

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

Shoreland Permit Application
 for a Shoreland Protection Permit under
 Chapter 49A of Title 10, § 1441 et seq.

For Shoreland Permitting Use Only

Application Number: **2186-SP**

Public Notice: At the same time this application is filed with Shoreland Permitting, a copy of this application must be provided to the municipal clerk for posting in the municipality in which the project is located.

Submission of this application constitutes notice that the person in Section A intends to create impervious surface and/or cleared area within the Protected Shoreland Area, and certifies that the project will comply with Chapter 49A of Title 10, § 1441 et seq. All information required on this form must be provided, and the requisite fees (Section G) must be submitted made payable to the State of Vermont, to be deemed complete. Refer to The Vermont Shoreland Protection Act - A Handbook for Shoreland Development and related instructions for guidance in completing this application.

A. Parcel Information

Landowner's Name: Camelot Lake House, LLC

2a. Physical Address (911 Address): 1435-1485 Pelots Point Road

2b. Town - County: North Hero - Grand Isle

2c. Zip: 05474

3. SPAN (The 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) : 444-140-10711 (#1485), 444-140-10712 (#1435)

4. Phone: 816-935-1251

5. Email: cparker@scanamcorp.com

6. Name of Lake/Pond: Champlain Lake (Isle La Motte) - Alburg

7. Total Shore Frontage 437 (Feet)

8. Was the parcel of land created before July 1, 2014? Yes No

9. Are there wetlands associated with this parcel? Yes No

Contact the Wetlands Program (802) 828-1535 or <http://dec.vermont.gov/watershed/wetlands>

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

11. What is the surface area of your parcel within the Protected Shoreland Area (PSA): 110,494 (square feet)
 See the Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix C, Determining Lakeside Zone & PSA

12. What is the surface area of existing impervious surface on your parcel within the PSA: 8,692 (square feet)
 See the Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix F, Calculating Percent Impervious Surface

13. What is the surface area of existing cleared are on your parcel within the PSA: 82,157 (square feet)
 See the Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing

B. Applicant Contact Information

1. Name: Camelot Lake House, LLC

2a. Mailing Address: c/o Charles R. & Ann C. Parker, 9505 N. Congress Ave.

2b. Town: Kansas City

2c. State: MO

2d. Zip: 64153

3. Phone: 816-935-1251

4. Email: cparker@scanamcorp.com

C. Application Preparer Information (If the individual preparing the application is not the landowner.)

1. Name: John M. Buermann, Jr., P.E.

2a. Mailing Address: Buermann Engineering, LLC, 7 Sanderson Road

2b. Town: Milton

2c. State: Vermont

2d. Zip: 05468

3. Phone: 802-893-1308

4. Email: jay@belvt.com



D. Project Description

1. Describe the proposed project. For this application to be considered administratively complete you must attach site plans that denote existing and proposed cleared areas and impervious surface and their distances from mean water level, no fewer than three photos of the project area, and dimensions and associated surface areas of cleared areas and impervious surfaces.

About 260 linear feet of shoreline on the subject property is unstable and at imminent risk of collapse, as shown in the attached photos. The project proposes to place a stabilized riprap slope along about 230 linear feet of the shoreline, carefully placing the stone in two lifts to support the existing bank and overhanging trees, as shown in the "Stabilized Bank Typical Section" on Sheet 2 of the project plans. The southerlymost 30 linear feet of the project currently displays a layer of loose shale above solid ledge. In this area we propose to remove the loose material and regrade the top of the bank to a 1:4 maximum slope, as shown in the "Cut Bank Typical Section". This work along the entire bank will necessarily disturb some of the smaller brush growing on/above the bank; the project therefore proposes to restore the disturbed areas to no-mow zones, with an aggressive erosion control matting and supplemental plantings to enhance the bank stabilization and establish a functional wildlife corridor.

2. For developed parcels, how far is the existing habitable structure from Mean Water Level 190+/- (feet), and how far will new cleared area or impervious surface be from MWL 10+/- (feet)?

OR
For undeveloped parcels, how far will new cleared area or impervious surface be from MWL _____ (feet)?

See the Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix A – Estimating Mean Water Level

3. Can all new cleared area or impervious surface be set back at least 100 feet from MWL? Yes No

If no, explain why below (attach support information as needed):

The bank to be stabilized is along the lakeshore, the result of ongoing lake erosion.

4a. What is the slope of the project site area: 100+ %

See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix B, Determining Slope

4b. Is the slope of the project area less than 20%?

Yes No If yes, skip 4c.

4c. If no above (4b), describe the measures taken to ensure the slope is stable, resulting in minimal erosion and impacts to water quality (attach support information as needed):

The existing lakeshore bank varies from extremely steep to vertical, and in a couple places is undercut. The proposed stabilization project is designed to reduce this slope, primarily by placing heavy riprap to support the existing bank and distribute the bearing weight of the bank more evenly along the existing shoreline. Secondly, this riprap also serves to armor the shoreline against wave action in high water conditions.

5a. What is the surface area of new impervious surface associated with this project: 0.00 (Square Feet)

See the Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix F, Calculating Percent Impervious Surface.

5b. What is the total resulting impervious surface after completion of the project and prior to implementation of best management practices: 8,692 s.f. (Square Feet)

For D5b, add A12 to D5a

5c. Is the total in 5b. 20% or less of the parcel area within the PSA? Yes (if yes, skip 5d.) No

If 5a is 0, check the n/a box, otherwise divide D5b by A11 and multiply by 100 for percentage. Total percentage = N/A % N/A

5d. If no above (5c), describe the best management practices used to manage, treat, and control erosion from stormwater from the portion of impervious surface that exceeds 20% (attach support information as needed):

6a. What is the surface area of new cleared area associated with this project: <u>2,115</u> (Square Feet) <small>See the Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing.</small>	6b. What is the total resulting cleared area after completion of the project and prior to implementation of best management practices: <u>84,272 sf</u> (Square Feet) <small>For D6b, add A13 to D6a</small>
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6c. Is the total in 6b. 40% or less of the parcel area within the PSA? Yes (if yes, skip 6d.) No
If 6a is 0, check the n/a box, otherwise divide D6b by A11 and multiply by 100 for percentage. Total percentage = 76.3 % N/A

6d. If no above (6c), establishing vegetative cover (revegetation) is the only applicable best management practice. Please describe a revegetation plan that will be equal to or greater in surface area than the proposed new cleared area as identified in 6a. Identify the location on the parcel where the revegetation will occur and how far from mean water level it will be (attach support information as needed).

This project proposes to restore all areas disturbed by construction to no-mow zones, resulting in a no-net-loss of vegetative cover. In the stabilized bank areas, the resulting plateaus will be topsoiled and seeded, then covered with biodegradable erosion control matting. It is expected that some of the topsoil will settle into the voids of the stone fill, encouraging anchoring growth to initiate within the stones as occurs naturally along the shore. The erosion matting provides additional media for growth to initiate on top of the fill. Proposed revegetation in the cut bank area is similar, but also enhanced with planting of indigenous shrubs and/or trees to expedite restoration.

E. Landowner 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 Shoreland Protection Act, 10 V.S.A. Chapter 49A, 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 Signature: *Emily M. Parker* **Date:** Sept 13, 2016

F. Application 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: *John M. Buerger* BUERMAYER ENGINEERING, LLC
LLC MEMBER **Date:** 08 SEPT 2016

G. 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 denoting existing and proposed cleared area and impervious surface and distances from mean water level
- Application description includes dimensions and surface areas of cleared areas and impervious surfaces Application includes photos of project area

H. Permit Application Fees

Administrative Fee: \$125.00		125.00
Impervious Area Fee: \$0.50 per square ft.	Enter new impervious area as entered in item (5a) _____ x 0.5	
Total Fee due:		

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

RECEIVED & Posted
9/13/16
Pete Johnson - North Hero Town Clerk

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

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

BUERMANN ENGINEERING, LLC

7 Sanderson Road, Milton, VT 05468

Tel.: (802) 893-1308

www.belvt.com

e-mail: jay@belvt.com

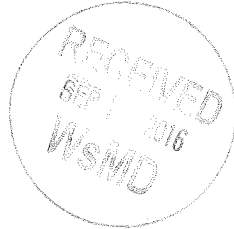
TRANSMITTAL LETTER

September 8, 2016

To: Charles & Ann Parker
1485 Pelots Point Road
North Hero, VT 05474

From: Jay Buermann, P.E.
Buermann Engineering, LLC
107 Allen Road
Grand Isle VT 05458

COPY



Re: Slope Stabilization Design, Permitting & Construction Oversight.

Please find enclosed:

Two sets of project plans, Sheets 1 and 2 of 2, dated 9/7/2016;
Shoreland Permit Application; and
2 copies of Site Photos.

Dear Charlie,

Please check over enclosed application and documents, then process and submit as follows:

1. Sign and date Page 3 of the application as Landowner.
2. Bring the application to the North Hero Town Offices. Ask the Town Clerk to sign and date the bottom of Page 3, noting that the application is posted on this date. Leave a copy of the application at the Town Offices for public posting – retain the original of the application (which now has your original signature, as well as the Town Clerk's signature).
3. Make another copy of this application for your records.
4. Submit one set of plans, one copy of the Site Photos, the original application, and the application fee (\$125.00 payable to "State of Vermont") to:
Vermont DEC Watershed Management Division
Shoreland Permitting
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

I generally try to minimize the number of plans I distribute until the permit is issued, but let me know if/when you need more and I'll get them to you. Please feel free to call me with any questions or concerns, and thank you for this opportunity to be of service.

Enclosures

c:\719\160908xmcp

CAMELOT LAKE HOUSE, LLC

Site Photos, September 6, 2016

Refer to Project Plans, Sheet 2, for location and alignment of photos



Photo #1



Photo #2

**Camelot Lake House, LLC
Site Photos, September 6, 2016
Page Two**



Photo #3



Photo #4

**Camelot Lake House, LLC
Site Photos, September 6, 2016
Page Three**



Photo #5

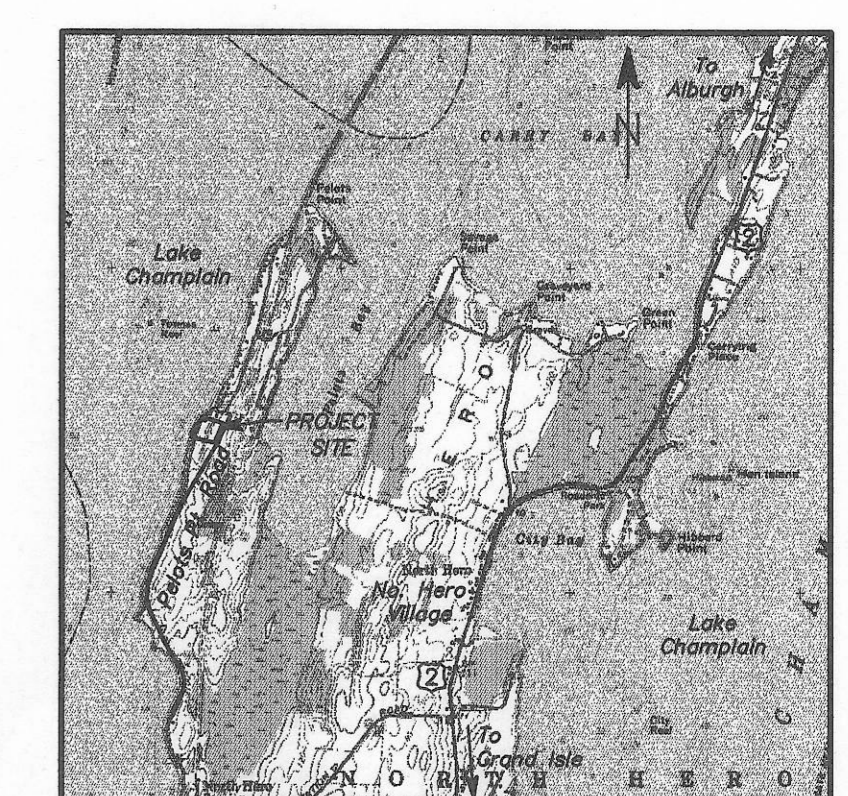
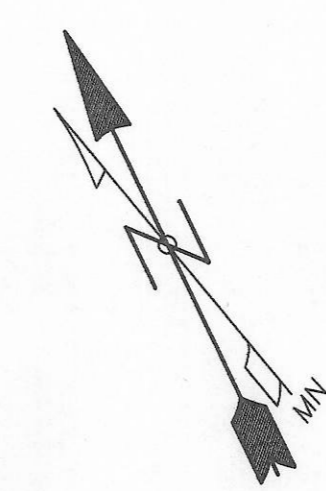


Photo #6

**Camelot Lake House, LLC
Site Photos, September 6, 2016
Page Four**



Photo #7



LOCATION MAP
N.T.S.

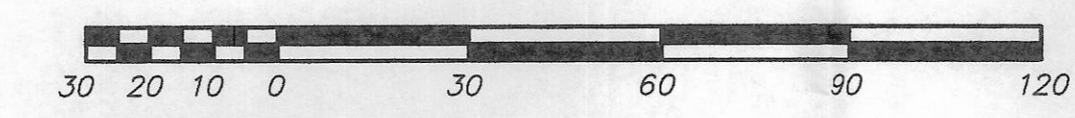
SHORELAND IMPACT SUMMARY

	AREA	MIN. SETBACK TO MEAN LOW WATER ELEV.
EXISTING CLEARED AREA (WITHIN PROTECTED SHORELAND AREA, PSA)	82,157 S.F.	0 FT.
PROPOSED TEMPORARY CLEARING WITHIN PSA; THESE AREAS WILL BE RESTORED TO NO-MOW ZONES	2,115 S.F.	10 FT.
EXISTING IMPERVIOUS AREA (WITHIN PSA; NO CHANGE PROPOSED)	8,692 S.F.	3 FT. (CONC. RAMP)

NOTES

1. THESE DRAWINGS ARE PREPARED FOR PERMITTING REVIEW ONLY.
2. AS INSTRUMENTS OF SERVICE THESE DRAWINGS AND COPIES THEREOF ARE PROPERTY OF THE ENGINEER, BUERMANN ENGINEERING, LLC. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ENGINEER.
3. IT IS THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO ENSURE THAT THESE PLANS CONTAIN THE MOST RECENT REVISIONS.
4. THE CONTRACTOR SHALL BE INSURED FOR THE WORK TO BE PERFORMED, AND SHALL BE PREPARED TO PROVIDE THE OWNER WITH A CERTIFICATE OF INSURANCE PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (888)344-7233 AT LEAST FORTY-EIGHT HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE AWARE THAT OTHER BURIED UTILITIES OR STRUCTURES, NOT SHOWN ON THESE PLANS AND/OR NOT LOCATED BY DIG-SAFE, MAY EXIST ON THIS SITE.
6. BUERMANN ENGINEERING, LLC HAS NOT PERFORMED ANY ENVIRONMENTAL SITE ASSESSMENTS ON THE SUBJECT PROPERTY, AND MAKES NO CLAIMS ABOUT THE POSSIBLE PRESENCE OR ABSENCE OF HAZARDOUS MATERIALS ONSITE. THE PROPERTY APPEARS TO BE SUBJECT TO VERMONT WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT #WW-6-2569.
7. THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED LAKESHORE STABILIZATION, TO REDUCE THE POTENTIAL OF CONTINUING EROSION.
8. BOUNDARY INFORMATION SHOWN IS APPROXIMATE, BASED UPON INFORMATION FROM THE OWNERS, FIELD EVIDENCE FOUND, A "PLAT OF SURVEY SHOWING BOUNDARY LINE ADJUSTMENT, CHARLES & ANN PARKER PROPERTY..." (DATED APRIL 9, 2005 BY WARREN A. ROSENSTEN, L.S., AS RECORDED AT SLIDE 152B OF THE NORTH HERO LAND RECORDS), AND NORTH HERO TAX MAPS. DIMENSIONS AND LOCATION OF THE NORTHERLY RESIDENCE ARE FROM TOWN LISTERS' FILES, AND APPROXIMATE TRELINES ARE FROM AERIAL PHOTOGRAPHY. LAKESHORE TOPOGRAPHY SHOWN WAS OBTAINED BY BUERMANN ENGINEERING, LLC ON MAY 18, 2016. THE PROPERTY LINES, EASEMENTS, AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED IN THIS PERMIT APPLICATION ARE FOR THE USE OF THE PERMITTING AUTHORITIES ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 26 V.S.A. SECTION 2502(4), AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT.

GRAPHIC SCALE
(IN FEET)



LEGEND

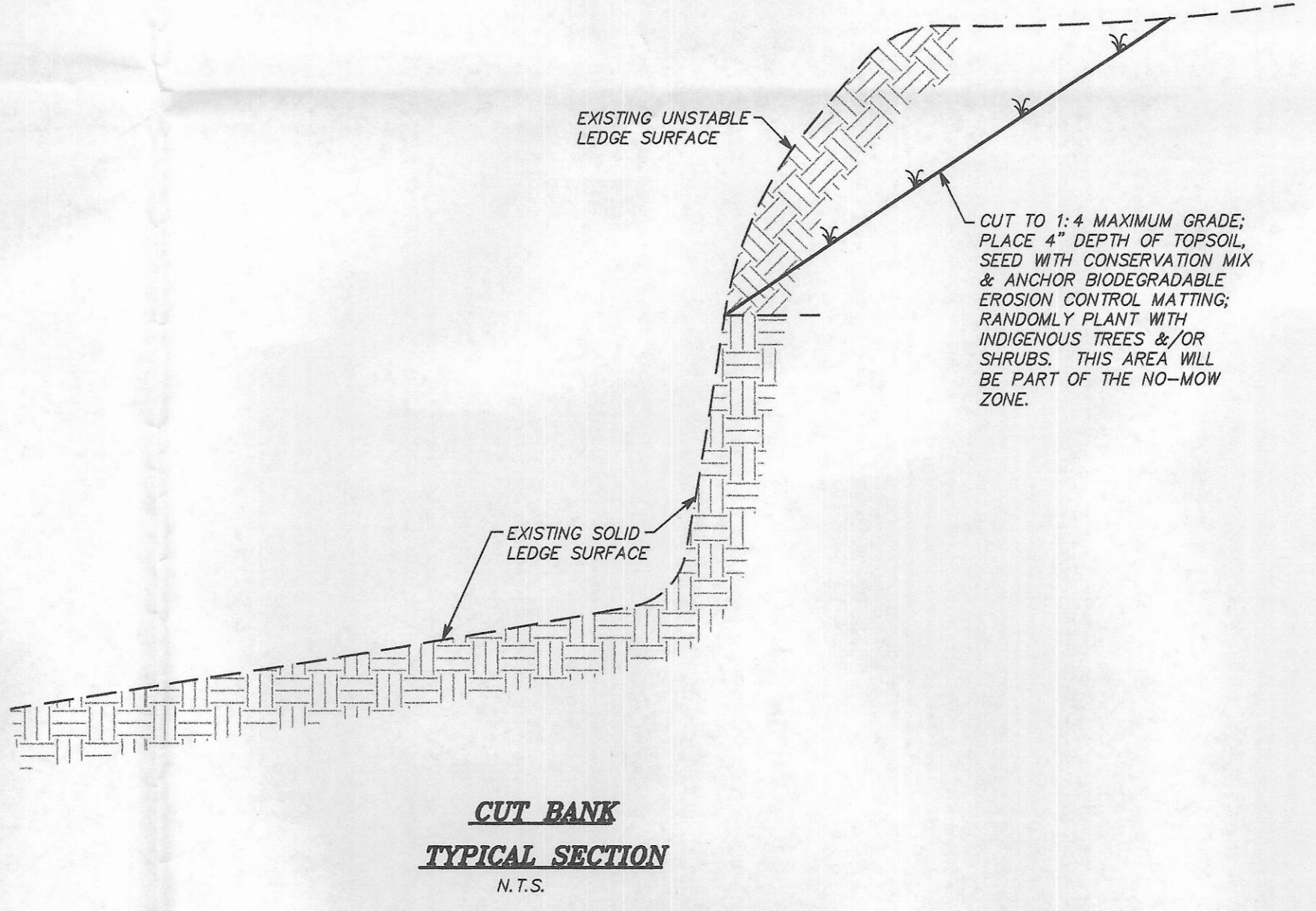
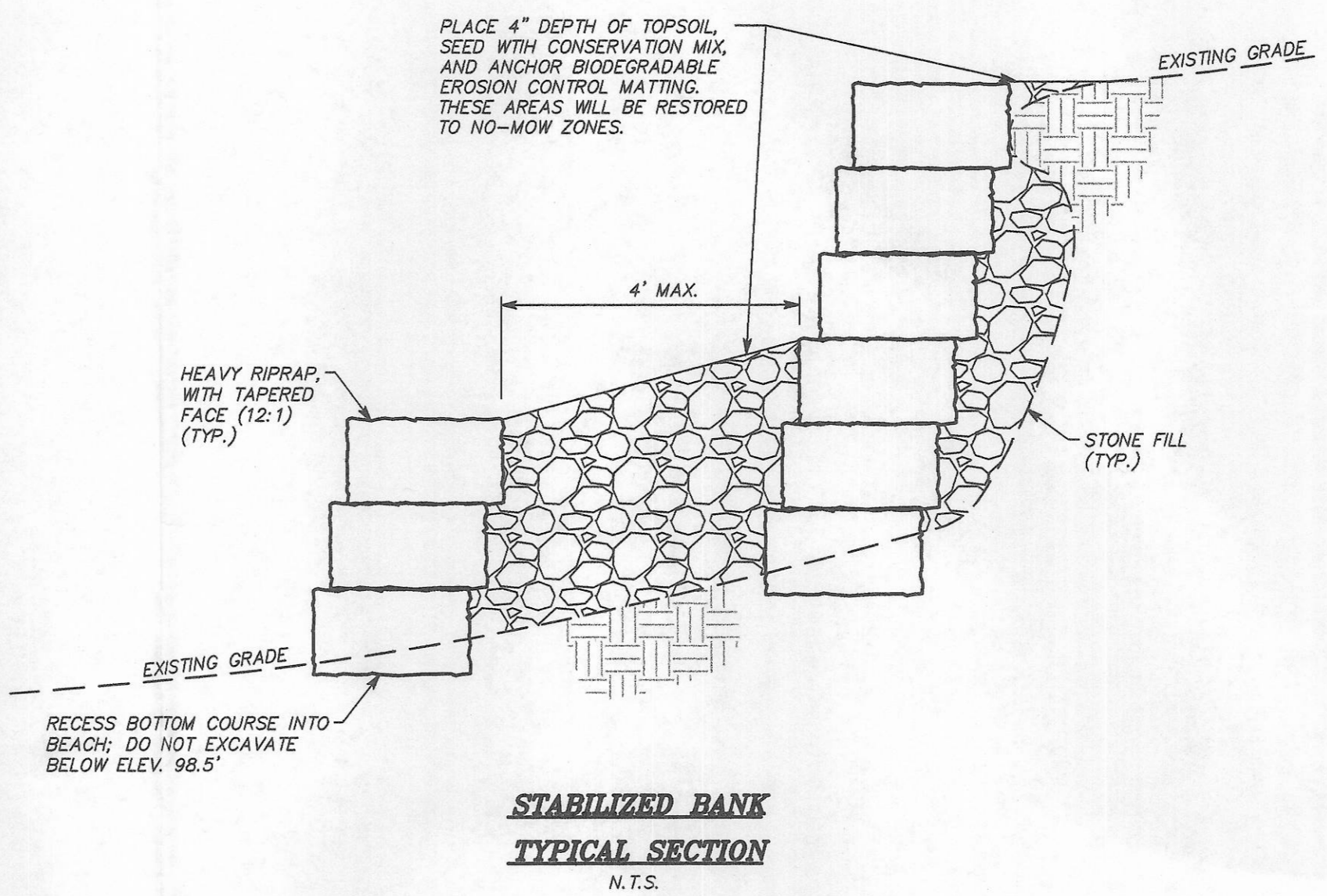
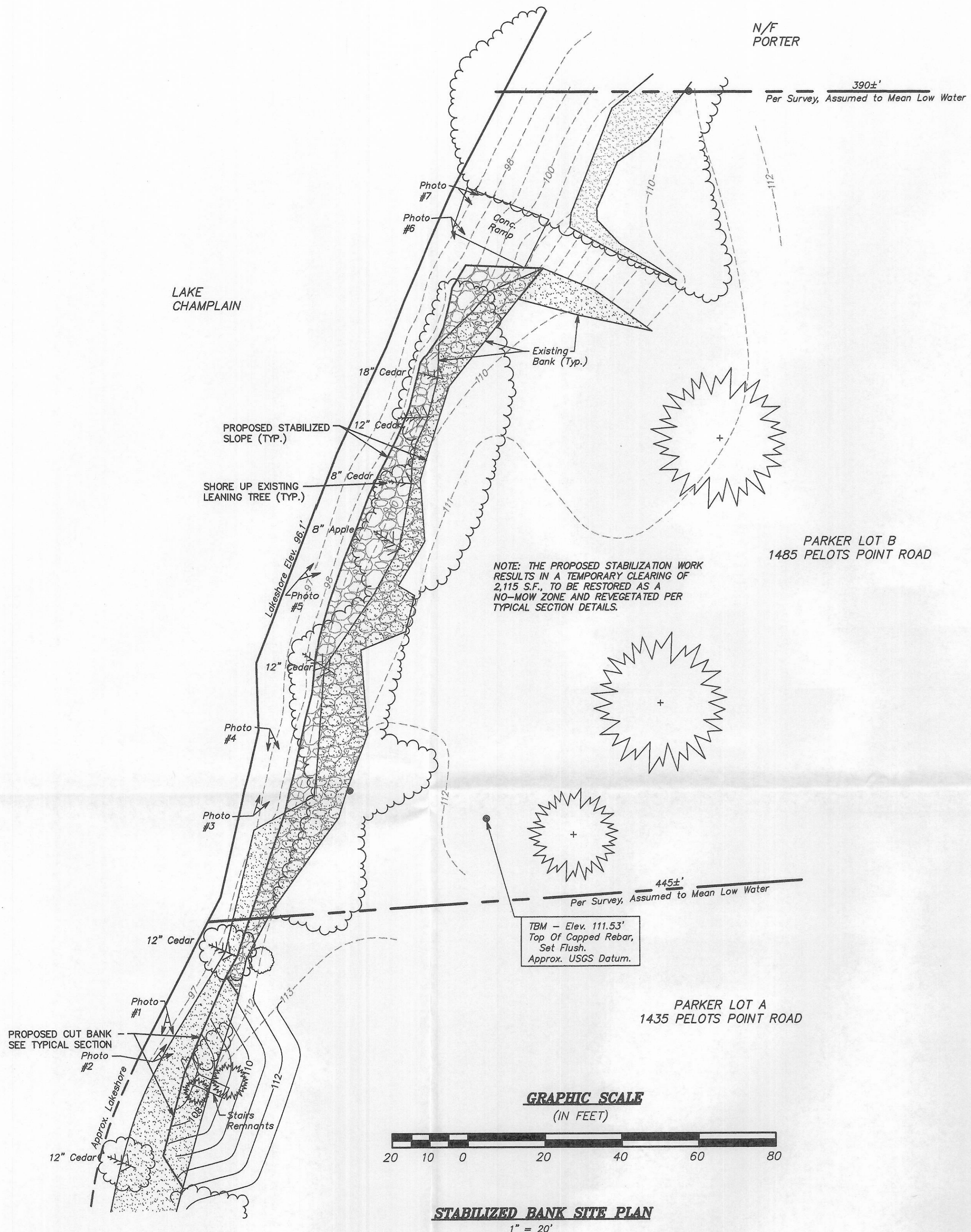
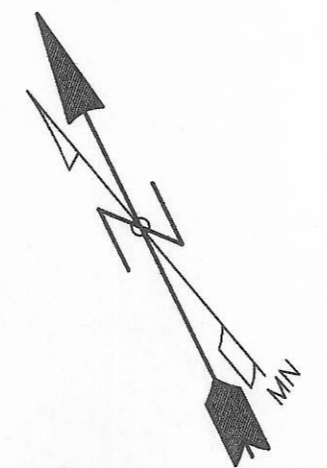
Note: Existing site features are generally labelled on the plans with italicized, lower case text, while upper case, block-style text generally denotes proposed features.

- 49.4 ——— PROPERTY LINE
- 49.4 --- CONTOUR (EXISTING)
- 503.8 IRON PIPE OR REBAR
- 503.8 SPOT ELEVATION

OWNER OF RECORD


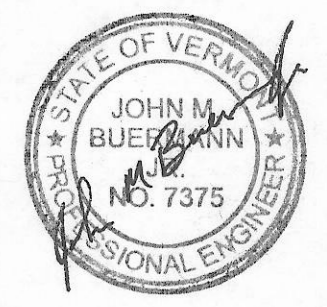
CAMELOT LAKE HOUSE, LLC
 c/o CHARLES R. & ANN C. PARKER
 9505 N. CONGRESS AVE., KANSAS CITY, MO 64153
 PER QUITCLAIM DEED RECORDED AT VOLUME 99, PG. 328-332
 OF THE NORTH HERO LAND RECORDS.
 TAX PARCEL ID NO. 07-01-01, 4.15 ACRES.
 1435 PELOTS POINT ROAD, SPAN 444-140-10712,
 1485 PELOTS POINT ROAD, SPAN 444-140-10711.

PROPERTY PLAN CAMELOT LAKE HOUSE, LLC 1435-1485 PELOTS POINT ROAD NORTH HERO, VERMONT	Date 9/7/2016
	Project Number 719
	Plan Scale 1" = 30'
Sheet 1 of 2	©
 BUERMANN ENGINEERING, LLC 7 Sanderson Road, Milton, Vermont 05468	
Tel.: (802) 893-1308	www.belvt.com



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6. BUERMANN ENGINEERING, LLC HAS NOT PERFORMED ANY ENVIRONMENTAL SITE ASSESSMENTS ON THE SUBJECT PROPERTY, AND MAKES NO CLAIMS ABOUT THE POSSIBLE PRESENCE OR ABSENCE OF HAZARDOUS MATERIALS ONSITE.
7. REFER TO SHEET 1 FOR PLAN LEGEND, ADDITIONAL NOTES AND REFERENCES.

STABILIZATION PLAN & DETAIL		Date 9/7/2016
CAMELOT LAKE HOUSE, LLC		Project Number 719
1435-1485 PELOTS POINT ROAD NORTH HERO, VERMONT		Plan Scale AS SHOWN
		Sheet 2 of 2
 BUERMANN ENGINEERING, LLC 7 Sanderson Road, Milton, Vermont 05468		
Tel.: (802) 893-1308 www.belvt.com		S01R00 SEP 07 2016