Version: March 2015

OCT 1 3 2015

(feet)

#### Shoreland Permit Application for a Shoreland Protection Permit under

Chapter 49A of Title 10, § 1441 et seq.

For Shoreland Permitting Use Only Application Number: 213



WATERSHED MANAGEMENT DIVISION LAKES & PONDS PROGRAM

3. SPAN\*: 138-043-10496

7. Total shore frontage: 1.260.00

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		5	10/30/15 KB
1. Landowner's Name:	Tom & Michelle Tiller	1	
The second se		11 1	

2a. Physical Address (911 Address): 362 Hotems Road Holm < 5 KOAD

2c. Zip: 05445 2b. Municipality: Charlotte 5. Email: tomtiller1@gmail.com

4. Phone: 970-481-6676

Name of lake/pond: Lake Champlain

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

9. Are there wetlands associated with this parcel? Yes No Contact the Wetlands Program: (802) 828-1535 or www.anr.state.vt.us/dec/waterq/wetlands.htm.

Yes No Permit #: 10. Is there a lake encroachment permit associated with this project? Contact Lake Encroachment Permitting: www.anr.state.vt.us/dec/waterg/permits/htm/pm\_encroachment.htm

11. What is the surface area of your parcel within the Protected Shoreland Area (PSA): 342,057 (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: 8,491 (square feet) See The Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix F, Calculating Percent Impervious Surface

(square feet) 13. What is the surface area of existing cleared area on your parcel within the PSA: 45,352 See The Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing

#### **B. Applicant Contact Information**

1. Name: Tom Tiller

2a. Mailing Address: 27663 N. 103rd Place

2b. Municipality: Scottsdale	2c. State: Arizona	2d. Zip: 85262	
3. Phone:	4. Email: tomtiller1@g	4. Email: tomtiller1@gmail.com	
C. Application Preparer Information (If the 1. Name: David S. Marshall, P.E. at Civil E	e individual preparing the application is Engineering Associates, Inc.	s not the landowner.)	
2a. Mailing Address: 10 Mansfield View L	ane		
2b. Municipality: South Burlington	2c. State: Vermont	2d. Zip: 05403	

Email: dmarshall@cea-vt.com 3. Phone: 802-864-2323 x310 \*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. SPAN is a unique identification number for each parcel of property in the State of Vermont consisting of eleven digits. The first three digits identify the town; the next three digits identify the school district; and the last five digits represent the unique parcel or property.

D. Project Description				
1. Describe the proposed project and on separate pages attach site plans, photos, calculations of impervious				
surface and cleared area, and any other relevant supp	-			
Reconstruction of existing House within the PSA and	I construction of new barn and wastewater disposal			
system outside of the PSA.				
2. For developed parcels, how far is the existing habitable				
how far will new cleared area or impervious surface be	e from MWL <u>128</u> (feet)?			
OR For undeveloped parcels, how far will new cleared are	a or impervious surface be from MWL (feet)?			
See The Vermont Shoreland Protection Act – A Handbook for Shoreland D	evelopment, Appendix A – Estimating Mean Water Level			
3. Can all new cleared area or impervious surface be set				
If no, explain why below (attach support information as	needed):			
4 = 10 // $1 = 1 = 10$ $1 = 10$ $1 = 10$ $1 = 10$ $1 = 10$ $1 = 10$ $1 = 10$				
4a. What is the slope of the project site area: <u>6.80</u> % See The Vermont Shoreland Protection Act – A Handbook for Shoreland	4b. Is the slope of the project area less than 20%?			
Development, Appendix B, Determining Slope	Yes No If yes, skip 4c.			
4c. If no above (4b), describe the measures taken to ensu	ure the slope is stable, resulting in minimal erosion and			
impacts to water quality (attach support information as				
	5b. What is the total resulting impervious surface after			
5a. What is the surface area of new impervious surface	completion of the project and prior to			
associated with this project: 7,039.00 (square feet) implementation of best management practices:				
See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix F Calculating Percent Impervious	15,530.00 (square feet) and is that 20% or less of the			
Surface	parcel area within the PSA?			
	If yes, skip 5c.			
5c. If no above (5b), describe the best management practices used to manage, treat and control erosion from				
stormwater from the portion of impervious that exceeds 20% (attach support information as needed).				

· · · · · · · · · · · · · · · · · · ·		Version: March 2015	
6a. What is the surface area of new cleared area associated with this project: 8,692.00 (square feel See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearin	of best management p and is that 40% or less PSA? Yes No includes impervious surface ar	ect and prior to implementation practices: 54,044.00 (square feet) s of the parcel area within the If yes, skip 6c. *Total cleared area rea.	
6c. If no above (6b), describe the best managemen wildlife habitat functionally equivalent to clearing	t practices used to provide ero less than 40% (attach suppo	osion control, bank stability, and rt information as needed).	
33,977 SF + 5,277 SF + 6,098 SF = 45,352 SF	existing cleared area + 8,69	92 SF New cleared area	
<b>E. Landowner Certification</b> As APPLICANT, I hereby certify that the statements recognize that by signing this application, I agree to understand that failure to comply with the foregoing V.S.A. Chapter 49A, and the Vermont Agency of Na violations of the Act pursuant to 10 V.S.A. chapter 2 Applicant/Landowner Signature:	complete all aspects of the pr may result in violation of the s atural Resources may bring an 201.	roject as authorized. I Shoreland Protection Act, 10	
<b>F. Application Preparer Certification (if applicable)</b> 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:			
G. Permit Application Fees DAND 5. Marstar, T.E.			
Administrative Fee:\$125.00		125.00	
Impervious Area Fee: \$0.50 per square foot	v impervious area (5a.) 7,039.00 × 0.5	\$ 3,519.50	
Total:		\$ 3,644.50	
Submit this form on	d application fee navable to	3W	

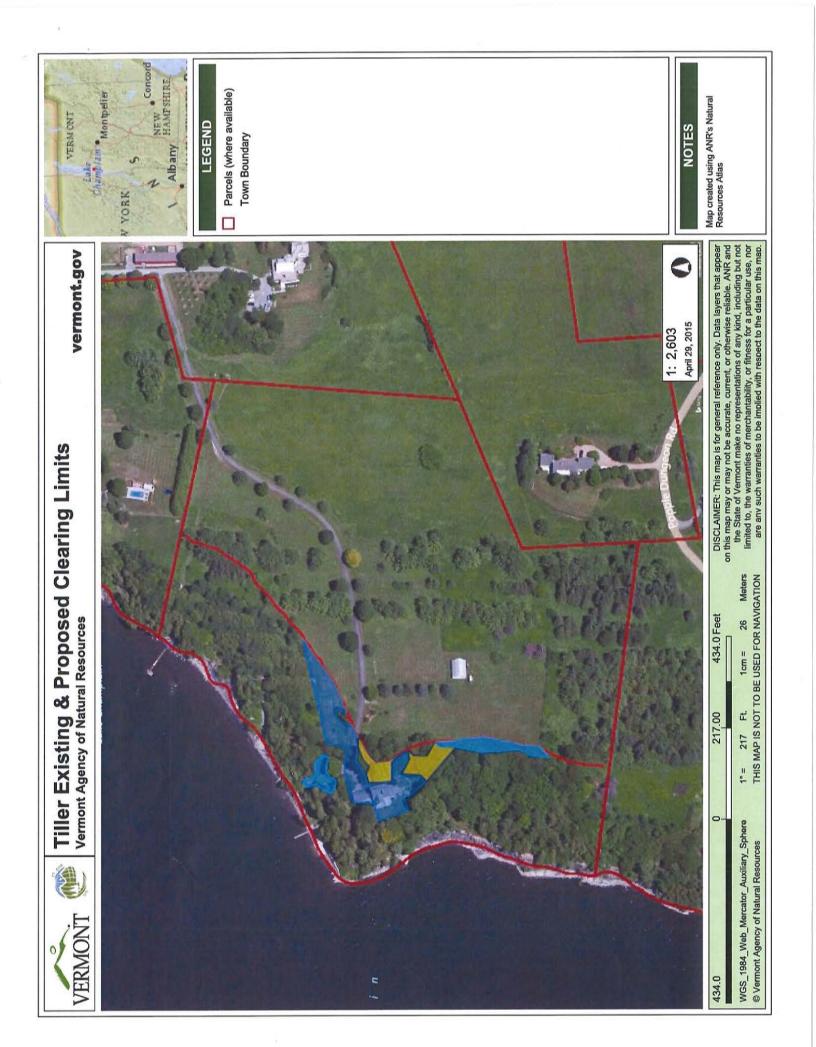
Submit this form and application fee, payable to:

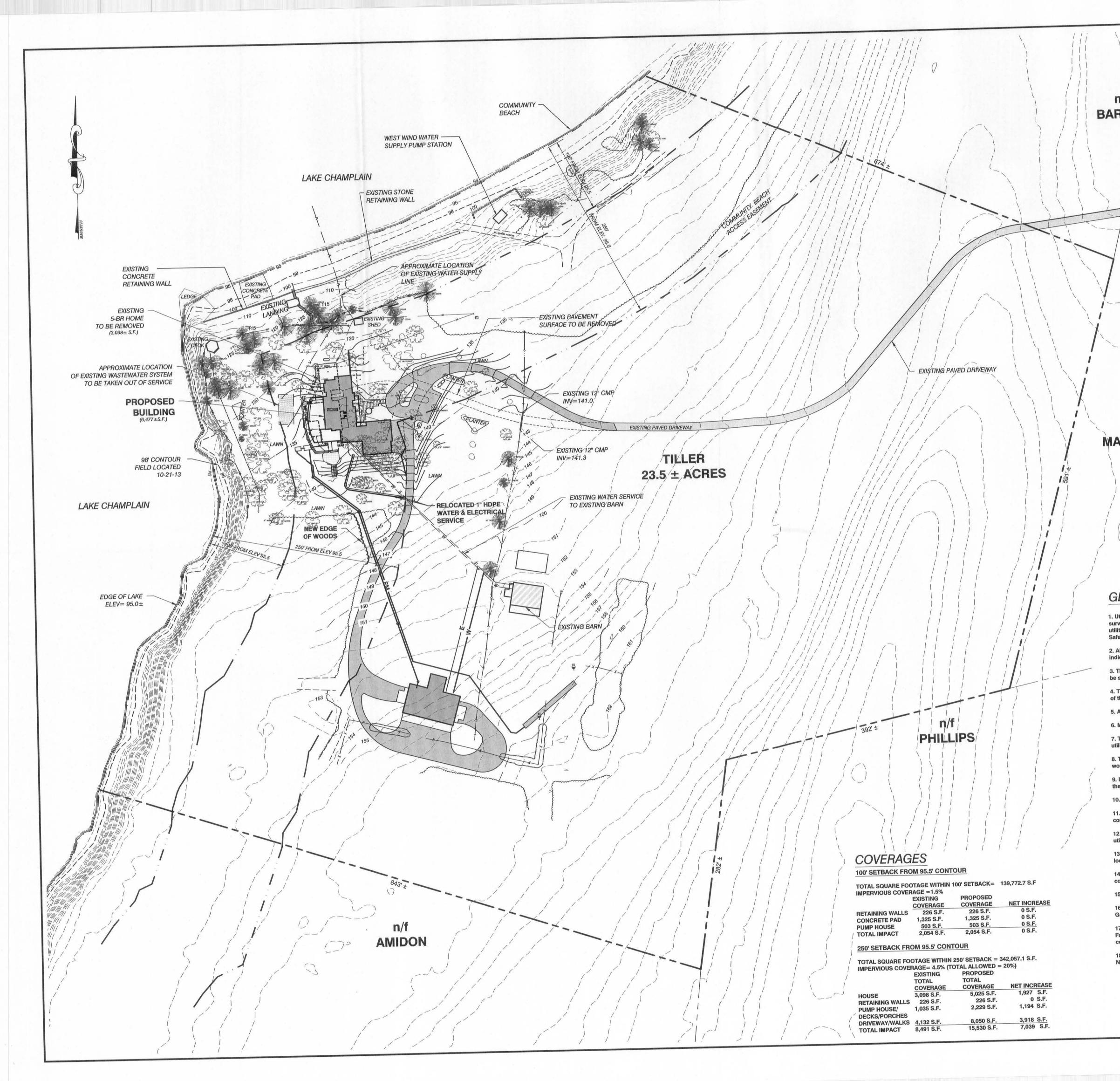
State of Vermont Vermont Department of Environmental Conservation Watershed Management Division Shoreland Permitting 1 National Life Drive, Main 2 Montpelier, VT 05620-3522

Direct all correspondence or questions to Shoreland Permitting at: ANR.WSMDShoreland@state.vt.us

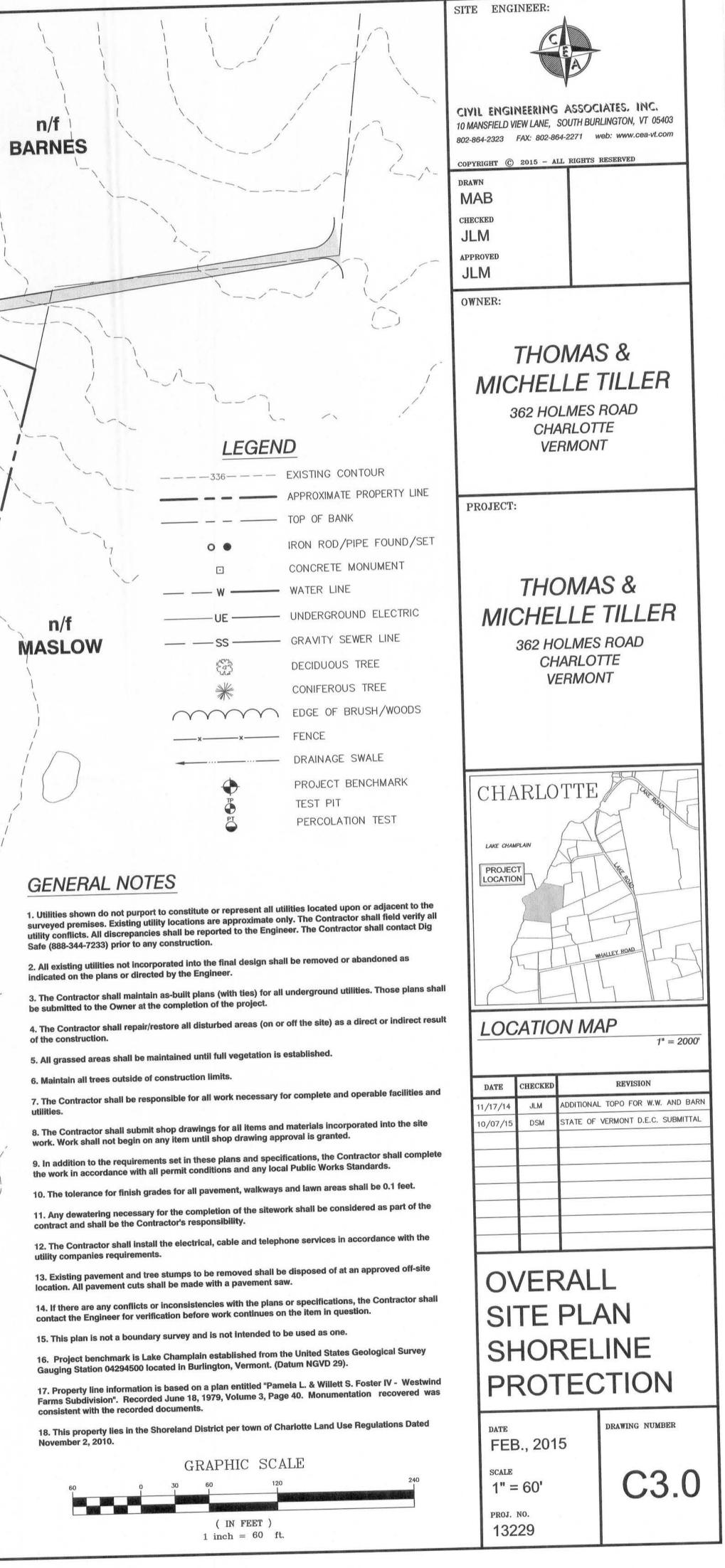
For additional information visit: www.watershedmanagement.vt.gov

Page 3 of 3





ADD Projects/2013/13229/1-CADD Files-13229/Dwg/13229-Site.dk





n/f MASLOW

1. Utilities shown do not purport to constitute or represent all utilities located upon or adjacent to the surveyed premises. Existing utility locations are approximate only. The Contractor shall field verify all utility conflicts. All discrepancies shall be reported to the Engineer. The Contractor shall contact Dig Safe (888-344-7233) prior to any construction.

3. The Contractor shall maintain as-built plans (with ties) for all underground utilities. Those plans shall be submitted to the Owner at the completion of the project.

of the construction.

5. All grassed areas shall be maintained until full vegetation is established.

utilities.

8. The Contractor shall submit shop drawings for all items and materials incorporated into the site work. Work shall not begin on any item until shop drawing approval is granted.

13. Existing pavement and tree stumps to be removed shall be disposed of at an approved off-site location. All pavement cuts shall be made with a pavement saw.

18. This property lies in the Shoreland District per town of Charlotte Land Use Regulations Dated November 2, 2010.



## COVERAGES 100' SETBACK FROM 95.5' CONTOUR

TOTAL SQUARE FOOTAGE WITHIN 100' SETBACK= 139,772.7 S.F

MPERVIOUS COVE	HAGE = 1.5%		
	EXISTING	PROPOSED	
	COVERAGE	COVERAGE	NET INCREASE
<b>RETAINING WALLS</b>	226 S.F.	226 S.F.	0 S.F.
CONCRETE PAD	1,325 S.F.	1,325 S.F.	0 S.F.
PUMP HOUSE	503 S.F.	503 S.F.	0 S.F.
TOTAL IMPACT	2,054 S.F.	2,054 S.F.	0 S.F.

n/f

PHILLIPS

EXISTING PAVED DRIVEWAY

250' SETBACK FROM 95.5' CONTOUR

TOTAL SQUARE FO				F.
	EXISTING	PROPOSED		
	TOTAL	TOTAL		
C. C. A. ALCONT	COVERAGE	COVERAGE	NET INC	RE/
HOUSE	3,098 S.F.	5,025 S.F.	1,927	S.
<b>RETAINING WALLS</b>	226 S.F.	226 S.F.	0	S.I
PUMP HOUSE/ DECKS/PORCHES	1,035 S.F.	2,229 S.F.	1,194	S.I

DRIVEWAY/WALKS 4,132 S.F. 3,918 S.F. 7,039 S.F. 8,050 S.F. TOTAL IMPACT 8,491 S.F. 15,530 S.F.

	RAGE =1.5%	TIUU SETBACK=
	EXISTING	PROPOSED
	COVERAGE	COVERAGE
G WALLS	226 S.F.	226 S.F.
E PAD	1,325 S.F.	1,325 S.F.
USE	503 S.F.	503 S.F.
PACT	2,054 S.F.	2,054 S.F.

EXISTING PAVED DRIVEWAY

### SITE ENGINEER:

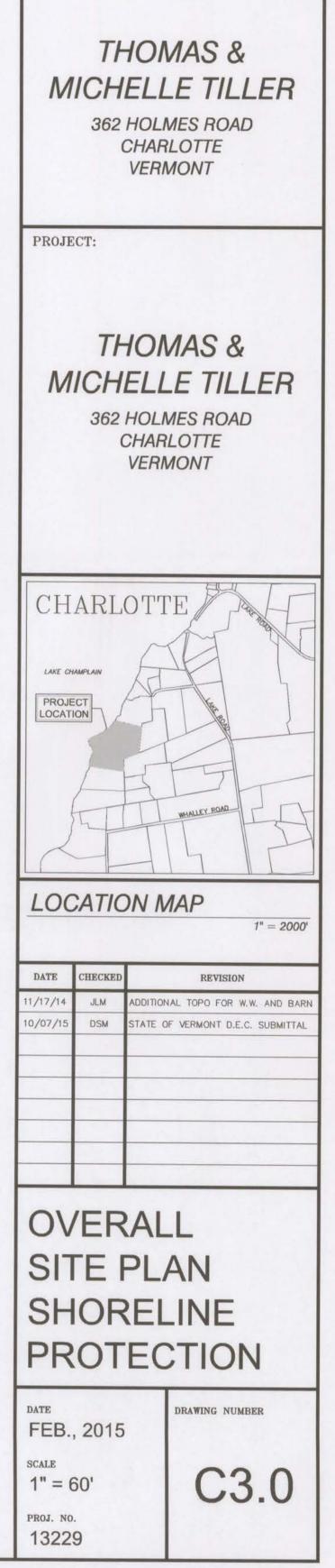


CIVIL ENGINEERING ASSOCIATES, INC. 10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403 802-864-2323 FAX: 802-864-2271 web: www.cea-vi.com

COPYRIGHT © 2015 - ALL RIGHTS RESERVED

DRAWN MAB CHECKED JLM APPROVED JLM

OWNER:



# LEGEND

0 •
— — w —
UE
SS
200
*
P P P F

EXISTING CONTOUR APPROXIMATE PROPERTY LINE TOP OF BANK IRON ROD/PIPE FOUND/SET CONCRETE MONUMENT WATER LINE UNDERGROUND ELECTRIC GRAVITY SEWER LINE DECIDUOUS TREE CONIFEROUS TREE EDGE OF BRUSH/WOODS FENCE DRAINAGE SWALE PROJECT BENCHMARK TEST PIT PERCOLATION TEST

# **GENERAL NOTES**

2. All existing utilities not incorporated into the final design shall be removed or abandoned as indicated on the plans or directed by the Engineer.

4. The Contractor shall repair/restore all disturbed areas (on or off the site) as a direct or indirect result

6. Maintain all trees outside of construction limits.

7. The Contractor shall be responsible for all work necessary for complete and operable facilities and

9. In addition to the requirements set in these plans and specifications, the Contractor shall complete the work in accordance with all permit conditions and any local Public Works Standards.

10. The tolerance for finish grades for all pavement, walkways and lawn areas shall be 0.1 feet.

11. Any dewatering necessary for the completion of the sitework shall be considered as part of the contract and shall be the Contractor's responsibility.

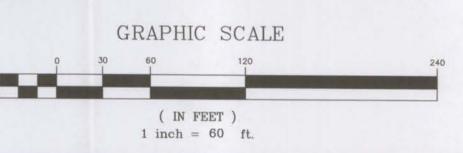
12. The Contractor shall install the electrical, cable and telephone services in accordance with the utility companies requirements.

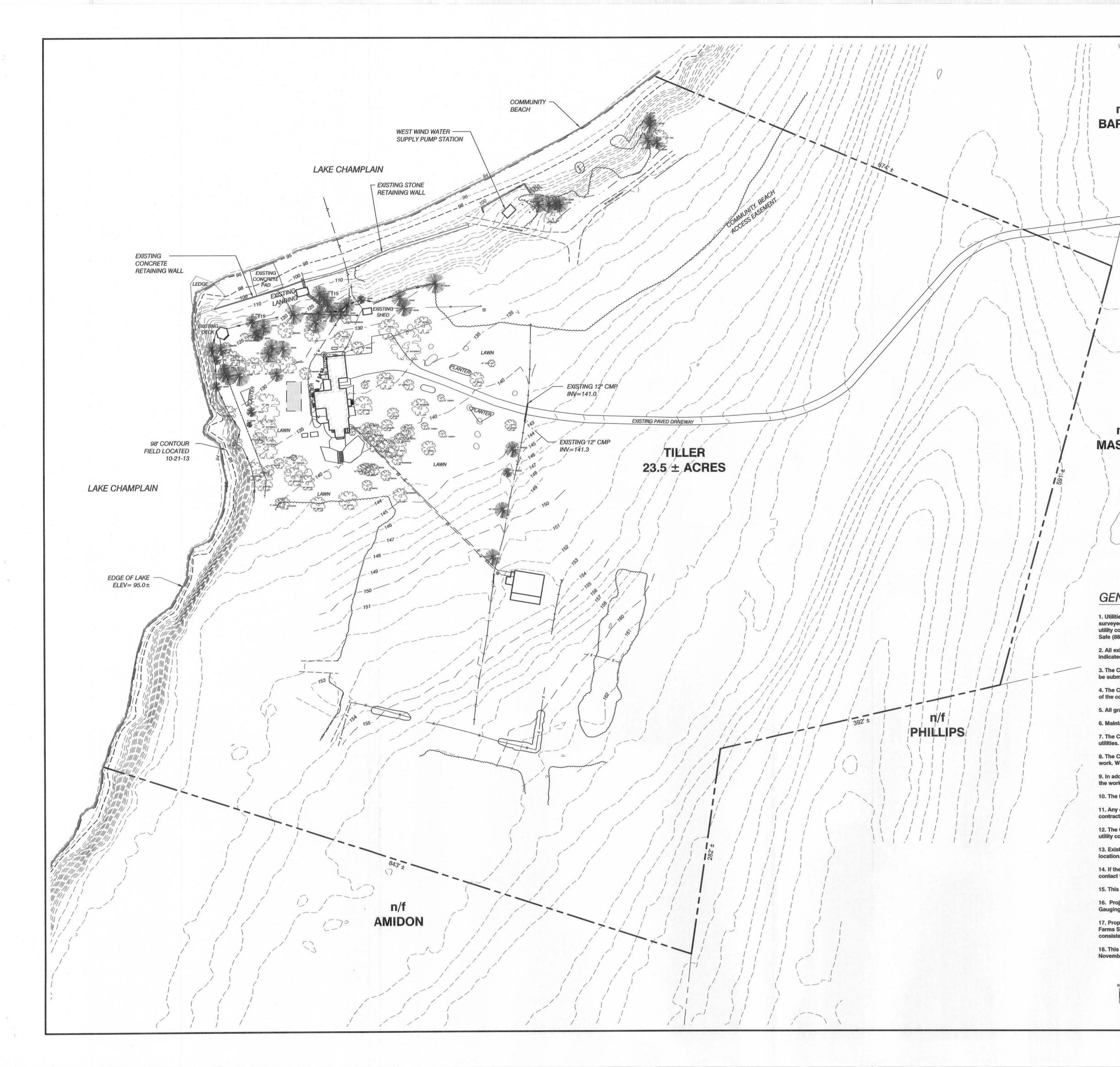
14. If there are any conflicts or inconsistencies with the plans or specifications, the Contractor shall contact the Engineer for verification before work continues on the item in question.

15. This plan is not a boundary survey and is not intended to be used as one.

16. Project benchmark is Lake Champlain established from the United States Geological Survey Gauging Station 04294500 located in Burlington, Vermont. (Datum NGVD 29).

17. Property line information is based on a plan entitled "Pamela L. & Willett S. Foster IV - Westwind Farms Subdivision". Recorded June 18, 1979, Volume 3, Page 40. Monumentation recovered was consistent with the recorded documents.





CADD Projects/2013(13229)1-CADD Files-13229)Dwg)13229

and the second				
			SITE ENGINEER:	
n/f RNES			CIVIL ENGINEERING 10 MANSFIELD VIEW LANE, SC 802-864-2323 FAX: 802-864- COPYRIGHT © 2015 - ALL	OUTH BURLINGTON, VT 05403 2271 web: www.cea-vt.com
			drawn MAB checked JLM approved	
		MAGNET	JLM OWNER:	
	/	END – EXISTING CONTOUR	THON MICHELL 362 HOLN CHAR	MAS & E TILLER MES ROAD LOTTE MONT
n/f SLOW	● ● - ─ ₩ ─ - ₩ = ₩ ─ - ₩ ─ - ₩	<ul> <li>APPROXIMATE PROPERTY LINE</li> <li>TOP OF BANK</li> <li>IRON ROD/PIPE FOUND/SET</li> <li>CONCRETE MONUMENT</li> <li>WATER LINE</li> <li>UNDERGROUND ELECTRIC</li> <li>GRAVITY SEWER LINE</li> <li>DECIDUOUS TREE</li> <li>CONIFEROUS TREE</li> <li>EDGE OF BRUSH/WOODS</li> <li>FENCE</li> <li>DRAINAGE SWALE</li> </ul>	MICHELL 362 HOLM CHAR	MAS & E TILLER MES ROAD LOTTE MONT
PROJECT BENCHMARK TEST PIT PERCOLATION TEST PERCOLATION TEST		CHARLOTT LAKE CHAMPLAIN PROJECT LOCATION	E CONTRACTOR	
construction. rassed areas shall be maintained Itain all trees outside of construc	I disturbed areas (on o d until full vegetation is tion limits.		LOCATION N	1" = 2000'
Contractor shall be responsible for all work necessary for complete and operable facilities and s. Contractor shall submit shop drawings for all items and materials incorporated into the site Work shall not begin on any item until shop drawing approval is granted. ddition to the requirements set in these plans and specifications, the Contractor shall complete rk in accordance with all permit conditions and any local Public Works Standards. e tolerance for finish grades for all pavement, walkways and lawn areas shall be 0.1 feet. y dewatering necessary for the completion of the sitework shall be considered as part of the ct and shall be the Contractor's responsibility.			REVISION F VERMONT D.E.C. SUBMITTAL F VERMONT D.E.C. SUBMITTAL	
sting pavement and tree stumps to be removed shall be disposed of at an approved off-site n. All pavement cuts shall be made with a pavement saw. here are any conflicts or inconsistencies with the plans or specifications, the Contractor shall t the Engineer for verification before work continues on the item in question. s plan is not a boundary survey and is not intended to be used as one.		EXISTIN CONDIT		
g Station 04294500 located in Bu	urlington, Vermont. (Da	ne United States Geological Survey atum NGVD 29). ela L. & Willett S. Foster IV - Westwind	SITE PL	AN
Subdivision". Recorded June 18 tent with the recorded documents	, 1979, Volume 3, Page s.	e 40. Monumentation recovered was		
s property lies in the Shoreland District per town of Charlotte Land Use Regulations Dated ber 2, 2010. GRAPHIC SCALE 0 0 30 60 120 240 ( IN FEET ) 1 inch = 60 ft.		DATE FEB., 2015 scale 1" = 60' proj. no. 13229	drawing number	
a laite construction of the Construction of the second second	Andres - Aller Anno - Anno	and the second	1	



# CIVIL ENGINEERING ASSOCIATES, INC.

10 Mansfield View Lane South Burlington, VT 05403 
 Phone:
 802-864-2323

 Fax:
 802-864-2271

 E-Mail:
 mail@cea-vt.com

OCT 1 3 2015

Mr. Kevin Burke, Environmental Analyst Shoreland Permit Program, Lakes & Ponds Management and Protection Program Vermont Department of Environmental Conservation 1 National Life Drive, Main 2 Montpelier VT 05620-3522

### Re: Thomas Tiller, Jr. – 362 Holmes Road - Charlotte, VT Shoreland Permit Application for Proposed House Reconstruction Project

Dear Kevin:

The Tillers are proposing to reconstruct the existing home located at their 22.3 acre property located at 362 Holmes Road in Charlotte. All of the existing and proposed structures are located greater than 100 feet from the shoreline. However, as the proposed impervious area modifications are greater than 500 square feet in size, within the 250-feet of the lakeshore, the project is required to submit a Shoreline Permit application.

The work within the 100-foot to 250-foot portion of the property generally includes the re-orientation of the driveway and house footprint and the construction of a new access drive to a barn located outside of the 250-foot jurisdictional limits.

This property is the same property (adjacent to the Barnes shoreline stabilization project) that you reviewed with Jack Milbank from our office on August 27<sup>th</sup>. However, this application does not propose any shoreline improvements at this time as the Tiller's are still reviewing the options for this portion of the property.

Please find attached the following items in support of the house reconstruction project:

- 1. Application Form
- 2. Application Fee \$3,644.50 (Check #11305)
- 3. Existing (Blue) and proposed (Yellow) Clearing Limits on ANR Mapping sheet
- 4. Sheet C1.3 Existing Conditions Site Plan
- 5. Sheet C3.0 Site Plan of the proposed conditions overlain on a color orthophoto.
- 6. Sheet C3.0 Proposed Conditions Site Plan without the orthophoto.

If you should have any questions or should need any additional information, please feel free to contact me at 864-2323 x310 or at <u>dmarshall@cea-vt.com</u>.

Respectfully, Dave Marshall, P. **Principal Engineer** 

Enclosures: As outlined above

cc: (all w 11x17 encl) T. Tiller, CEA File 13229.01

P:\AutoCADD Projects\2013\13229\3-Permitting\2-State Applications\Lake\Burke-Cover Letter-Tiller.docx