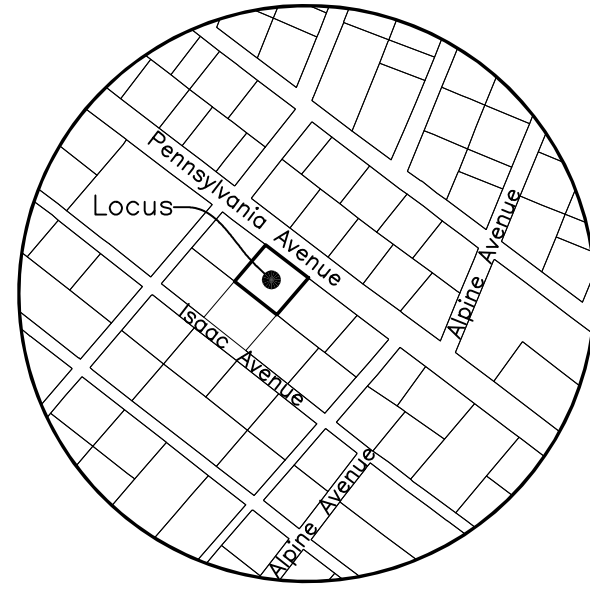
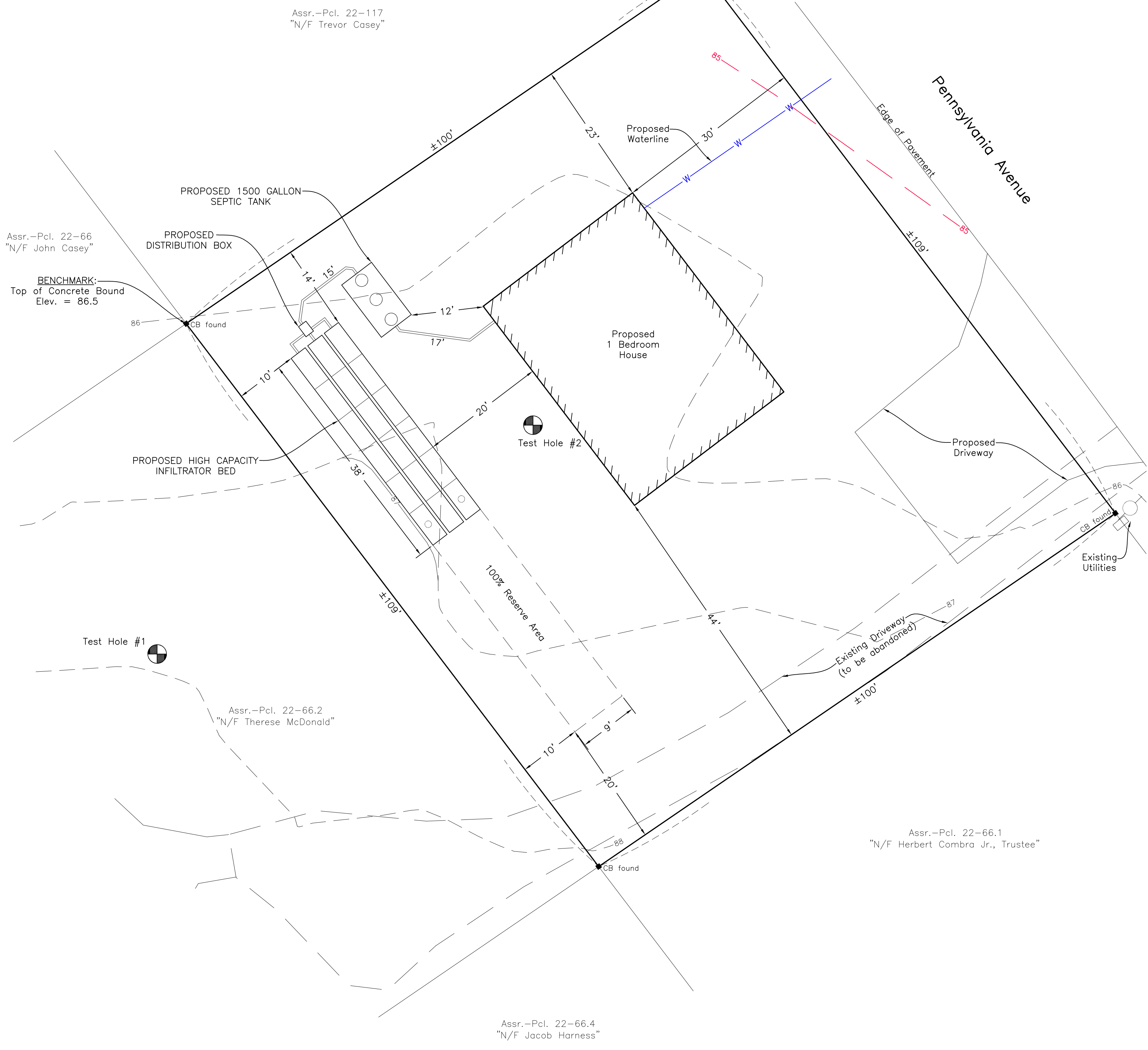


Plan

Scale: 1 in. = 10 ft.
Datum: ±U.S.G.S.



LOCUS MAP
Scale: 1" = 400'



Assr.-Pcl. 22-117
"N/F Trevor Coasey"

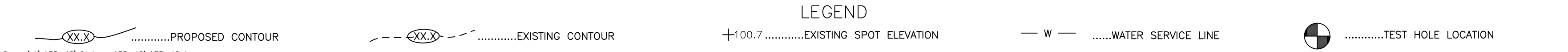
Assr.-Pcl. 22-66
"N/F John Coasey"

BENCHMARK:
Top of Concrete Bound
Elev. = 86.5

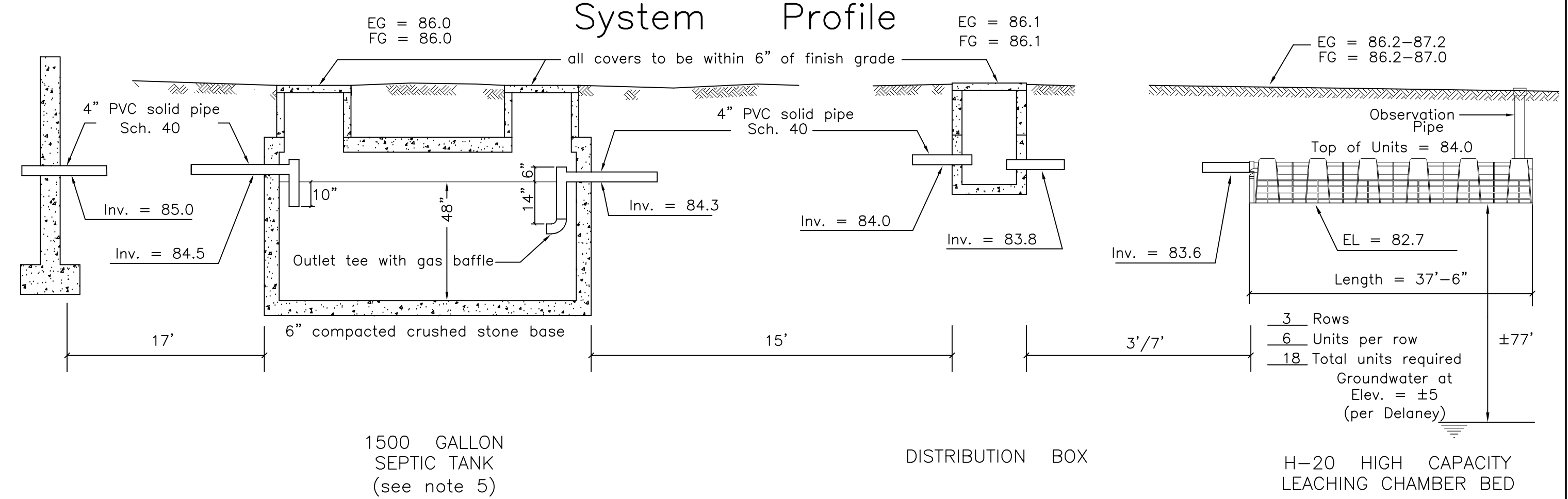
Assr.-Pcl. 22-66.2
"N/F Therese McDonald"

Assr.-Pcl. 22-66.4
"N/F Jacob Harness"

Assr.-Pcl. 22-66.1
"N/F Herbert Combra Jr., Trustee"



System Profile

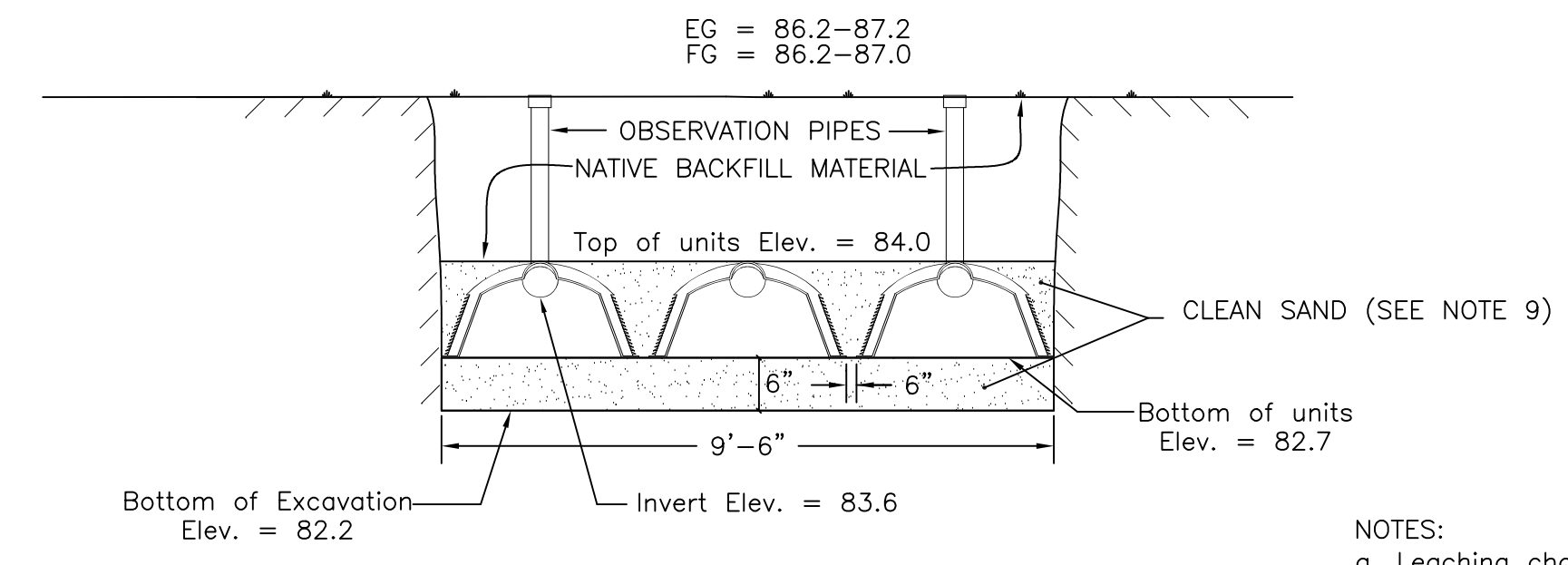


1500 GALLON SEPTIC TANK (see note 5)

DISTRIBUTION BOX

H-20 HIGH CAPACITY LEACHING CHAMBER BED

System Cross Section



NOTES:
a. Leaching chamber rows shall be spaced 6" apart.
b. Bottom of excavation shall extend into the "C" soil horizon at least 6"

To avoid compaction, no machinery is allowed within three vertical feet of bottom of excavation without the specific approval of the design engineer. This leaching facility is not designed for H-20 loads and shall not be driven upon, even though H-20 leaching chambers are specified.

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 100' 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.
- Locus lies within Zone II of a municipal well.

Design Criteria

Design Hydraulic Loading:
1 Bedrooms x 110 GPD/Bedroom = 110 GPD

Septic tank capacity:
Required: 110 GPD x 200% = 220 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided:
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.
531 sq.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 on Land in OAK BLUFFS, MASS.

Designed for: THERESE MCDONALD
Street Address: #92 PENNSYLVANIA AVENUE
Assessor No.: 22-67
Lot Area: ±10,904 Sq.Ft.
Designed By: Michael Tomkins
Checked By: R.G.S.
Date: April 2, 2024
Revised:

SOIL DATA	
Soil evaluator: Reid G. Silva, P.E. Witnessed By: Garrett Albiston	
Deep Observation Hole 1. Date: March 20, 2024 Surface elevation = 87.9 Depth Horizon Texture 0"-8" A Sandy loam 8"-36" B Loamy sand 36"-120" C medium Sand	Deep Observation Hole 2. Date: March 20, 2024 Surface elevation = 86.6 Depth Horizon Texture 0"-8" A Sandy loam 8"-40" B Loamy sand 40"-120" C medium Sand
Perc. rate < 5 mpi. @ 36" No groundwater found at Elev. = 77.9	Perc. rate < 5 mpi. @ 40" No groundwater found at Elev. = 76.6
Estimated depth to groundwater = 83' below test hole #1 Elevation ±5 (as per Groundwater Hydrology of Martha's Vineyard, Mass., Delaney, 1980)	

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VLSE.net

Job No. 135-54