



- ### 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 biodiffuser 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, and no leaching facilities could be found within 150' of the proposed well.
 - 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.

Design Criteria

Design Hydraulic Loading:
4 Bedrooms x 110 GPD/Bedroom = 440 GPD

Septic tank capacity:
Required: 440 GPD x 200% = 880 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided:
H-20 High Capacity Leaching Chamber Bed
32 Leaching Chamber Units
32 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 944 sq.ft.
944 sq.ft. x 0.74 GPD/sq.ft. = 698 GPD

* Per modified certification for general use High capacity leaching chamber units are allowed 4.7 sq.ft. leaching area per lineal ft. in bed configuration.

SOIL DATA

Soil evaluator: Reid G. Silva, P.E.
Witnessed By: Marina Lent

Depth	Horizon	Texture	Surface elevation
0"-8"	A	Sandy Loam	80.2
8"-32"	B	Sandy Loam	
32"-60"	C1	Sandy Loam	
60"-108"	C2	Medium Coarse Sand	
108"-120"	C3	Fine Sand	

Perc. rate < 5 mpi. @ 60"
No groundwater found at 120" (Elev. = 70.2)

Depth	Horizon	Texture	Surface elevation
0"-10"	A	Sandy Loam	81.8
10"-34"	B	Loamy sand	
34"-98"	C1	Loamy sand	
98"-138"	C2	Medium Coarse Sand	

Perc. rate < 5 mpi. @ 96"
No groundwater found at 138" (Elev. = 70.3)

Proposed Septic System on Land in Chilmark, Mass.

Designed for: GEM Realty Trust
Street Address: #7 North Abel's Hill Road
Assessor No.: Part of 24-161
Lot Area: ±3.36 Acres
Designed By: Cody Coutinho
Checked By: R.G.S.
Date: August 24, 2023
Revised:

Reid G. Silva
August 29, 2023

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