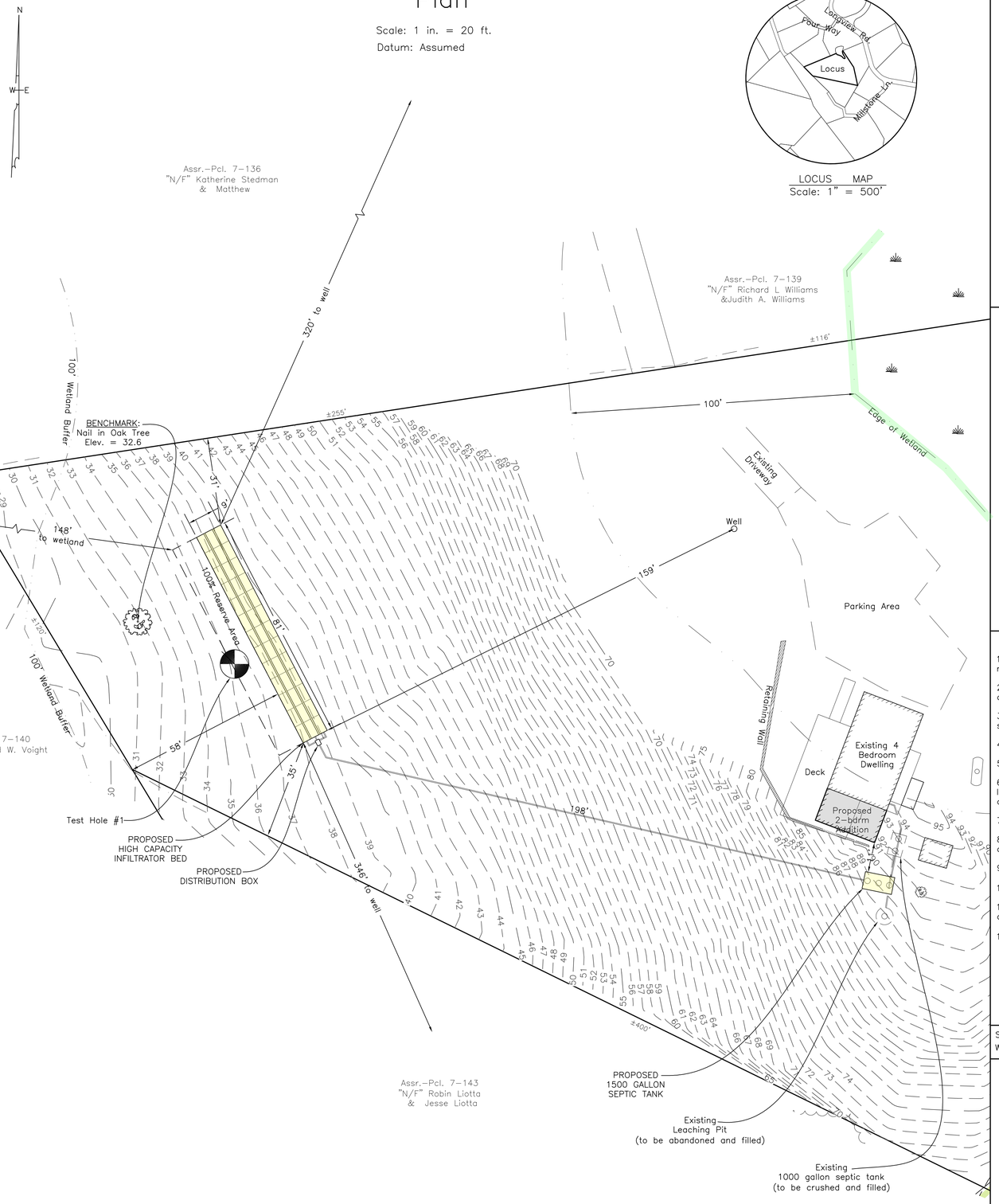
# Plan

Scale: 1 in. = 20 ft.
Datum: Assumed







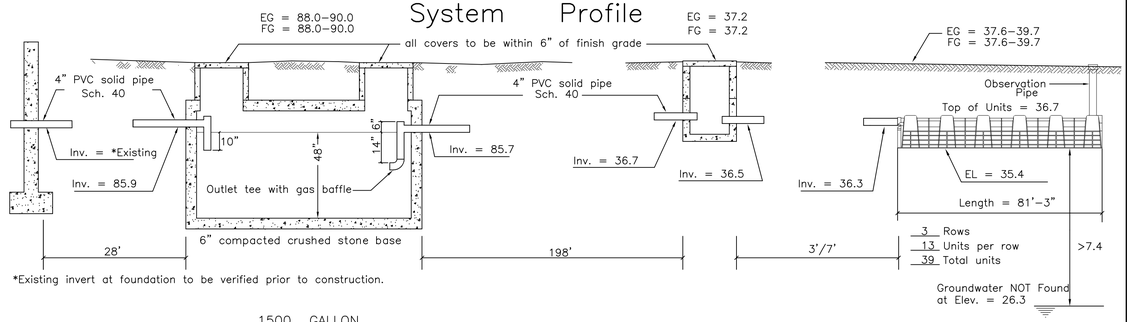
LOCUS MAP
Scale: 1" = 500'

LEGEND

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

S:\Survey\0\77-8\Cartoon 77-8\77-8.dwg

# System Profile




*Existing invert at foundation to be verified prior to construction.

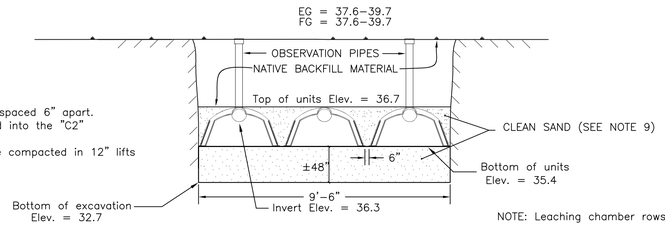
1500 GALLON SEPTIC TANK (see note 5)

DISTRIBUTION BOX

H–20 HIGH CAPACITY LEACHING CHAMBER 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"
c. clean sand below units shall be compacted in 12" lifts

NOTE: Leaching chamber rows shall be spaced 6" apart.

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.

11. The design engineer shall inspect the bottom of the leaching excavation prior to the placement of any clean sand or leaching chambers.

12. This lot contains 72,225 SF of dry land (exclusive of wetlands)

Soil evaluator: Cody Coutinho
Witnessed By: Omar Johnson

SOIL DATA

Deep Observation Hole 1.
Date: January 19, 2022
Surface elevation = 36.3

| Depth | Horizon | Texture |
|---|---|---|
| 0"–6" | A | Sandy loam |
| 6"–24" | B | Silty sand |
| 24"–84" | C1 | Clay loam |
| 84"–96" | C2 | Very fine sand with clay pockets |
| 96"–120" | C3 | Very fine sand |

Perc. rate < 10 mpi. @ 84"
No groundwater found at Elev. = 26.3

# Design Criteria

Design Hydraulic Loading:
6 Bedrooms x 110 GPD/Bedroom = 660 GPD

Septic tank capacity:
Required: 660 GPD x 200% = 1320 Gal. minimum
Septic tank provided = 1500 Gal.

Leaching Capacity Provided:
H–20 High Capacity Leaching Chamber Bed
39 Leaching Chamber Units
39 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 1150 sq.ft.
1150 sq.ft. x 0.60 GPD/sq.ft. = 690 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 West Tisbury, MASS.

Designed for: Andrew Doyle
Street Address: 6 Four Way
Assessor No.: 7–141
Lot Area: ±78,274 Sq.Ft.
Designed By: Troy Silva
Checked By: R.G.S.
Date: February 17, 2022
Revised:

COMMONWEALTH OF MASSACHUSETTS
REID G. SILVA
CIVIL
No. 45205
REGISTERED PROFESSIONAL ENGINEER
February 22, 2022

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. 77–141