

Inland Wetlands and Watercourses Commission

Revised 3/14/2023

Application # 23-13 Date received by Office 7/18/23 Fee \$130.00

Owner of Record LCS Essex Meadows

Home Address 30 Bokum Road

Mailing Address: 30 Bokum Road

Phone: Home/Cell 860-767-7201 Work: _____

Applicant's Name: Tim Reynolds

Home Address 30 Bokum Road

Mailing Address: 30 Bokum Road

Phone: Home/Cell 860-304-2048 Work: 860-767-7201

Email: reynoldst@essexmeadows.com

Applicant's interest in the land if the applicant is not the property owner _____

Property manager

Location of Property by Street & Village Address: 30 Bokum Rd.

Map 67 Lot 2-2 Lot Size 108ac District Res. Life Care

Check applicable activities occurring in or within 100 feet of wetlands and/or watercourses:

- | | | | |
|-----------------------------------|-------|------------------------|-------------------------------------|
| Construction of a structure(s) | _____ | Discharge | _____ |
| Other site development work | _____ | Pond creation/dredging | _____ |
| Deposition or removal of material | _____ | Tree removal | _____ |
| Stream altering/channelization | _____ | Dam maintenance | _____ |
| Subdivision/Resubdivision | _____ | Other | <input checked="" type="checkbox"/> |

Nature of Request: Explain in detail the extent of any activity checked above, the type of material, and the equipment to be used to complete project. (Use additional sheets if necessary.)

Install pond leveler to control water level and stop flooding from Beaver Dam

Estimated length of time for project : 2 - days

Note:

- 1) TO BE ACCEPTED BY THE LAND USE OFFICE. THIS APPLICATION MUST BE COMPLETED, SIGNED, AND SUBMITTED WITH THE REQUIRED FEE(S) AND MAP(S) PREPARED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS.
- 2) THE SUBMITTAL OF THIS APPLICATION CONSTITUTES THE PROPERTY OWNER'S PERMISSION FOR THE COMMISSION OR ITS STAFF TO ENTER THE PROPERTY FOR THE PURPOSE OF INSPECTION.
- 3) I HERBY AGREE TO PAY ALL ADDITIONAL FEES AND/OR ADDRESS SUCH COSTS DEEMED NECESSARY BY THE LAND USE OFFICE AS DESCRIBED IN PART THREE OF THIS APPLICATION.



BY:

ACTIVITY LOCATION (Map with sufficient detail must be submitted as a part of the application)

Approximate number of acres of wetlands (or portion thereof) on the property: 50

Approximate area of inland wetlands to be altered: 0

Approximate length of watercourse(s) on the property: _____

Approximate length of watercourse(s) to be altered: _____

Approximate number of acres of upland review area on the property: _____

Approximate area of upland review area to be altered: 0

If known, are vernal pools or tidal wetlands located on the property? ?

If yes, where and how many acres (or portion thereof) on the property? _____

Is property located within a Special Flood Hazard Area? no

If yes, where and how many acres (or portion thereof) on the property? 0

Has the property been flagged by a licensed soil scientist yes

If yes, by who, and when? During solar project

Will there be water discharge into wetlands? no

Discharge – Specify Type _____

Please complete the attached State Reporting Form

ADDITIONAL INFORMATION MAY BE REQUIRED DEPENDING UPON THE COMPLEXITY OF THE PROJECT.

State the names of all property owners adjacent to the subject property:

Name of Adjacent Property Owner	Street Address (include Mailing Address if Different)



BEAVER SOLUTIONS

BEAVER SOLUTIONS LLC

PROPOSAL

Michael Callahan and John Egan
14 Mountain Road
Southampton, MA 01073
www.beaversolutions.com

<i>Date</i>
6/23/2023

<i>Estimate #</i>
023001121

<i>Proposal for</i>
Sarah Collin, Lead Groundskeeper Essex Meadows 30 Bokum Road Essex, CT 06426

<i>Project Location</i>
Trail Bridge Dam

<i>Project Description</i>
Pond Level Control

<i>Description</i>	<i>Quantity</i>	<i>Cost</i>	<i>Total</i>
Beaver Conflict Site Assessment - The total cost for a Beaver Conflict Site Assessment which includes an on-site assessment with data collection, analysis, travel, and specific written recommendations with cost estimates for any proposed work. Waived Beaver Solutions fee for the assessment. The total cost is for an expedited and extended on-site assessment by a local beaver contractor.	1	275.00	275.00
Client to clear a path to the beaver dam.			
Pond Leveler - Total labor and material costs for a Pond Leveler pipe system which includes up to 40 ft of 12' dia. ADS pipe. Price includes delivery and installation.	1	1,850.00	1,850.00
Pipe Outlet Exclusion Fence - Total labor and material cost to add an exclusion fence to the outlet end of the Flexible Leveler pipe to prevent interference from the beavers.	1	175.00	175.00
Total			

RECEIVED
JUL 18 2023

BY:



BEAVER
SOLUTIONS

BEAVER SOLUTIONS LLC

PROPOSAL

Michael Callahan and John Egan
14 Mountain Road
Southampton, MA 01073
www.beaversolutions.com

<i>Date</i>
6/23/2023

<i>Estimate #</i>
023001121

<i>Proposal for</i>
Sarah Collin, Lead Groundskeeper Essex Meadows 30 Bokum Road Essex, CT 06426

<i>Project Location</i>
Trail Bridge Dam

<i>Project Description</i>
Pond Level Control

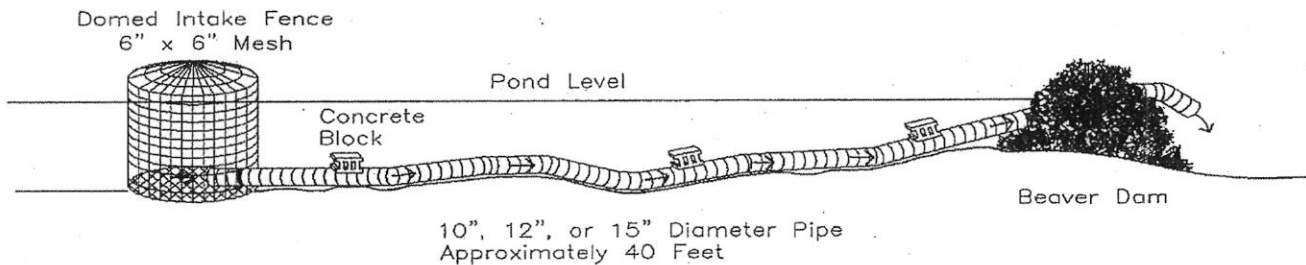
<i>Description</i>	<i>Quantity</i>	<i>Cost</i>	<i>Total</i>
Optional Annual Maintenance Plan - In 2023 the Flexible Pond Leveler will be inspected annually and as needed by Beaver Solutions to ensure it remains effective. Minor repairs are included in price. Our comprehensive Beaver Solutions 'Worry-Free Guarantee' is also included.	1	350.00	350.00
Discount - Partial year and multi-site discounts for the optional annual Maintenance Plan.		-200.00	-200.00
CT Wetlands Permission - Approval from the local Inland Wetlands Commission will be obtained by the client.	0	0.00	0.00
Total			\$2,450.00



BEAVER
SOLUTIONS

Flexible Pond Leveler™

When flooding from a beaver dam threatens human property, health or safety, a Beaver Solutions Flexible Pond Leveler™ pipe system can be a very effective solution. This flow device will create a permanent leak through the beaver dam that the beavers cannot stop. This eliminates the need for repeated trapping despite the presence of beavers.



In order for these pipe systems to be effective, they must be designed so that beavers cannot detect the flow of water into the pipe. The Flexible Pond Leveler™ does this by surrounding the submerged intake of the pipe with a large cylinder of fencing which is placed in as deep water as possible. This prevents the beavers from detecting the flow of water into the pipe. As a result, the beavers do not try to clog the pipe, and a safe water level can be maintained.

The height of the pipe in the dam determines the pond level (see diagram). Water will flow through the pipe unless the pond level drops below the peak of the pipe. The pipe is set in the dam at the desired pond level, and can be adjusted up or down if necessary.

Unlike road culverts, Flexible Pond Leveler™ pipes do not need to be sized to handle catastrophic storm events because heavy storm runoff will simply flow over the top of the dam. Following the storm the pipe will return the pond to the normal level.

When installing a pipe system it is very important to lower a pond only enough to protect human interests. The more a pond is lowered the more likely it is beavers will build a new dam to render the pipe ineffective. Lowering a beaver pond by up to one vertical foot is generally not a problem.

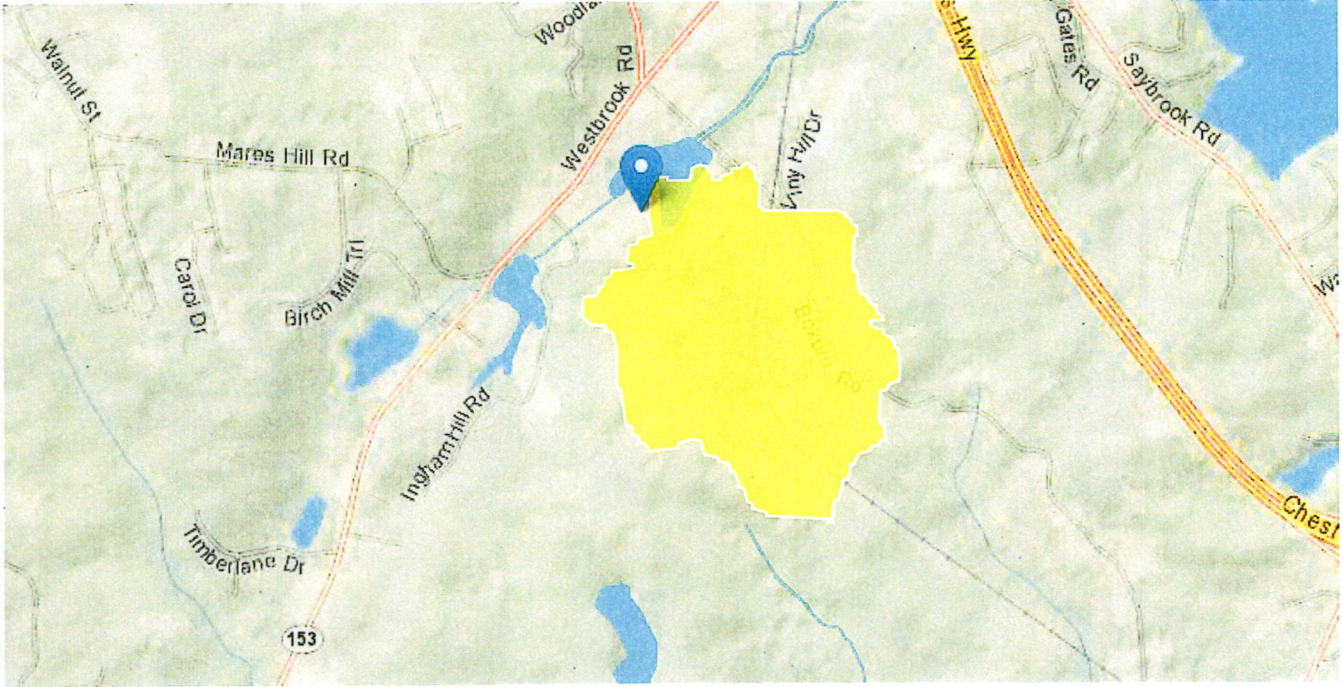
Whenever a freestanding dam must be lowered by two feet or more, a single round of trapping may be needed prior to installing the pipe. Following trapping new beavers relocating into the area are more likely to tolerate the smaller pond without new problematic dam building because they do not have the memory of the larger pond.

With routine maintenance this flow device will remain effective for many years. Since our customer's satisfaction and our reputation are very important to us, we offer an optional low cost Maintenance Plan which includes our "Worry-Free Guarantee" at no additional cost. However, if you prefer to do the maintenance, we are always available to answer any questions at no charge because we are committed to long term success, your satisfaction and our good reputation.

*May be reproduced courtesy of Mike Callahan, Owner
Beaver Solutions LLC, "Working With Nature"*

StreamStats Report

Region ID: CT
Workspace ID: CT20230622202512698000
Clicked Point (Latitude, Longitude): 41.33575, -72.41434
Time: 2023-06-22 16:25:35 -0400



[+ Collapse All](#)

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.49	square miles

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.15.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1





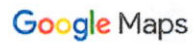


Imagery ©2023 Airbus, Maxar Technologies, U.S. Geological Survey, USDA/FPAC/GEO, Map data ©2023 200 ft

Google Maps



Imagery ©2023 Airbus, Maxar Technologies, U.S. Geological Survey, Map data ©2023 50 ft



Imagery ©2023 Airbus, Maxar Technologies, Map data ©2023 20 ft











