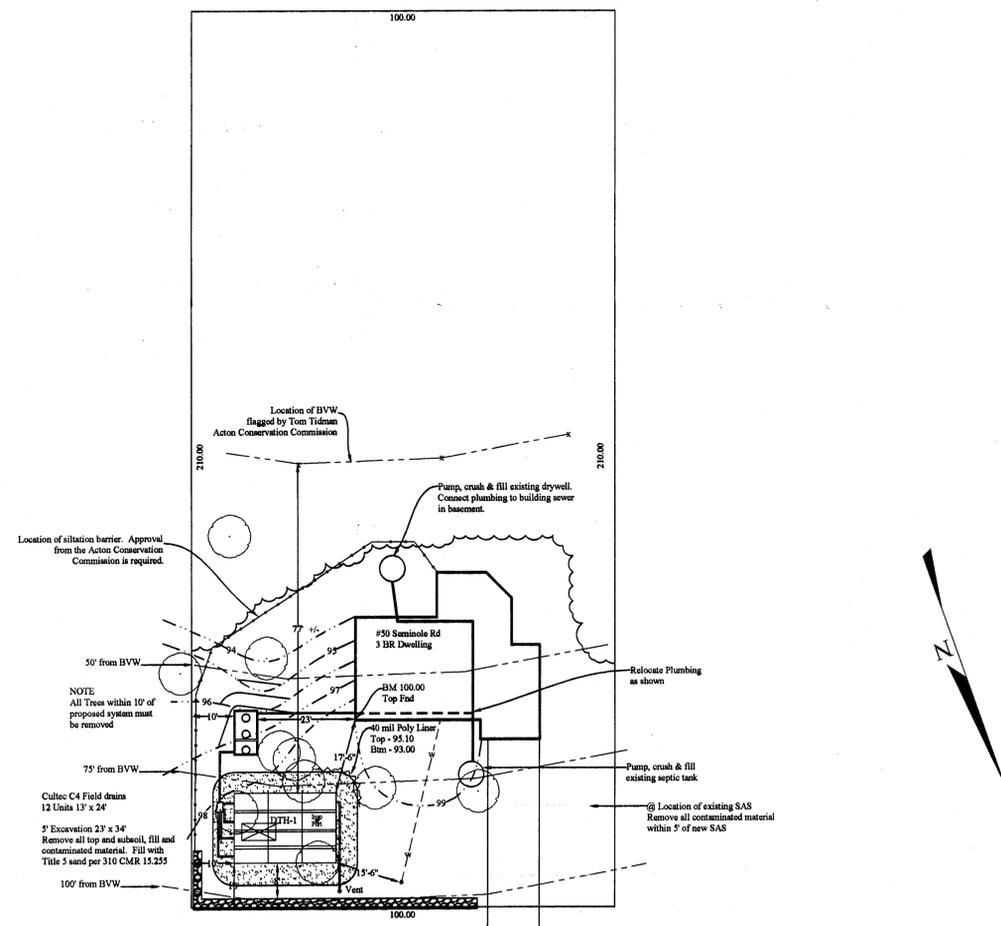
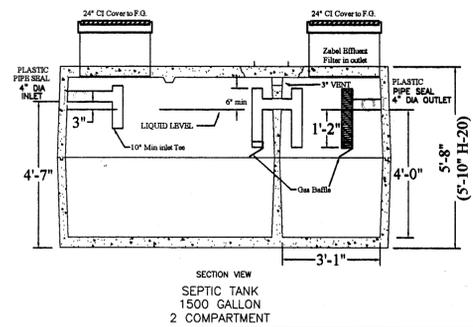
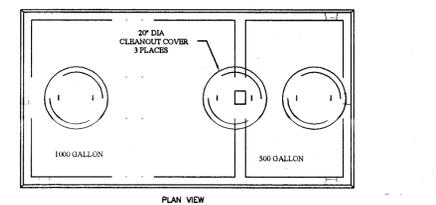
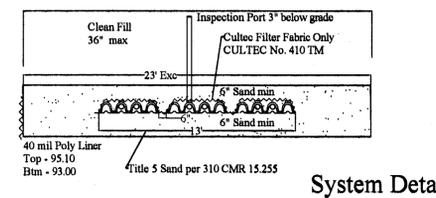
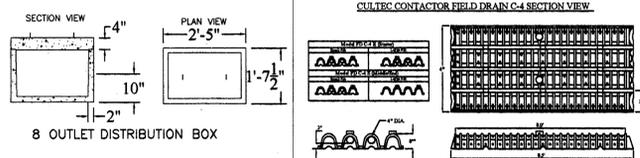
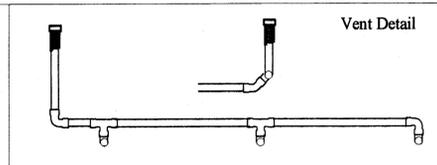
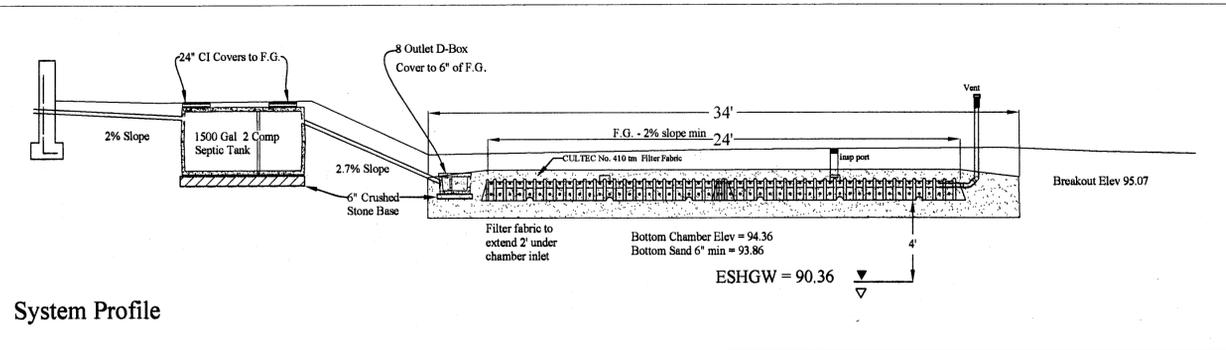
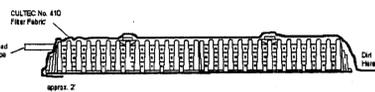


Locus



Variance Required

A Local Upgrade Approval is required from 310 CMR 15.211 which requires a 20' separation from the SAS to a foundation. A 176" separation is proposed

General Notes

- The septic tank and pump chamber shall be made of precast concrete. Tank construction materials shall comply with 310 CMR 15.226. Septic tank and pump chamber shall be waterproofed below the pipe inlet.
- The septic tank and pump chamber shall be placed on six inches of crushed stone that has been mechanically compacted. A minimum of nine inches of cover shall be placed over the tank. A 24 inch cover with an appropriate water tight riser shall be provided over the outlet within six inches of finished grade.
- Where not otherwise specified, piping shall be 4" schedule 40 PVC pipe with glued joints. Existing supply piping that is not 4" cast iron or schedule 40 PVC shall be replaced.
- Final grading over the leaching area shall provide that no water will accumulate on the surface. The grade above and next to the leaching facility shall have a minimum 2% slope.
- Cover material shall be free of large stones, stumps, frozen clumps of earth, masonry or construction waste material. Machinery that may crush or disturb the alignment of pipe in the disposal system area shall not be allowed on any part of the disposal area.
- All stone shall be free of iron, fines and dust, and must have less than 0.2% material finer than a #200 sieve as determined by AASHTO test methods T-11 and T-27.
- Fill material for systems constructed in fill shall consist of select on-site or imported soil material. The fill shall be comprised of clean granular sand, free from organic matter and deleterious substances. Mixtures and layers of different classes of soil shall not be used. The fill shall not contain any material larger than 2 inches. A sieve analysis report must be obtained by the installer to demonstrate that the fill material complies with 310 CMR 15.255(3). The Board of Health may require a minimum of one representative sample be taken from the in place fill and tested for compliance with the grain size distribution specifications.
- Should conditions be encountered onsite which require modification to the approved plan, the installer shall contact the Designer for instructions.
- The installer may make minor changes in orientation to avoid large obstacles that include but are not limited to boulders, trees, walls, fences, sheds, and pavement. It is the intent of this design to locate the leaching facility in the general area of the test holes. Minimum offsets from foundations, property lines, wells, and wetlands shall be maintained at all times.
- The owner shall be responsible for ascertaining the location of all property lines. A professional instrument survey was not performed. If proximity of the system to property lines are critical or if the location of a property line is in question, an instrument survey should be performed by a Professional Land Surveyor. This plan is designed for the purpose of installing a septic system only. The Designer is not responsible for any subsurface structures not accurately depicted on the plan.
- All existing elevations must be verified prior to installing any system components.
- The system IS NOT SIZED according to Title 5 to accommodate a GARBAGE DISPOSAL.
- All construction shall conform to 310 CMR 15.000 and Local Board of Health Regulations.
- All system components must be marked with a magnetic tape prior to backfilling.
- Cultec Field Drains proposed in accordance with General Use Approval Dated August 22, 2013 and Standard Conditions for Alternative Soil Absorption Systems with General Use Certification and/or Approved for Remedial Use dated August 27, 2013.

Design Calculations

Type of Establishment Dwelling

System Required
 Number of Bedrooms: 3 BR
 Design Flow: 330 GPD
 Septic Tank: 1500 Gallons
 System Area: 600 sqft

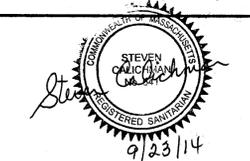
System Provided
 Number of Bedrooms: 3
 Septic Tank Capacity: 1500 gal
 System Area: 643 sqft
 System Capacity: 330 GPD
 Soil Classification: II
 LTAR: 0.56 GPD/sqft

Cultec Area 12 Units x 8' Long x 6.7 sqft/lf = 643.2 sqft

Proposed Elevations

Bench Mark: 100.00 Top Fnd
 Building Sewer: 96.00
 Septic Tank Inlet: 95.54
 Outlet: 95.29
 D-Box In: 94.88
 D-Box Out: 94.71
 Chamber Inlet: 94.61
 Bottom Chamber: 94.36
 ESHGW: 90.36
 F.G. over SAS: 98.00+/-

- Wetlands within 100' of the proposed leaching facility have been identified.
- There are no private wells within 200' of the system.
- The proposed system will be located in Acton's Aquifer Protection Zone 4. A 4' separation to ESHGW is provided.
- This site is not in the 100 year flood plain.



2		
1		
No.	Revision/Issue	Date

ABC Cesspool Inc.

292 High Street
 Acton, MA 01720
 (978)263-5802

Proposed Septic System

50 Seminole Rd
 Acton, MA 01720

Project 50seminole_act	Sheet 1
Date 9/5/14	
Scale 1" = 20'	

Soil Logs

DTH-1	98.36
0"	Fill
34"	Ap 95.53
41"	SL 10yr3/3 94.94
48"	B 94.36
	SL 10yr5/6
	C-1
	fine - med
	SL
	2.5y 6/4
96"	ESHGW 90.36

8/27/14	Percolation Test
Test #	Rate 12 mpi

Soil evaluation conducted by Richard Delan SE
 Witnessed by Evan Carloni, Acton Boh

I certify that I am currently approved by MADEP pursuant to 310 CMR 15.017 to conduct soil evaluations. Soil Evaluator # 591