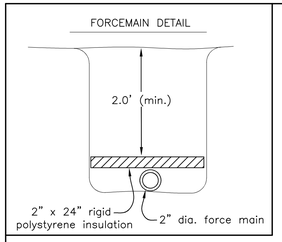
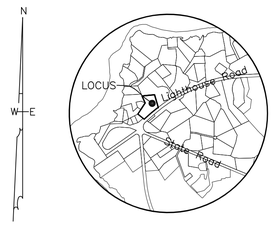


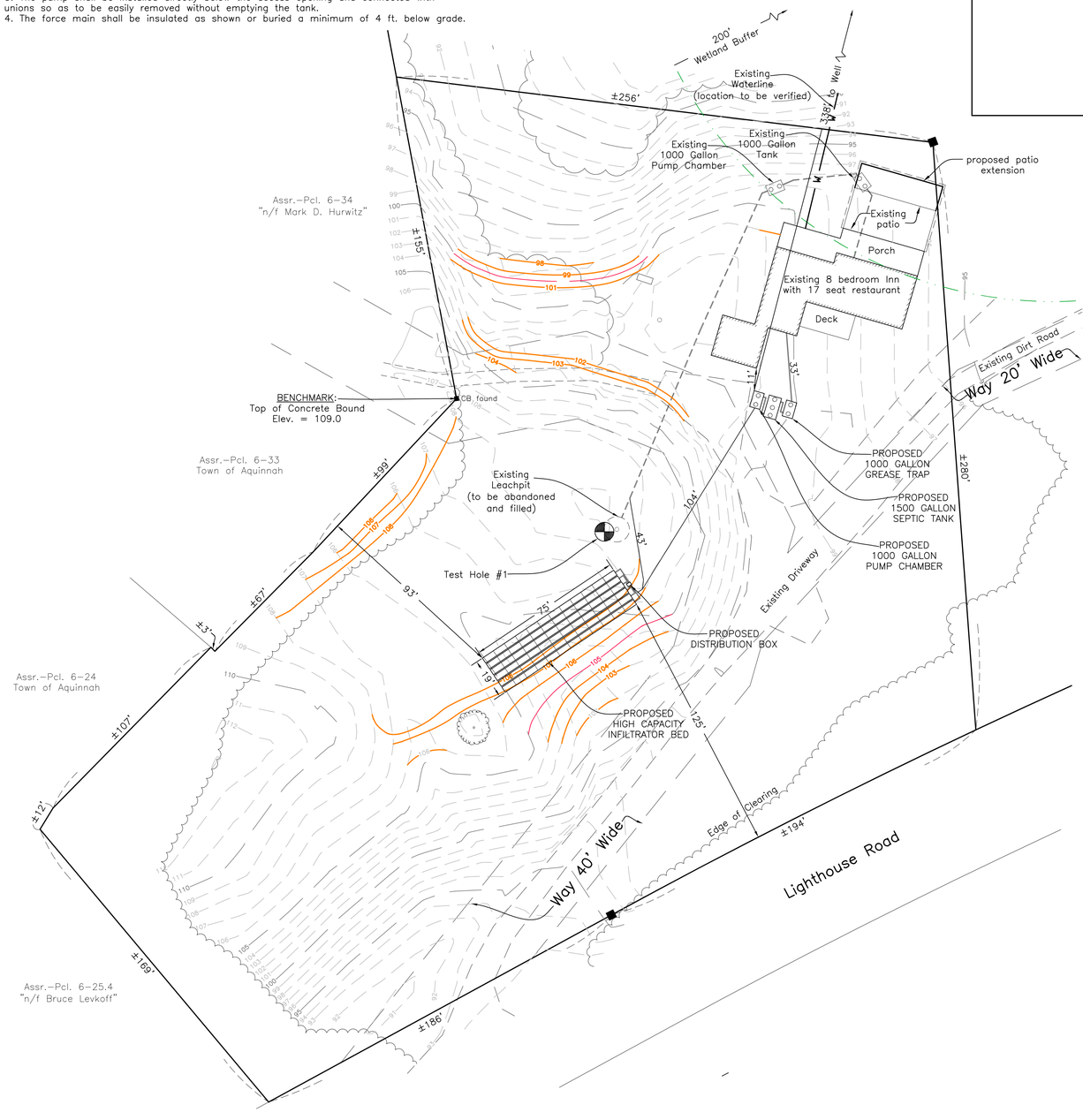
PUMP NOTES
1. An alarm system shall be installed on a separate electrical circuit.
2. The pump shall be capable of pumping 10 gallons per minute at a head of 50 feet.
3. The pump shall be installed directly below the access opening and connected with unions so as to be easily removed without emptying the tank.
4. The force main shall be insulated as shown or buried a minimum of 4 ft. below grade.

Plan

Scale: 1 in. = 30 ft.
Datum: U.S.G.S.



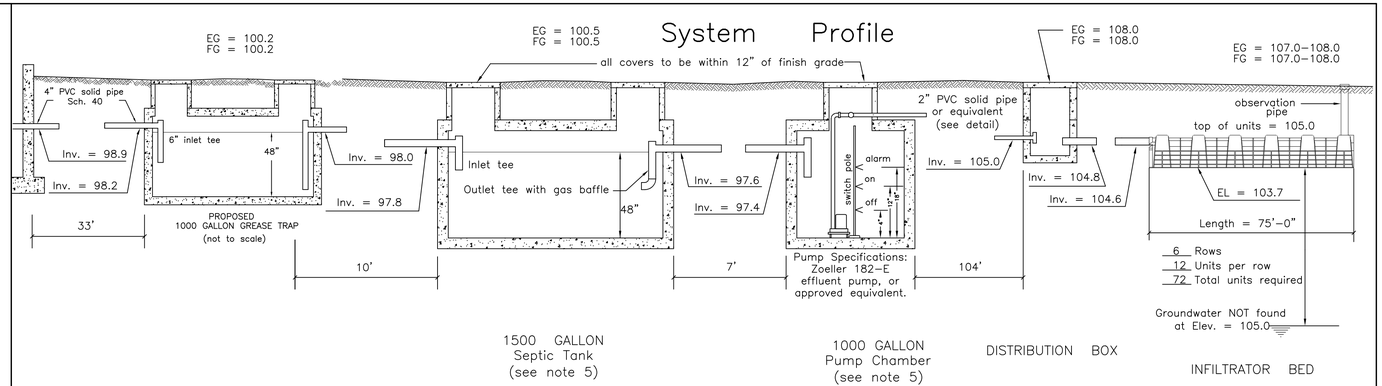
LOCUS MAP
Scale: 1" = 1500'



LEGEND
XX.X .....PROPOSED CONTOUR
XXX.X .....EXISTING CONTOUR
+100.7 .....EXISTING SPOT ELEVATION
— W — .....WATER SERVICE LINE
.....TEST HOLE LOCATION

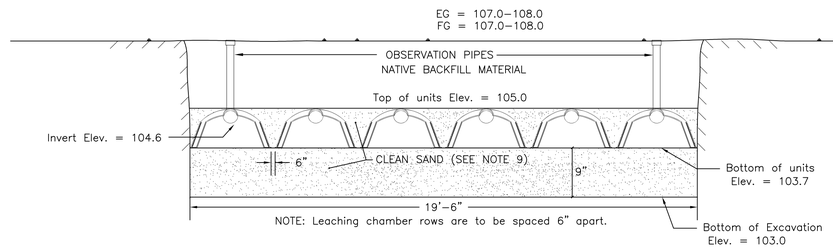
S:\Survey\2\200-3\Carlson 200-3\200-3.dwg

System Profile



System Cross Section

NOTE: Not to scale



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

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 biodiffusor 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, and no leaching facilities could be found within 150' of the proposed well.

11. The engineer is to observe soils within the leaching area prior to the installation of septic components.

12. The engineer (AND the local approving authority) is to inspect and approve the installation and placement of all septic components before final backfilling.

13. A letter certifying satisfactory construction of this system is to be provided to the owner and the Board of Health by the Engineer.

Design Criteria

Design Hydraulic Loading for Leach Field Sizing Only:
17 seat restaurant x 35 GPD/seat = 595 GPD
8 Bedrooms x 110 GPD/Bedroom = 880 GPD
Combined Flow (restaurant and bedrooms) = 1475 GPD

Septic tank capacity for Restaurant and Grease Flow Only:
Required: 595 GPD x 200% = 1190 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided:
H–20 High Capacity Leaching Chamber Bed
72 Leaching Chamber Units
72 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 2124 sq.ft.
2124 sq.ft. x 0.74 GPD/sq.ft. = 1571 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 evaluator: Kent A. Healey, P.E. SOIL DATA

Deep Observation Hole 1.
Date: December 13, 1988
Surface elevation = 106.0

Depth	Horizon	Texture
0"–54"		Silty Sand w/ Gravel
54"–222"		Fine Med. Sand
222"–228"		Mottled Silt

Perc. rate < 1 mpi. @ 54"

Proposed Septic System Upgrade on Land in Aquinnah, MASS.

Designed for: Hugh C. Taylor, et. al.
Street Address: #18 Lighthouse Road
Assessor No.: 6–32
Lot Area: ±2.8 AC
Designed By: Meegan Lancaster
Checked By: R.G.S.
Date: September 27, 2022
Revised:

VINEYARD LAND SURVEYING & ENGINEERING INC
12 Cournoyer Road
P.O. Box 421
West Tisbury, MA 02575
P 508-693-3774 F 508-629-0440
VLSE.net

Job No. 200–3