

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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:

Name TONY CALDERON E-Mail Address _____
Mailing Address 28 CONANT ST.
City/Town ACTON, MA. State MA. Zip Code 01720
Phone Number 978-394-5428 Fax Number (if applicable) _____

2. Representative (if any):

Firm ABC CESSPOOL Co. INC.
Contact Name DICK DOLAN E-Mail Address DICKSLUDGE @ AOL.COM
Mailing Address 292 OLD HIGH ST.
City/Town ACTON State MA. Zip Code 01720
Phone Number 978-263-5802 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:

Acton
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):

28 CONANT ST.

Street Address

Acton

City/Town

I 2

Assessors Map/Plat Number

PARCEL 26

Parcel/Lot Number

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

RESIDENTIAL HOUSE LOT

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

PROPOSED SEPTIC SYSTEM 28 CONANT ST. AUG 3/2015

Title

Date

Title

Date

Title

Date

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

REPLACE A FAILED SEPTIC SYSTEM



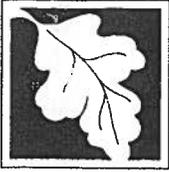
C. Project Description (cont.)

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:

Name TONY CALDERON

Mailing Address 28 CONANT ST

City/Town ACTON

State MA Zip Code 01720

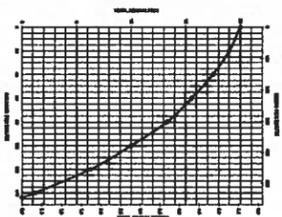
Signatures:

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.

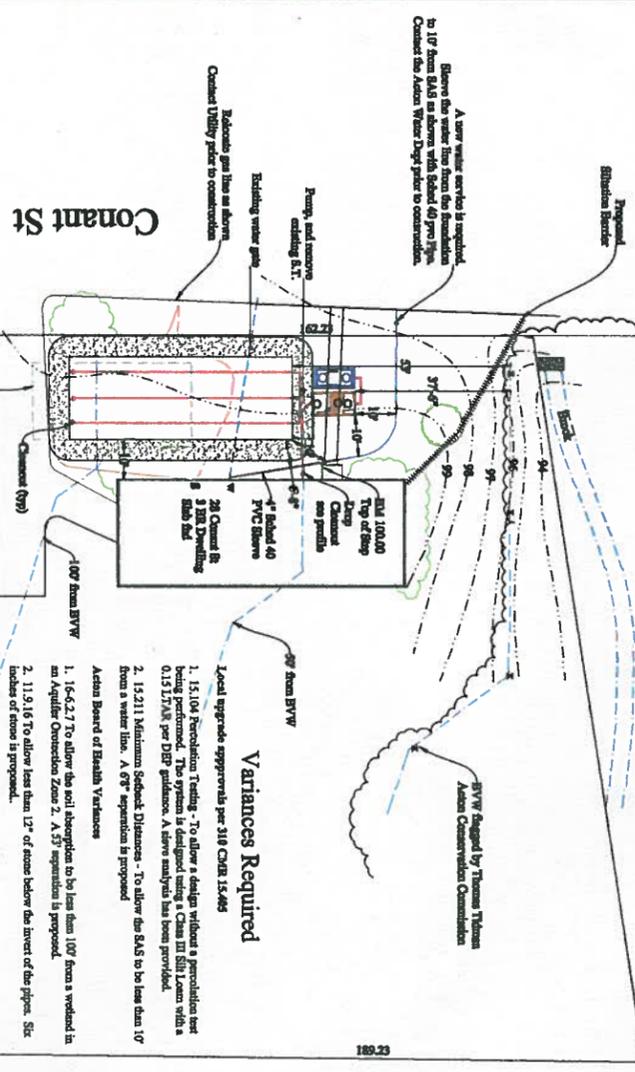
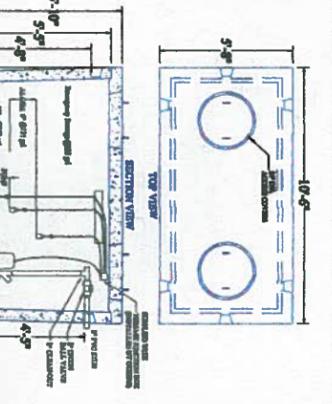
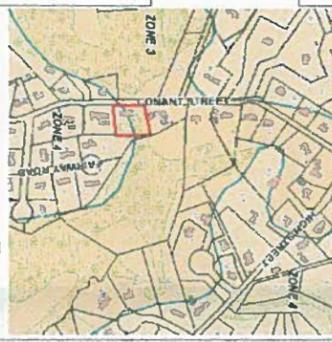
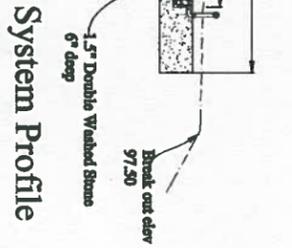
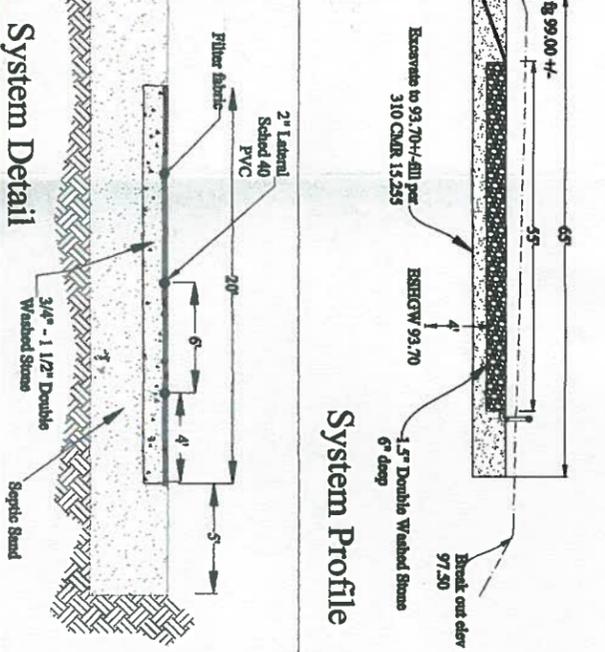
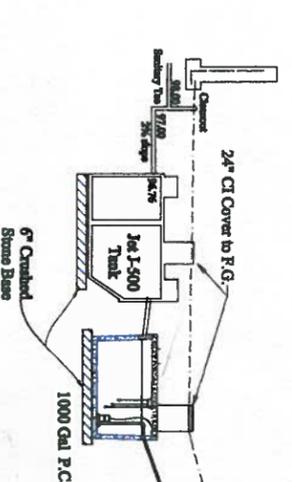
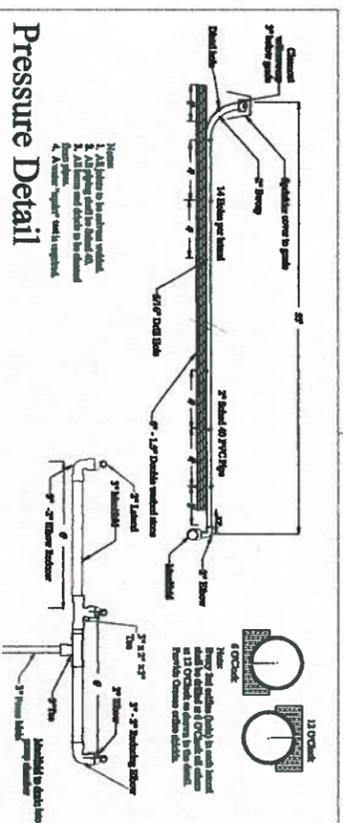
Signature of Applicant Tony Calderon / my self Date 8/15/15

Signature of Representative (if any) [Signature] Date 8/15/15

Pump Chamber Specifications



1. Type I, Heavy Storage Series 124K, Submersible Storage Pump or approved equal - >1.5" Sella Handling Capacity - Min Capacity - 80 GPM at 12' head.
2. The pump chamber shall be a 1000 gallon tank, as provided by SBEA Concrete or approved equal.
3. The pump shall be provided with liquid flow control switches and high water alarm control as illustrated in detail.
4. The control panel shall be equipped with an audible alarm placed in the basement in a readily accessible location. Alarm circuit shall be separated from pump circuit.
5. All wiring shall conform to local and state wiring codes and shall be installed by a licensed electrician.
6. Pump must be installed in accordance with manufacturers recommendations. All joints and fittings to be glued. Floor finishes to be set at level shown in detail.



- ### Variances Required
- Local upgrade approvals per 310 CMR 15.005
1. 15.104 Percolation Testing - To allow a design without a percolation test to be approved, the applicant shall provide a letter explaining why a percolation test is not required. A letter explaining the reasons why a percolation test is not required shall be provided.
 2. 15.211 Minimum Setback Distances - To allow the S&S to be less than 10' from a water line. A 6\"/>
- Acton Board of Health Variances
1. 15.6.2.7 To allow the soil absorption to be less than 100' from a wetland in an Aquifer Connection Zone 2. A 5' separation is proposed.
 2. 11.9.1.6 To allow less than 12' of space below the invert of the pipe. Six inches of space is proposed.

General Notes

1. The upper tank and pump chamber shall be made of approved concrete. Tank and pump chamber shall comply with 310 CMR 15.005. Septic tank and pump chamber shall be waterproofed below the pipe level.
2. The upper tank and pump chamber shall be placed on the bedrock of crushed stone that has been previously compacted. A minimum of 24 inches of cover shall be placed over the tank. A 24 inch cover with an aggregate water tight floor shall be provided over the tank within the limits of finished grade.
3. Where not otherwise specified, piping shall be 6\"/>

Design Calculations

dType of Reestablishment: Dwellling

System Required
Bedrooms: 3
Design Flow: 330 GPD
Septic Tank: 1500 Gallons
System Area: 2200 sqft

System Provided
Septic Tank Capacity: 1500 gal
System Area: 1100 sqft 50% reduction

System Capacity: 330 GPD
Soil Classification: III
LTAR: 0.15 GPD/sqft

A 50% reduction in the size of the S&S is proposed in accordance with DEP Remedial Use Approval of the Jet I-500 systems.

Proposed Elevations

Branch Mark: 100.00
Building Server: 98.00'-4"
Dry Cleanout: 97.00
Jet I-500 Tank Inlet: 96.75
Outlet: 96.50
Pump Chamber Inlet: 96.40
Outlet: 96.15
Manifold Invert: 97.20
Lateral Invert: 98.20
Bottom Tank 5 Brand: 97.70
Bottom Tank 5 Brand: 93.70-4"
ESBQW: 93.70
F.G. over S&S: 99.00'-4"

1. Wetlands within 100' of the proposed building facility have been identified.
2. There are no pre-constructed wetlands within 200' of the proposed building facility.
3. The proposed system is located in DEP Aquifer Protection Zone II. A 4' separation to ESBQW has been proposed.
4. This site is not in the 100 year flood plain.

No.	Barrier/Item	Date
1		
2		

ABC Cesspool Inc.
282 High Street
Acton, MA 01720
(978)283-6802

Proposed Septic System
28 Conant St
Acton, MA 01720

Permit	28conant_sst_jst
Date	8/3/15
Scale	1" = 20'

DTH-1	
0'	98.70
4"	94.70
10ft 22"	ESHQW 93.70
10ft 78"	Whoping 60"
>5%	
C-1	
ESM	
LOAM	
2.3y6Z	
Vf, m, dn	98.70

Percolation Test

Deter/7/15/15 Witnessed by Peter Conant, Acton Board

A percolation test could not be conducted due to high water conditions. A soil sample was submitted for soil analysis per 310 CMR 15.005(1)(b) and the results are as follows:

0.15 y6ZM1.7M per DEP policy detail Agency 7/1/2014.
Report is attached.

I certify that I have passed the construction approved by DEP and that the soil analysis has been performed by a DEP approved laboratory. I am a registered engineer, and experience described in 310 CMR 15.010(5).

Richard D'Almeida
Soil Engineer