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The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

November 19, 2021

His Excellency, Governor Christopher T. Sununu
 and The Honorable Council
 State House
 Concord, NH 03301

REQUESTED ACTION

Approve Michael and Rebecca Bates' request to perform work on Squamscott River in Stratham as outlined below. This request is pursuant to New Hampshire Department of Environmental Services (NHDES) file #2021-02734. This project will not have significant impact on, or adversely affect, the values of Squamscott River. No comments were submitted by the Stratham Conservation Commission regarding this project as proposed.

Impact 445 square feet of tidal wetland and 80 square feet of previously-developed upland tidal buffer zone to construct a tidal docking structure consisting of a 4 foot by 20 foot access way to a 4 foot by 35 foot fixed pier connected to a 3 foot by 35 foot ramp connected to a 10 foot by 20 foot float. The overall structure length, seaward of the highest observable tide line, is 80 feet, providing two slips on 250 feet of frontage along the Squamscott River.

The NHDES imposed the following conditions as part of this approval:

1. All work shall be done in accordance with the approved plans dated June 2021, revised through June 18, 2021, by Ambit Engineering Inc., and last received by the NH Department of Environmental Services (NHDES) on August 24, 2021, in accordance with Env-Wt 307.16.
2. This permit shall not be effective until the permittee records this permit at the Rockingham County Registry of Deeds. Any limitations or conditions in the permit so recorded shall run with the land beyond the expiration of the permit. The permittee shall provide the NHDES with a copy of the permit stamped by the registry with the book and page and date of receipt, in accordance with New Hampshire Administrative Rule Env-Wt 314.02(b) and (c).
3. The ramp and float portions of residential tidal docks shall be seasonal and removed from the water during the non-boating season, in accordance with Env-Wt 606.06(b).
4. All work shall be done at low tide, in the dry, when the work area is fully exposed, in accordance with Env-Wt 609.10(b)(4).
5. Tidal docking installation shall be done by barge or upland to prevent the driving of construction equipment in or through tidal waters/wetlands or on the bottom of the inter-tidal zone, in accordance with Env-Wt 606.05(b).
6. Tidal docking construction shall be done in accordance with the standard conditions in Env-Wt 307.
7. Heavy equipment shall not be operated in any jurisdictional area unless specifically authorized by this permit, in accordance with Env-Wt 307.15(a).

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29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095

NHDES Main Line: (603) 271-3503 • Subsurface Fax: (603) 271-6683 • Wetlands Fax: (603) 271-6588

TDD Access: Relay NH 1 (800) 735-2964

8. In accordance with Env-Wt 307.03(h), equipment shall be staged and refueled outside of jurisdictional areas and in accordance with Env-Wt 307.15.
9. In accordance with Env-Wt 307.03(g)(1), the person in charge of construction equipment shall inspect such equipment for leaking fuel, oil, and hydraulic fluid each day prior to entering surface waters or wetlands or operating in an area where such fluids could reach groundwater, surface waters, or wetlands.
10. In accordance with Env-Wt 307.03(g)(2), the person in charge of construction equipment shall repair any leaks prior to using the equipment in an area where such fluids could reach groundwater, surface waters, or wetlands.
11. In accordance with Env-Wt 307.03(g)(3) and (4), the person in charge of construction equipment shall maintain oil spill kits and diesel fuel spill kits, as applicable to the type(s) and amount(s) of oil and diesel fuel used, on site so as to be readily accessible at all times during construction; and train each equipment operator in the use of the spill kits.

EXPLANATION

The NHDES approved this project on October 13, 2021. The NHDES supported its decision with the following findings:

1. This is classified as a major project per Rule Env-Wt 606.17(a)(1), for all new overwater structure construction in tidal waters/wetlands.
2. Per Rule Env-Wt 306.05, the applicant has addressed all of the required planning items that are used to determine the appropriate impact classification of a project and the type of approval required.
3. Per Rule Env-Wt 311.01(b), the applicant coordinated with the NH Fish and Game Department and the Natural Heritage Bureau to determine how to avoid and minimize project-related impacts on rare or protected animal species and habitat.
4. Per Rule Env-Wt 311.01(e), the applicant provided a copy of the application to the Exeter-Squamscott Rivers Local Advisory Committee (LAC) on September 10, 2021.
5. Per Rule Env-Wt 311.06(h), the Stratham Conservation Commission did not provide comments on the proposed project.
6. Per Rule Env-Wt 311.06(i), the LAC provided comments of support on the proposed project on September 28, 2021.
7. Per Rule Env-Wt 313.01(a)(2), all applicable conditions specified in Env-Wt 307 have been met.
8. Per Rule Env-Wt 313.01(a)(3), all resource and project-specific criteria established in Env-Wt 600 have been met.
9. Per Rule Env-Wt 313.01(a)(5), and as required by RSA 482-A:11, II, this permit for work to dredge or fill will not 'infringe on the property rights or unreasonably affect the value or enjoyment of property of abutting owners'.
10. Per Rule Env-Wt 313.03(a) and (b), the applicant has demonstrated that potential impacts to jurisdictional areas have been avoided to the maximum extent practicable and that any unavoidable impacts have been minimized.
11. Per Rule Env-Wt 603.09, on October 7, 2021, the applicant obtained a statement from the Pease Development Authority, Division of Ports and Harbors regarding the projects impact on navigation and passage stating, "[w]e examined the proposed site and found that the structure will have no negative effect on safe navigation in the channel."

12. The residential tidal dock project meets the criteria listed in Rule Env-Wt 606.06(a) and (b).
13. Per Rule Env-Wt 606.06(e), the location, design, and method of construction for a proposed residential tidal dock has been based on the results of the coastal functional assessment, is the least environmentally-impacting practicable alternative, has been certified by a professional engineer as having sufficient structural integrity based on the results of the vulnerability assessment, and will not impede the passage of non-motorized watercraft to a degree that a reasonable person would find objectionable.
14. Per Rule Env-Wt 202.01(b) and as required by RSA 482-A:8, the NHDES finds that the requirements for a public hearing do not apply as the project will not have a significant environmental impact, as defined in New Hampshire Administrative Rule Env-Wt 104.19, on the resources protected by RSA 482-A, or, is not of substantial public interest, as defined in New Hampshire Administrative Rule Env-Wt 104.32.

Application file documents are being forwarded to the Governor and the Executive Council in connection with their consideration of this matter pursuant to RSA 482-A:3, II(a), as it is a major project in public waters of the state.

We respectfully request your approval of this item.



Robert R. Scott
Commissioner



**STANDARD DREDGE AND FILL
WETLANDS PERMIT APPLICATION**
Water Division/Land Resources Management
Wetlands Bureau
Check the Status of your Application



RSA/Rule: RSA 482-A/Env-Wt 100-900

APPLICANT'S NAME: Michael & Rebecca Bates

TOWN NAME: Stratham

			File No: <u>2021-02-734</u>
			Check No: <u>3984</u>
			Amount: <u>\$1,890</u>
			Initials: <u>RS</u>

A person may request a waiver of the requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interest of the public or the environment but is still in compliance with RSA 482-A. A person may also request a waiver of the standards for existing dwellings over water pursuant to RSA 482-A:26, III(b). For more information, please consult the Waiver Request Form.

SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2))
Please use the Wetland Permit Planning Tool (WPPT), the Natural Heritage Bureau (NHB) DataCheck Tool, the Aquatic Restoration Mapper, or other sources to assist in identifying key features such as priority resource areas (PRAs), protected species or habitats, coastal areas, designated rivers, or designated prime wetlands.

Has the required planning been completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the property contain a PRA? If yes, provide the following information:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<ul style="list-style-type: none"> Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04. 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> Protected species or habitat? <ul style="list-style-type: none"> If yes, species or habitat name(s): <u>Unknown</u> NHB Project ID #: <u>21-2610</u> 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Bog?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Floodplain wetland contiguous to a tier 3 or higher watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Designated prime wetland or duly-established 100-foot buffer?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is the property within a Designated River corridor? If yes, provide the following information:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> Name of Local River Management Advisory Committee (LAC): <u>N/A</u> A copy of the application was sent to the LAC on Month: <input type="checkbox"/> Day: <input type="checkbox"/> Year: <input type="checkbox"/> 	

irm@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

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For dredging projects, is the subject property contaminated? • If yes, list contaminant: <u>N/A</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No
For stream crossing projects, provide watershed size (see <u>WPPT</u> or Stream Stats): <u>N/A</u>	
SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))	
Provide a brief description of the project and the purpose of the project, outlining the scope of work to be performed and whether impacts are temporary or permanent. DO NOT reply "See attached"; please use the space provided below.	
The project proposes 445 sq. ft. of permanent impact to tidal wetland and 80 sq. ft. of permanent impact to the previously developed tidal buffer zone for the construction of a tidal dock consisting of a 4' x 20' accessway, a 4' x 35' fixed pier, a 3' x 35' gangway, and a 10' x 20' float secured by helical mooring and chains, overall structure length of 80 feet providing one slip along frontage of the the Squamscott River.	
SECTION 3 - PROJECT LOCATION	
Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.	
ADDRESS: <u>8 Oxbow Farm Road</u>	
TOWN/CITY: <u>Stratham</u>	
TAX MAP/BLOCK/LOT/UNIT: <u>Map 8 Lot 68</u>	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: <u>Squamscott River</u>	
<input checked="" type="checkbox"/> N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):	X: <u>1.1793977339° North</u> Y: <u>184.1002774° West</u>

SECTION 7 - RESOURCE-SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400, Env-Wt 500, Env-Wt 600, Env-Wt 700, OR Env-Wt 900 HAVE BEEN MET (Env-Wt 313.01(a)(3))

Describe how the resource-specific criteria have been met for each chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters):
Please see attached narrative.

SECTION 8 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)).* Any project with unavoidable jurisdictional impacts must then be minimized as described in the Wetlands Best Management Practice Techniques For Avoidance and Minimization and the Wetlands Permitting: Avoidance, Minimization and Mitigation Fact Sheet. For minor or major projects, a functional assessment of all wetlands on the project site is required (Env-Wt 311.03(b)(10)).*

Please refer to the application checklist to ensure you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable). Use the Avoidance and Minimization Checklist, the Avoidance and Minimization Narrative, or your own avoidance and minimization narrative.

**See Env-Wt 311.03(b)(6) and Env-Wt 311.03(b)(10) for shoreline structure exemptions.*

SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02)

If unavoidable jurisdictional impacts require mitigation, a mitigation pre-application meeting must occur at least 30 days but not more than 90 days prior to submitting this Standard Dredge and Fill Permit Application.

Mitigation Pre-Application Meeting Date: Month: Day: Year:
 N/A - Mitigation is not required

SECTION 10 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c)

Confirm that you have submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent unavoidable impacts that will remain after avoidance and minimization techniques have been exercised to the maximum extent practicable: I confirm submittal.

N/A - Compensatory mitigation is not required

SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))

For each jurisdictional area that will be/has been impacted, provide square feet (SF) and, if applicable, linear feet (LF) of impact, and note whether the impact is after-the-fact (ATF; i.e., work was started or completed without a permit).

For intermittent and ephemeral streams, the linear footage of impact is measured along the thread of the channel. Please note, installation of a stream crossing in an ephemeral stream may be undertaken without a permit per Rule Env-Wt 309.02(d), however other dredge or fill impacts should be included below.

For perennial streams/ivers, the linear footage of impact is calculated by summing the lengths of disturbances to the channel and banks.

Permanent impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA		PERMANENT			TEMPORARY		
		SF	LF	ATF	SF	LF	ATF
Wetlands	Forested Wetland			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Scrub-shrub Wetland			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Emergent Wetland			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Wet Meadow			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Vernal Pool			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Designated Prime Wetland			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Duly-established 100-foot Prime Wetland Buffer			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Surface Water	Intermittent / Ephemeral Stream			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Perennial Stream or River			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Lake / Pond			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Docking - Lake / Pond			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Docking - River			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Banks	Bank - Intermittent Stream			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Bank - Perennial Stream / River			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Bank / Shoreline - Lake / Pond			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
Tidal	Tidal Waters			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Tidal Marsh			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Sand Dune			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Undeveloped Tidal Buffer Zone (TBZ)			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Previously-developed TBZ	80		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Docking - Tidal Water	445		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
TOTAL		525					

SECTION 12 - APPLICATION FEE (RSA 482-A:3, I)

<input checked="" type="checkbox"/> MINIMUM IMPACT FEE: Flat fee of \$400.
<input checked="" type="checkbox"/> NON-ENFORCEMENT RELATED, PUBLICLY-FUNDED AND SUPERVISED RESTORATION PROJECTS, REGARDLESS OF IMPACT CLASSIFICATION: Flat fee of \$400 (refer to RSA 482-A:3, 1(c) for restrictions).
<input checked="" type="checkbox"/> MINOR OR MAJOR IMPACT FEE: Calculate using the table below:
Permanent and temporary (non-docking): <input checked="" type="checkbox"/> SF × \$0.40 = \$ <input checked="" type="checkbox"/>
Seasonal docking structure: <input checked="" type="checkbox"/> 305 SF × \$2.00 = \$ <input checked="" type="checkbox"/> 610
Permanent docking structure: <input checked="" type="checkbox"/> 220 SF × \$4.00 = \$ <input checked="" type="checkbox"/> 880
Projects proposing shoreline structures (including docks) add \$400 = \$ <input checked="" type="checkbox"/> 400
Total = \$ <input checked="" type="checkbox"/> 1890
The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ <input checked="" type="checkbox"/>

lrm@des.nh.gov or (603) 271-2147

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SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05)
 Indicate the project classification.

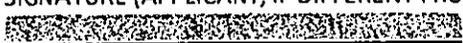
<input type="checkbox"/> Minimum Impact Project	<input type="checkbox"/> Minor Project	<input checked="" type="checkbox"/> Major Project
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SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)

Initial each box below to certify:

Initials: 	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: 	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.
Initials: 	The signer understands that: <ul style="list-style-type: none"> • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: <ol style="list-style-type: none"> 1. Deny the application. 2. Revoke any approval that is granted based on the information. 3. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. • The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. • The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact forestry SPN projects and minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.
Initials: 	If the applicant is not the owner of the property, each property owner signature shall constitute certification by the signer that he or she is aware of the application being filed and does not object to the filing.

SECTION 15 - REQUIRED SIGNATURES (Env-Wt 311.04(d); Env-Wt 311.11)

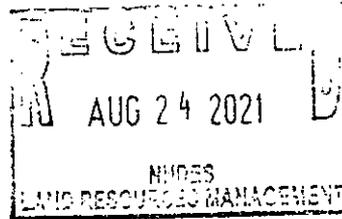
SIGNATURE (OWNER): 	PRINT NAME LEGIBLY: 	DATE: 
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER): 	PRINT NAME LEGIBLY: 	DATE: 
SIGNATURE (AGENT, IF APPLICABLE): 	PRINT NAME LEGIBLY: Steven D. Riker	DATE: 8/17/21

SECTION 16 - TOWN/CITY CLERK SIGNATURE (Env-Wt 311.04(f))

As required by RSA 482-A:3, I(a)(1), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

TOWN/CITY CLERK SIGNATURE: 	PRINT NAME LEGIBLY: Deborah L Bakie
TOWN/CITY: <u>Stratham</u>	DATE: <u>8/19/2021</u>

18 August, 2021



To Whom It May Concern:

RE: State of New Hampshire DES Wetlands Bureau Standard Dredge and Fill Application for proposed shoreline stabilization within the previously developed 100' Tidal Buffer Zone and jurisdictional wetlands for Michael & Rebecca Bates of 8 Oxbow Farm Road, Stratham, NH 03885

This letter is to inform the Town of Stratham in accordance with State Law that the following entities:

Riverside Marine Construction, Inc.
Ambit Engineering, Inc

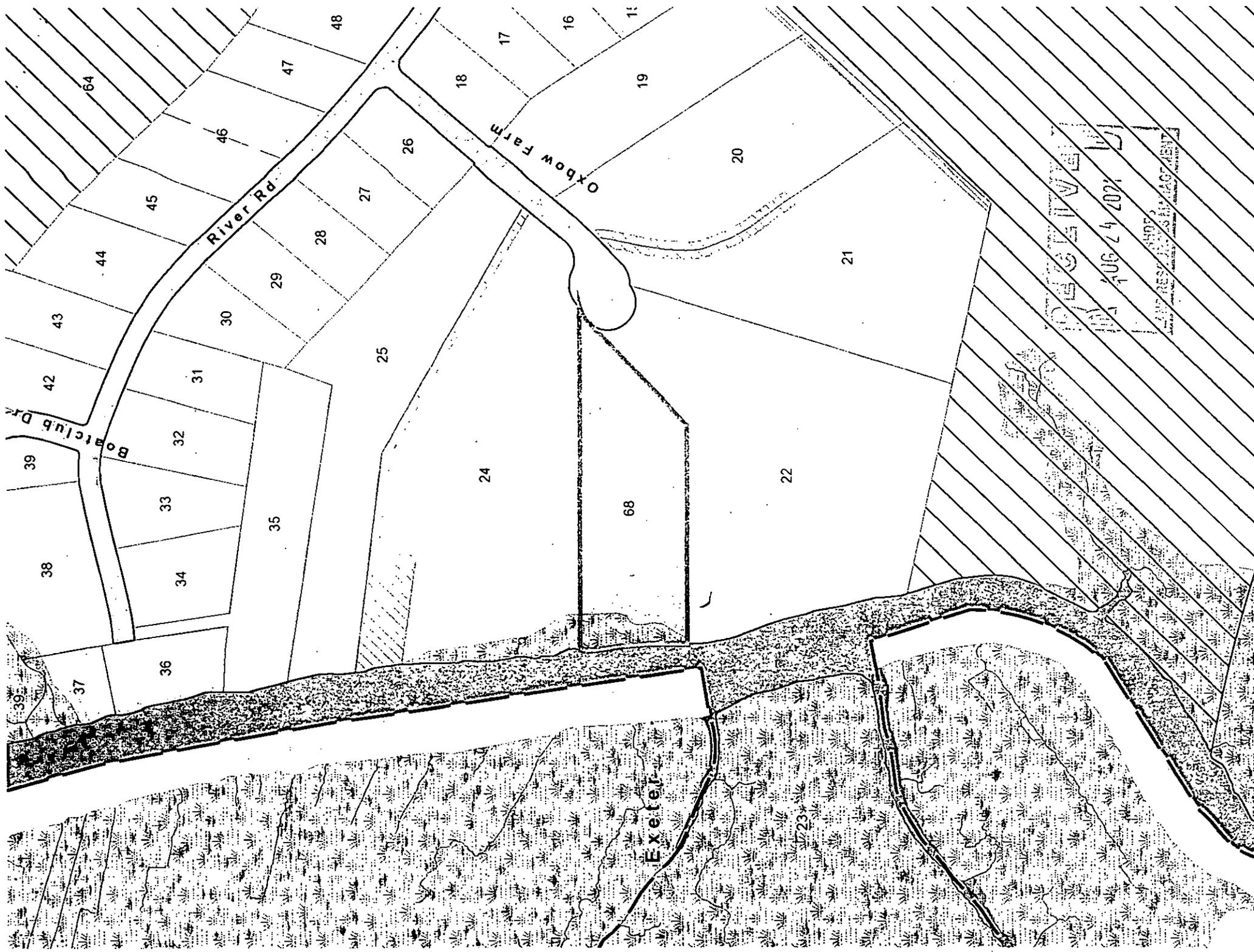
Are authorized to represent me as my agent in the approval process.

Please feel free to call me if there is any question regarding this authorization.

Sincerely,

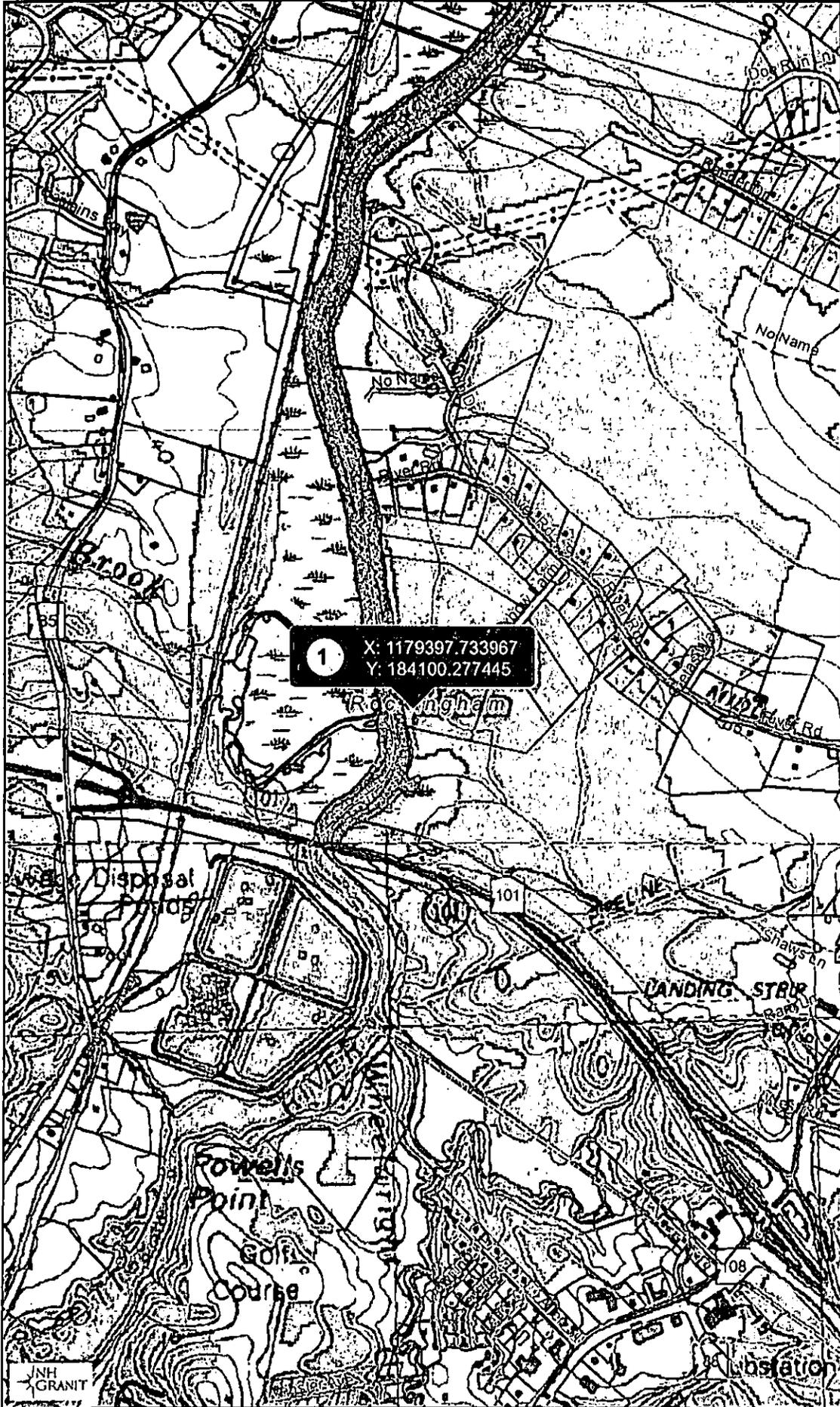
Two handwritten signatures in black ink. The top signature is "Rebecca Bates" and the bottom signature is "Michael Bates".

Michael & Rebecca Bates
8 Oxbow Farm Road
Stratham, NH 03885



REGISTERED
AUG 24 2021
LAND REVENUE DEPARTMENT

Map by NH GRANIT



1 X: 1179397.733967
Y: 184100.277445

Legend

- Parcels
- Parcel Polygons
- ▣ Attributes for Additional Lines
- State
- County
- City/Town

RECEIVED
 AUG 24 2021
 NHDES
 LAND PROGRESS MANAGEMENT

Map Scale

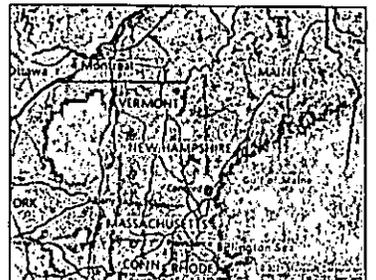
1: 12,988



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Map Generated: 8/9/2021

Notes



**New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter**

To: John Chagnon, Ambit Engineering, Inc.
200 Griffin Road
Unit 3
Portsmouth, NH 03801

From: NH Natural Heritage Bureau
Date: 8/19/2021 (valid until 8/19/2022)
Re: Review by NH Natural Heritage Bureau of request submitted 8/10/2021
Permits: NHDES - Wetland Standard Dredge & Fill - Major, USACE - General Permit

NHB ID: NHB21-2610

Applicant: Michael & Rebecca Bates

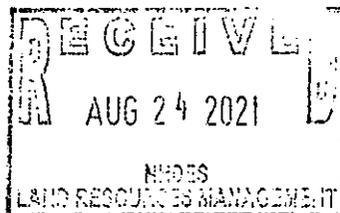
Location: Stratham
8 Oxbow Farm Road

Project

Description: The project proposes the construction of a tidal dock consisting of a 4' x 35' fixed pier, a 3' x 35' gangway and a 10' x 20' float to provide recreational boating access on the Squamscott River.

The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government.

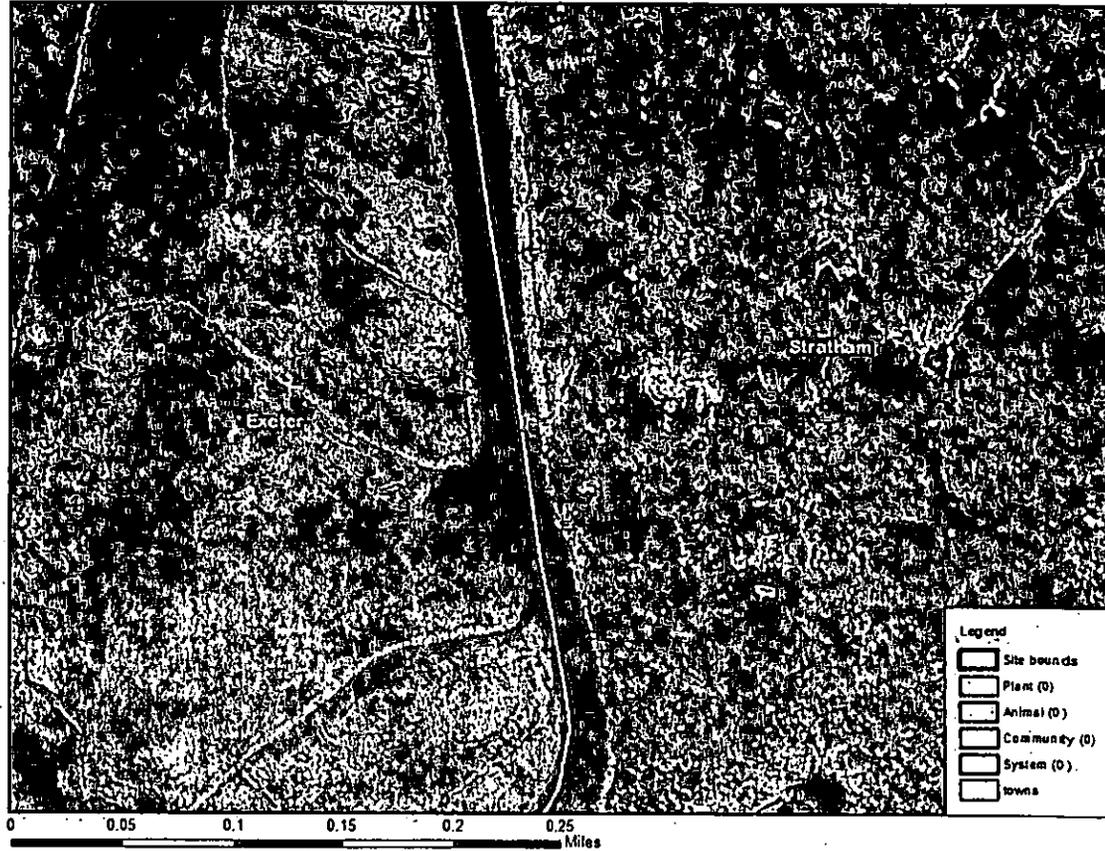
It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 8/10/2021 3:00:28 PM, and cannot be used for any other project.



New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter

MAP OF PROJECT BOUNDARIES FOR: NHB21-2610

NHB21-2610



ABUTTER'S LIST

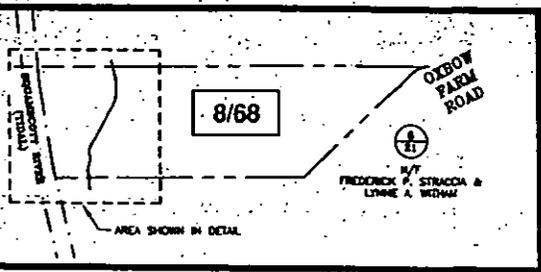
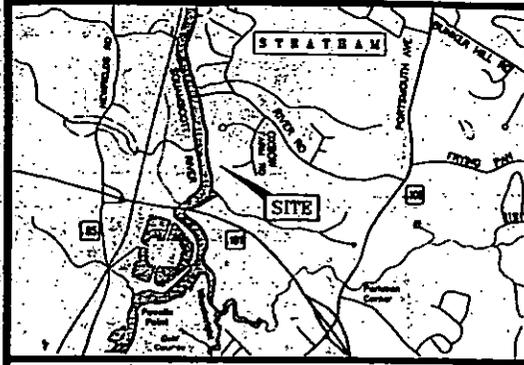
JN 3050.64

Michael & Rebecca Bates

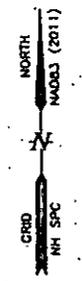
8 Oxbow Farm Road

Stratham, NH

MAP	LOT	NAME(S)	PO BOX	STREET ADDRESS	CITY/STATE/ZIP
8	22	10 Oxbow Farm Road Realty Trust David J. Carney, Trustee			
8	24	Emma's Home Realty Trust Richard W. Miller II, Trustee			
Engineer		Ambit Engineering, Inc. Civil Engineers & Land Surveyors		200 Griffin Road, Unit 3	Portsmouth, NH 03801
Applicant/Owner					
8	68	Michael & Rebecca Bates			



PLAN REFERENCES:
 1) SUBDIVISION PLAN FOR JOYCE & JOAN MASSOIA



AMBIT ENGINEERING, INC.
 Civil Engineers & Land Surveyors
 200 Crillon Road - Unit 3
 Portsmouth, N.H. 03801-7114
 Tel (603) 430-8282
 Fax (603) 430-2319

RIVERSIDE ENGINEERING
 MARINE CONSULTANTS

- NOTES:**
- 1) PARCEL IS SHOWN ON THE TOWN OF STRATHAM ASSESSOR'S MAP 8, AS LOT 68.
 - 2) OWNERS OF RECORD:
 MICHAEL BATES & REBECCA BATES
 8 OXBOW FARM RD
 STRATHAM, NH 03885
 R.C.R.D. 5896/215
 - 3) A PORTION OF THE PARCEL IS IN A FLOOD HAZARD ZONE AE (EL = 7 FT) AS SHOWN ON FIRM PANEL J3015C0239F, DATED 1/29/2021.
 - 4) EXISTING LOT AREA:
 138,065 S.F.
 3.17 ACRES
 - 5) PARCEL IS LOCATED IN THE RESIDENTIAL-/AGRICULTURAL ZONING DISTRICT.
 - 6) DIMENSIONAL REQUIREMENTS:
 MIN. LOT AREA: 2 ACRES
 FRONTAGE: 200 FT.
 SETBACKS:
 FRONT: 30 FT.
 SIDE: 20 FT.
 REAR: 20 FT.

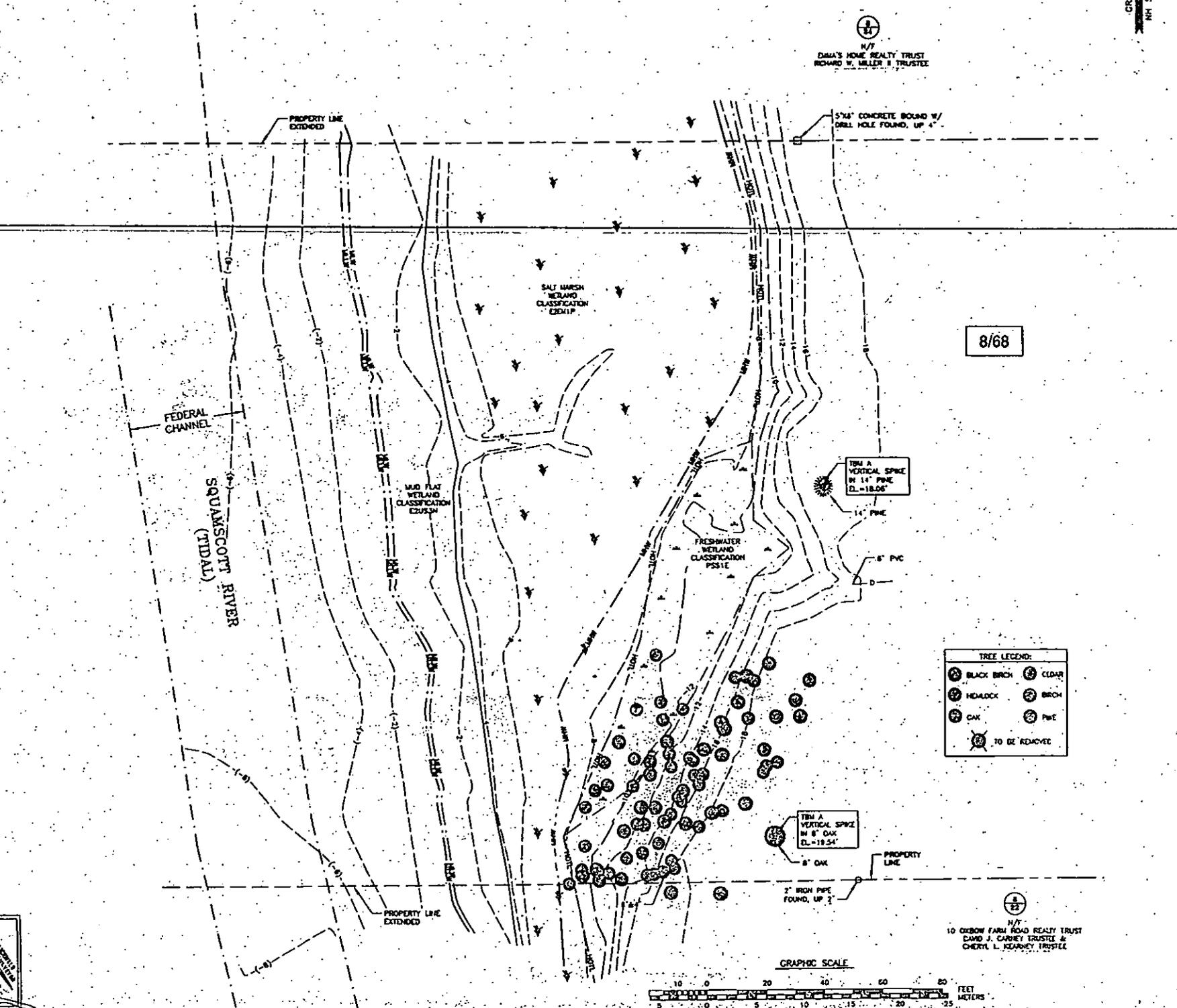
 MAXIMUM STRUCTURE HEIGHT: 35 FT.
 MAXIMUM STRUCTURE COVERAGE: 20%
 MINIMUM OPEN SPACE: 60%
 - 7) THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS ON A PORTION OF ASSESSOR'S MAP 8, LOT 68 IN THE TOWN OF STRATHAM.
 - 8) PROPERTY LINES AND PROPERTY LINES EXTENDED ARE FROM PLAN REFERENCE 1. THIS IS NOT A BOUNDARY SURVEY.
 - 9) VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW). BASIS OF VERTICAL DATUM IS REDUNDANT RTM GNSS OBSERVATIONS (+/- 0.2') REDUCTION FROM NAVD 88 TO MLLW BASED ON NOAA STATION 8420411, COCHECO RIVER.

LOCATION MAP 1" = 2000'

LEGEND:

N/F	NEW OR FORMERLY
RP	RECORD OF PROBABLY
RCRD	RECORDING COUNTY REGISTRY OF DEEDS
(Symbol)	MAP 11 / LOT 21
(Symbol)	IRON ROD/IRON PIPE FOUND
(Symbol)	STONE/CONCRETE BOUND FOUND
(Symbol)	MEAN HIGH WATER LINE
(Symbol)	MEAN LOW WATER LINE
(Symbol)	HOTL
(Symbol)	HIGHEST OBSERVABLE TIDE LINE
(Symbol)	WBL
(Symbol)	WETLAND BUFFER LINE
(Symbol)	CONTOUR
(Symbol)	SPOT ELEVATION
(Symbol)	SALT MARSH AREA
(Symbol)	TEMPORARY BENCHMARK
(Symbol)	ELEVATION
(Symbol)	MARK
(Symbol)	TEMPORARY BENCHMARK
(Symbol)	TYPICAL

- WETLAND NOTES:**
- 1) HIGHEST OBSERVABLE TIDE LINE & WETLAND LINE DELINEATED BY STEVEN D. RIKER, CWS ON 3/3/2021 IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - A) U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JAN. 1987), AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012.
 - B) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION B.2, USDA-NRCS, 2018 AND (FOR DISTURBED SITES) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, NEWPOC WETLANDS WORK GROUP (2019).
 - C) NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: NORTHEAST (REGION 1), USFWS (MAY 1988).
 - D) CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES, USFWS MANUAL FWS/OBS-79/31 (1997).
 - E) "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE" (1997), NEW HAMPSHIRE FISH AND GAME DEPARTMENT.
 - 2) WETLAND FLAGS WERE FIELD LOCATED BY AMBIT ENGINEERING, INC.

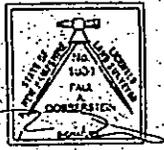


TREE LEGEND:

(Symbol)	BLACK BIRCH	(Symbol)	CEDAR
(Symbol)	HICKORY	(Symbol)	BIRCH
(Symbol)	OAK	(Symbol)	PINE
(Symbol)	TO BE REMOVE		

I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000.

PAUL A. DOBBERSTEIN, LLS
 DATE: 4/14/2021



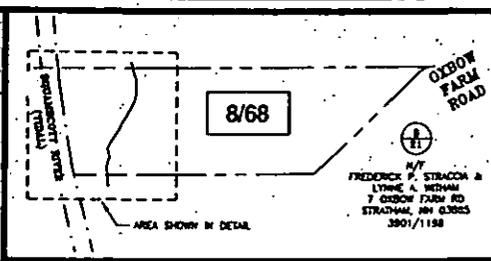
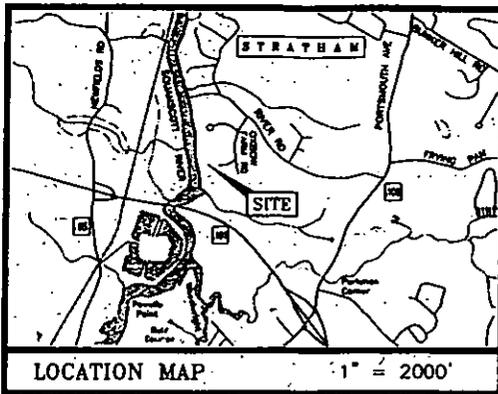
BATES RESIDENCE
OXBOW FARM RD
STRATHAM, N.H.

NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	6/18/21
REVISIONS		

STEVEN D. RIKER
 CIVIL ENGINEER
 No. 219
 LICENSED WETLANDS SPECIALIST

SCALE: 1" = 20' JUNE 2021

EXISTING CONDITIONS PLAN **C1**



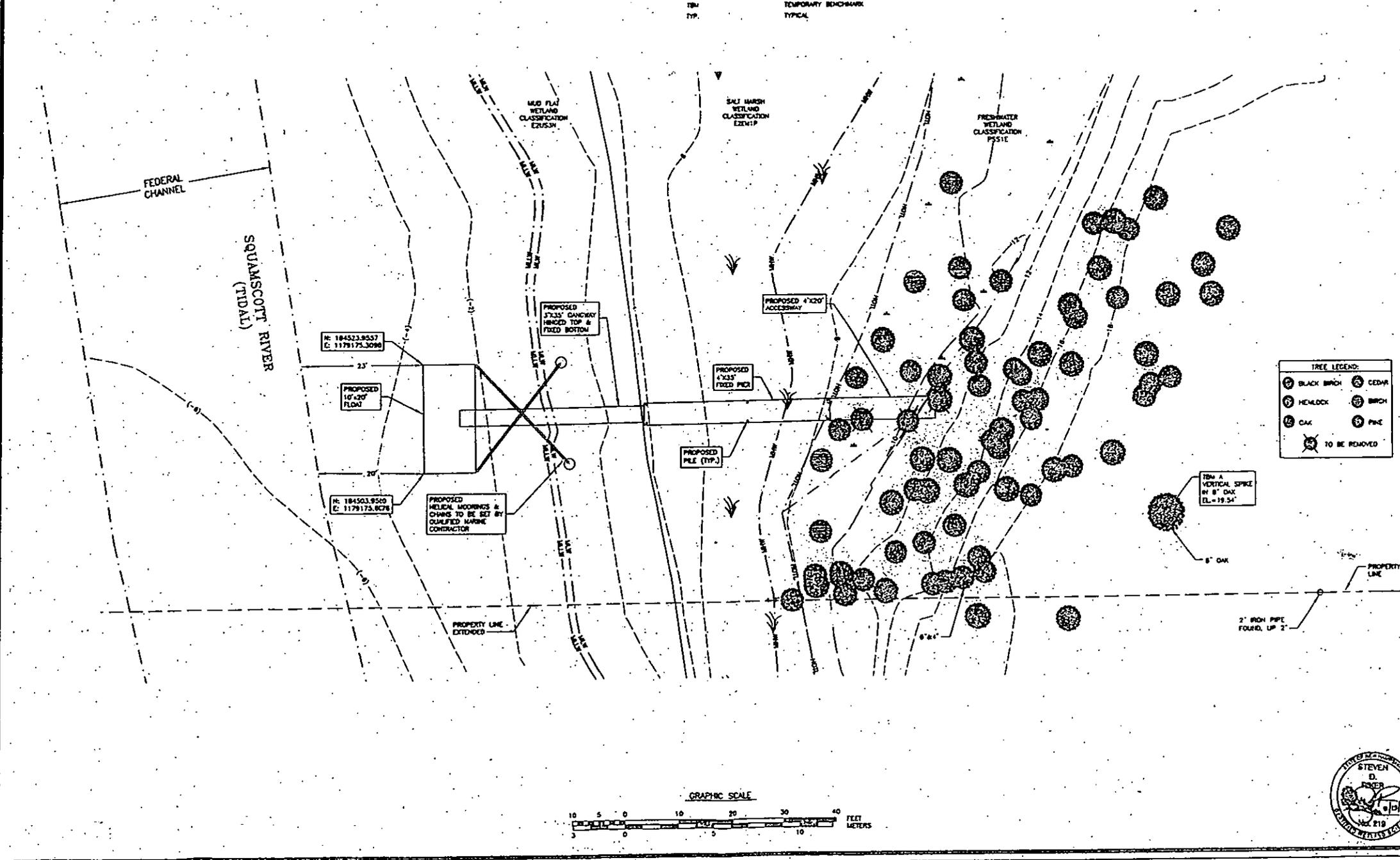
- LEGEND:**
- N/F RECORD
 - R/C/RD RECORD
 - IRON ROD/IRON PIPE FOUND
 - STONE/CONCRETE BOUND FOUND
 - MEAN HIGH WATER LINE
 - MEAN LOW WATER LINE
 - NH DES HIGHEST OBSERVABLE TIDE LINE
 - WETLAND BUFFER LINE
 - CONTOUR
 - SPOT ELEVATION
 - SALT MARSH AREA
 - TEMPORARY BENCHMARK
 - ELEVATION
 - INVERT
 - TEMPORARY BENCHMARK TYPICAL

AMBIT ENGINEERING, INC.
Civil Engineers & Land Surveyors
300 Griggs Road - Unit 3
Portsmouth, N.H. 03801-7114
Tel (603) 436-9882
Fax (603) 436-2513



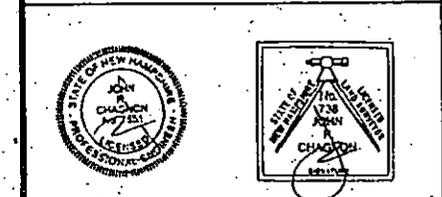
- NOTES:**
- 1) PARCEL IS SHOWN ON THE TOWN OF STRATHAM ASSESSOR'S MAP 8 AS LOT 68.
 - 2) OWNERS OF RECORD:
MICHAEL BATES & REBECCA BATES
8 OXBOW FARM RD
STRATHAM, NH 03855
R.C.R.D. 5858/215
 - 3) A PORTION OF THE PARCEL IS IN A FLOOD HAZARD ZONE AE (EL. = 7 FT) AS SHOWN ON FIRM PANEL 33015C0239F, DATED 1/29/2021.
 - 4) EXISTING LOT AREA:
138,085 S.F.
3.17 ACRES
 - 5) PARCEL IS LOCATED IN THE RESIDENTIAL / AGRICULTURAL ZONING DISTRICT.
 - 6) DIMENSIONAL REQUIREMENTS:
MIN. LOT AREA: 2 ACRES
FRONTAGE: 200 FT.
SETBACKS:
FRONT: 30 FT.
SIDE: 20 FT.
REAR: 20 FT.

MAXIMUM STRUCTURE HEIGHT: 35 FT.
MAXIMUM STRUCTURE COVERAGE: 20%
MINIMUM OPEN SPACE: 60%
 - 7) THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED DOCK ON TAX MAP 8, LOT 68 IN THE TOWN OF STRATHAM.
 - 8) PROPERTY LINES AND PROPERTY LINES EXTENDED ARE FROM PLAN REFERENCE 1. THIS IS NOT A BOUNDARY SURVEY.
 - 9) VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW). BASIS OF VERTICAL DATUM IS REDUNDANT RTM GNSS OBSERVATIONS (+/- 0.2'). REDUCTION FROM NAVD 88 TO MLLW BASED ON NOAA STATION 8420411, COCHECO RIVER.



BATES RESIDENCE
OXBOW FARM RD
STRATHAM, N.H.

NO.	DESCRIPTION	DATE
1	ISSUED FOR APPROVAL	8/10/21
0	ISSUED FOR COMMENT	7/7/21



SCALE: 1" = 10'
JUNE 2021
NHDES PERMIT PLAN
C2

SEQUENCE OF CONSTRUCTION

- 1) MOBILIZATION OF A CRANE BARGE, PUNCH BOAT, WORK SKIFF, MATERIALS AND PREFABRICATED COMPONENTS SUCH AS THE GANGWAY AND FLOAT TO THE SITE VIA APPROVED ACCESS.
- 2) MOBILIZATION OF EQUIPMENT TRUCKS TO THE SITE.
- 3) THE BARGE WILL BE POSITIONED ALONGSIDE THE PROPOSED LOCATION OF THE NEW DOCK AND WATERWARD OF ANY EXISTING VEGETATION TO MINIMIZE IMPACTS.
- 4) INSTALLATION OF THE SUB STRUCTURE WILL BE PERFORMED FROM A CRANE BARGE OR SKIFF TO REDUCE THE AMOUNT OF FOOT TRAFFIC IN THE INTERTIDAL AREA.
- 5) ALL WORK WILL BE PERFORMED AT LOW TIDE TO MINIMIZE SEDIMENTATION.
- 6) PILING WILL BE MECHANICALLY DRIVEN BY A CRANE ELIMINATING ANY EXCAVATION FOR INSTALLATION OF THE PILING. PILING ARE DRIVEN TO REFUSE.
- 7) PILING ARE CUT AND BEAM CAPS ARE INSTALLED AND THE SUPER STRUCTURE OF THE PIER IS BUILT. MATERIALS ARE LIFTED FROM THE BARGE AND SET INTO POSITION BY THE CRANE.
- 8) ONCE THE PIER IS COMPLETE, THE GANGWAY AND FLOAT ARE BROUGHT INTO POSITION AND INSTALLED.

DISCHARGES, AVOIDANCE, MINIMIZATION AND MITIGATION

DISCHARGES OF DREDGED OR FILL MATERIAL INTO WATERS OF THE U.S. AND ANY SECONDARY IMPACTS SHALL BE AVOIDED AND MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. PERMITTEES MAY ONLY FILL THOSE JURISDICTIONAL WETLANDS AND WATERWAYS THAT THE CORP AND INDICES AUTHORIZES TO BE FILLED AND IMPACT THOSE AREAS THAT THE CORP AND INDICES AUTHORIZES AS SECONDARY IMPACTS. IF NOT SPECIFICALLY AUTHORIZED BY USACE AND AND INDICES, ANY UNAUTHORIZED FILL OR SECONDARY IMPACT TO WETLANDS MAY BE CONSIDERED AS A VIOLATION OF THE CWA. UNLESS SPECIFICALLY AUTHORIZED USACE AND AND INDICES, NO WORK SHALL DRAIN A WATER OF THE U.S. BY PROVIDING A CONDUIT FOR WATER ON OR BELOW THE SURFACE.

HEAVY EQUIPMENT IN FRESH WATER WETLANDS

HEAVY EQUIPMENT OTHER THAN FIXED EQUIPMENT (DRILL RIGS, FIXED CRANES, ETC.) WORKING IN WETLANDS SHALL NOT BE STORED, MAINTAINED OR REPAIRED IN WETLANDS, UNLESS IT IS LESS ENVIRONMENTALLY DAMAGING OTHERWISE, AND AS MUCH AS POSSIBLE SHALL NOT BE OPERATED WITHIN THE INTERTIDAL ZONE. WHERE CONSTRUCTION REQUIRES HEAVY EQUIPMENT OPERATION IN WETLANDS, THE EQUIPMENT SHALL EITHER HAVE LOW GROUND PRESSURE (<1.5 PSI), OR SHALL NOT BE LOCATED DIRECTLY ON WETLAND SOILS AND VEGETATION; IT SHALL BE PLACED ON SWAMP MATS THAT ARE ADEQUATE TO SUPPORT THE EQUIPMENT IN SUCH A WAY AS TO MINIMIZE DISTURBANCE OF WETLAND SOIL AND VEGETATION. SWAMP MATS ARE TO BE PLACED IN THE WETLAND FROM THE UPLAND OR FROM EQUIPMENT POSITIONED ON SWAMP MATS IF WORKING WITHIN A WETLAND. BRACING SWAMP MATS INTO POSITION IS PROHIBITED. OTHER SUPPORT STRUCTURES THAT ARE LESS IMPACTING AND ARE CAPABLE OF SAFELY SUPPORTING EQUIPMENT MAY BE USED WITH WRITTEN CORPS AND INDICES AUTHORIZATION. SIMILARLY, NOT USING MATS DURING FROZEN, DRY OR OTHER CONDITIONS MAY BE ALLOWED WITH WRITTEN CORPS AND INDICES AUTHORIZATION. AN ADEQUATE SUPPLY OF SPILL CONTAINMENT EQUIPMENT SHALL BE MAINTAINED ON SITE. CONDUIT ROADS AND SWAMP/CONSTRUCTION MATS ARE CONSIDERED AS FILL WHETHER THEY'RE INSTALLED TEMPORARILY OR PERMANENTLY.

TIME OF YEAR WORK WINDOW AND NOISE RESTRICTIONS

- A. PILES INSTALLED IN-THE-DRY DURING LOW WATER OR IN-WATER BETWEEN NOV. 8TH - APR. 9TH, OR
 - B. MUST BE DRILLED AND PILED TO LEDGE, OR
 - C. VIBRATORY HAMMERS USED TO INSTALL ANY SIZE AND QUANTITY OF WOOD, CONCRETE OR STEEL PILES, OR
 - D. IMPACT HAMMERS LIMITED TO ONE HAMMER AND 450 PILES/INSTALLED/DAY WITH THE FOLLOWING: WOOD PILES OF ANY SIZE, CONCRETE PILES 18-INCHES DIAMETER, STEEL PILES 12-INCHES DIAMETER IF THE HAMMER IS 4,500 LBS. AND A WOOD CUSHION IS USED BETWEEN THE HAMMER AND STEEL PILE.
- FOR 8-11 ABOVE:
- I. IN-WATER NOISE LEVELS SHALL NOT >187dB SEL RE 6/9h OR 206dB PEAK RE 6/9h AT A DISTANCE >100' FROM THE PILE BEING INSTALLED, AND
 - II. IN-WATER NOISE LEVELS >155dB PEAK RE 6/9h SHALL NOT EXCEED 12 CONSECUTIVE HOURS ON ANY GIVEN DAY AND A 12 HOUR RECOVERY PERIOD (I.E., IN-WATER NOISE BELOW 155dB PEAK RE 6/9h) MUST BE PROVIDED BETWEEN WORK DAYS.

WORK SITE RESTORATION

- 1) UPON COMPLETION OF CONSTRUCTION, ALL DISTURBED WETLAND AREAS SHALL BE PROPERLY STABILIZED. ANY SEED MIX SHALL CONTAIN ONLY PLANT SPECIES NATIVE TO NEW ENGLAND.
- 2) THE INTRODUCTION OR SPREAD OF INVASIVE PLANT SPECIES IN DISTURBED AREAS IS PROHIBITED.
- 3) IN AREAS OF AUTHORIZED TEMPORARY DISTURBANCE, IF TREES ARE CUT THEY SHALL BE CUT AT GROUND LEVEL AND NOT UPROOTED IN ORDER TO PREVENT DISRUPTION TO THE WETLAND SOIL STRUCTURE AND TO ALLOW STUMP SPROUTS TO REVEGETATE THE WORK AREA, UNLESS OTHERWISE AUTHORIZED.
- 4) WETLAND AREAS WHERE PERMANENT DISTURBANCE IS NOT AUTHORIZED SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ELEVATION, WHICH UNDER NO CIRCUMSTANCES SHALL BE HIGHER THAN THE PRE-CONSTRUCTION ELEVATION. ORIGINAL CONDITION MEANS CAREFUL PROTECTION AND/OR REMOVAL OF EXISTING SOIL AND VEGETATION, AND REPLACEMENT BACK TO THE ORIGINAL LOCATION SUCH THAT THE ORIGINAL SOIL LAYERING AND VEGETATION SCHEMES ARE APPROXIMATELY THE SAME, UNLESS AUTHORIZED.

SEDIMENTATION AND EROSION CONTROL

ADEQUATE SEDIMENTATION AND EROSION CONTROL MEASURES, PRACTICES AND DEVICES, SUCH AS PHASED CONSTRUCTION, VEGETATED FILTER STRIPS, GEOTEXTILE SILT FENCES, STORMWATER DETENTION AND INFILTRATION SYSTEMS, SEDIMENT DETENTION BASINS, OR OTHER DEVICES SHALL BE INSTALLED AND PROPERLY MAINTAINED TO REDUCE DROGON AND RETAIN SEDIMENT ON-SITE DURING AND AFTER CONSTRUCTION. THEY SHALL BE CAPABLE OF PREVENTING EROSION, OF COLLECTING SEDIMENT, SUSPENDED AND FLOATING MATERIALS, AND OF FILTERING FINE SEDIMENT. THE DISTURBED AREAS SHALL BE STABILIZED AND THESE DEVICES SHALL BE REMOVED UPON COMPLETION OF WORK. THE SEDIMENT COLLECTED BY THESE DEVICES SHALL BE REMOVED AND PLACED AT AN UPLAND LOCATION, IN A MANNER THAT WILL PREVENT ITS LATER EROSION INTO A WATERWAY OR WETLAND. ALL EXPOSED SOIL AND OTHER FILLS SHALL BE PERMANENTLY STABILIZED AT THE EARLIEST PRACTICABLE DATE.

SPAWNING AREAS

DISCHARGES OF DREDGED OR FILL MATERIAL AND/OR SUSPENDED SEDIMENT PRODUCING ACTIVITIES IN FISH AND SHELLFISH SPAWNING OR NURSERY AREAS, OR AMPHIBIAN AND MIGRATORY BIRD BREEDING AREAS, DURING SPAWNING OR BREEDING SEASONS SHALL BE AVOIDED. IMPACTS TO THESE AREAS SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE DURING ALL TIMES OF THE YEAR. INFORMATION ON SPAWNING HABITAT FOR SPECIES MANAGED UNDER THE WILCOXSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT (I.E., ETH FOR SPAWNING ADULTS) CAN BE OBTAINED FROM THE JMW'S WEBSITE AT: WWW.MEROMAG.COM/NEC.

STORAGE OF SEASONAL STRUCTURES

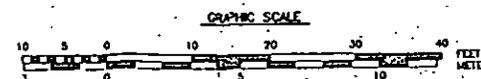
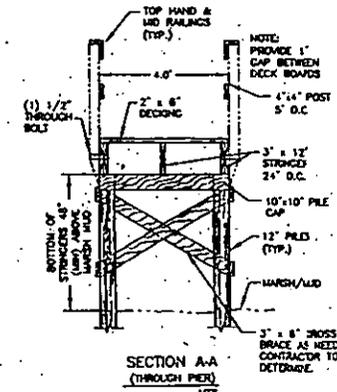
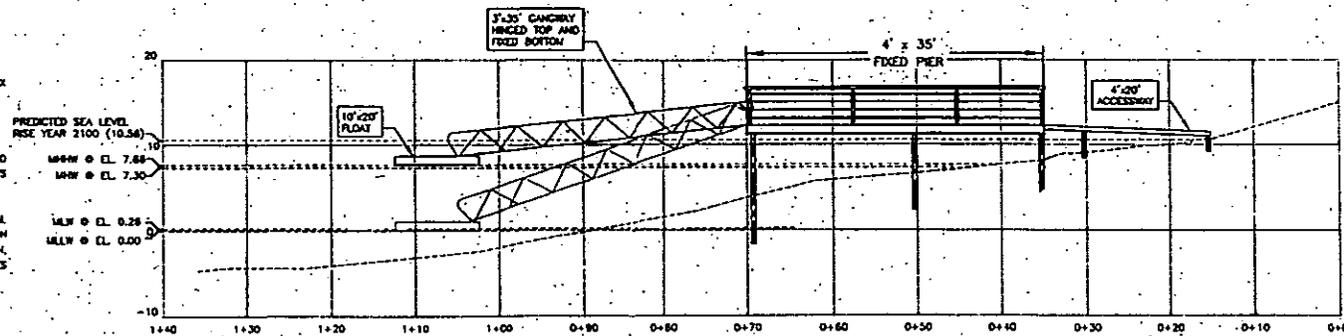
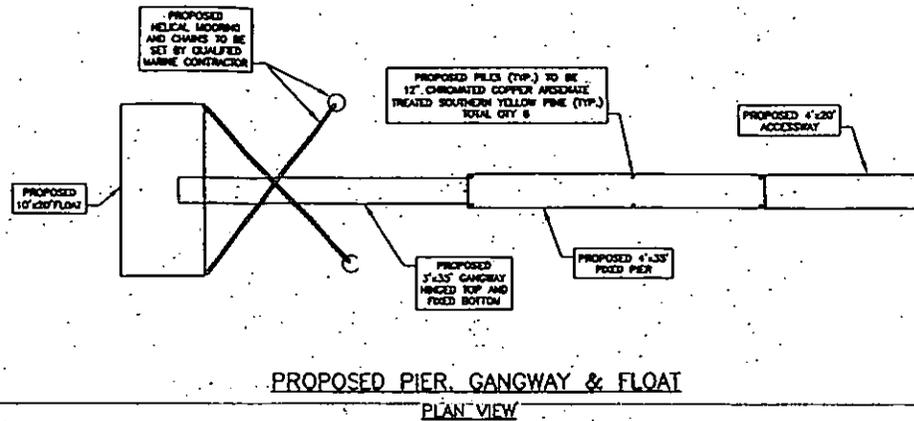
COASTAL STRUCTURES SUCH AS PIER SECTIONS, FLOATS, ETC., THAT ARE REMOVED FROM THE WATERWAY FOR A PORTION OF THE YEAR (OFTEN REFERRED TO AS SEASONAL STRUCTURES) SHALL BE STORED IN AN UPLAND LOCATION, LOCATED ABOVE HIGHEST OBSERVABLE TIDE LINE (HOTL) AND NOT IN TIDAL WETLANDS. THESE SEASONAL STRUCTURES MAY BE STORED ON THE FIXED, PILE-SUPPORTED PORTION OF THE STRUCTURE THAT IS SEAWARD OF HOTL. THIS IS INTENDED TO PREVENT STRUCTURES FROM BEING STORED ON THE MARSH SUBSTRATE AND THE SUBSTRATE SEAWARD OF MHW.

ENVIRONMENTAL FUNCTIONS AND VALUES

THE PERMITTEE SHALL MAKE EVERY REASONABLE EFFORT TO 1) CARRY OUT THE CONSTRUCTION OR OPERATION OF THE WORK AUTHORIZED BY USACE AND INDICES HEREIN IN A MANNER THAT MINIMIZES ADVERSE IMPACTS ON FISH, WILDLIFE AND NATURAL ENVIRONMENTAL VALUES, AND 2) PROHIBIT THE ESTABLISHMENT OR SPREAD OF PLANT SPECIES IDENTIFIED AS NON-NATIVE INVASIVE SPECIES BY ANY FEDERAL OR STATE AGENCY. SEE THE SECTION ON INVASIVE SPECIES AT HTTP://WWW.HUSACE.EARHY.MIL/REGULATORY/ FOR CONTROL METHODS.

INSPECTIONS

THE PERMITTEE SHALL ALLOW THE CORPS AND INDICES TO MAKE PERIODIC INSPECTIONS AT ANY TIME DEEMED NECESSARY IN ORDER TO ENSURE THAT THE WORK IS BEING OR HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT. THE CORPS AND INDICES MAY ALSO REQUIRE POST-CONSTRUCTION ENGINEERING DRAWINGS FOR COMPLETED WORK AND POST-DREDGING SURVEY DRAWINGS FOR ANY DREDGING WORK.



AMBFT ENGINEERING, INC.
Civil Engineers & Land Surveyors
200 Crillon Road - Unit 3
Portsmouth, N.H. 03801-7111
Tel (603) 439-9283
Fax (603) 439-3215

RIVERSIDE ENGINEERING
MARINE STRUCTURE CONTRACTORS

- NOTES:**
- 1) THE CONTRACTOR SHALL NOTIFY DNG SAFE AT 1-888-DNG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.
 - 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
 - 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION." (NHDES DECEMBER 2008).
 - 4) NUMBER OF PILES TO BE DRIVEN FOR DOCKING STRUCTURE NOT TO EXCEED 6 AS DEPICTED ON PROPOSED DOCK ELEVATION. ALSO NOTE TIME OF YEAR AND NOISE RESTRICTIONS FOR DRIVING OF PILES.
 - 5) VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW). BASIS OF VERTICAL DATUM IS REDUNDANT RTN CHSS OBSERVATIONS (+/- 0.2'). REDUCTION FROM NAVD 88 TO MLLW BASED ON NOAA STATION 8420411, COCHECO RIVER.

**BATES RESIDENCE
OXBOW FARM RD
STRATHAM, N.H.**

0	ISSUED FOR COMMENT	7/8/21
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NO.	DESCRIPTION	DATE
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REVISIONS

SCALE: AS SHOWN JUNE 2021

DOCK DETAILS **D1**