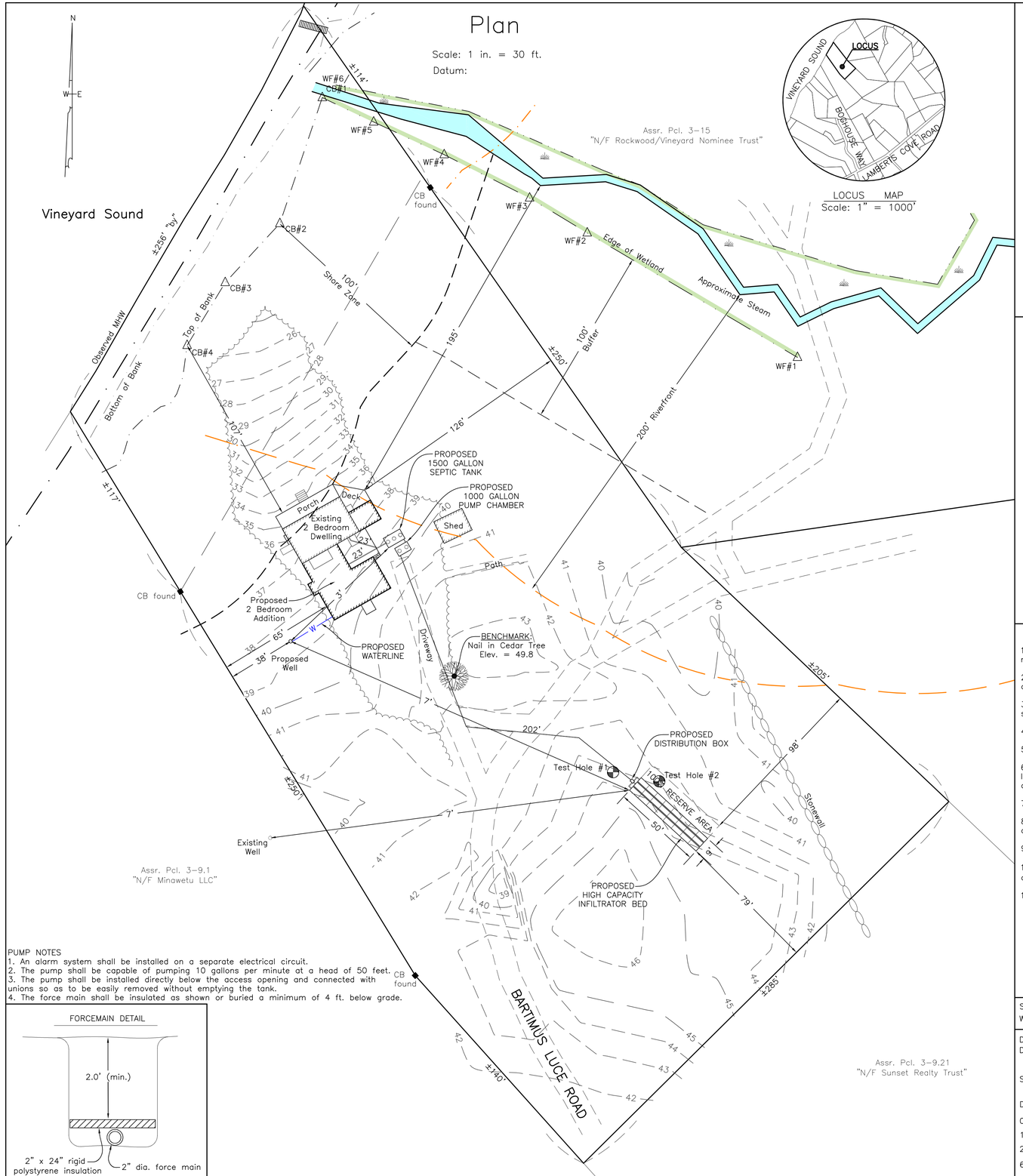
Plan

Scale: 1 in. = 30 ft.
Datum:



LOCUS MAP
Scale: 1" = 1000'

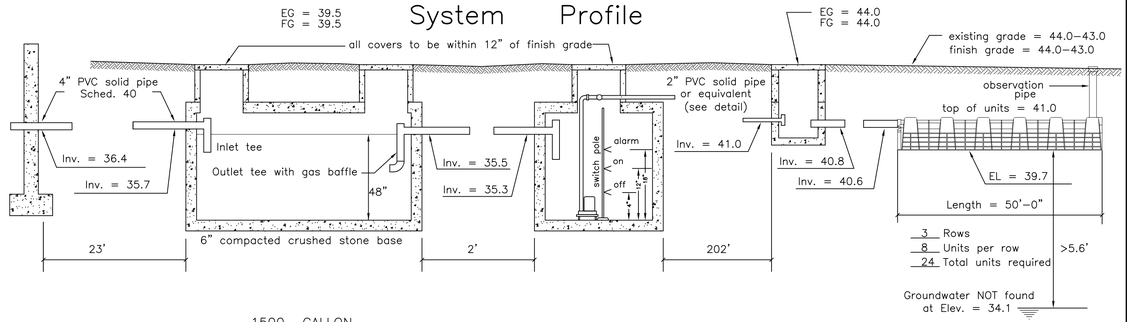
PUMP NOTES
1. An alarm system shall be installed on a separate electrical circuit.
2. The pump shall be capable of pumping 10 gallons per minute at a head of 50 feet.
3. The pump shall be installed directly below the access opening and connected with unions so as to be easily removed without emptying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

FORCEMAIN DETAIL

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

S:\Survey\21\2198-3\Carlson 2198-3\2198-3.dwg

System Profile



1500 GALLON
Septic Tank
(see note 5)

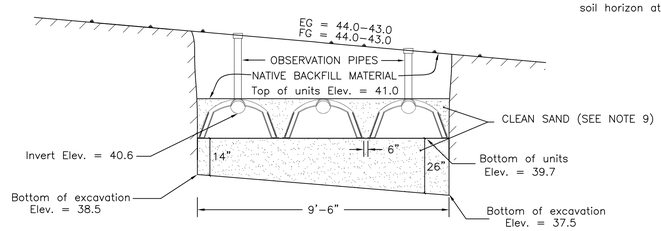
1000 GALLON
Pump Chamber
(see note 5)

DISTRIBUTION BOX

INFILTRATOR BED

System Cross Section

NOTE: Not to scale



NOTES:
a. Leaching chamber rows shall be spaced 6" apart.
b. Bottom of excavation shall extend into the "C2" 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

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 200' of the proposed leaching facility, and no leaching facilities could be found within 200' of the proposed well.
11. This lot lies within the Coastal District.

Design Criteria

Design Hydraulic Loading:
4 Bedrooms x 110 GPD/Bedroom = 440 GPD

Septic tank capacity:
Required: 440 GPD x 200% = 880 Gal. minimum
Septic tank provided = 1500 Gal.

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

* 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: Cody Coutinho, E.I.T.
Witnessed By: Omar Johnson

Deep Observation Hole 1.
Date: June 17, 2022

Surface elevation = 44.5

Depth	Horizon	Texture
0"-12"	A	Sandy Loam
12"-24"	B	Loamy Sand
24"-60"	C1	Silty Sand
60"-120"	C2	Fine Sand

Perc. rate < 5 mpi. @ 60"
No groundwater found at 120" (Elev. = 34.5)

Deep Observation Hole 2.
Date: June 17, 2022

Surface elevation = 44.1

Depth	Horizon	Texture
0"-12"	A	Sandy Loam
12"-24"	B	Loamy Sand
24"-72"	C1	Silty Sand
72"-120"	C2	Medium Sand

Perc. rate < 5 mpi. @ 72"
No groundwater found at 120" (Elev. = 34.1)

Proposed Septic System on Land in West Tisbury, Mass.

Designed for: Sunset Realty Trust
Street Address: 64 Bartimus Luce Road
Assessor No.: 3-9.22
Lot Area: ±3.13 Acres
Designed By: Cody Coutinho
Checked By: R.G.S.
Date: July 13, 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. 2198-3