



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Acton
City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

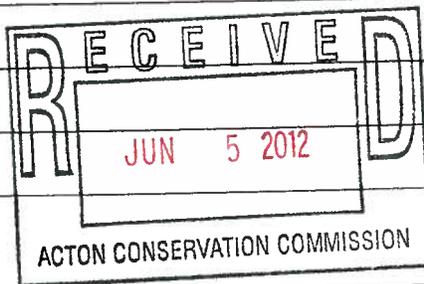


1. Applicant:

Kinley Herboldsheimer
Name
243 School St
Mailing Address
Acton
City/Town
Ma 01720
State Zip Code
Phone Number
Fax Number (if applicable)

2. Representative (if any):

ABC Cesspool Co., Inc.
Firm
Dick Dolan
Contact Name
292 High St
Mailing Address
Acton
City/Town
978 263 5802
Phone Number
Dicksludge @ AOL.com
E-Mail Address
Ma 01720
State Zip Code
978 897 6486
Fax Number (if applicable)



B. Determinations

1. I request the Acton Conservation Commission make the following determination(s). Check any that apply:

- a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance or bylaw** of:

Name of Municipality

- e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



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C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

243 School St	Acton
Street Address	City/Town
H-4	92
Assessors Map/Plat Number	Parcel/Lot Number

- b. Area Description (use additional paper, if necessary):

Existing lawn

- c. Plan and/or Map Reference(s):

Acton -Town GIS	2012
Title	Date
Proposed Septic System	2/6/12
Title	Date
_____	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

Replacement of the septic system at an existig single family residence



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C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



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D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Kinley Herboldsheimer

Name

243 School St

Mailing Address

Acton

City/Town

Ma

State

01720

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

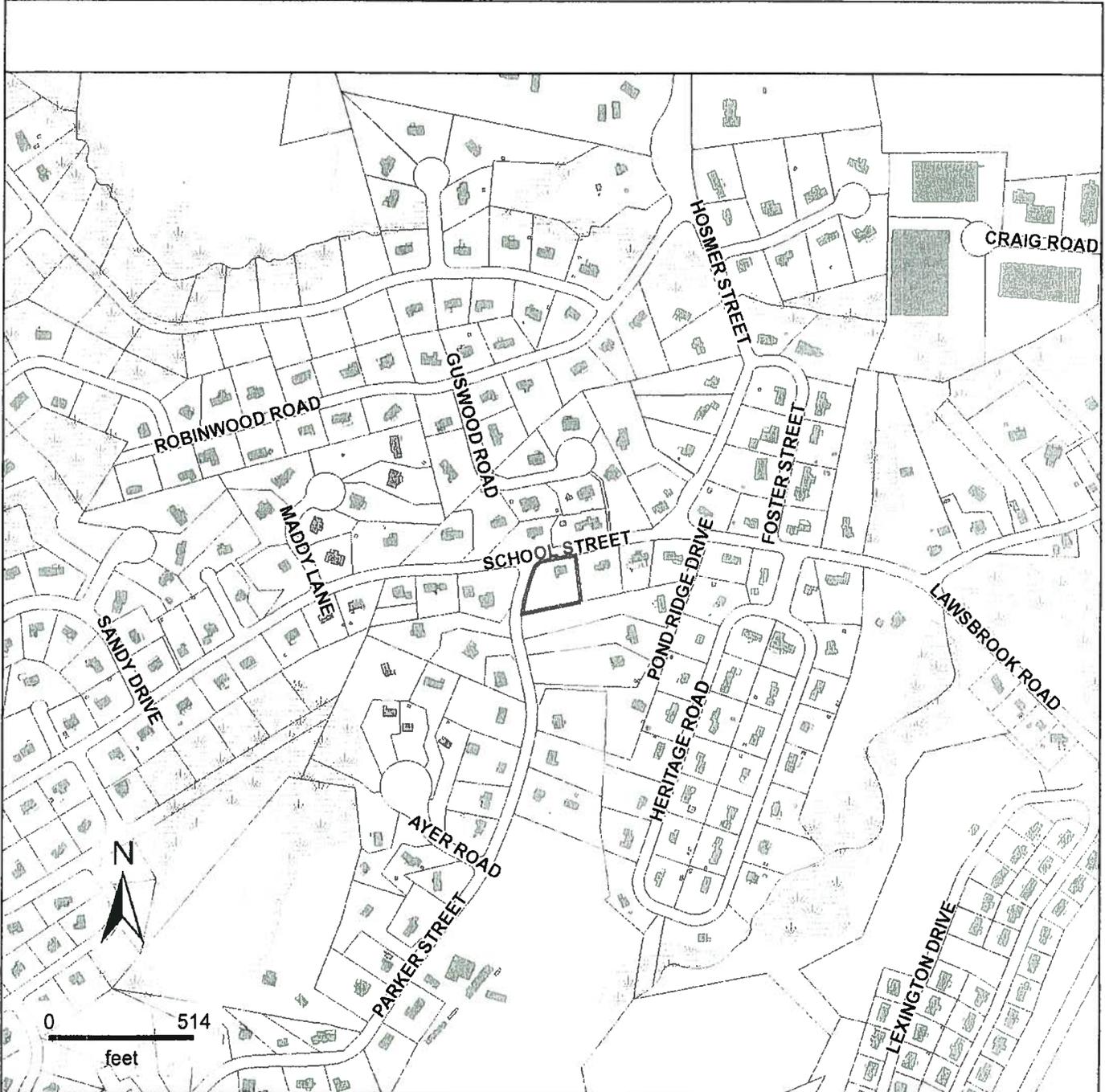
Signature of Applicant

Date

6/5/12

Signature of Representative (if any)

Date

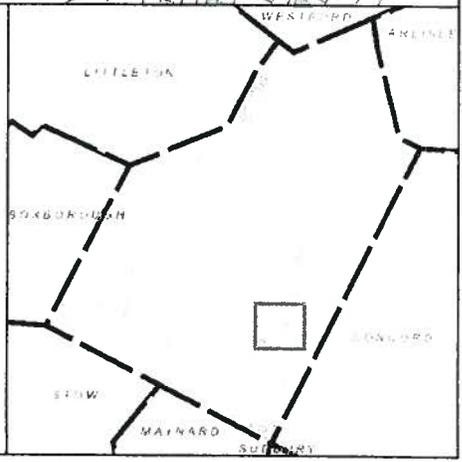


Property Information
 Property ID H4-92
 Location 243 SCHOOL ST



**MAP FOR REFERENCE ONLY
 NOT A LEGAL DOCUMENT**

This data set/map is for planning purposes only and should not be used for larger scale analysis. The Town of Acton shall not be held liable for any use of the data or images shown on this map, nor is any warranty of accuracy expressed. All uses of this data set/map are subject to field verification.



STRUCTURES

-  BUILDING
-  DECK
-  FOUNDATION
-  FUEL TANK
-  MOBILE
-  PORCH
-  RUINS
-  SMOKESTACK
-  WATERTANK

-  PARCELS

DEP WETLANDS

-  WET AREAS
-  PONDS

DEP RIVERS & STREAMS

-  TOWN BOUNDARIES

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.
- All work within 100' of the wetland requires filing with the Acton Conservation Commission.
- System shall be constructed and maintained in accordance with DEP Remedial Use Approval for the Presby Enviro-Septic System dated November 8, 2011.
- The System also includes a minimum six inches of sand, specified as concrete sand meeting ASTM C-33 (also called 'System sand'), surrounding the pipe on all sides by a minimum of six inches.

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 Acton BoH
 195' of Presby Pipe

System Provided

Number of Bedrooms: 3
 Septic Tank Capacity: 1500 gal
 System Area: 442 sqft
 System Capacity: 330 GPD
 Soil Classification: II
 LTAR: 0.53 GPD/sqft
 200' of Presby Pipe

Proposed Elevations

Bench Mark: 100.00 Top Fnd
 Building Sewer: 92.25
 Septic Tank Inlet: 91.80
 Outlet: 91.55
 Pump Chmbr Inlet: 91.45
 Outlet: 91.20
 D-Box In: 98.17
 D-Box Out: 98.00
 Bottom Presby Pipe: 97.50
 Bottom Concrete Sand: 97.00
 ESHGW: 89.50
 F.G. over SAS: 100.00+/-

- 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 3. A 7.5' separation to ESHGW is provided
- This site is not in the 100 year flood plain.

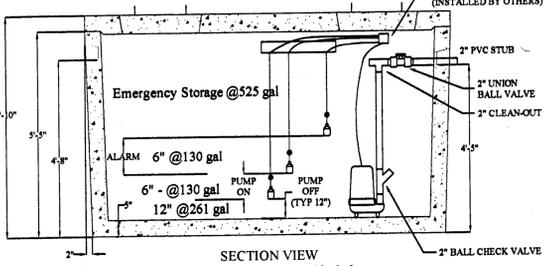
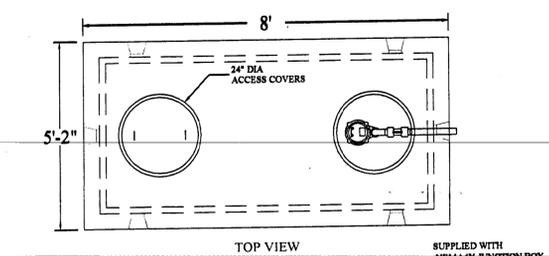
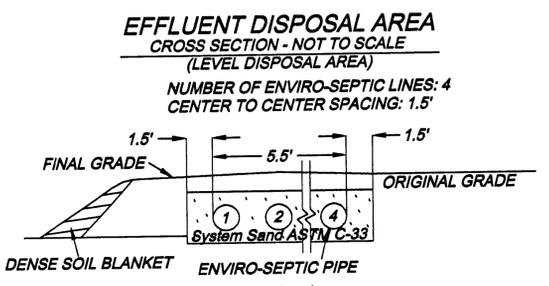
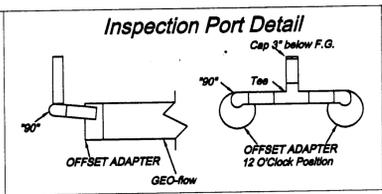
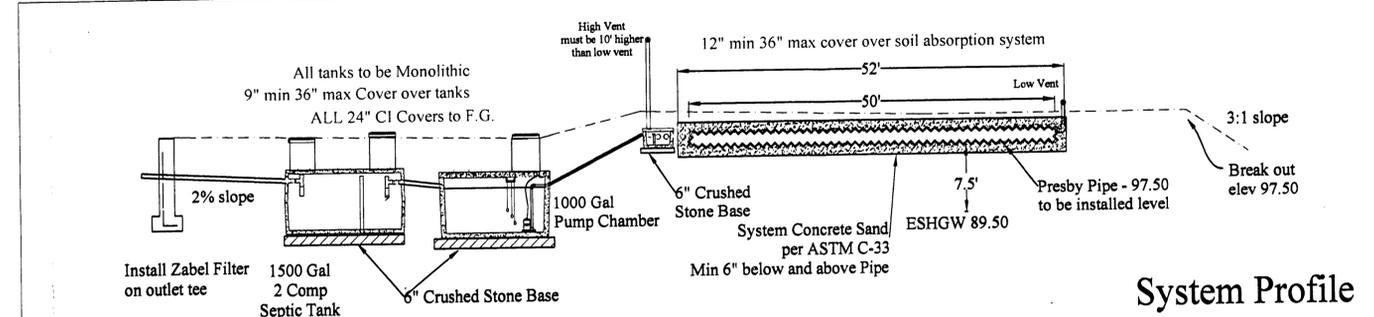
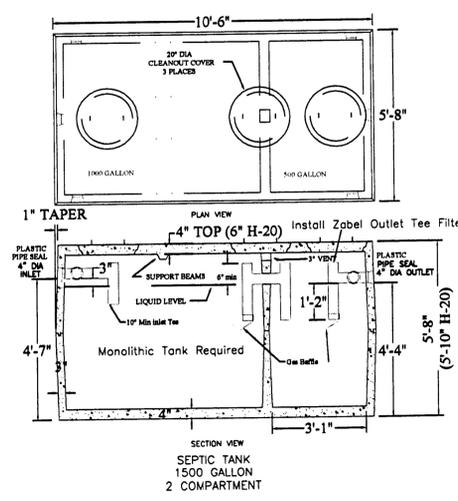


No.	Revision/Issue	Date
4	Acton BoH Comments	5/23/12
3	Acton BoH Comments	5/15/12
2	Acton BoH Comments	5/7/12
1	Acton BoH Comments	2/28/12

ABC Cesspool Inc.
 292 High Street
 Acton, MA 01720
 (978)263-5802

Proposed Septic System
 243 School St
 Acton, MA 01720

Project	243school_act	Sheet	1
Date	2/6/12		
Scale	1" = 20'		

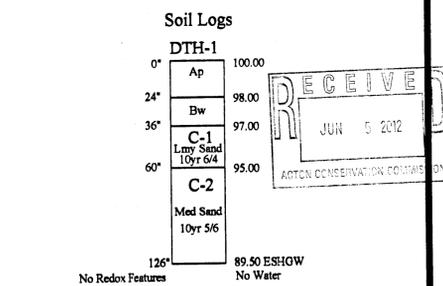
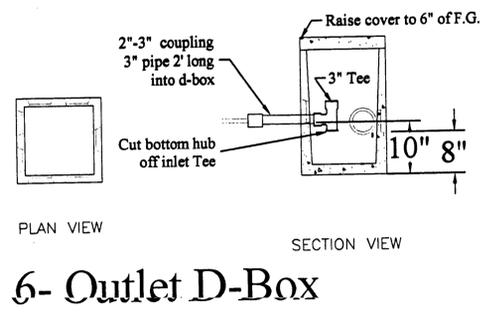
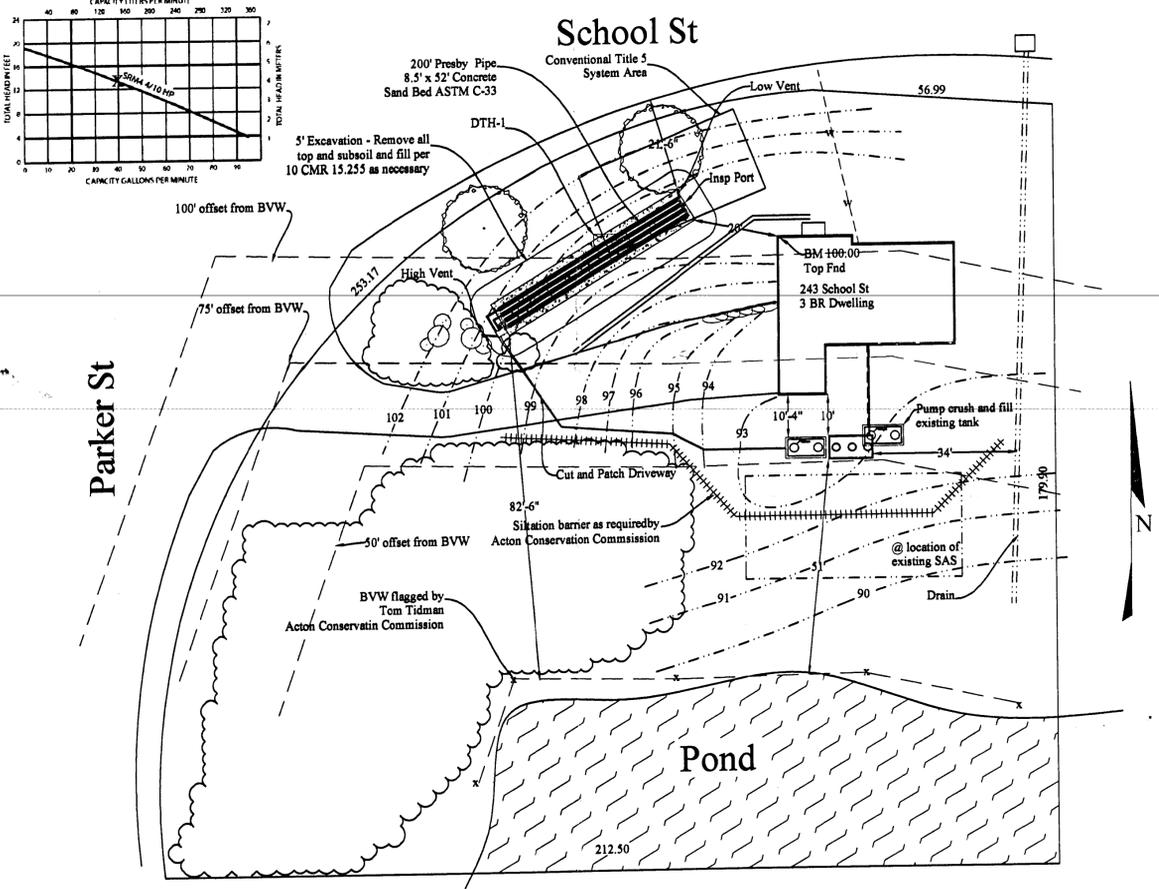
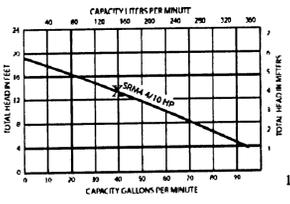


Monolithic 1000 Gal Pump Chamber
 P.C. Interior Dims. 7.5' x 4.7' x 4'
 1047 total gallons - 1" = 21.8 gallons

Pump Chamber Specifications

- Type: Meyers Sewage Series SRM-4; Submersible Sewage Pump or approved equal - >1.5" Solids Handling Capacity - Min Capacity - 40 GPM at 13.2' total dynamic head.
- The pump chamber shall be a 1000 gallon tank as provided by SHEA Concrete or approved equal.
- The pump shall be provided with liquid float control switches and high water alarm control as illustrated in detail.
- The control panel shall be equipped with an audible/visual alarm placed in the basement in a readily accessible location. Alarm circuit shall be separated from pump circuit.
- All wiring shall conform to local and state wiring codes and shall be installed by a licensed electrician.
- Pump must be installed in accordance with manufacturers recommendations. All joints and fitting to be glued. Float switches to be set at levels shown in detail.

Variances Required
 Acton BoH regulation 16-6.2.8 to allow a sewage disposal system to be less than 100' from the BVW in a Zone 3 aquifer protection zone. An 82'6" separation is proposed.
 Acton BoH regulation 11-8.1.1 to allow a system area to be less than 600 sf. A 442 sf sand bed is proposed in accordance with DEP approval.



DATE: 1/17/2012

Percolation Test	
Test #	Rate
1	Acton BoH files 20 mpi

Soil evaluations conducted by Richard Dolan, SE, ABC Cesspool Inc. Witnessed by Justin Snaar, Acton BoH
 I certify that I am currently approved by MADEP pursuant to 310 CMR 15.017 to conduct soil evaluations. Soil Evaluator # 591 exp Oct 2013

