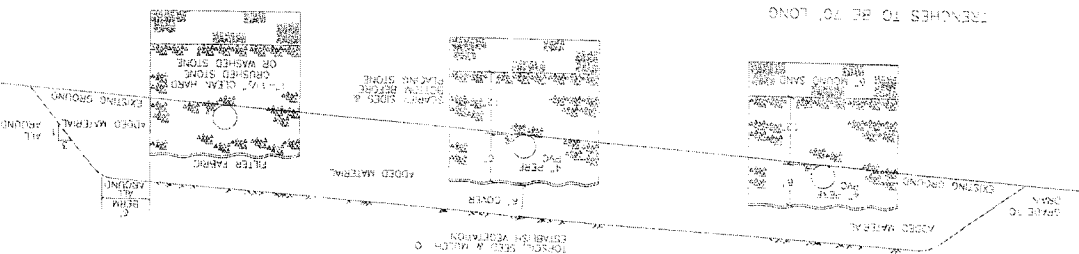
SB-1	0 - 48"	Orange-brown slightly gravelly silty coarse sandy loam	ESHWI at 48"
SB-2	0 - 10"	Dark-brown topsoil sandy loam	
SB-3	10 - 33"	Orange-brown slightly gravelly sandy loam	ESHWI at 33"
SB-4	33 - 55"	Olive-gray slightly silty fine sandy loam	
SB-5	55 - 60"	Olive-gray slightly silty fine sandy loam	ESHWI at 48"

SOIL BORINGS TAKEN 10/7/98 BY OPEN-PI BACKHOE.

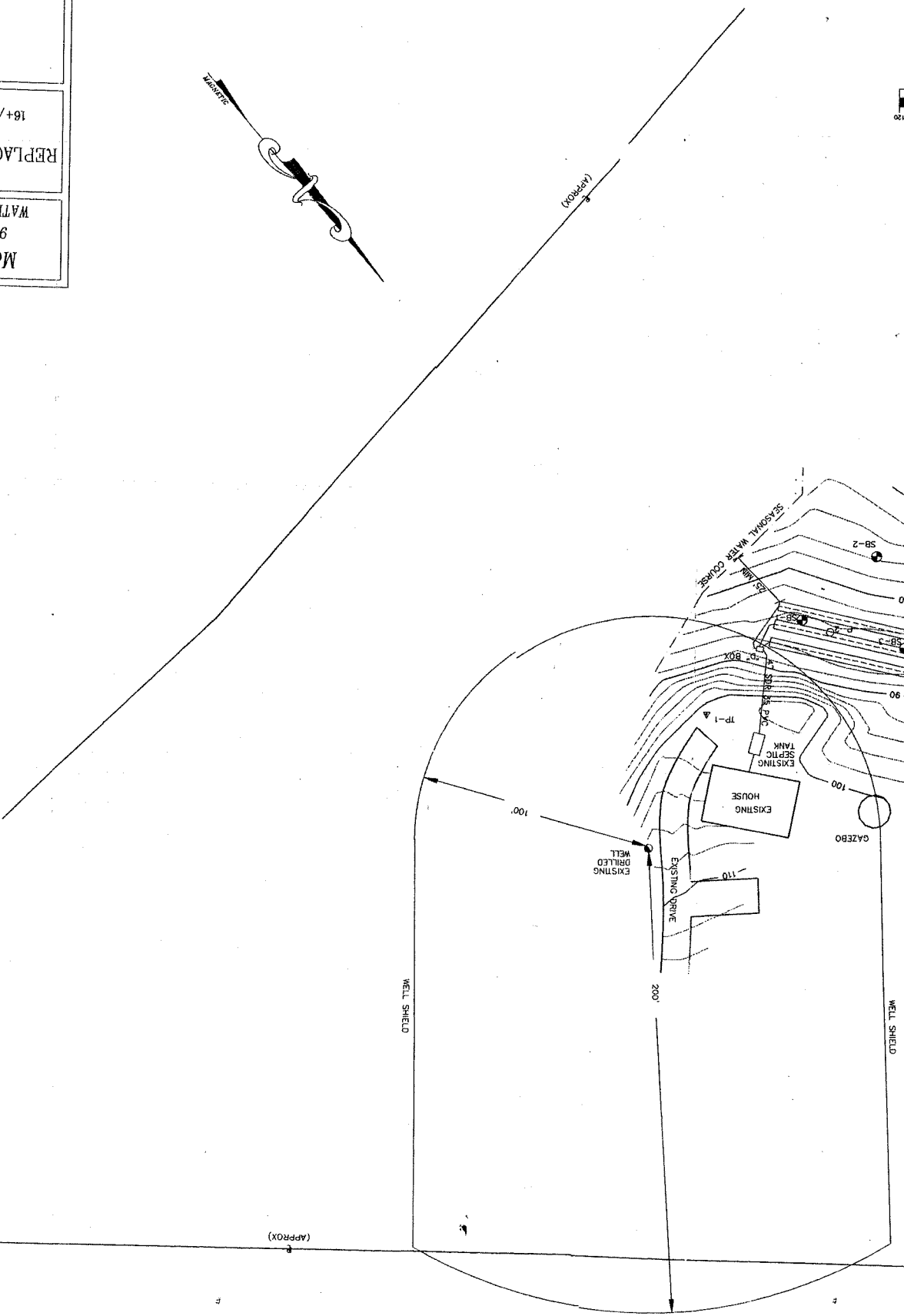
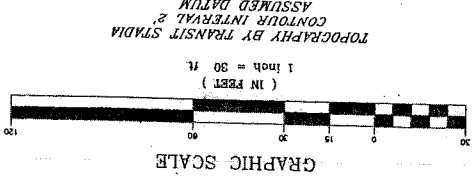
SOILS INFORMATION

Mound sand to meet the following requirements:
25-75% passing the #40 sieve
0-20% passing the #100 sieve
0-5% passing the #200 sieve

TRENCHES TO BE 70" LONG



SEEPAGE TRENCH DETAIL



SEWAGE NOTES

- 1) USE EXISTING 1000 GALLON CONCRETE SEPTIC TANK.
- 2) SLOPE PIPE FROM TANK TO "D" BOX AT 1/4" PER FT. MIN.
- 3) HAVE SEPTIC TANK PUMPED OUT EVERY OTHER YEAR.

DISTRIBUTION BOX

- 1) USE CONCRETE DISTRIBUTION BOX.
- 2) USE 4" SOLID PVC OUT OF BOX, SLOPE SOLID AT 1/4" PER FT. FOR 5' MINIMUM.
- 3) USE GROUT OR RUBBER SEALS TO MAKE INLET AND OUTLETS WATERTIGHT.
- 4) ALL OUTLETS TO BE LEVEL.
- 5) USE WATER TEST TO LEVEL OUTLETS. ALL OUTLETS TO BE AT SAME ELEVATION OR USE "DUAL-A-FLOW" TYPE DEVICE.
- 6) ADD WATER TO BOX TO VERIFY EQUAL FLOW OUT OF PIPES. ADJUST AND RETEST AS REQUIRED.

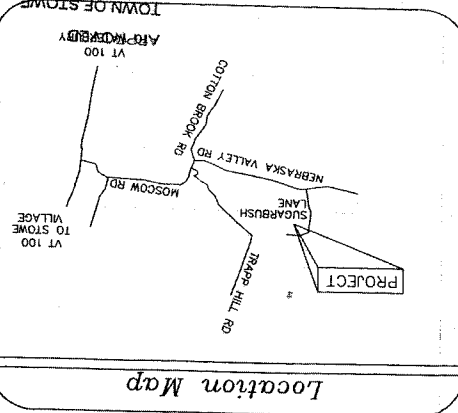
LEACHFIELD

- 1) CONSTRUCT AS PER DETAIL.
- 2) LAY 4" PERFORATED PVC LEVEL.
- 3) GRADE SURFACE OF LEACHFIELD TO DRAIN.
- 4) DIVERT RUNOFF AWAY FROM LEACHFIELD.
- 5) SEE DESIGN & CONSTRUCTION NOTES.

DESIGN & CONSTRUCTION NOTES

- 1) ASSUME 3 BEDROOM HOUSE @ 150 GAL/DAY/BR = 450 GPD.
- 2) USE PERCOLATION RATE 20 MIN./IN. LOAD TRENCHES @ 0.7 GAL/SF/D.
- 3) REQUIRED TRENCH AREA: $\frac{450 \text{ GPD}}{0.7 \text{ GAL/SF/D}} = 643 \text{ SQ. FT.}$
- 4) BOTTOM OF TRENCHES TO BE 18" BELOW GRADE.
- 5) SCARP SIDES & BOTTOM OF TRENCHES PRIOR TO PLACING SAND.
- 6) PLACE 6" OF MOUND SAND IN THE TRENCHES.
- 7) PLACE 4" PERFORATED PVC PIPE IN CENTER OF TRENCH.
- 8) CAP END OF ALL PIPES 2' FROM TRENCH END.
- 9) COVER PIPE WITH MINIMUM 2" OF STONE AND COVER WITH FILTER FABRIC--TOPSOIL, SEED & MULCH ALL DISTURBED AREAS TO ESTABLISH VEGETATION.
- 11) IT IS THE OWNERS/CONTRACTORS RESPONSIBILITY TO CONTACT THE CONSULTANT, MUNICIPALITY AND/OR STATE PRIOR TO COVERING SYSTEM, IF INSPECTIONS ARE REQUIRED.
- 12) ACTUAL AREA: 3 TRENCHES @ 4' x 70' = 840 SF.

Location Map



McCAIN CONSULTING
93 SOUTH MAIN STREET
WATERBURY, VERMONT 05676

PROJECT
REPLACEMENT SEPTIC SYSTEM

16+/- ACRES
SUGARBUSH LANE
STOWE, VT

OWNER
TONY ZEGARSKI
P.O. BOX 56
STOWE, VT 05672

SITE PLAN
WATER
SEWER
TOPOGRAPHY

PROJECT# MC98128

STATE OF VERMONT
REGISTERED PROFESSIONAL ENGINEER
No. 1000

PERMIT NO. H-98-4