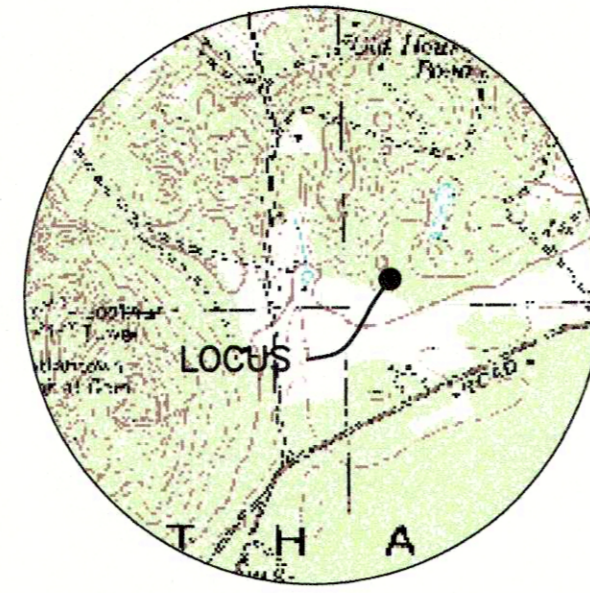
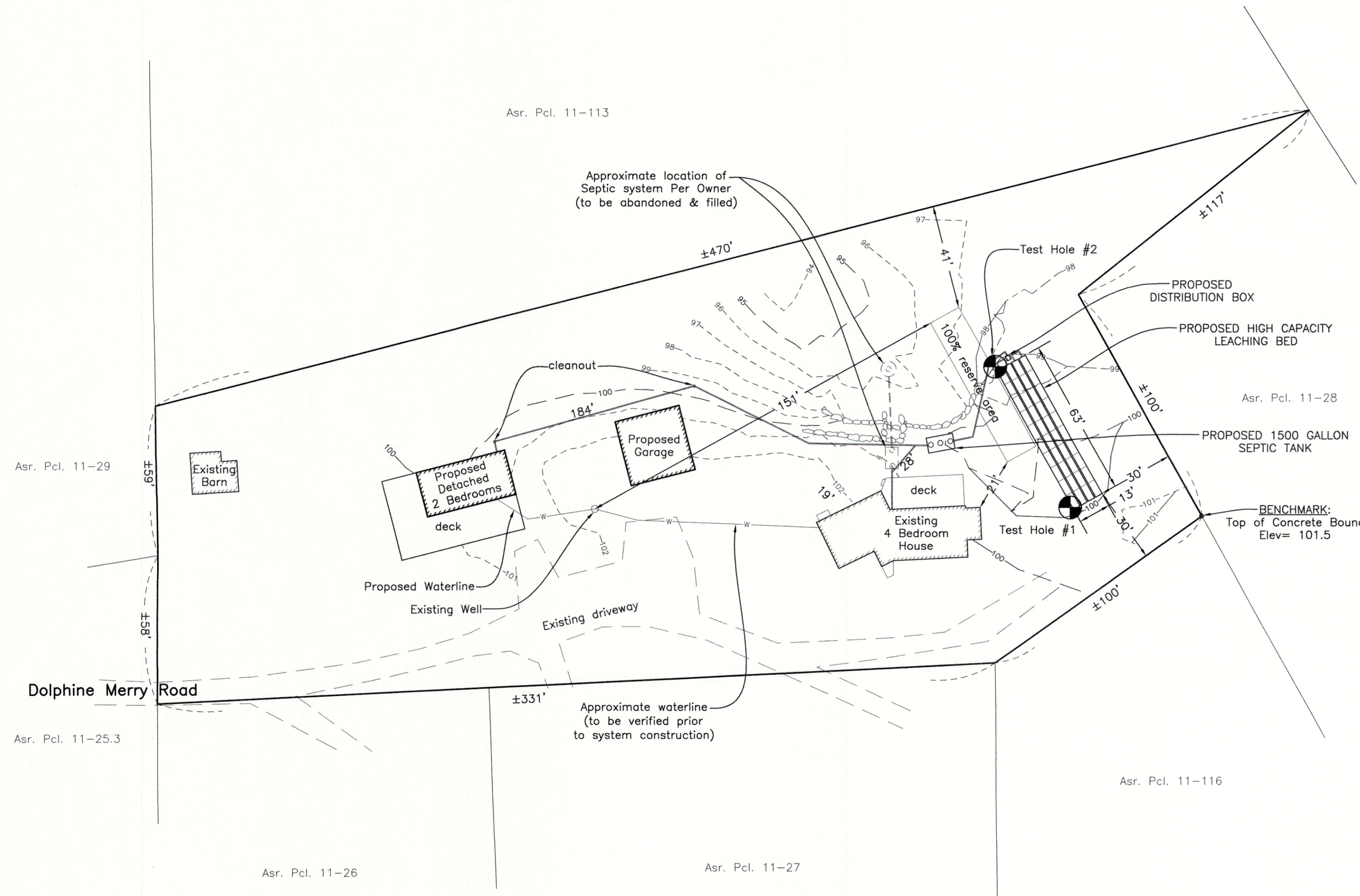
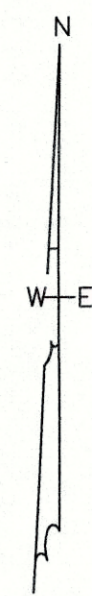


Plan

Scale: 1 in. = 30 ft.
Datum: ±USGS



LOCUS MAP
Scale: 1:25000

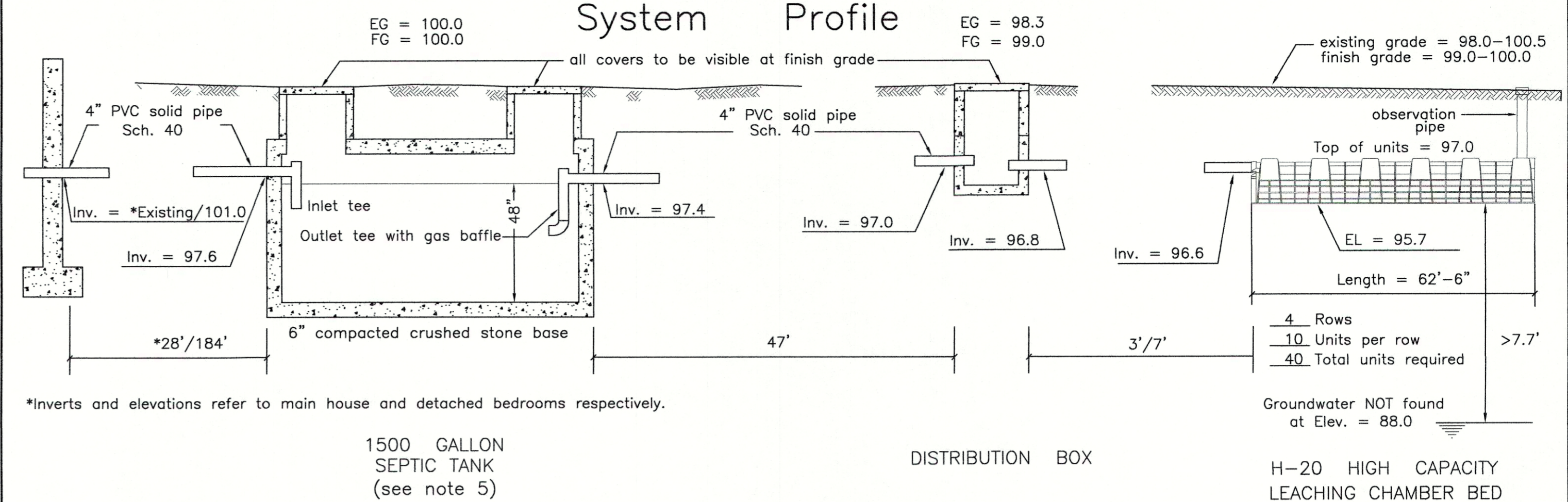


NOTE: Site survey and topography done by Gregory Marcella, PLS

LEGEND

- PROPOSED CONTOUR
- EXISTING CONTOUR
- ±100.7 EXISTING SPOT ELEVATION
- WATER SERVICE LINE
- TEST HOLE LOCATION

System Profile



*Inverts and elevations refer to main house and detached bedrooms respectively.

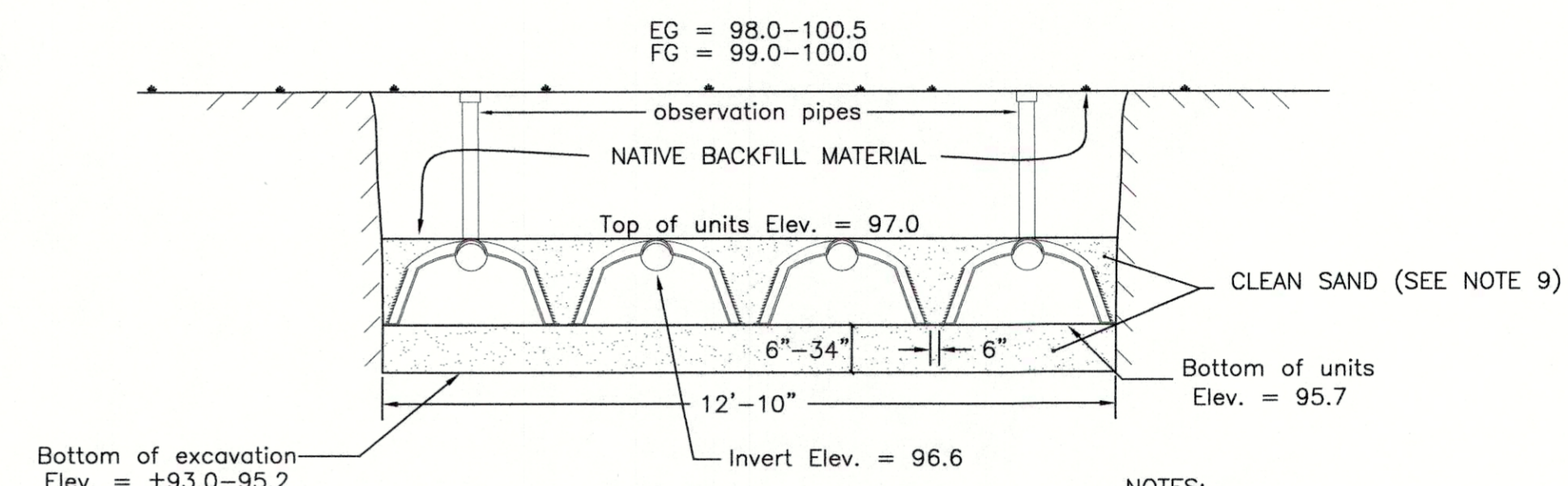
1500 GALLON SEPTIC TANK (see note 5)

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"

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. and are to be brought to grade by adding risers as necessary. The covers are to be visible at the surface.
8. The inlet tee of the septic tank shall be easily removable (not glued) so as to allow the use of a plumbers snake if necessary.
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. Leaching Chambers shall consist of Infiltrator high capacity, ADS high capacity biodiffusor or an approved equivalent.

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
40 Leaching Chamber Units
40 Units x 6.25 linear ft./unit x 4.7 sq.ft./linear ft. = 1175 sq.ft.
1175 sq.ft. x 0.60 GPD/sq.ft. = 705 GPD

* Per modified certification for general use High capacity leaching chamber units are allowed 4.7 sq.ft. leaching area per linear ft. in bed configuration.

Proposed Septic System on Land in WEST TISBURY, MASS.

Designed for: NELSON TUCK
Street Address: #40 DOLPHINE MERRY RD
Assessor No.: 11-118
Lot Area: ±1.41 Ac.
Designed By: Reid G. Silva, P.E.
Checked By: *Reid*
Date: June 3, 2014
Revised: April 27, 2015 relocate sewer pipe



Soil evaluator: Reid G. Silva, P.E.
Witnessed By: John Powers

SOIL DATA

Deep Observation Hole 1.			Deep Observation Hole 2.		
Date: May 7, 2014			Date: May 7, 2014		
Surface elevation = 100.5			Surface elevation = 98.0		
Depth	Horizon	Texture	Depth	Horizon	Texture
0"-12"	A	Sandy loam	0"-10"	A	Sandy loam
12"-44"	B	Loamy sand	10"-30"	B	Loamy sand
44"-108"	C1	Loamy sand	30"-58"	C1	Loamy sand
108"-144"	C2	med Sand	58"-120"	C2	Loamy sand
Perc. rate < 10 mpi. @ 44"			Perc. rate < 5 mpi. @ 58"		
No groundwater found at 144", Elev. = 88.5			No groundwater found at 120", Elev. = 88.0		

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