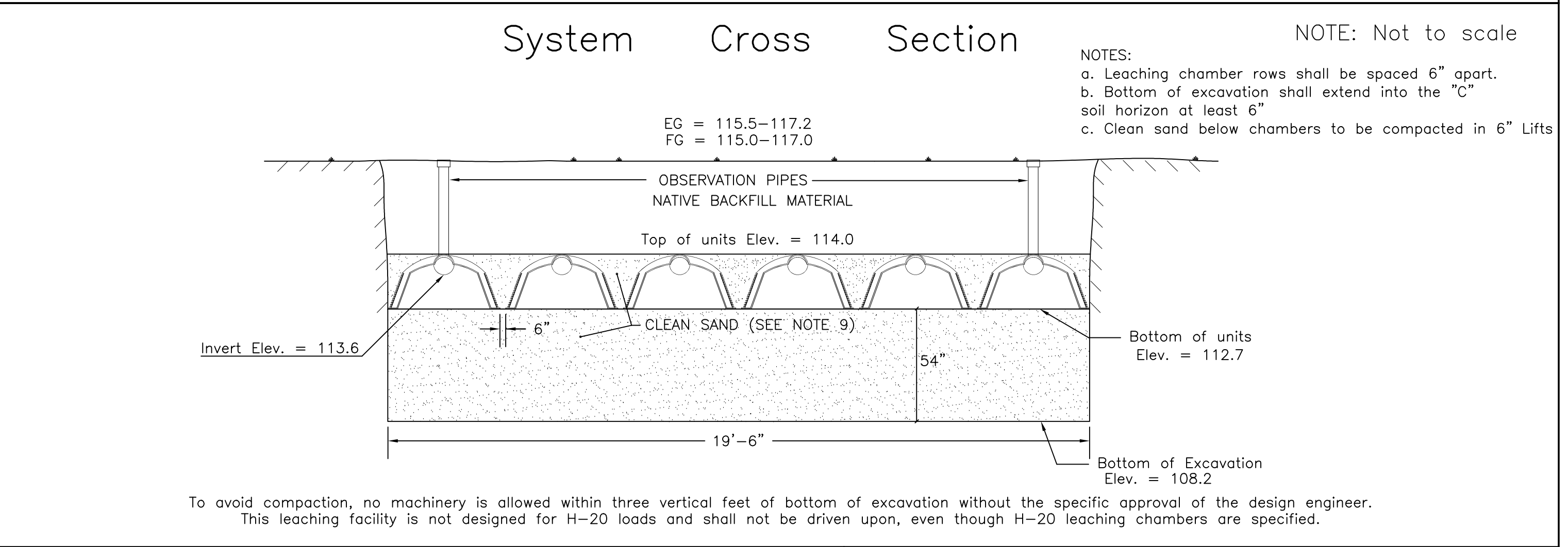
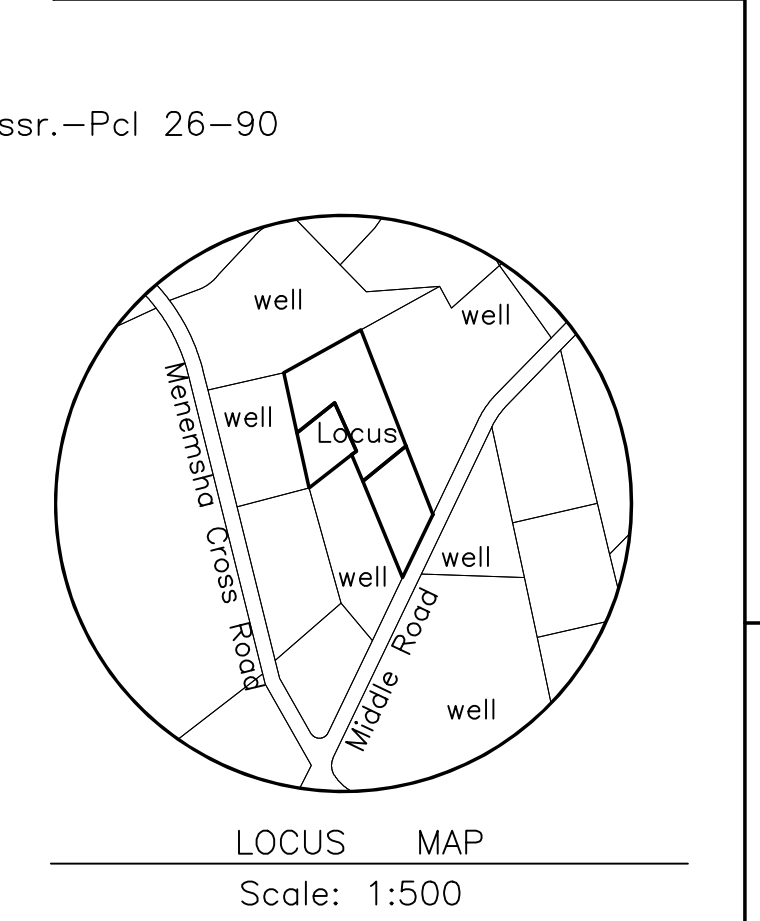


#### ELEVATION TABLE

	Inlet Invert Elev.	Outlet Invert Elev.
Tank #1	110.2	110.0
Tank #2	107.8	107.6
Tank #3	110.2	110.0



- ### 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.
  - No 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.
  - All 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 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.
  - MicroFAST tank installation shall conform to all construction requirements and specification of Biomicrobics, Inc. Installation contractor is responsible for obtaining and reviewing all pertinent installation manuals & instructions from Biomicrobics, Inc.
  - Backwash from water filtration system are not allowed with this system and shall be discharged into a separate leaching facility.
  - Schedule 80 PVC pipe shall be used when sewer lines are present below driveway or parking areas.

#### SOIL DATA

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

Deep Observation Hole 1			Deep Observation Hole 2		
Depth	Horizon	Texture	Depth	Horizon	Texture
Date: October 5, 2018			Date: October 5, 2018		
Surface elevation = 117.0			Surface elevation = 114.5		
0"-10"	A	Sandy loam	0"-10"	A	Sandy loam
10"-36"	B	Loamy sand	10"-38"	B	Loamy sand
36"-60"	C1	Loamy sand dense	38"-58"	C1	Loamy sand dense
60"-80"	C2	fine Sand (white)	58"-80"	C2	fine Sand (white)
80"-120"	C3	coarse Sand (white)	80"-120"	C3	coarse Sand (white)

Perc. rate < 5 mpi. @ 80"  
No groundwater found at Elev. = 107.0

Perc. rate < 5 mpi. @ 80"  
No groundwater found at Elev. = 104.5

### Design Criteria

Design Hydraulic Loading:  
6 Bedrooms x 110 GPD/Bedroom = 660 GPD (Residence #1)  
6 Bedrooms x 110 GPD/Bedroom = 660 GPD (Residence #2)  
558 SF Office x 75 GPD/1K SF = 42 GPD  
100 Seat Theatre x 3 GPD/Seat = 300 GPD (Studio & Theatre)  
716 SF Office x 75 GPD/1K SF = 54 GPD  
22 Person Rehearsal Studio x 3 GPD = 66 GPD  
Total = 1782 GPD

Septic Tank Capacity:  
Required: 660 GPD x 200% = 1320 Gal. minimum (Residence #1)  
660 GPD x 200% = 1320 Gal. minimum (Residence #2)  
462 GPD x 200% = 924Gal. minimum (Studio & Theatre)  
Septic tanks provided = 1500 Gal. (Three)

Leaching Capacity Provided:  
H-20 High Capacity Leaching Chamber Bed  
84 Leaching Chamber Units  
84 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 2478 sq.ft.  
2478 sq.ft. x 0.74 GPD/sq.ft. = 1833 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 Chilmark, Mass.

Designed for: THE YARD

Street Address: 1, 6 & 7 THE YARD

Assessor No.: 26-91, 92, 95

Lot Area: ±2.49 Acres

Designed By: Cody Coutinho

Checked By: R.G.S.

Date: October 27, 2023

Revised: 1/9/24 - Proposed Irrigation Well

VINEYARD LAND SURVEYING & ENGINEERING

12 Cournoyer Road  
P.O. Box 421  
West Tisbury, MA 02575  
P 508-693-3774 F 508-629-0440  
VLSE.net

Job No. 1573