



The State of New Hampshire
Department of Environmental Services



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Robert R. Scott, Commissioner

July 14, 2021

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

REQUESTED ACTION

Approve Bruce Erickson's and Elizabeth Levey-Pruyn's request to perform work on the Piscataqua River in Portsmouth as outlined below. This request is pursuant to New Hampshire Department of Environmental Services (NHDES) file #2021-00321. This project will not have significant impact on, or adversely affect, the values of the Piscataqua River.

This project will impact five square feet in the previously developed upland tidal buffer zone, and 316 square feet of tidal wetland, to construct a tidal docking structure consisting of a 4-foot by 4-foot permanent access landing connected to a 3-foot by 35-foot seasonal ramp connected to a 10-foot by 20-foot seasonal float; and, temporarily impact 60 square feet of tidal wetland to replace an existing wooden staircase in-kind. The overall length of the docking structure, seaward of the highest observable tide line, is 48 feet, providing one slip on 56 feet of frontage along the Piscataqua River (Perkins Cove).

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

1. All work shall be done in accordance with the approved plans dated November 23, 2020, revised through April 29, 2021, by Matthew Cardin, and last received by the NH Department of Environmental Services (NHDES) on May 10, 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. Pile installation shall not occur between April 1 and June 15, in order to protect anadromous fish, in accordance with Env-Wt 307.10(i) and Env-Wt 311.06(g)
4. 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).
5. All work shall be done at low tide when the work area is fully exposed, in accordance with Env-Wt 609.10(b)(4).
6. 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).
7. Tidal docking construction shall be done in accordance with the standard conditions in Env-Wt 307.

www.des.nh.gov

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. Heavy equipment shall not be operated in any jurisdictional area unless specifically authorized by this permit, in accordance with Env-Wt 307.15(a).

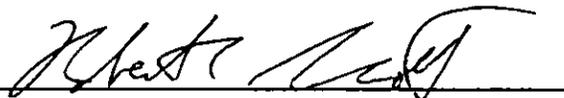
EXPLANATION

The NHDES approved this project on June 2, 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 or tidal 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 and the type of approval required.
3. Per Rule Env-Wt 311.06(h), the municipal conservation commission recommended approval of the proposed project in correspondence dated March 18, 2021.
4. Per Rule Env-Wt 313.01(a)(2), all applicable conditions specified in Env-Wt 307 have been met.
5. Per Rule Env-Wt 313.01(a)(3), all resource-specific and project-specific criteria established in Env-Wt 600 have been met.
6. 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' based on documentation that the proposed dredge and fill activity will be located entirely within the boundary of the applicant's property interest and will not result in any observable change in off-site surface water levels or flows.
7. Per RSA 482-A:3, XIII(c), the applicant has provided NHDES with written, notarized, consent from the abutting property owner for the proposed docking structure to be located within 20 feet of the shared property boundary.
8. 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.
9. Per Rule Env-Wt 603.09, the applicant obtained a statement, dated January 08, 2021, from the Pease Development Authority, Division of Ports and Harbors regarding the projects impact on navigation and passage.
10. 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: Bruce Erickson, Elizabeth Levey-Pruyn TOWN NAME: Portsmouth

			File No. <u>2021-0032</u>
			Check No. <u>1176</u>
			Amount: <u>\$1,016.40</u>
			Initials: <u>LSL</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 (NHFG) 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>Shortnose Sturgeon, Atlantic Sturgeon</u> NHB Project ID #: <u>NHB20-3673</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 checked="" type="checkbox"/> Yes <input 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> </u> A copy of the application was sent to the LAC on Month: <u> </u> Day: <u> </u> Year: <u> </u> 	

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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For stream crossing projects, provide watershed size (see WPPT or Stream Stats):

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 application proposes 316 sq. ft. of permanent impact to tidal wetland and approximately 5 sq. ft. of permanent impact to previously developed 100' tidal buffer zone for a tidal docking structure that consists of a permanent 4' x 4' access deck that straddles the highest observable tide line, connected to a seasonal 3' x 35' aluminum gangway, connected to a 10' x 20' seasonal float supported by two permanently installed 12" diameter Class A CCA treated timber piles with associated float stops (overall structure length is 49'). The tidal docking structure provides 1 slip on approximately 55' of frontage along the Piscataqua River.

Additional details are as follows:

Float stops will be installed and will be comprised of (2) 12" diameter Class A CCA treated timber piles installed on the northern end of the proposed float with (2) 3x10" stringers connected to the supporting float piles located on the southern side of the float. Float stops will be set to allow minimum 2 feet from float to marine bottom.

The permanent 4' x 4' access deck will be supported by (2) timber piles on the seaward (north) side and deck posts on the landward (south) side to a depth of approximately 2-4' deep.

Timber piles, seasonal gangway and float are to be installed via a barge during low tide cycles. The 4' x 4' access deck is to be installed from land. The use for heavy equipment is not required and minimal ground disturbance is expected outside of the two post holes necessary to support the deck to the ground.

Appropriate erosion controls will be installed on the upland side and turbidity curtains will be installed and maintained through the duration of construction.

SECTION 3 - PROJECT LOCATION
 Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS: 35 Salter Street

TOWN/CITY: Portsmouth

TAX MAP/BLOCK/LOT/UNIT: Map 102 Lot 29

US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Piscataqua River
 N/A

(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):
 ° North
 ° West

SECTION 4 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 311.04(a))		
If the applicant is a trust or a company, then complete with the trust or company information.		
NAME: Bruce Erickson and Elizabeth Levey-Pruyn		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS: <i>bruce@herick.com</i>		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here: <i>BLE</i> , I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))		
<input type="checkbox"/> N/A		
LAST NAME, FIRST NAME, M.I.: Cardin, Matthew R		
COMPANY NAME: Cardin Environmental Consulting and Permitting		
MAILING ADDRESS: 30 Old Post Road		
TOWN/CITY: Newington	STATE: NH	ZIP CODE: 03801
EMAIL ADDRESS: matt@cardinenvironmental.com		
FAX:	PHONE: 603-988-6635	
ELECTRONIC COMMUNICATION: By initialing here MRC, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 6 - PROPERTY OWNER INFORMATION (IF DIFFERENT THAN APPLICANT) (Env-Wt 311.04(b))		
If the owner is a trust or a company, then complete with the trust or company information.		
<input checked="" type="checkbox"/> Same as applicant		
NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

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 that includes Avoidance and Minimization Checklist, Coastal Functional Assessment, a Vulnerability Assessment, methods to protect and minimize impacts to natural resources during and as a result of constructing the project and design criteria, water depths, statement regarding impact to navigation and passage and appropriate data screening figures.

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 type="checkbox"/>			<input type="checkbox"/>
	Scrub-shrub Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Emergent Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Wet Meadow			<input type="checkbox"/>			<input type="checkbox"/>
	Vernal Pool			<input type="checkbox"/>			<input type="checkbox"/>
	Designated Prime Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Duly-established 100-foot Prime Wetland Buffer			<input type="checkbox"/>			<input type="checkbox"/>
Surface Water	Intermittent / Ephemeral Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Perennial Stream or River			<input type="checkbox"/>			<input type="checkbox"/>
	Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - River			<input type="checkbox"/>			<input type="checkbox"/>
Banks	Bank - Intermittent Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Bank - Perennial Stream / River			<input type="checkbox"/>			<input type="checkbox"/>
	Bank / Shoreline - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
Tidal	Tidal Waters			<input type="checkbox"/>			<input type="checkbox"/>
	Tidal Marsh			<input type="checkbox"/>			<input type="checkbox"/>
	Sand Dune			<input type="checkbox"/>			<input type="checkbox"/>
	Undeveloped Tidal Buffer Zone (TBZ)			<input type="checkbox"/>			<input type="checkbox"/>
	Previously-developed TBZ	5		<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Tidal Water	316		<input type="checkbox"/>			<input type="checkbox"/>
TOTAL		321					

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

MINIMUM IMPACT FEE: Flat fee of \$400.

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).

MINOR OR MAJOR IMPACT FEE: Calculate using the table below:

Permanent and temporary (non-docking): 16 SF × \$0.40 = \$6.40

Seasonal docking structure: 305 SF × \$2.00 = \$610

Permanent docking structure: SF × \$4.00 = \$

Projects proposing shoreline structures (including docks) add \$400 = \$400

Total = \$1,016.4

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

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

www.des.nh.gov

The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$

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

Minimum Impact Project
 Minor Project
 Major Project

SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)

Initial each box below to certify:

Initials: *ME*
 To the best of the signer's knowledge and belief, all required notifications have been provided.

Initials: *ME*
 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: *ME*
 The signer understands that:

- The submission of false, incomplete, or misleading information constitutes grounds for NHDES to:
 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: *ME*
 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): <i>[Signature]</i>	PRINT NAME LEGIBLY: Bruce A. Erickson	DATE: 12/29/20
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE): <i>[Signature]</i>	PRINT NAME LEGIBLY: Matthew Carson	DATE: 1/30/21

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: <i>[Signature]</i>	PRINT NAME LEGIBLY: Kelli L. Barnaby
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TOWN/CITY: Portsmouth	DATE: 2-5-2021
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DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3, I(a)(1)

1. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
2. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
3. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board.
4. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

Submit the original permit application form bearing the signature of the Town/City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery at the address at the bottom of this page. Make check or money order payable to "Treasurer – State of NH".

Abutter List

Owner: Bruce Erickson & Elizabeth Levey-Pruyn

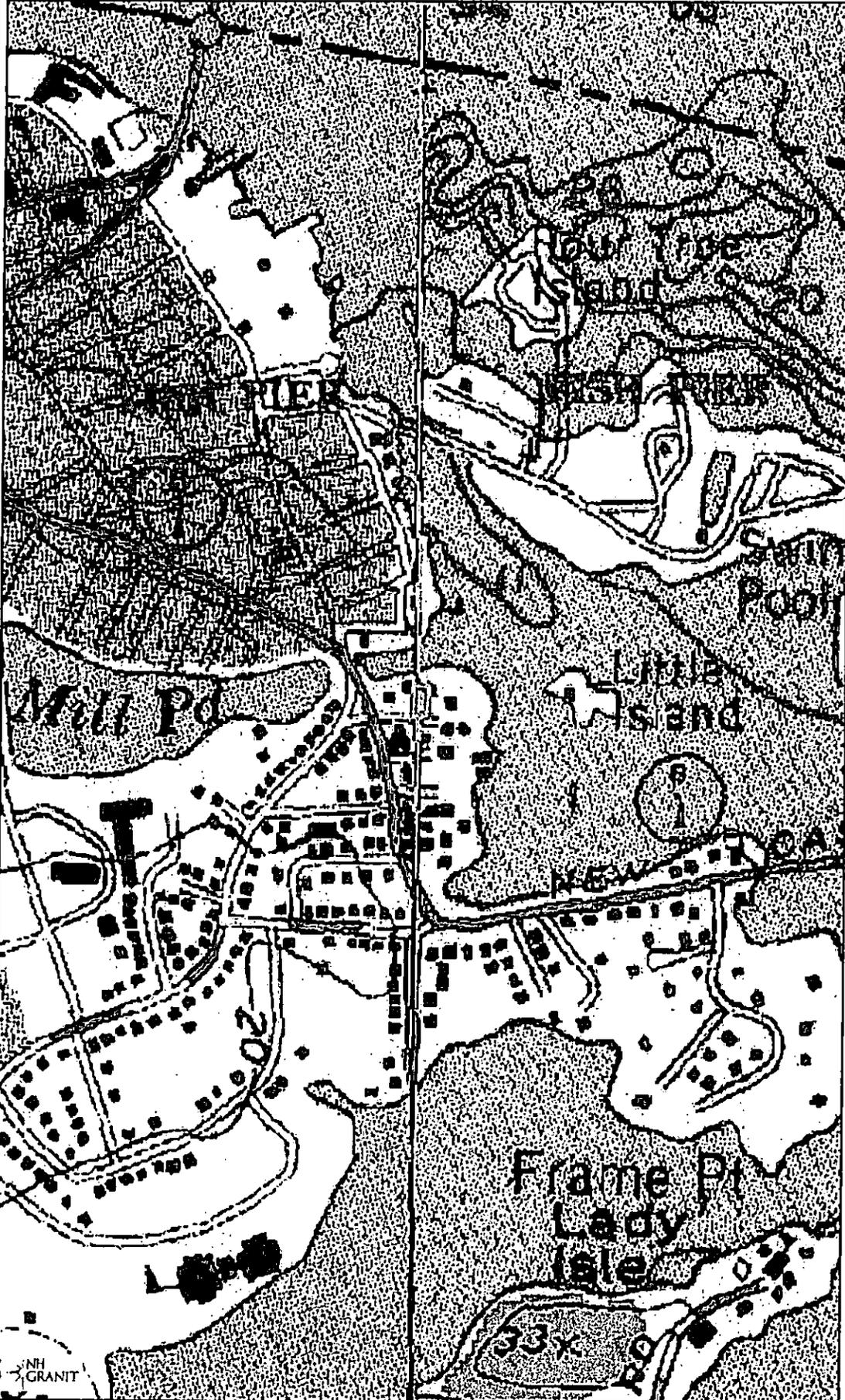
Site Location: 35 Salter Street, Portsmouth, NH

Map 102, Lot 9

Map	Lot	Name	Mailing Address	Street Address
102	28	Gregg Nicole R Revocable Trust		13 Salter Street, Unit 1, Portsmouth, NH 03801
102	30	Arna DiMambro, Michael Lewis, Peter Lewis		41 Salter Street, Portsmouth, NH 03801



Map by NH GRANIT - 35 Salter Street, Portsmouth, NH

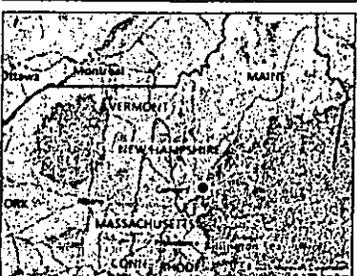


- Legend**
- Polygons
 - State
 - County
 - City/Town

Map Scale
1: 6,494

© NH GRANIT, www.granit.unh.edu
Map Generated: 2/5/2021

Notes
USGS 7.5' Quad



This application contains 4 pages of Confidential Information that was provided by the New Hampshire Department of Natural and Cultural Resources, Natural Heritage Bureau. This information is being withheld from disclosure to the public.

Any questions regarding the confidential information should be directed to Pamela G. Monroe, Legal Unit Administrator, NHDES at pamela.g.monroe@des.nh.gov or (603) 271-3137.

Abutter List

Owner: Bruce Erickson & Elizabeth Levey-Pruyn

Site Location: 35 Salter Street, Portsmouth, NH

Map 102, Lot 9

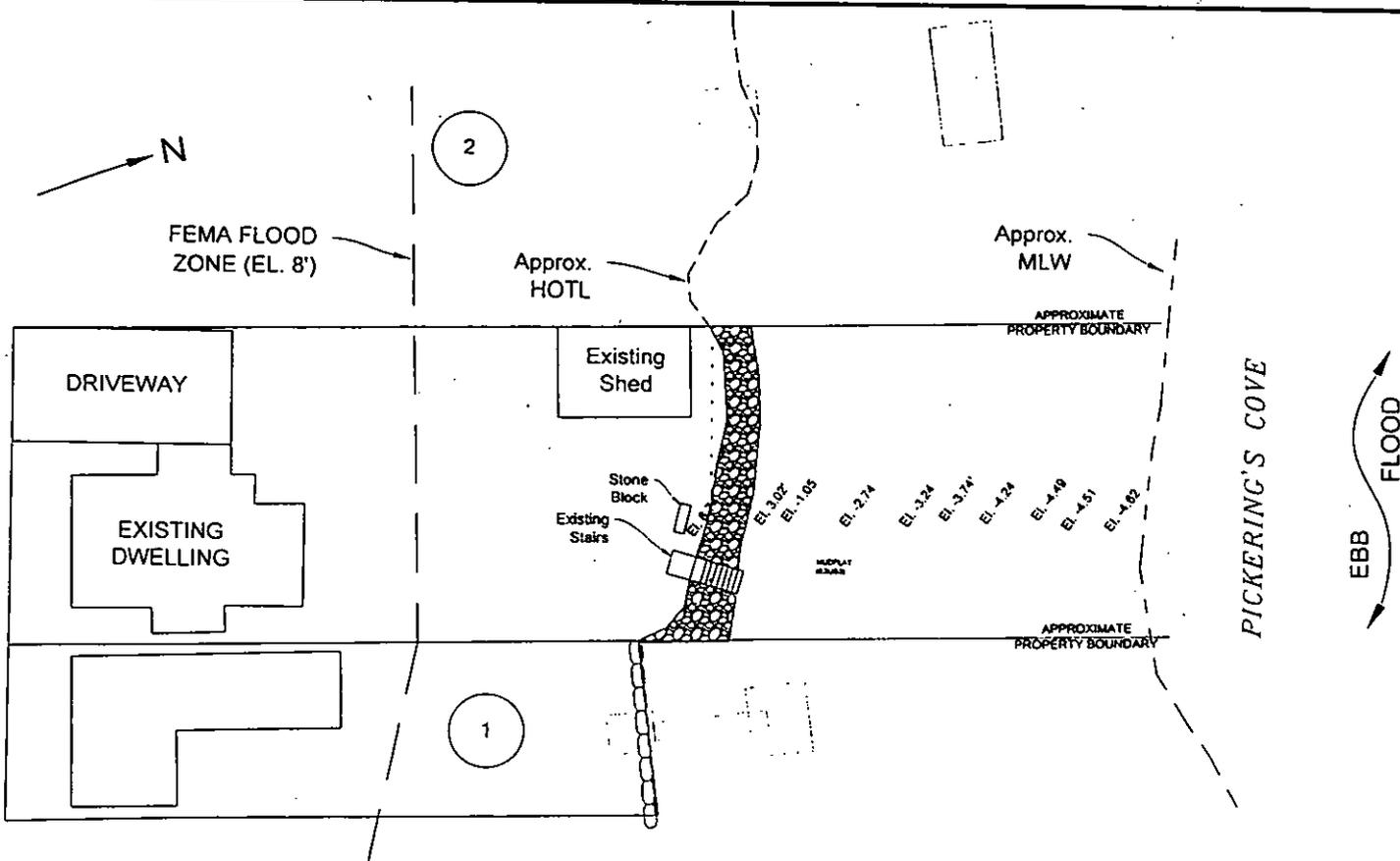
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Applicant:
 BRUCE ERICKSON 7 ELIZABETH PRUYN
 35 SALTER STREET, PORTSMOUTH, NH
 TAX MAP 102, LOT 29
 LOT AREA: 0.13 Acres
 Frontage: ~ 56' Perkins Cover (Piscataqua River)

ADJACENT PROPERTY OWNERS:
 1. MAP 102, LOT 30 - ARNA DIMAMBRO, MICHAEL LEWIS, PETER LEWIS
 2. MAP 102, LOT 28 - GREGG NICOLE R REVOCABLE TRUST.

NOTES:
 1. Highest observable tide line determined by Matt Cardin, NH CWS #284 on July 27, 2020 per Env-WI 602.23.
 2. Water depth measurements portrayed in NAVD88 and determined by R. Alex Ross, LLS # 907
 3. FEMA Flood Zone AE based on FIRM Area Number 33015C0278F, effective 1/29/2021



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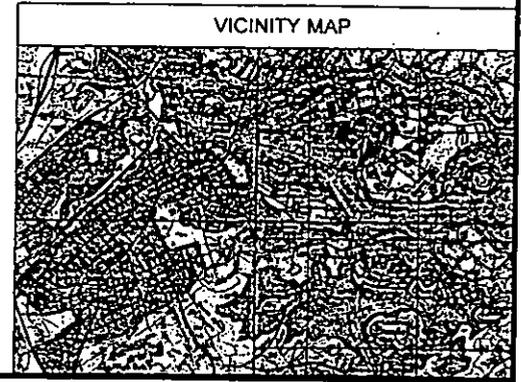
MAY 10 2021

ENVIRONMENTAL SERVICES
 "BY NH DES WETLANDS BUREAU"

EXISTING SITE PLAN
 SCALE: 1" = 20'

LEGEND

- Water depth - "El. -2.74"
- Highest observable tide line - - - - -
- Mean Low Water - - - - -
- Rip-Rap Slope - [Pattern]

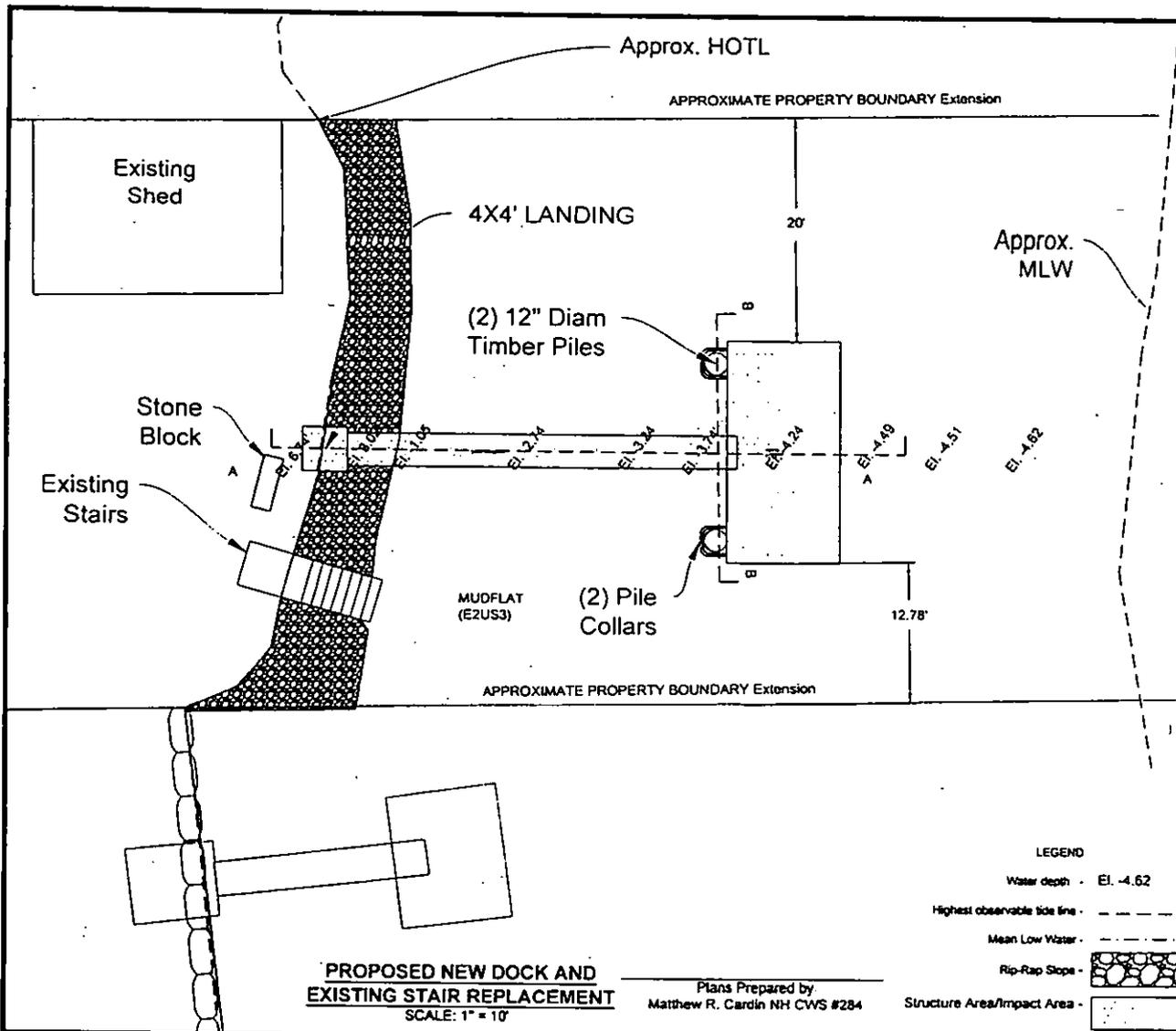


Plans Prepared by
 Matthew R. Cardin NH CWS #284

Prepared For:
 TM MARINE CONSTRUCTION
 480 NEWINGTON ROAD
 NEWINGTON, NH 03801

Prepared By:
 Matthew Cardin, NH CWS

EXISTING CONDITIONS	PROPOSED: NEW DOCK STRUCTURE AND EXISTING STAIR REPLACEMENT
ON: PISCATAQUA RIVER	
TOWN: PORTSMOUTH	AT: 35 SALTER ST STATE: NH
SHEET: 1 of 3	DATE: NOVEMBER 23, 2020 (REV 1 4/29/2021)



PROPOSED NEW DOCK AND EXISTING STAIR REPLACEMENT
SCALE: 1" = 10'

Plans Prepared by
Matthew R. Cardin NH CWS #284

- LEGEND**
- Water depth - El. -4.62
 - Highest observable tide line - - - - -
 - Mean Low Water - - - - -
 - Rip-Rap Slope - [Pattern]
 - Structure Area/Impact Area - [Pattern]

Permitting Notes:

1. Waiver for twenty-foot setback for over water structure has been granted along eastern property boundary.
2. The work area or proposed dock location does not contain SAS. No vegetated shallows were observed within 25' of proposed dock structure.
3. Water depths surveyed by Alex Ross, LLS #906 and are shown in NAVD88.
4. HOTL identified by Matthew Cardin, NHCWS #284 on July 27, 2020 per Env-Wt 602.23.
5. Float and gangway to be seasonal structures and removed during winter months when use is not expected.
5. Engineering notes shown on Sheet 3 of 3.

Construction Notes & Sequence:

1. Proposed dock structure: 4'x4' landing, 3'x35' gangway, 20'x10' float with two, 12' CCA treated timber piles for a total of 321 sq. ft.
2. All materials with dock structure to be CCA treated lumber and galvanized hardware
3. Float and gangway are to be pre-assembled off-site. CCA treated lumber to be pre-treated prior to arrival at site.
4. Existing water front access stairs to be replaced in-kind and in-place using pressure treated wood. Approximately 4'x4.5' landing and 9 stairs.
5. Per NH Fish and Game, construction is required to occur outside of the imposed time of year restriction for construction, which occurs between April 1 to June 15th.
6. Barge, push boat and skiff to be mobilized during high-tide and positioned alongside proposed float location and close enough to shore to shore to not negatively affect navigability.
7. All work to be done during low-tide intervals where there is no flowing water within the work area.
8. Temporary turbidity curtain to be placed around work area during high tide to once construction has temporarily stopped.
9. Piles will be mechanically driven by crane to a depth needed to meet lateral load test requirements of 432 pounds at El. 10.3. If pile embedment cannot resist test load, refer to Note 7 on Sheet 3 of 3.
10. Float stop piles will be cut to appropriate height - approximately 24" above substrate surface. Stringers will be fastened to float piles and float stop piles. This work will be done on foot within inter-tidal area and during low tide and during low-tide to minimize turbidity.
11. The pre-assembled float and gangway to be lifted from the barge via crane and placed into position and installed.

Prepared For:
TM MARINE CONSTRUCTION
480 NEWINGTON ROAD
NEWINGTON, NH 03801

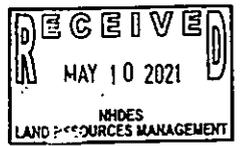
Prepared By:
Matthew Cardin, NH CWS

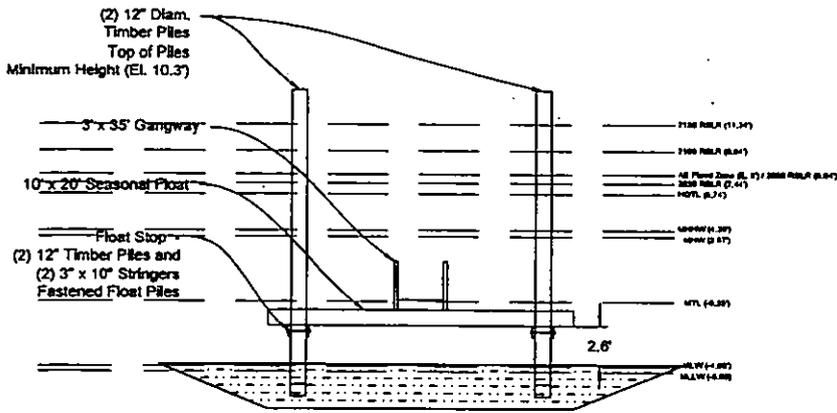
PROPOSED PLANS - PROPOSED: NEW DOCK STRUCTURE AND EXISTING STAIR REPLACEMENT

ON: PISCATAQUA RIVER

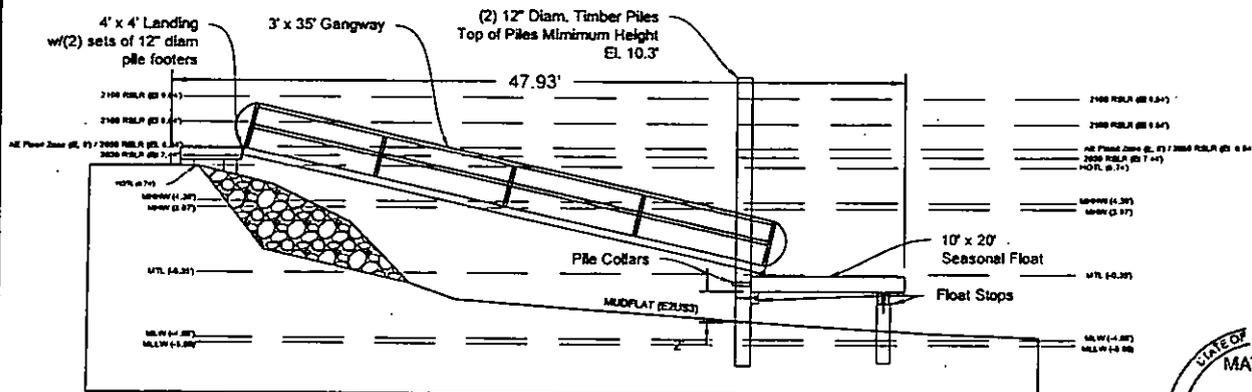
TOWN: PORTSMOUTH AT: 35 SALTER ST STATE: NH

SHEET: 2 OF 3 DATE: NOVEMBER 23, 2020 (REV 1 4/29/2021)





**PROPOSED DOCK
CROSS-SECTION
B-B**
SCALE: 1" = 8'



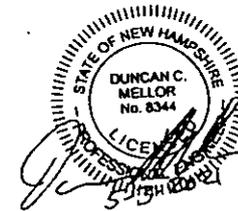
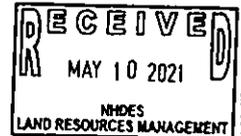
**PROPOSED DOCK
CROSS-SECTION
A-A**
SCALE: 1" = 8'

ENGINEERING, RESILIENCY AND BASIS OF ANALYSIS NOTES:

1. THE RESILIENCY RECOMMENDATION AND BASIS OF ANALYSIS BY CIVILWORKS NEW ENGLAND (CNE) FOR THIS PROJECT IS LIMITED TO THE RECOMMENDATIONS AND ANALYSIS IN THESE NOTES. THE CLIENT HAS PROVIDED THE SURVEY DATA AND FLOOD ELEVATIONS UPON WHICH CNE IS RELYING FOR THE ANALYSIS. CNE HAS NOT FIELD VERIFIED ANY SURVEY DATA AND CANNOT WARRANT THE ACCURACY OF THE DATA PROVIDED.
2. BASIC WIND AND WAVE ANALYSIS HAS BEEN PERFORMED TO ESTABLISH PILE LATERAL TESTING LOADS DURING CONSTRUCTION TO PROVIDE A REASONABLE LEVEL OF CONFIDENCE THAT THE PROPOSED DOCK MOORING PILES WILL BE ADEQUATE TO RESIST ENVIRONMENTAL LOADS FROM WIND AND WAVES AT THIS LOCATION WITH THE FLOAT AT A WATER LEVEL OF THE FEMA 100 YR FLOOD PLUS A SEA LEVEL RISE ALLOWANCE PROVIDED BY MATTHEW CARDIN, CWS, USING NHDES GUIDELINES.
3. BASIC WIND SPEED FOR THE SITE IS 88.5 MPH WITH LOAD FACTOR REMOVED PER ASCE 7 FOR RISK CATEGORY 1, 3 SECOND GUST. SURFACE

ROUGHNESS C AND EXPOSURE C, GIVING A WIND PRESSURE OF 17.1 PSF.

4. AS SEVERAL DAYS OF ADVANCED NOTICE IS ANTICIPATED AHEAD OF SUCH SEVERE WINDS, IT IS ASSUMED A DOCKED BOAT WOULD BE REMOVED FROM THE DOCK AND ONLY THE FLOAT WILL BE SUBJECT TO THE ENVIRONMENTAL LOADING. WITH A FLOAT FREEBOARD OF 1.2 FT AND 20 FT LENGTH ON TWO PILES, THE LATERAL WIND LOAD PER PILE IS ABOUT 205 POUNDS.
5. WIND WAVE FETCH FROM PEIRCE ISLAND IS ABOUT 650 FT. THE BASIC WIND SPEED (ASCE 7) IS ADJUSTED FROM A 3 SECOND GUST TO A LONGER DURATION NEEDED TO BUILD FULLY DEVELOPED WIND WAVES, GIVES A SIGNIFICANT WAVE HEIGHT OF 0.9 FT WITH 1.2 SECOND PERIOD. WITH AN AVERAGE FLOAT DRAFT OF 0.3 FT THE NON-BREAKING WAVE COULD DEVELOP 288 POUNDS OF LATERAL LOAD PER PILE.
6. THE RECOMMENDED LATERAL TEST LOAD PER PILE IS 432 POUNDS APPLIED AT ELEVATION 10.3 FT NAVD88 TO PROVIDE A FACTOR OF SAFETY OF 1.5 AND PROVE ADEQUATE MOORING PILE EMBEDMENT. IT IS RECOMMENDED THAT THE FIELD LOAD TESTS BE OBSERVED BY A PROFESSIONAL ENGINEER FOR COMPLIANCE WITH THE ANALYSIS INTENT.
7. IF PILE EMBEDMENT CANNOT RESIST THIS TEST LOAD, IT IS RECOMMENDED THAT SEABED MOORINGS BE ADDED TO PROVIDE A TOTAL OF 884 POUNDS OF LATERAL BREAK AWAY RESISTANCE FOR THE FLOAT. PULL TEST EACH MOORING BASED ON ITS PERCENTAGE OF FLOAT RESISTANCE NEEDED.



PLANS PREPARED BY
MATTHEW CARDIN NHCWS #284

THE ATTACHED PE STAMP IS LIMITED TO ANALYSIS REQUESTED BY NHDES WETLANDS BUREAU FOR VULNERABILITY ASSESSMENT OF THE PROPOSED STRUCTURE TO NOT BREAK FREE AS A RESULT OF TIDAL FORCES UP TO AND INCLUDING THE 100 YEAR RECURRENCE EVENT. THE PE STAMP DOES NOT COVER STRUCTURE DESIGN, WHICH IS BEING PERFORMED BY OTHERS.

Prepared For: TM MARINE CONSTRUCTION 480 NEWINGTON ROAD NEWINGTON, NH 03801	PROPOSED PLANS ON: PISCATAQUA RIVER TOWN: PORTSMOUTH	PROPOSED: NEW DOCK STRUCTURE AND EXISTING STAIR REPLACEMENT AT: 35 SALTER ST STATE: NH DATE: NOVEMBER 23, 2020 (REV 1 4/29/2021)
Prepared By: Matthew Cardin, NH CWS	SHEET: 3 OF 3	