

Individual Permit Application

For a **Lake Encroachment Permit** under

Chapter 11 of Title 29, § 401 *et seq.*



For Lake Encroachment Permitting Use Only

Application Number: **2132-LP**

Submission of this application constitutes notice that the person in Section B intends to encroach beyond the mean water level of a lake or pond, and certifies that the project will comply with Chapter 11 of Title 29, § 401 *et seq.* All information required on this form must be provided, and the requisite fees (Section I) must be submitted made payable to the State of Vermont, to be deemed complete.

A. Project Information

1. Physical Address (911 Address): 864 Old 5A

2a. Town- County: Westmore - Orleans

2b. Zip: 05860

3. Span (School Parcel Account Number is required for your application to be deemed complete. It can be obtained from your property tax bill. If you cannot locate your property tax bill, please obtain this information from your Town Clerk)

729-232-10020

4. Name of Lake/Pond: Willoughby Lake - Westmore

5. Have you ever applied for a permit with the Department of Environmental Conservation associated with this parcel? Yes No

B. Applicant (Landowner if applicable) Contact Information

1. Name: Mark H. Dalzell

2a. Mailing Address: 328 South Westgate Ave

2b. Town: Los Angeles

2c. State: CA

2d. Zip: 90049

3. Phone: 310-977-4215

4. Email: mrkdzlz@gmail.com

C. Application Preparer Contact Information:

1. Name: Ruggles Engineering Services, Inc.

2a. Mailing Address: 5480 Memorial Drive

2b. Town: St. Johnsbury

2c. State: VT

2d. Zip: 05819

3. Phone: 802-748-5898

4. Email: nate.res@myfairpoint.net

D. Abutting Land Owners

Using the abutter addendum available on dec.vermont.gov, attach a list of land owners who abut the proposed project.

E. Project Description

1. Describe the proposed project including the description of the materials and mechanical equipment which may be used during construction and the anticipated work schedule. Identify whether or not the project includes placement or removal of fill and if so, specify the number of cubic yards of fill or dredged materials to be placed or removed beyond the shoreline at mean water level. **The "Section 1" concrete cap will not exceed 6 inches. mbs 9/19/16**

The project includes two sections of stabilization and repair of an existing concrete foundation. The foundation is part of a seasonal camp and boat house. Section one of the foundation is approximately 24 inches tall by 30 feet long and is battered approximately 6-8 inches. The repair requires approximately 1.5 cubic yards of concrete and reinforcing bar. Section two is a undermined section approximately 7 feet long by 2 feet deep under the slab. Concrete and rebar will be approximately 0.5 cubic yards. The total volume below ordinary high water is approximately 1.5 cubic yards. The work may take up to a week and would be best completed during low water conditions. **According to Ruggles Engineering the term "battered does not mean damage, battered is an engineering term for the receding slope of a wall. This is a method to reduce active overturning due to lateral loading and is historically used in gravity retaining walls." mbs 8/9/16**

2. Describe the purpose of the proposed project:

Stabilize a seasonal camp and boathouse constructed in 1933.

3. Describe what less intrusive feasible alternatives have been considered:

None, there are no less intrusive alternatives for the repair. Concrete requires the least amount of structural space for support other than stone or rock fill which would require a significantly larger volume.

According to Ruggles Engineering in 8/9/16 email: "Any movement of existing superstructures could have negative unknown consequences. These structures are also very heavy and are not accessible by heavy equipment. Cutting and removing would be very difficult. Jackhammering with hand tools could take a significant amount of time and debris containment would be extensive. Time is of the essence to complete a construction project at and below lake level, especially on the east shore of the lake which take the brunt of the wind action." mbs 9/19/16

4. Describe the public benefits of the proposed project:

Property protection which also maintains the tax base.

F. Encroachment Effects (describe how the proposed project will affect the following)

1. What measures are proposed to minimize the project's effects on water quality (e.g., use of a turbidity curtain)?

Forms to be constructed by a contractor that has foundation wall experience which should minimize the chance for a blow out. Forms will be sealed as much as possible to contain the concrete such that the mixture does not enter the water or the water does not contaminate the integrity of the concrete which could cause future premature failure. Vegetable Oil or NSF approved form will be used as the release agent on the wooden forms.

2. How will the project minimize effects to fish and wildlife habitat (e.g., project is not to commence until after fish spawning July 1 of any calendar year)?

There will be no impact to fish and wildlife habitat.

3. Does the project propose removal of aquatic or shoreline vegetation? If so, what measures are proposed to reduce the effects of vegetation removal?

None.

4. Describe the surrounding shoreline. Is the project consistent with these surroundings? What measures are proposed to ensure the project is in-keeping with the surroundings?

1:1 or 1:0 slopes of granite boulders or stone walls around the building or patio area. No measures are proposed to ensure the project is in-keeping with the surrounding other than repair of the existing structure is maintained.

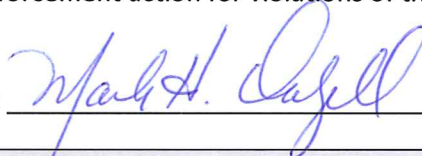
5. Will the project affect navigation, recreation, and other public uses? If so, how will these effects be minimized?

No

G. Applicant Certification

As APPLICANT, I hereby certify that the statements presented on this application are true and accurate and recognize that by signing this application, I agree to complete all aspects of the project as authorized. I understand that failure to comply with the foregoing may result in violation of the Chapter 11 of Title 29, § 401 *et seq.*, and the Vermont Agency of Natural Resources may bring an enforcement action for violations of the Act pursuant to 10 V.S.A. chapter 201.

Applicant (landowner if applicable) Signature: _____ Date: _____



June 21, 2016

I. Applicant Preparer Certification (if applicable)

As APPLICATION PREPARER, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Application Preparer Signature: _____ Date: _____



6/28/16

J. Additional Required Documentation: (please check to ensure you have completed the following)

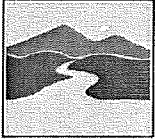
- All sections of the application are complete or otherwise indicate "not applicable";
- Application includes site plans with aerial and cross section views;
- Application description includes dimensions and surface areas of cleared areas and impervious surfaces; and
- Application includes photos of project area.

K. Permit Application Fees		
Select the most applicable permit description and requisite fee. If the proposed project involves more than one of the project types, multiple fees may apply. For example, a project involving structural erosion control and marina improvement will require both fees (2) and (3).		
1. Non-structural erosion control project (e.g., rip rap):		
Non-structural erosion control project: \$155.00		
Total:		
2. Structural erosion control project		
Structural erosion control project: \$250.00		\$ 250.00
Total:		\$ 250.00
3. Other Projects (e.g., marina improvements):		
Other Project: \$300.00		
Project Cost Fee: 0.01 times project cost	Total Project Cost: _____ x 0.01	
Total:		\$ 250.00

Submit this form and application fee, payable to:
State of Vermont
Vermont Department of Environmental Conservation
Watershed Management Division
1 National Life Dr, Main 2
Montpelier, VT 05620-3522

Direct all correspondence or questions to Lake Encroachment Permitting at:
ANR.WSMDShoreland@vermont.gov

For additional information visit: <http://dec.vermont.gov/watershed/lakes-ponds>



VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED
MANAGEMENT DIVISION
LAKES & PONDS PROGRAM

Lake Encroachment Application Addendum

For a Lake Encroachment Permit

Chapter 11 of Title 29, § 401 *et seq.*

This Abutting Land Owner Addendum is intended to accompany a completed *Lake Encroachment Permit Application* in instances of a proposed lake encroachment abutting land owners other than the applicant.

I. Abutting Land Owner Information

1. Name: Walter Cowles

Address: 2600 Russel Cave Road, Lexington, KY 40511

2. Name: Steven Plume

Address: 268 Loveland Hill Road, White River Jct., VT 05001

3. Name:

Address:

4. Name:

Address:

5. Name:

Address:

6. Name:

Address:

7. Name:

Address:

8. Name:

Address:

9. Name:

Address:

10. Name:

Address:

Submit this form as an addendum to a complete Lake Encroachment Application to:

State of Vermont
Vermont Department of Environmental Conservation
Watershed Management Division
Lake Encroachment Permitting 1
National Life Drive, Main 2
Montpelier, VT 05620-3522

Direct all correspondence or questions to Lake Encroachment Permitting at:
ANR.WSMDSshoreland@vermont.gov

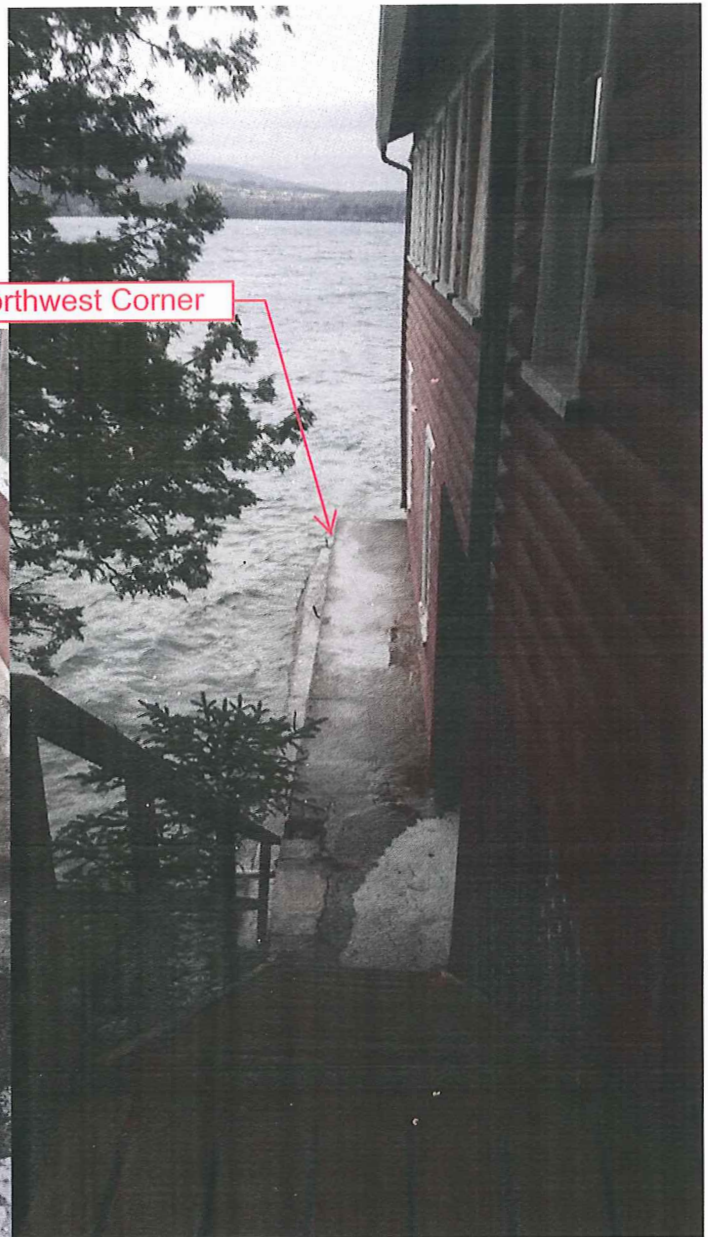
For additional information visit: <http://dec.vermont.gov/watershed>

"Section 1" - capping existing compromised foundation with 6" new concrete. mbs 9/22/16

Northwest Corner



Northwest Corner



"Section 2" (below) - fixing undermined portion of foundation. mbs 9/22/16

Northwest Corner



Northwest Corner



Dalzell Camp

Aerial Image

Site Location of
Repair
864 Old 5A Rd
Westmore

Legend



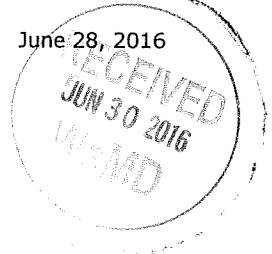
Transmittal Letter



RUGGLES ENGINEERING SERVICES INC.

4580 Memorial Drive, St. Johnbury, VT 05819 (802) 748-5898, www.rugglesengineeringservices.com

June 28, 2016



To:

ANR Lake Encroachment Permitting 1
 One National Life Drive, Main 2
 Montpelier, VT 05620-3522

Attention:

Re: Dalzel, Lake Willoughby

Job Number:

We are sending you			
<input checked="" type="checkbox"/> Attached	<input type="checkbox"/> Under Separate Cover via: the following:		
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input checked="" type="checkbox"/> Other:
<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Change Order	<input type="checkbox"/> Samples	<i>App.</i>
<input type="checkbox"/> Total Quantity	<input type="checkbox"/> Reproducible	<input type="checkbox"/> Specification	

	Quantity	Date	DWG. #	Description
	1			Individual Permit Application

These are transmitted as checked below		
<input checked="" type="checkbox"/> For Approval	<input type="checkbox"/> Approved as Submitted	<input type="checkbox"/> Resubmit copies for approval
<input type="checkbox"/> For Your Use	<input type="checkbox"/> Approved as Noted	<input type="checkbox"/> Submit [#] copies for distribution
<input type="checkbox"/> As Requested	<input type="checkbox"/> Returned for Corrections	<input type="checkbox"/> Return [#] corrected prints
<input type="checkbox"/> For Review and Comment	<input type="checkbox"/> Revise and Resubmit/Work May Not Proceed	
<input type="checkbox"/> FOR BIDS DUE: [Type text here]	<input type="checkbox"/> PRINTS RETURNED AFTER LOAN	

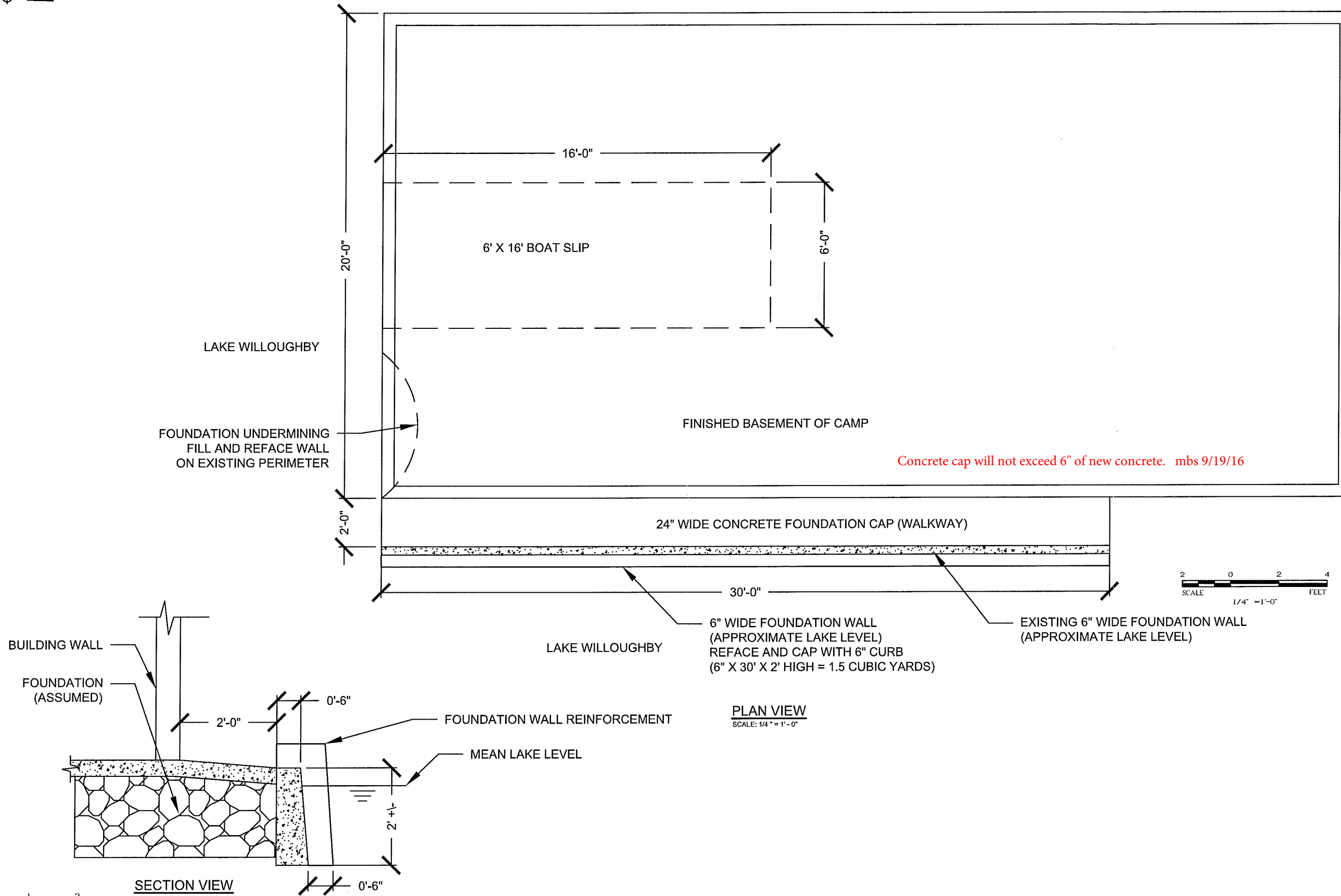
Comments:

Individual Permit application attached, fee, abutter addendum, plans and photos

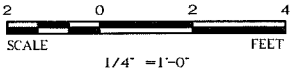
Copy to:

Nathan P. Sicard, P.E.

C:\Users\Sicard\Desktop\Projects\Dalzell,K\C.ADD\Water and Wastewater Plan.dwg-2016/06/23

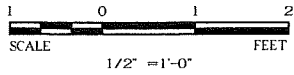


Concrete cap will not exceed 6" of new concrete. mbs 9/19/16



PLAN VIEW
SCALE: 1/4" = 1'-0"

SECTION VIEW
SCALE: 1/2" = 1'-0"



RUGGLES ENGINEERING SERVICES, INC.
4890 MEMORIAL DRIVE, ST. JOHNSBURY, VT 05819
Civil Engineering- Site Permitting
Water, Sewer and Stormwater System Design
JOB No. 160317

PREPARED FOR: **DALZELL, MARK**
Address: 864 OLD 5A, WESTMORE, VT

FOUNDATION REPAIR PLAN
SHORELAND PERMIT

No.	Date	Description

Designed: NPS
Drawn: -
Checked: -
DATE: 6/20/16