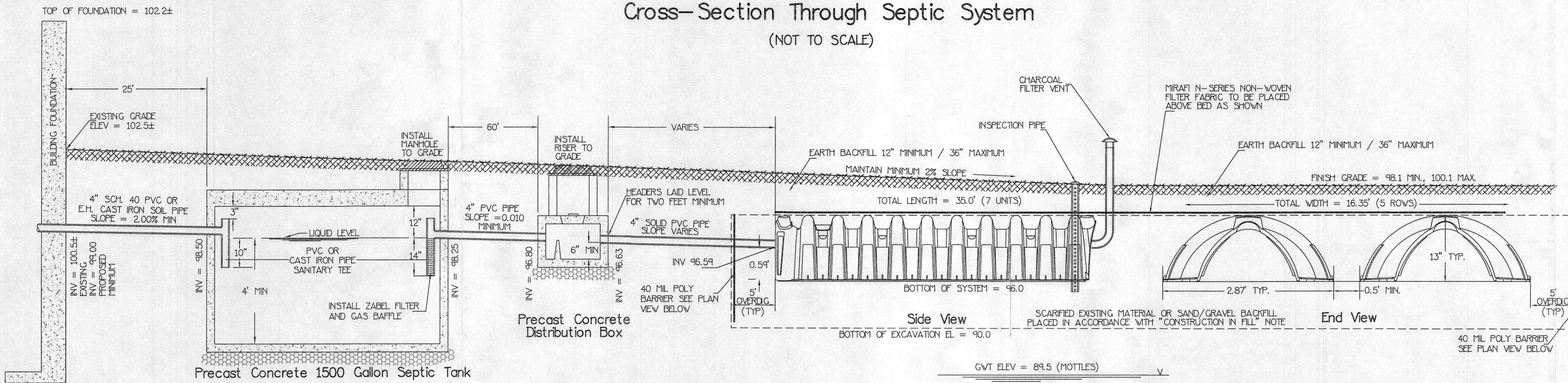


Cross-Section Through Septic System (NOT TO SCALE)



NOTE: EXISTING PLUMBING IN BASEMENT TO BE RELOCATED, AS SHOWN.

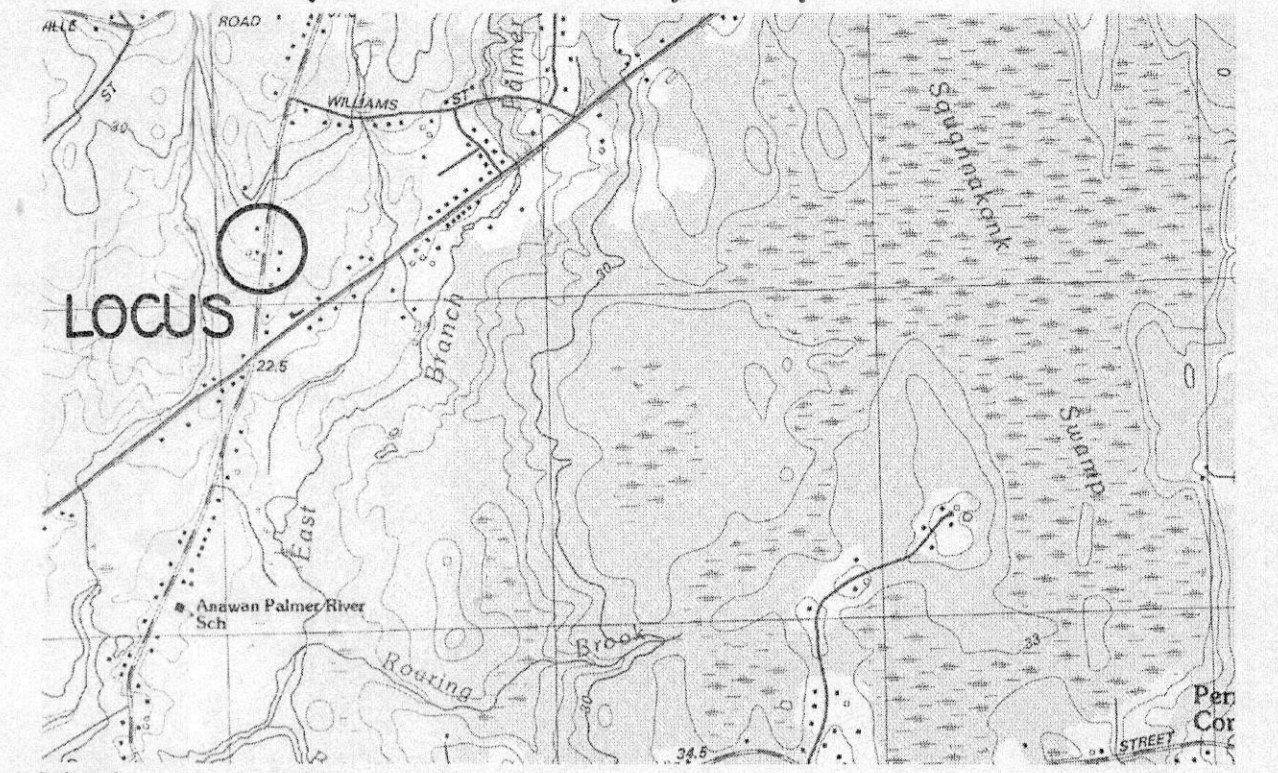
NOTE: EXISTING INVERT ELEVATION WAS DETERMINED FROM BEST AVAILABLE DATA. EXISTING ELEVATIONS TO BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

NOTE: SEPTIC TANK AND D-BOX TO BE INSTALLED ON MINIMUM 6" COMPACTED CRUSHED STONE BASE.

NOTE: DISCHARGE FROM A WATER TREATMENT SYSTEM (SOFTENER) IS NOT ALLOWED INTO THIS SEPTIC SYSTEM.

Typical Open Bottom Leaching Chambers

Location (not to scale) Map



Notes & Specifications

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF 310 CMR 15 (TITLE 5) OF THE COMMONWEALTH OF MASSACHUSETTS AND THOSE OF THE TOWN OF REHOBOTH BOARD OF HEALTH.

THE REQUIRED INSPECTION SCHEDULE DURING THE PROCESS OF CONSTRUCTION SHALL BE ARRANGED BY THE CONTRACTOR WITH THE BOARD OF HEALTH & DESIGN ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

1500 GALLON SEPTIC TANK AND 5 OUTLET DISTRIBUTION BOX SHALL BE STANDARD DUTY DESIGN AS MANUFACTURED BY BRISTOL COUNTY PRECAST, INC. OR APPROVED EQUAL.

OPEN BOTTOM LEACHING CHAMBERS SHALL BE STANDARD DUTY DESIGN BY ADS, INFILTRATOR CULTEC, OR APPROVED EQUAL.

ALL PIPING SHALL BE 4" DIA. SCHD. 40 NSF PVC, WITH ALL JOINTS SEALED WATERTIGHT.

THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL OR OTHER HIGH WATER USE UNITS.

THE PROPOSED SEPTIC SYSTEM IS NOT LOCATED WITHIN THE CONE OF INFLUENCE OF ANY MUNICIPAL WELL NOR ARE THERE ANY PRIVATE WELLS LOCATED WITHIN 100 FEET (RADIALLY) OF THE PROPOSED SYSTEM, UNLESS SHOWN OTHERWISE.

EXCAVATE ALL TOP, SUB AND ANY OTHER SOILS ENCOUNTERED DOWN INTO THE MEDIUM SANDY LOAM LAYER, ELEVATION = 90.0 AND FOR A HORIZONTAL DISTANCE OF 5' ON ALL SIDES OF THE PROPOSED SYSTEM. BACKFILL TO ELEVATION = 97.1 WITH SELECT ON-SITE OR IMPORTED SOIL MATERIAL CONSISTING OF CLEAN GRANULAR SAND, FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES AND MEETING THE SIEVE SIZE REQUIREMENTS OF 310 CMR 15.255(3) & (5) [CONSTRUCTION IN FILL].

ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON ASSUMED DATUM.

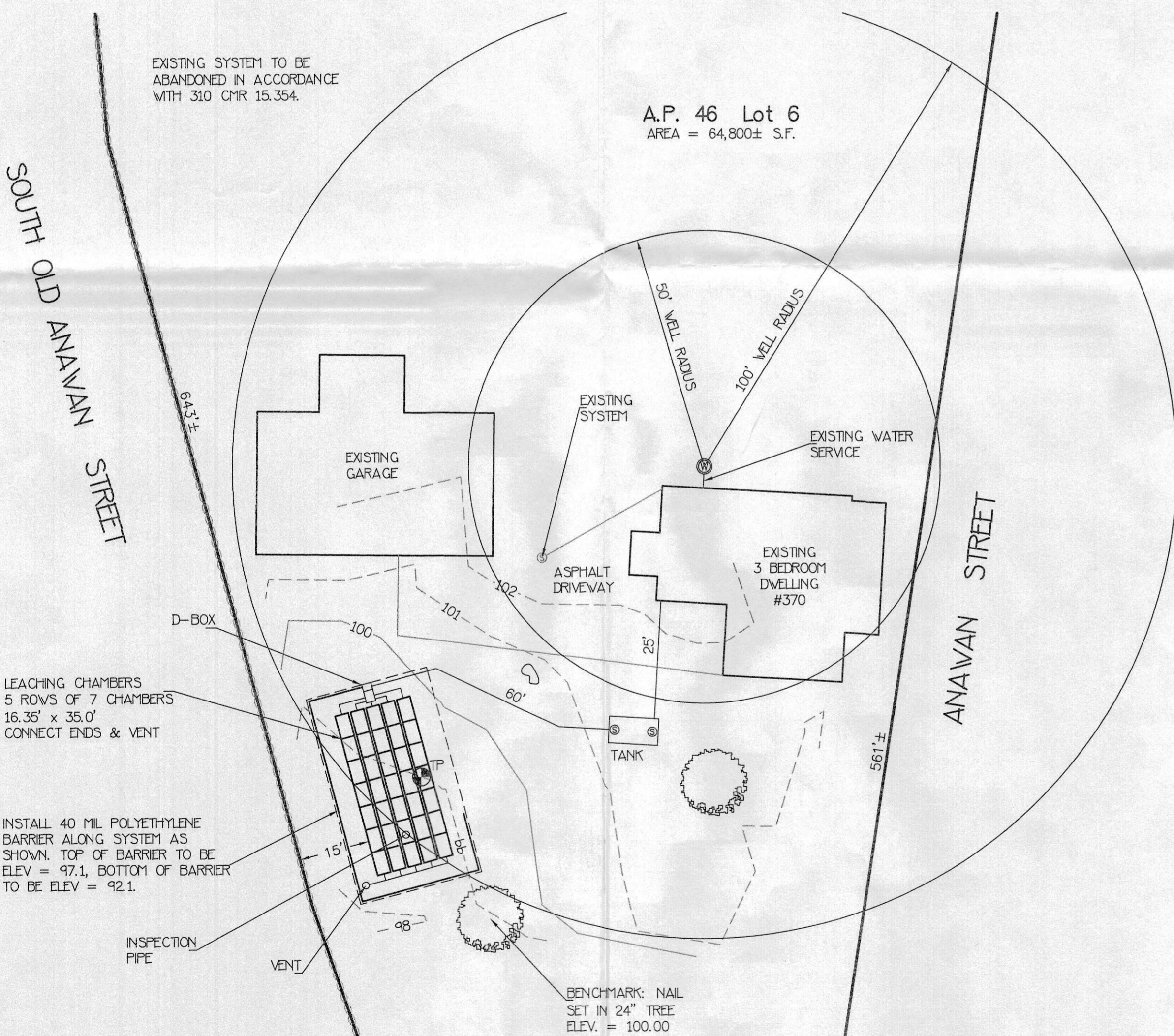
MAGNETIC LOCATION TAPE TO BE PLACED OVER SEPTIC SYSTEM COMPONENTS IN ACCORDANCE WITH 310 CMR 15.221 (12).

SOIL ABSORPTION SYSTEM SHALL HAVE A MINIMUM OF ONE (1) INSPECTION PORT CONSISTING OF A PERFORATED FOUR (4) INCH PIPE PLACED VERTICALLY DOWN INTO THE STONE TO THE NATURALLY OCCURRING SOIL OR SAND FILL BELOW THE STONE. THE PIPE SHALL BE CAPPED WITH A SCREW TYPE CAP AND ACCESSIBLE TO WITHIN THREE (3) INCHES OF FINISH GRADE IN ACCORDANCE WITH 310 CMR 15.240 (13).

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE CONTINUATION OF CONSTRUCTION.

Requested Variances

- REDUCTION IN HORIZONTAL SEPARATION FROM BASE OF LEACHING CHAMBERS TO OWNERS WELL FROM 100' TO 80' IN ACCORDANCE WITH 310 CMR 15.405 (1) (g).



FORM 11-SOIL EVALUATOR FORM
PAGE 2 OF 4

MAP #66 LOT #6
370 ANAVAN STREET
REHOBOTH, MA 02789

Location Address or Lot No. REHOBOTH, MA 02789

On-site Review

Deep Hole Number: 1 Date: 7/28/20 Time: 9:00 AM Weather: SUNNY

Location (Identify on site plan): YES

Land Use: RESIDENTIAL Slope (%): 0-3% Surface Stones: MANY

Vegetation: LAWN

Landform: MORAINES

Position on landscape (sketch on the back):

Distances from:

Open Water Body: >100 feet Drainage Way: >100 feet

Possible Wet Area: >100 feet Property Line: >15 feet

Drinking Water Well: >75 feet Other: N/A

DEEP OBSERVATION HOLE LOG*					
Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0"-12"	A	LOAM	10YR4	NONE	FRIABLE
12"-36"	B	SANDY LOAM	10YR4	NONE	FRIABLE
36"-114"	C	SANDY LOAM	2.5Y4	NONE	MEDIUM WITH BOULDERS ON TOP & STONES AT 8.5'

MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic): GLACIAL TILL Depth to Bedrock: N/A

Depth to Groundwater: Standing Water in the Hole: NONE

Weeping from Pit Face: NONE

Estimated Seasonal High Ground Water: 114" (BOTTOM OF HOLE)

FORM 12-PERCOLATION TEST
PAGE 3 OF 4

MAP #66 LOT #6
370 ANAVAN STREET
REHOBOTH, MA 02789

Location Address or Lot No. REHOBOTH, MA 02789

COMMONWEALTH OF MASSACHUSETTS
REHOBOTH, MASSACHUSETTS

Percolation Test*

Date: JULY 28, 2020 Time: 9:00 AM

Observation Hole #	1
Depth of Perc	56" TO BOTTOM
Start Pre-soak	10:42
End Pre-soak	10:57
Time at 12"	10:57
Time at 9"	11:16
Time at 6"	11:47
Time (9"-6")	31 MINS
Rate Min./Inch	11 MIN/INCH

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed Site Failed REPAIR

Performed By: ROBERT M. BERUBE, P.E.

Witnessed By: KARL DROWN, AGENT

Comments:

Design Data

Average Daily Sewage Flow (gallons)
EXISTING 3 BEDROOM DWELLING @ 110 GPD PER BEDROOM = 330 GPD

Septic Tank Sizing (gallons)

200% AVERAGE DAILY FLOW = 2 (330) = 660 GALLONS
3 BEDROOM HOME REQUIRES 1500 GALLON TANK (MINIMUM)

Leaching Area Calculation

SOIL CLASS: CLASS II (SANDY LOAM) PERC RATE IN TP WAS 11 MFI
DESIGN FOR 15 MFI PER TITLE 5

Required Minimum Leaching Area:

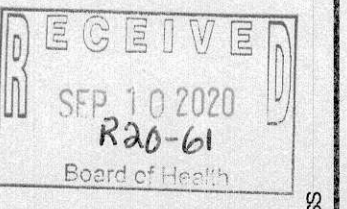
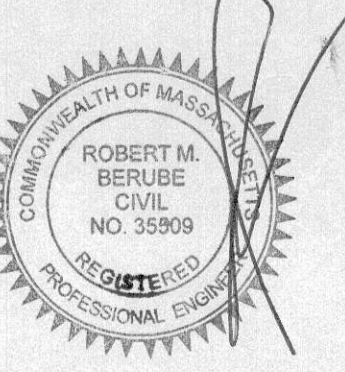
ADF = 330 GPD / 0.56 GPD / SF = 590 SF MINIMUM x 1.25% BOH REGS = 738 SF MIN.
TRY: OPEN BOTTOM LEACHING CHAMBERS
738 SF / 4.80 SF/LF OF CHAMBER = 154 LF OF CHAMBERS
5 ROWS OF 7 CHAMBERS @ 5.0 LF EACH = 175 LF OF CHAMBERS
DESIGN = 175 LF > REQUIRED = 154 LF OK

Septic System Repair Plan

A.P. 46 Lot 6
370 Anavan Street, Rehoboth, Massachusetts

PREPARED FOR
Brian Phillips
6 Benefit Street, Attleboro, Massachusetts 02703

PREPARED BY
Pro-Line Engineering, Inc.
Civil/Environmental Engineering & Land Surveying
190 GARDNERS NECK ROAD, SWANSEA, MA 02777
PHONE: 508/672-3137 FAX: 508/672-3307
EMAIL: PROLINEENG@COMCAST.NET



Date: September 3, 2020 Scale: 1" = 20'

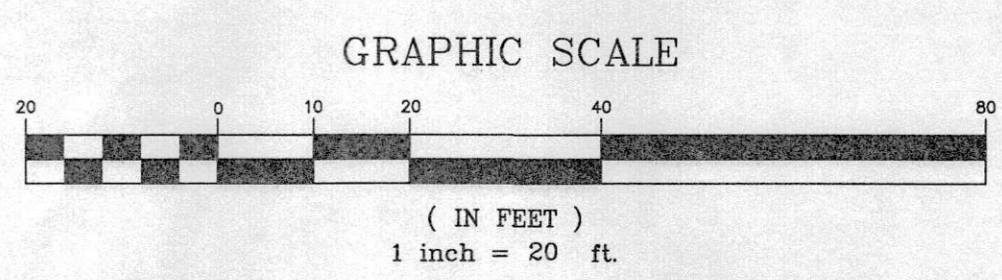
Legend

SOIL TEST PIT

EXISTING CONTOUR

PROPOSED CONTOUR

STONE WALL



Soil Report & Test Data