



### Notes

- This plan is to be used only for the approval and installation of a sewage disposal system and is not to be used for any other purpose.
- All construction and components shall conform to Massachusetts State Environmental Code TITLE V and Local Board of Health Requirements.
- This design does not warrant the location of underground pipes, wires, utilities or other underground structures. The installer shall be responsible for locating and relocating these objects as necessary.
- No garbage grinder is allowed with this system.
- Any portion of this system subject to vehicular traffic shall be capable of H-20 loading.
- An observation pipe shall be placed as shown and capped at grade so as to allow monitoring of liquid level in the leaching system. Place re-rod flush at each to aid in relocating with metal detector.
- All access covers are to weigh at least 150 lbs. or screwed down.
- Leaching Chambers shall consist of Infiltrator high capacity, ADS high capacity biofilter or an approved equivalent.
- Any clean sand fill required by this design is to have less than 4% passing the No. 100 sieve.
- No wells could be found within 150' of the proposed leaching facility
- The engineer (AND the local approving authority) is to inspect and approve the installation and placement of all septic components before final backfilling.**
- A letter certifying satisfactory construction of this system is to be provided to the owner and the Board of Health by the Engineer.
- See Presby Enviroseptic manual for installation guidelines.

Soil evaluator: Reid G. Silva, P.E.  
Witnessed By: Anna McCaffrey

**SOIL DATA**

Deep Observation Hole 1. Date: December 12, 2022 Surface elevation = 113.0	Deep Observation Hole 2. Date: December 12, 2022 Surface elevation = 111.5
Depth Horizon Texture	Depth Horizon Texture
0"-10" A Sandy loam	0"-8" A Sandy loam
10"-36" B Loamy sand	8"-40" B Loamy sand
36"-60" C1 Loamy sand	40"-60" C1 Loamy sand
60"-120" C2 Medium sand	60"-108" C2 Medium sand

Perc. rate < 5 mpi. @60"  
No groundwater found at Elev. = 93.0

Perc. rate < 5 mpi. @60"  
No groundwater found at Elev. = 102.5

### Design Criteria

Design Hydraulic Loading:  
8 Bedrooms x 110 GPD/Bedroom = 880 GPD

Septic tank capacity:  
Required: 880 GPD x 200% = 1760 Gal. minimum  
Septic tanks provided = TWO (2) 1500 Gal. (Main and Garage)

Leaching Capacity Provided:  
GEO-flow Leaching Bed "Basic Serial System"  
400 linear ft. of Enviro-Septic Pipe  
Area of GEO-flow Bed = 20'x52' = 1040 sq.ft.  
1040 x 1.67 x 0.53 = 920 GPD  
Leaching Capacity Limited by Total Pipe Length= 400 ft. (880 GPD)

### Proposed Septic System on Land in Chilmark, MASS.

Designed for: Bruce McKinlay  
Street Address: #18 Henry Hough Lane  
Assessor No.: 25-22  
Lot Area: 3.02 AC

Designed By: Meegan Lancaster  
Checked By: R.G.S.  
Date: May 15, 2023  
Revised: October 27, 2023 - relocate GH tank

REID G. SILVA  
CIVIL  
No. 45205  
REGISTERED PROFESSIONAL ENGINEER

October 31, 2023

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LEGEND

----- PROPOSED CONTOUR  
----- EXISTING CONTOUR  
+100.7 ----- EXISTING SPOT ELEVATION  
--- W --- WATER SERVICE LINE  
● TEST HOLE LOCATION