APR18'23 PM 1:19 RCV

The State of New Hampshire
Department of Environmental Services

Robert R. Scott, Commissioner

121

April 06, 2023

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

REQUESTED ACTION

Approve Albert Fleury's request to perform the following work on Little Bay in Dover pursuant to NH Department of Environmental Services (NHDES) Wetlands Bureau permit #2023-00084, and in accordance with RSA 482-A:3. No comments were submitted by the Dover Conservation Commission regarding the project as proposed.

Impact 114 square feet of previously developed upland tidal buffer zone and 885 SF of tidal wetlands to construct a tidal docking structure consisting of a 6 foot by 80 foot permanent fixed pier connected to a 3 foot by 40 foot ramp connected to a 10 foot by 40 foot float with associated float stops and anchors. The overall length of this docking structure, seaward of the highest observable tide line is 130 feet, on 1,200 feet of frontage along the Bellamy River in Dover.

NHDES imposed the following conditions as part of this approval:

1. All work shall be done in accordance with approved plan dated November 6, 2022, and received by the NH Department of Environmental Services (NHDES) on January 12, 2023 by Cardin Environmental Consulting and Permitting in accordance with Env-Wt 307.16.
2. This permit shall not be effective until the permittee records this permit at the Strafford County Registry of Deeds as required by RSA 482-A:3, VI. 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. 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).
5. Tidal docking construction shall be done in accordance with the standard conditions in Env-Wt 307.
6. Heavy equipment shall not be operated in any jurisdictional area unless specifically authorized by this permit, in accordance with Env-Wt 307.15(a).
7. 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.

8. 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.
9. 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.
10. 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

NHDES approved this project on March 03, 2023. NHDES supported its decision with the following findings:

1. This project 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. On January 12, 2023, NHDES received correspondence from the Natural Heritage Bureau (NHB) dated August 24, 2022, stating that "based on survey results indicating that none of the listed rare plants are in the proposed project area, NHB has no further concerns about the proposed project as long as the exemplary natural community is not impacted."
3. On January 12, 2023, NHDES received correspondence from the NH Fish and Game Department (NHFG) dated November 30, 2022, stating that "NHFG does not anticipate any long-term negative impacts to the saltmarsh or [sensitive vertebrate species]."
4. No comments were received by NHDES from the Dover Conservation Commission about this application.
5. On January 6, 2023, 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 navigation in the channel," per Rule Env-Wt 603.09.
6. NHDES finds that the requirements for a public hearing, as established in RSA 482-A, 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, and, is not of substantial public interest, as defined in New Hampshire Administrative Rule Env-Wt 104.32.
7. The Department finds that the project as proposed and conditioned meets the requirements of RSA 482-A and the Wetlands Program Code of Administrative Rules Chapters Env-Wt 100-1000. No waivers of RSA 482-A or the Wetlands Program Code of Administrative Rules Chapters Env-Wt 100-1000 were requested or approved under this permit action.

NHDES Wetlands Bureau permit #2023-00084 application documents are enclosed for review by the Governor and the Executive Council in consideration of this request and in accordance with RSA 482-A:3, II(a), as it is a major project located in New Hampshire public waters.

We respectfully request your approval of this item.

Robert R. Scott
Commissioner

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

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: Albert Fleury **TOWN NAME:** Dover

RECEIVED Administrative Use Only JAN 12 2023 NHDES LAND RESOURCES MANAGEMENT	COMPLETE Administrative Use Only JAN 12 2023	Administrative Use Only	File No. 2023-00084
			Check No. 1172
			Amount 3356.00
			Initials BH

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?	☒ Yes ☐ No
Does the property contain a PRA? If yes, provide the following information:	☒ Yes ☐ No
• 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.	☐ Yes ☒ No
• Protected species or habitat? o If yes, species or habitat name(s): o NHB Project ID #: 22-2256	☐ Yes ☒ No
• Bog?	☐ Yes ☒ No
• Floodplain wetland contiguous to a tier 3 or higher watercourse?	☐ Yes ☒ No
• Designated prime wetland or duly-established 100-foot buffer?	☐ Yes ☒ No
• Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	☒ Yes ☐ No
Is the property within a Designated River corridor? If yes, provide the following information: • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year:	☐ Yes ☒ No

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 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: Albert Fleury		
MAILING ADDRESS: PO Box 1834		
TOWN/CITY: Hampton	STATE: NH	ZIP CODE: 03843
EMAIL ADDRESS: Fleuryalbert@gmail.com		
FAX:	PHONE: 6039448412	

ELECTRONIC COMMUNICATION: By initialing here: AF, I hereby authorize NHDES to communicate all matters relative to this application electronically.

SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))
☐ N/A

LAST NAME, FIRST NAME, M.I.: Cardin, Matthew R		
COMPANY NAME: Cardin Enviroinmental Consulting and Permitting		
MAILING ADDRESS: 80 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
☒ 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.

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	☒ Yes ☒ No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	☒ Yes ☒ No
For stream crossing projects, provide watershed size (see WPPT or Stream Stats): [redacted]	

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 is for wharf access at 74 Piscataqua Road, Dover, NH by installing a permanent 6'x80' pier, a 3' x 40' gangway and a 10' x 40' float with associated float stop mechanisum extending from the property in to Bellamy River/Little Bay. The pier will be supported by (5) bents containing two piles each. The float will be connected to the pier via the aluminum gangway. The 10' x 40' seasonal float will be supported by four helical anchors and chains extending from each corner of the float. All piles will consist of 12" diameter Class A, CCA treated timber piles.

The pier, seasonal gangway and float are to be installed via a barge during low tide cycles and via matted access along proposed dock alignment from the upland to install portions that can't be reached by barge staged outside of the salt marsh area.

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: 74 Piscataqua Road	
TOWN/CITY: Dover	
TAX MAP/BLOCK/LOT/UNIT: Map 1, Lot 27	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Little Bay ☒ N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):	[redacted]° North [redacted]° West

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/rivers, 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	[redacted]		[redacted]	[redacted]		[redacted]
	Scrub-shrub Wetland	[redacted]		[redacted]	[redacted]		[redacted]
	Emergent Wetland	[redacted]		[redacted]	[redacted]		[redacted]
	Wet Meadow	[redacted]		[redacted]	[redacted]		[redacted]
	Vernal Pool	[redacted]		[redacted]	[redacted]		[redacted]
	Designated Prime Wetland	[redacted]		[redacted]	[redacted]		[redacted]
	Duly-established 100-foot Prime Wetland Buffer	[redacted]		[redacted]	[redacted]		[redacted]
Surface Water	Intermittent / Ephemeral Stream	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Perennial Stream or River	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Lake / Pond	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Docking - Lake / Pond	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Docking - River	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Banks	Bank - Intermittent Stream	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Bank - Perennial Stream / River	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Bank / Shoreline - Lake / Pond	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Tidal	Tidal Waters	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Tidal Marsh	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	Sand Dune	[redacted]		[redacted]	[redacted]		[redacted]
	Undeveloped Tidal Buffer Zone (TBZ)	[redacted]		[redacted]	[redacted]		[redacted]
	Previously-developed TBZ	114		[redacted]	[redacted]		[redacted]
	Docking - Tidal Water	885		[redacted]	[redacted]		[redacted]
TOTAL		999	[redacted]		[redacted]	[redacted]	

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):	[redacted] SF	× $0.40 =	$ [redacted]
Seasonal docking structure:	520 SF	× $2.00 =	$ 1,040
Permanent docking structure:	479 SF	× $4.00 =	$ 1,916
Projects proposing shoreline structures (including docks) add $400 =			$ 400
		Total =	$ 3,356
The application fee for minor or major impact is the above calculated total or $400, whichever is greater =			**$ 3,356**

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:	
MRC	To the best of the signer's knowledge and belief, all required notifications have been provided.
MRC	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.
MRC	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.
MRC	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)

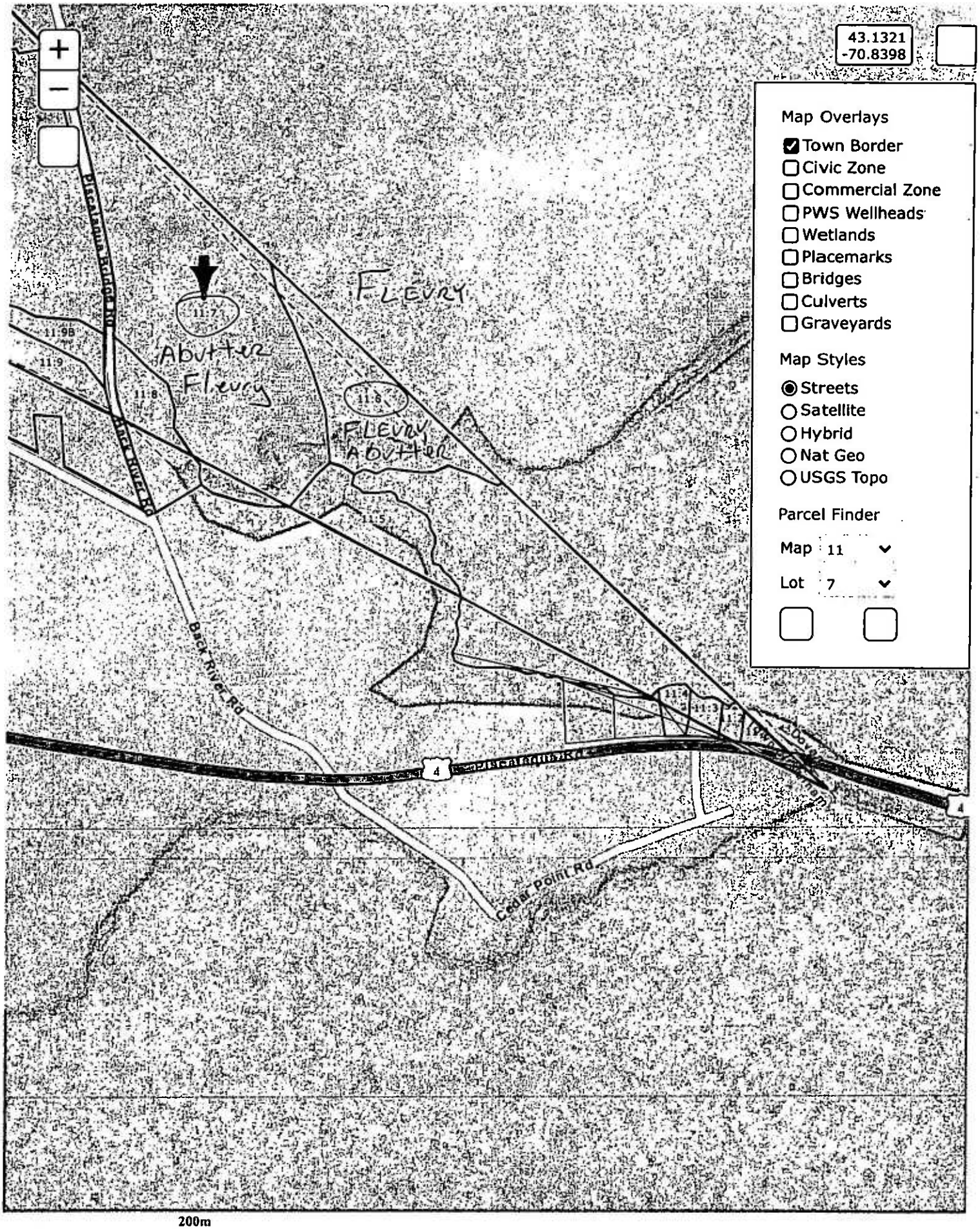
SIGNATURE (OWNER):	PRINT NAME LEGIBLY: ROBERT FLORY	DATE: 12/9/22
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE):	PRINT NAME LEGIBLY: Matt Cardin, CWS	DATE: 11/3/23

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.

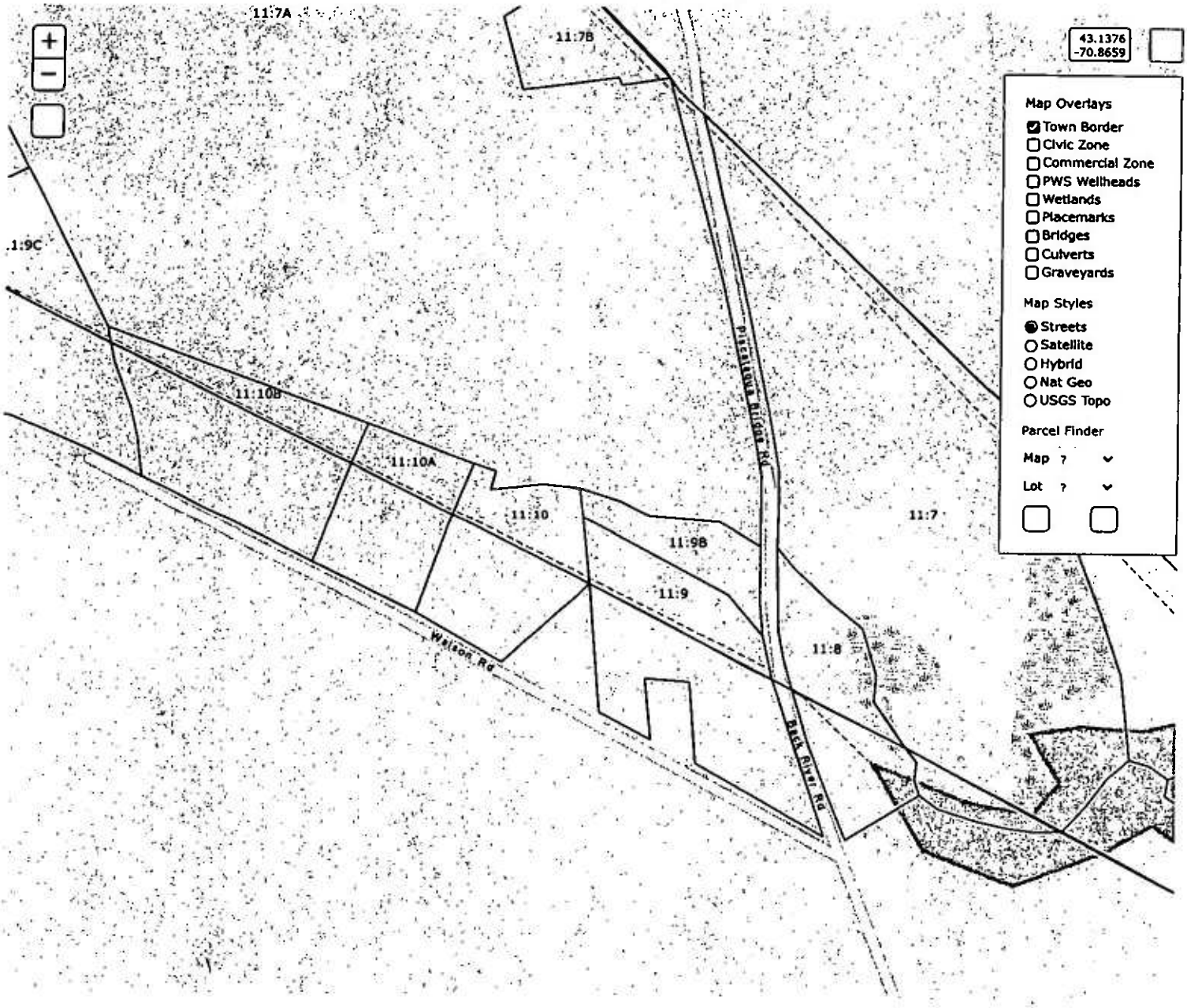
TOWN/CITY CLERK SIGNATURE:	PRINT NAME LEGIBLY: Susan Mistretta
TOWN/CITY: DOVER	DATE: 11/10/2023

 MADBURY Tax Parcel Map



ESRI, HERE, Garmin, INCREMENT P, NGA, USGS | Tax Parcel Layer (2019-05-10) by Fiegenbaum & Green

Tax Parcel Map



100m
300ft

ESRI, HERE, Garmin, INCREMENT P, NGA, USGS | Tax Parcel Layer (2019-05-10) by Fiegenbaum & Green

Map by NH GRANIT - 74 Piscataqua Road, Dover, NH

Legend

Parcels
- Parcel Polygons
- Attributes for Additional Lines

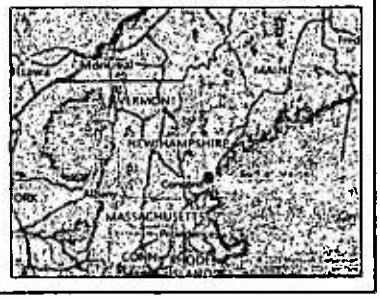
State
County
City/Town

RECEIVED
JAN 12 2023
NHDES
LAND RESOURCES MANAGEMENT

Map Scale
1: 25,977

© NH GRANIT, www.granit.unh.edu
Map Generated: 1/5/2023

Notes
USGS 7.5' Quad



The State of New Hampshire

Department of Environmental Services

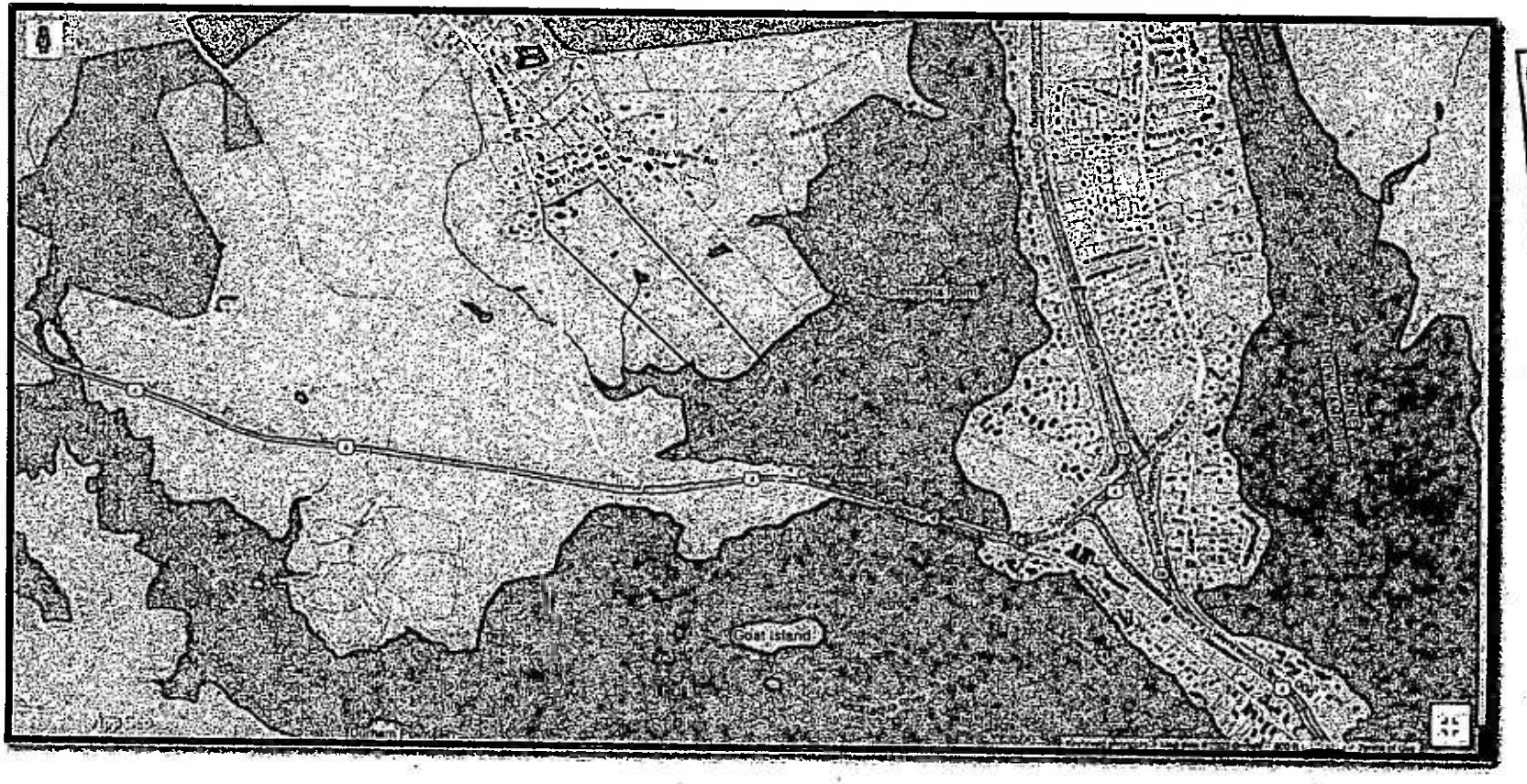
Robert R. Scott, Commissioner

This application contains confidential information from the NH Natural Heritage Bureau (NHB) Datacheck tool provided by the NH Department of Natural and Cultural Resources, NHB. This information is being withheld from disclosure to the public.

Please direct all questions regarding the confidential information to Pamela G. Monroe, Legal Unit Administrator, NH Department of Environmental Services, at: pamela.g.monroe@des.nh.gov, or (603) 271-3137.

Abutter List
Owner: Albert Fleury
Site Location: 74 Piscataqua Road, Dover, NH
Map J , Lot 27

Map	Lot	Name	Mailing Address	Street Address
J	19	Valpey Theodore S Revocable Trust		39 Bay View Road, Dover, NH 03820
11	6	Albert Fleury		Piscataqua Road Madbury, NH 03820
11	7	Albert Fleury		Piscataqua Road Madbury, NH 03820



RECEIVED
JAN 12 2023
NHDES
LAND RESOURCES MANAGEMENT

EXISTING SITE PLAN

SCALE: 1" = 80'

N

PROPERTY INFORMATION
TAX MAP J, Lot 27
LOT AREA: 52 Acres
FRONTAGE: ~ 1,200' ON BELLAY RIVER
ADJACENT PROPERTY OWNERS:
1. 39 BAYVIEW, DOVER, NH MAP J, LOT 19 - VALPEY

2. 74 PISCATAQUA ROAD, MADBURY, NH MAP 11, LOT 6 -

NOTES
1. Highest observab August 16, 2022 per Env-Wt 602.23.
2. Water depth measurements portrayed in NAVD88 and determined by R. Alex Ross, LLS # 907

VICINITY MAP

PROPERTY BOUNDARY EXTENSION

Highest Observable Tide Line

Edge of Salt Marsh

SALT MARSH (E2EM1)

20.0'

10.57
5.11
3.80
3.09
2.25
0.42
1.75
2.11
2.35
2.43
2.58

MUD FLAT (E2US3)

Highest Observable Tide Line

SALT MARSH (E2EM1)

Edge of Salt Marsh

MUD FLAT (E2US3)

20.0

PROPERTY BOUNDARY EXTENSION

BELLAMY RIVER

RECEIVED
JAN 12 2023
NHDES
LAND RESOURCES MANAGEMENT

STATE OF NEW HAMPSHIRE
MATTHEW R. CARDIN
No. 284
CERTIFIED WETLAND SCIENTIST

Plans Prepared by
Matthew R. Cardin NH CWS #284

Prepared For:
AL FLEURY
74 PISCATAQUA ROAD
DOVER, NH

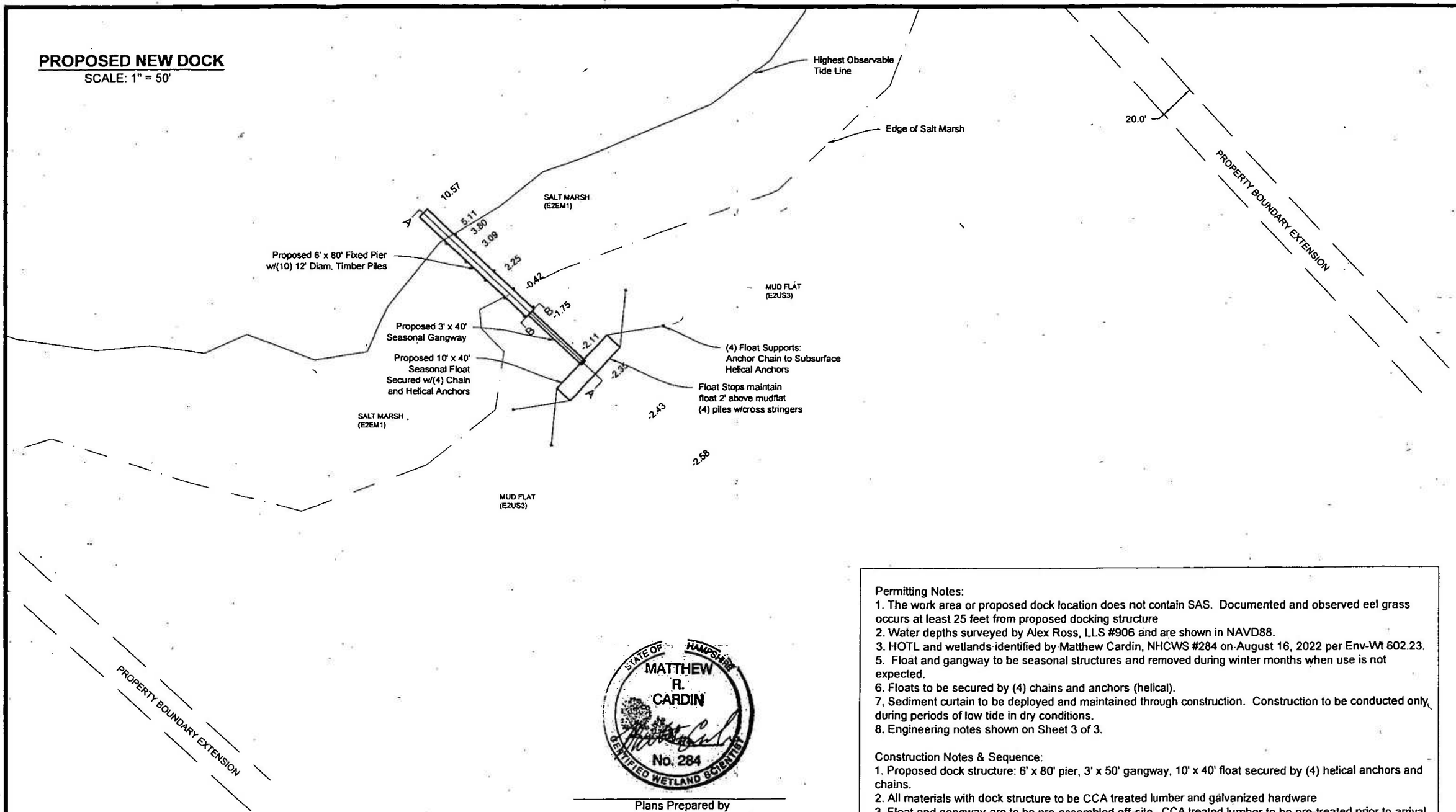
Prepared By:
Matthew Cardin, NH CWS

EXISTING CONDITIONS
ON: BELLAMY RIVER/LITTLE BAY
TOWN: DOVER
SHEET: 1 of 3

PROPOSED: DOCK STRUCTURE
AT: 74 PISCATAQUA POINT ROAD STATE: NH
DATE: November 6, 2022

PROPOSED NEW DOCK

SCALE: 1" = 50'



STATE OF NEW HAMPSHIRE
MATTHEW R. CARDIN
No. 284
CERTIFIED WETLAND SCIENTIST

Plans Prepared by
Matthew R. Cardin NH CWS #284

Permitting Notes:
1. The work area or proposed dock location does not contain SAS. Documented and observed eel grass occurs at least 25 feet from proposed docking structure
2. Water depths surveyed by Alex Ross, LLS #906 and are shown in NAVD88.
3. HOTL and wetlands identified by Matthew Cardin, NHCWS #284 on August 16, 2022 per Env-Wt 602.23.
5. Float and gangway to be seasonal structures and removed during winter months when use is not expected.
6. Floats to be secured by (4) chains and anchors (helical).
7. Sediment curtain to be deployed and maintained through construction. Construction to be conducted only during periods of low tide in dry conditions.
8. Engineering notes shown on Sheet 3 of 3.

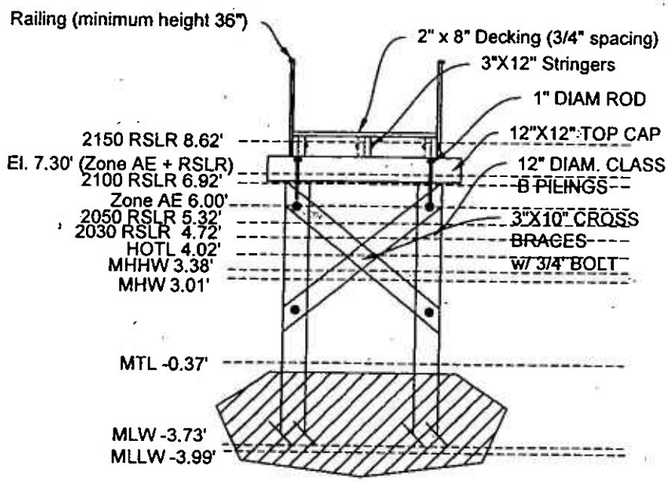
Construction Notes & Sequence:
1. Proposed dock structure: 6' x 80' pier, 3' x 50' gangway, 10' x 40' float secured by (4) helical anchors and chains.
2. All materials with dock structure to be CCA treated lumber and galvanized hardware
3. Float and gangway are to be pre-assembled off-site. CCA treated lumber to be pre-treated prior to arrival at site.
4. 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.
5. All work to be done during low-tide intervals where there is no flowing water within the work area.
6. Temporary turbidity curtain to be placed around work area during high tide to once construction has temporarily stopped.
7. The pre-assembled float and gangway to be lifted from the barge via crane and placed into position and installed.

Prepared For:
AL FLEURY
74 PISCATAQUA ROAD
DOVER, NH

Prepared By:
Matthew Cardin, NH CWS

PROPOSED PLANS
ON: BELLAMY RIVER/LITTLE BAY
TOWN: DOVER
SHEET: 2 OF 3

PROPOSED: DOCK STRUCTURE
AT: 74 PISCATAQUA POINT ROAD STATE: NH
DATE: November 6, 2022

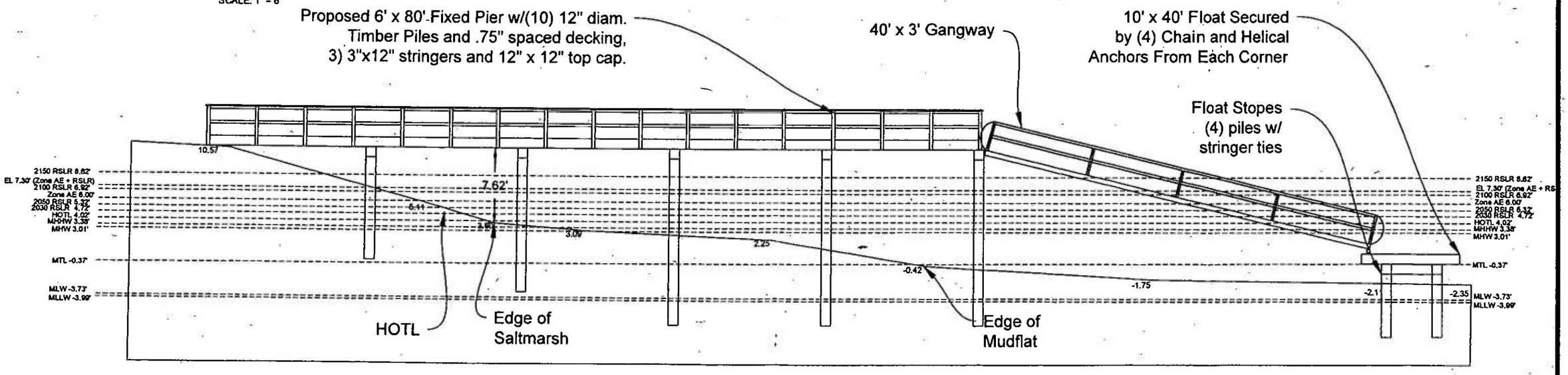


PROPOSED DOCK CROSS-SECTION B-B

SCALE: 1" = 6'

ENGINEERING, RESILIENCY AND BASIS OF ANALYSIS NOTES:

1. THE RESILIENCY RECOMMENDATION AND BASIS OF ANALYSIS BY CIVIL WORKS 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 WARRANTY THE ACCURACY OF THE DATA PROVIDED.
2. BASIC WIND AND WAVE ANALYSIS HAS BEEN PERFORMED TO ESTABLISH PILE AND MOORING LATERAL TESTING LOADS DURING CONSTRUCTION TO PROVIDE A REASONABLE LEVEL OF CONFIDENCE THAT THE PROPOSED DOCK MOORINGS AND PIER 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 FOR THE FLOAT IS 84 MPH WITH LOAD FACTOR REMOVED PER ASCE 7-16 FOR RISK CATEGORY 1, 3 SECOND GUST. SURFACE ROUGHNESS C AND EXPOSURE C, GIVING A WIND PRESSURE OF 15.3 PSF.
4. BASIC WIND SPEED FOR THE SITE FOR THE PIER IS 90 MPH WITH LOAD FACTOR REMOVED PER ASCE 7-16 FOR RISK CATEGORY 2, 3 SECOND GUST. SURFACE ROUGHNESS C AND EXPOSURE C, GIVING A WIND PRESSURE OF 17.7 PSF.
5. WIND PRESSURE ON FLOAT: 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 40 FT LENGTH ON FOUR MOORINGS, THE LATERAL WIND LOAD PER FLOAT END IS ABOUT 367 POUNDS AND LONGITUDINAL WIND LOAD OF ABOUT 183 POUNDS.
6. THE WIND PRESSURE ON THE PIER, HAS LATERAL WIND LOAD PER PILE BENT (TWO PILES) IS ABOUT 265 POUNDS.
7. TIMBER PILE STRENGTH WAS CHECKED FOR IMPACT OF A DRIFTING ICE FLOE WITH DIMENSIONS OF 20 FT BY 12 FT BY 1 FOOT DRAFT AND A DRIFT SPEED OF 0.5 FPS AND PILE BENDING STRESS WAS ACCEPTABLE.
8. AVERAGE WIND WAVE FETCH FROM SOUTHEAST IS 2,700 FT. THE BASIC WIND SPEED (ASCE 7-16) IS ADJUSTED FROM A 3 SECOND GUST TO A LONGER DURATION NEEDED TO BUILD FULLY DEVELOPED WIND WAVES, GIVES A SIGNIFICANT WAVE HEIGHT OF 1.4 FT WITH 1.7 SECOND PERIOD FOR THE FLOAT (CAT. 1) AND 1.5 FT WITH 1.7 SECOND PERIOD FOR THE PIER (CAT. 2). WITH AN AVERAGE FLOAT DRAFT OF 0.5 FT THE NON-BREAKING WAVE COULD DEVELOP 180 POUNDS OF LATERAL LOAD PER FLOAT END. THE LONGITUDINAL WAVE LOAD ON THE PIER END IS 230 POUNDS USING AN H10 WAVE.
9. THE RECOMMENDED LATERAL TEST LOAD PER FLOAT MOORING IS 775 POUNDS AXIAL TO PROVIDE A FACTOR OF SAFETY OF 1.5. IT IS RECOMMENDED THAT THE FIELD LOAD TESTS BE OBSERVED BY A PROFESSIONAL ENGINEER FOR COMPLIANCE WITH THE ANALYSIS INTENT.
10. THE RECOMMENDED LONGITUDINAL TEST LOAD FOR THE PIER IS 344 POUNDS APPLIED AT DECK ELEVATION TO PROVIDE A FACTOR OF SAFETY OF 1.5 AND PROVE ADEQUATE PILE EMBEDMENT. THE RECOMMENDED LATERAL TEST LOAD FOR THE PIER PILE BENTS IS 400 POUNDS APPLIED AT DECK ELEVATION TO PROVIDE A FACTOR OF SAFETY OF 1.5 AND PROVE ADEQUATE PILE EMBEDMENT. IT IS RECOMMENDED THAT THE FIELD LOAD TESTS BE OBSERVED BY A PROFESSIONAL ENGINEER FOR COMPLIANCE WITH THE ANALYSIS INTENT.
11. IF PILE EMBEDMENT CANNOT RESIST THESE TEST LOADS, IT IS RECOMMENDED THAT THE PILES BE DRIVEN DEEPER OR SEABED MOORINGS BE ADDED TO PROVIDE A TOTAL OF 1,100 POUNDS OF LATERAL BREAK AWAY RESISTANCE FOR THE FLOAT; 344 POUNDS LONGITUDINAL AND 400 POUNDS LATERAL PIER LOAD CAPACITY. PULL TEST EACH MOORING BASED ON ITS PERCENTAGE OF THE RESISTANCE NEEDED.



PROPOSED DOCK CROSS-SECTION A-A

SCALE: 1" = 10'

STATE OF NEW HAMPSHIRE — MATTHEW R. CARDIN — No. 284 — CERTIFIED WETLAND SCIENTIST

PLANS PREPARED BY MATTHEW CARDIN NHCWS #284

STATE OF NEW HAMPSHIRE — DUNCAN C. MELLOR No. 9944 — LICENSED PROFESSIONAL ENGINEER

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. This PE stamp does not cover survey, site engineering, or structure design, which is being performed by others.

Prepared For:
AL FLEURY
74 PISCATAQUA ROAD
DOVER, NH

Prepared By:
Matthew Cardin, NH CWS

PROPOSED PLANS — PROPOSED: DOCK STRUCTURE

ON: BELLAMY RIVER/LITTLE BAY

TOWN: DOVER — AT: 74 PISCATAQUA POINT ROAD — STATE: NH

SHEET: 3 OF 3 — DATE: November 6, 2022