



- Notes
1. 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.
 2. All construction and components shall conform to Massachusetts State Environmental Code TITLE V and Local Board of Health Requirements.
 3. 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.
 4. No garbage grinder is allowed with this system.
 5. Any portion of this system subject to vehicular traffic shall be capable of H-20 loading.
 6. 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.
 7. All access covers are to weigh at least 150 lbs. or screwed down.
 8. Leaching Chambers shall consist of Infiltrator high capacity, ADS high capacity biodiffuser or an approved equivalent.
 9. Any clean sand fill required by this design is to have less than 4% passing the No. 100 sieve.
 10. No wells could be found within 150' of the proposed leaching facility unless otherwise shown.
 11. The engineer (AND the local approving authority) is to inspect and approve the installation and placement of all septic components before final backfilling.
 12. A letter certifying satisfactory construction of this system is to be provided to the owner and the Board of Health by the Engineer.
 13. Installation of MicroFAST tank shall comply with all manufacture specifications

Soil evaluator: Reid G. Silva, P.E. Witnessed By: Anna McCaffrey	SOIL DATA
Deep Observation Hole 1. Date: March 8, 2024 Surface elevation = 97.0	
Depth Horizon Texture 0"-10" A Sandy loam 10"-44" B Loamy sand w/ boulders 44"-120" C Loamy F/C sand	
Perc. rate < 5 mpi. @ 44" No groundwater found at Elev. = 87.0	

Design Criteria

Design Hydraulic Loading:
4 Bedrooms x 110 GPD/Bedroom = 440 GPD
*705 SF Studio = 45 GPD
Total = 485 GPD

Septic tank capacity:
Required: 485 GPD x 200% = 970 Gal. minimum
Septic tank provided = 1000 Gal. (Existing)

Leaching Capacity Provided:
H-20 High Capacity Leaching Chamber Bed
24 Leaching Chamber Units
24 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 708 sq.ft.
708 sq.ft. x 0.74 GPD/sq.ft. = 523 GPD

* Studio Flow: 5 GPD/100 SF of area + 10 GPD per occupant.

Proposed Septic System UPGRADE
on Land in CHILMARK, MASS.

Designed for: HEATHER SOMMERS

Street Address: #76 STATE ROAD

Assessor No.: 30-21

Lot Area: ±1.0 Acres

Designed By: Michael Tomkins

Checked By: R.G.S.

Date: March 13, 2024

Revised: April 18, 2024 reconfigure leaching field.

REID G. SILVA
CIVIL
No. 45205
REGISTERED
PROFESSIONAL ENGINEER

04/29/2024

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