



- ### 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 200' of the proposed leaching facility and no leaching facility could be found within 300' of the proposed leaching facility unless otherwise shown.
 - 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.
 - This lot lies completely within the Coastal District.

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

Deep Observation Hole 1.
Date: December 22, 2022

Surface elevation = 52.0

Depth	Horizon	Texture
0"-10"	A	Sandy Loam
10"-44"	B	Loamy Sand
44"-120"	C1	Medium/Fine Sand with Boulders (20%)
120"-132"	C2	Loamy Sand with Gravel

Perc. rate < 5 mpi. @ 44"
No groundwater found at 132" (Elev. = 41.0)

Design Criteria

Design Hydraulic Loading:
3 Bedrooms x 110 GPD/Bedroom = 330GPD

Septic tank capacity:
Required: 330 GPD x 200% = 660 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided: 1
H-20 High Capacity Leaching Chamber Bed
18 Leaching Chamber Units
18 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 531 sq.ft.
531sq.ft. x 0.74 GPD/sq.ft. = 392 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.

Proposed Septic System Upgrade on Land in Chilmark, Mass.

Designed for: Miranda Edison
Street Address: #11 Pitch Pine Lane
Assessor No.: 21-27
Lot Area: ±32,024 SF
Designed By: Cody Coutinho
Checked By: R.G.S.
Date: January 6, 2023
Revised:

January 10, 2023

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