



- ### 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 facilities could be found within 300' of the proposed leaching facility.
 - The engineer is to stake the leaching field prior to any excavation.**
 - The engineer is to inspect and approve the leaching excavation prior to the placement of any gravel, sand or components.**
 - 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.
 - Lot is located within the Lagoon Pond DCPC and the Coastal District

Design Criteria

Design Hydraulic Loading:
9 Bedrooms x 110 GPD/Bedroom = 990 GPD

Septic tank capacity:
Required: 990 GPD x 200% = 1980 Gal. minimum
Septic tank provided = 1500 Gal. (Two)

Leaching Capacity Provided:
H-20 High Capacity Leaching Chamber Bed
48 Leaching Chamber Units
48 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 1416 sq.ft.
1416 sq.ft. x 0.74 GPD/sq.ft. = 1047 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: Chris Alley
Witnessed By: Shirley Fauteux

Deep Observation Hole 1.	Deep Observation Hole 2.				
Date: October 30, 2009	Date: October 30, 2009				
Surface elevation = 34.0	Surface elevation = 34.0				
Depth	Horizon	Texture	Depth	Horizon	Texture
0"-7"	A	Loamy Fine - Medium Sand	0"-7"	A	Loamy Fine - Medium Sand
7"-32"	B	Loamy Sand	7"-30"	B	Loamy Sand to Sandy Loam
32"-120"	C	Loamy Sand and Sand with Gravel	30"-65"	C1	Sandy Loam and Loamy Sand with Gravel and Cobbles
			65"-126"	C2	Sand
Perc. rate < 5 mpi. @ 32"			Perc. rate < 5 mpi. @ 65"		
No groundwater found at 120" (Elev. = 24.0)			No groundwater found at 126" (Elev. = 23.5)		

Estimated depth to groundwater = 32'
(as per Groundwater Hydrology of Martha's Vineyard, Mass., Delaney, 1980)

Proposed Septic System on Land in Oak Bluffs, Mass.

Designed for: Sugarloaf LLC

Street Address: 151 Barnes Road

Assessor No.: 15-2

Lot Area: ±4.59 Acres

Designed By: Cody Coutinho

Checked By: RGS

Date: April 27, 2021

Revised:

REID G. SILVA
CIVIL
No. 45205
REGISTERED PROFESSIONAL ENGINEER

Reid G. Silva
May 5, 2021

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