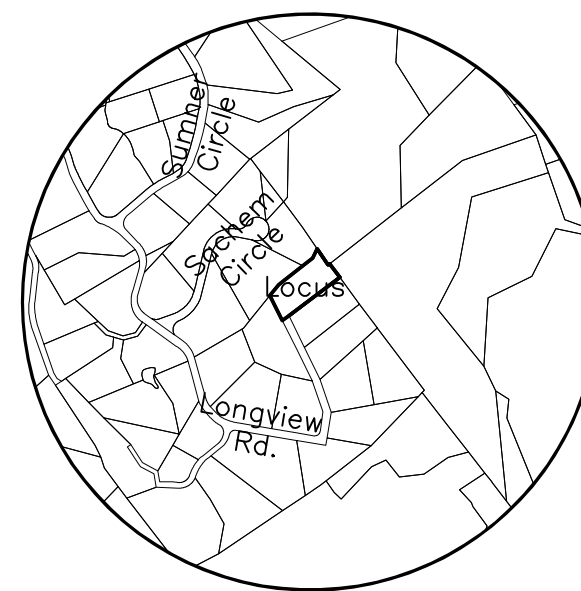
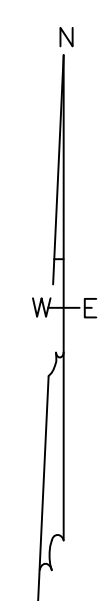


Plan

Scale: 1 in. = 40 ft.
Datum: ± U.S.G.S.



LOCUS MAP
Scale: 1" = 1000'

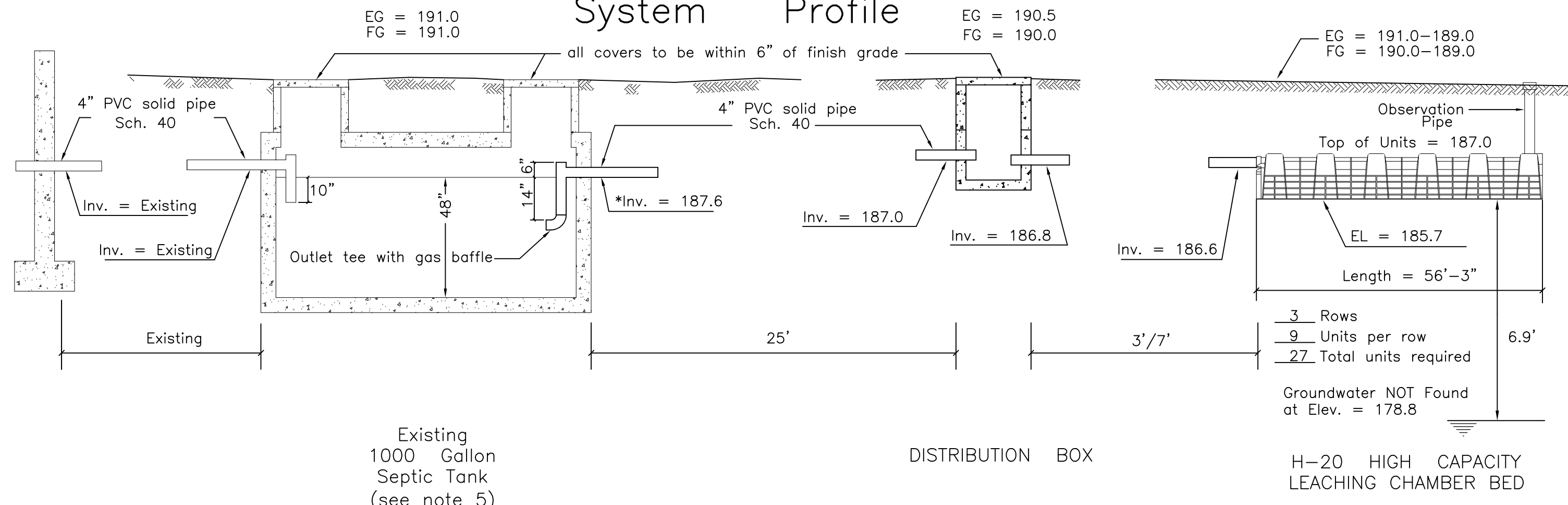


LEGEND

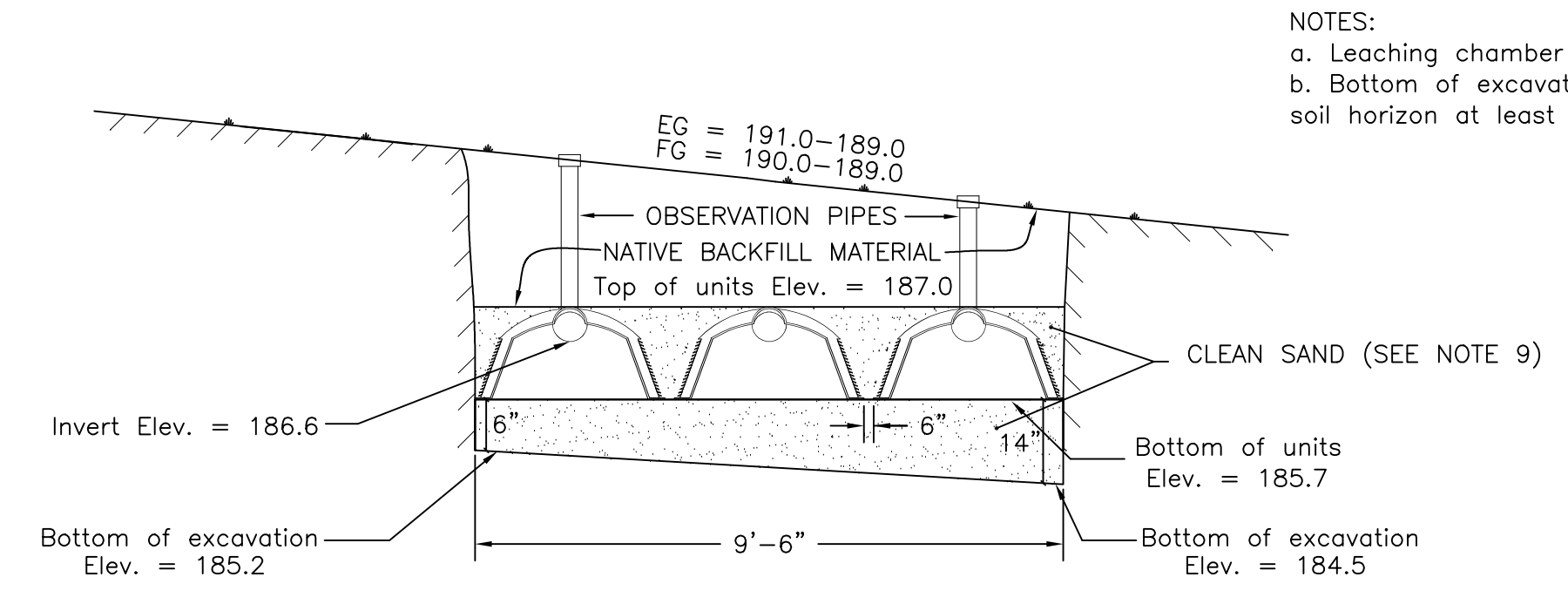
-PROPOSED CONTOUR
-EXISTING CONTOUR
- +100.7.....EXISTING SPOT ELEVATION
- W —.....WATER SERVICE LINE
-TEST HOLE LOCATION

West Tisbury Board of Health Variances Required
1. Leaching area to wetland separation; 100' required - 55' proposed

System Profile



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 "C" 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

- 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.
- Any 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.
- Any 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.

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 = 1000 Gal. (Existing)

Leaching Capacity Provided:
H-20 High Capacity Leaching Chamber Bed
27 Leaching Chamber Units
27 Units x 6.25 linear ft./unit x 4.72 sq.ft./linear ft. = 796 sq.ft.
796 sq.ft. x 0.56 GPD/sq.ft. = 445 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 Upgrade on Land in West Tisbury, Mass.

Designed for: Drew Cathey
Street Address: #235 Longview Road
Assessor No.: 7-153
Lot Area: ±1.38 Acres
Designed By: Cody Coutinho
Checked By: RGS
Date: September 2, 2020
Revised:



Revised: September 8, 2020

SOIL DATA																																									
Soil evaluator: Reid G. Silva, P.E. Witnessed By: Omar Johnson	Deep Observation Hole 1. Date: August 24, 2020	Deep Observation Hole 2. Date: August 24, 2020																																							
Surface elevation = 190.2	Surface elevation = 188.8	Surface elevation = 188.8																																							
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