



The State of New Hampshire
Department of Environmental Services

Robert R. Scott, Commissioner



93

October 7, 2024

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

REQUESTED ACTION

Approve Mallards Landing Association's request to perform the following work on Winnisquam Lake in Belmont pursuant to NH Department of Environmental Services (NHDES) Wetlands Bureau permit #2024-00964, and in accordance with RSA 482-A:3. No comments were submitted by the Belmont Conservation Commission regarding the project as proposed.

Impact 585 square feet along 70 feet of bank in order to install rip-rap and native plantings, impact 3,000 square feet along 130 feet of bank in order to reset fallen and dislodged stones and plant native vegetation, impact 2,250 square feet of lakebed in order to dredge approximately 110 cubic yards of material and replace an 11 foot x 36 foot boat ramp on frontage along Winnisquam Lake in Belmont.

NHDES imposed the following conditions as part of this approval:

1. In accordance with Env-Wt 307.16, all work shall be done in accordance with the revised plans revision dated July 15, 2024 by Bailey Associates, as received by the NH Department of Environmental Services (NHDES) on July 16, 2024.
2. This permit shall not be effective until it has been recorded in the Belknap County Registry of Deeds and a copy of the recorded permit has been provided to the department as required pursuant to RSA 482-A:3, and Env-Wt 314.02.
3. In accordance with Env-Wt 514.05(b), bank restoration shall be constructed, landscaped, and monitored in a manner that will create a healthy riparian or lacustrine shoreline system.
4. In accordance with Env-Wt 514.05(c), bank/shoreline stabilization areas shall have at least 75% successful establishment of vegetation after 2 growing seasons; or shall be replanted and re-established until a functional lacustrine, wetland, or riparian system has been reestablished in accordance with the approved plans.
5. In accordance with Env-Wt 514.05(d), unless otherwise approved, construction shall be performed during low flow or dry conditions.
6. In accordance with Env-Wt 514.05(h), within 60 days of completion of construction, the applicant shall submit a post-construction report that has been prepared by a professional engineer, certified wetland scientist, or qualified professional, as applicable, and contains narrative, exhibits, and photographs, as necessary to report the status of the project area and restored jurisdictional area.

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

7. Any subdivision of the property frontage will require removal of a sufficient portion of the docking structures to comply with the dock size and density requirements in effect at the time of the subdivision as required to maintain compliance with Env-Wt 314.02 and Env-Wt 513.12.
8. Only those docking structures approved under NHDES permit #1989-00646 may be installed along this frontage.
9. All development activities associated with any project shall be conducted in compliance with applicable requirements of RSA 483-B and Env-Wq 1400 during and after construction as required pursuant to RSA 483-B:3.
10. Pursuant to RSA 483-B:9, V(a)(2)(D), (v), this permit does not authorize the removal of trees or saplings within the waterfront buffer that would result in a tree and sapling point score below the minimum required per RSA 483-B:9, V(a)(2)(D), (iv).
11. Pursuant to RSA 482-A:14, RSA 482-A:14-b, and RSA 482-A:14-c, NHDES is authorized to take appropriate compliance actions should it be determined that, based upon additional information which becomes available, any of the structures depicted as "existing" on the plans submitted by or on behalf of the permittee were not previously permitted or grandfathered.

EXPLANATION

NHDES approved this project on August 21, 2024. NHDES supported its decision with the following findings:

1. This is a major impact project per Administrative Rule Env-Wt 523.04(c)(3), the project proposes dredging approximately 110 cubic yards of material from the lake bed.
2. The NHDES finds that because the project is not of significant public interest and will not significantly impair the resources of Lake Winnisquam a public hearing under RSA 482-A:8 is not required.
3. No concerns were received from abutters nor the local Conservation Commission related to the project.
4. The NHDES 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 - 900. No waivers of RSA 482-A or the Wetlands Program Code of Administrative Rules Chapters Env-Wt 100 - 900 were requested or approved under this permit action.

NHDES Wetlands Bureau permit #2024-00964 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



**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: **Mallards Landing Assoc**

TOWN NAME: **Belmont**

		Administrative Use Only	File No.: 2024-00964
			Check No.: 1696
			Amount: 1020.00
			Initials: SH

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 type="checkbox"/> Yes <input checked="" 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): NHB Project ID #: NHB23-2959 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Bog?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Floodplain wetland contiguous to a tier 3 or higher watercourse?	<input type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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): A copy of the application was sent to the LAC on Month: Day: Year: 	

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

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
For stream crossing projects, provide watershed size (see <u>WPPT</u> or Stream Stats):	
SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(f))	
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.	
<p>The scope of the project has 3 phases</p> <p>Phase 1) Extend two docks located on the shoreline North of the existing boat ramp, Docks will be extended 10 Linear feet to obtain adequate depth for docking. This is less impacting than dredging.</p> <p>Phase 2) Remove and reconstruct existing boat ramp and do a maintenance dredge of approximately 110 Cubic yards, bringing the ramp end to 4' in depth. Ramp will have 6" stone base under ramp</p> <p>Phase 3) Re stabilize the shoreline along the south side of the Durgin brook outlet at the boat launch and extending into Durgin brook approximately 70'+/- using rock and Boulder rip rap. Re stabilize the remaining 130 linear feet of shoreline by adding larger stones and native vegetation plantings. Regrade disturbed temporary impact area to restore it to original condition.</p>	
SECTION 3 - PROJECT LOCATION	
Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.	
ADDRESS: 200 Union Road	
TOWN/CITY: Belmont	
TAX MAP/BLOCK/LOT/UNIT: 110-002-000	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Lake Winnisquam <input type="checkbox"/> N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):	
	43.48952° North
	71.50844° West

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

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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: Mallards Landing Assoc

MAILING ADDRESS: [REDACTED]

TOWN/CITY: [REDACTED]

STATE: [REDACTED]

ZIP CODE: [REDACTED]

EMAIL ADDRESS: [REDACTED]

FAX:

PHONE: 603-505-1918

ELECTRONIC COMMUNICATION: By initialing here: pjc, 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.:

COMPANY 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 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.

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):

Dock extensions are required to provide adequate water depth for boat docking, this less of an impact than dredging.

Dredging of the boat ramp is required to maintain water depths in launch area to eliminate or reduce power loading and unloading.

Repair of rip rap is needed for bank stabilization

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	2250	75	<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Lake / Pond	60	20	<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	585	195	<input type="checkbox"/>	3000	250	<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			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
TOTAL							

SECTION 12 - APPLICATION FEE (RSA 482-A:3, 1)

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): 2250 SF × \$0.40 = \$ 900

Seasonal docking structure: 60 SF × \$2.00 = \$ 120

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

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

Total = \$ 1020

The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ 1020

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

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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: PJC	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: PJC	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: PJC	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"> Deny the application. Revoke any approval that is granted based on the information. 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: PJC	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>Pat Dubreuil</i>	PRINT NAME LEGIBLY: Mallards Landing President, Pat Dubreuil	DATE: 4/14/24
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER): <i>Patrick Charest</i>	PRINT NAME LEGIBLY: Patrick Charest Project Chairman	DATE: 4/14/24
SIGNATURE (AGENT, IF APPLICABLE): <i>Denise L. Naiva</i>	PRINT NAME LEGIBLY: Denise L. Naiva <i>CHAIR</i>	DATE: 4-12-24

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>Samantha LeClair</i>	PRINT NAME LEGIBLY: Samantha LeClair
TOWN/CITY: Belmont	DATE: 4/8/24

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.

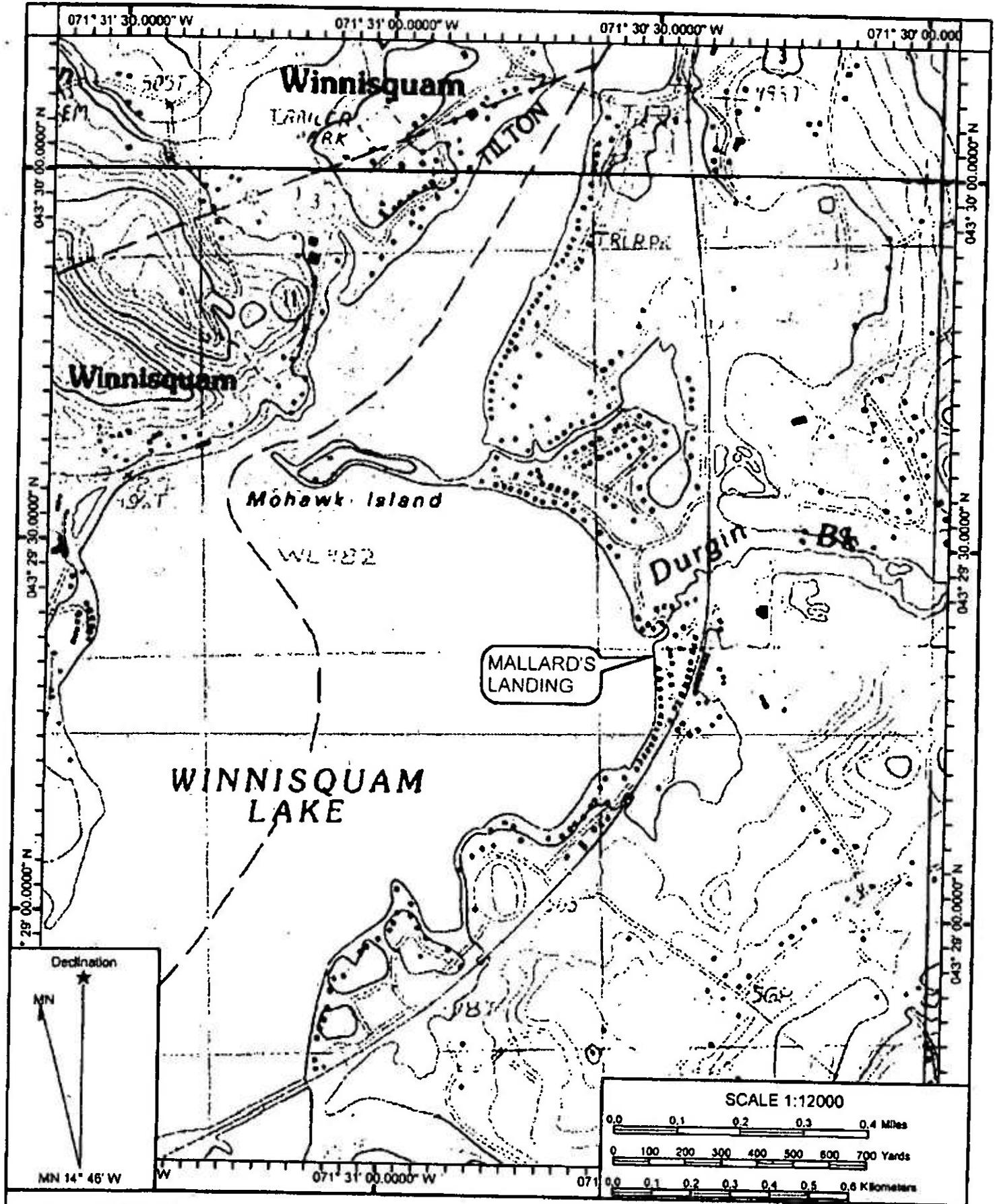
DIRECTIONS FOR APPLICANT:

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".

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

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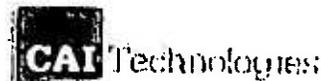
Name: NORTHFIELD (NH)
 Date: 02/20/18
 Scale: 1 Inch = 1,000 ft.

Location: 043° 29' 25.2132" N, 071° 30' 47.3426" W
 Caption: <<Type caption here.>>



Map 11U-002-000

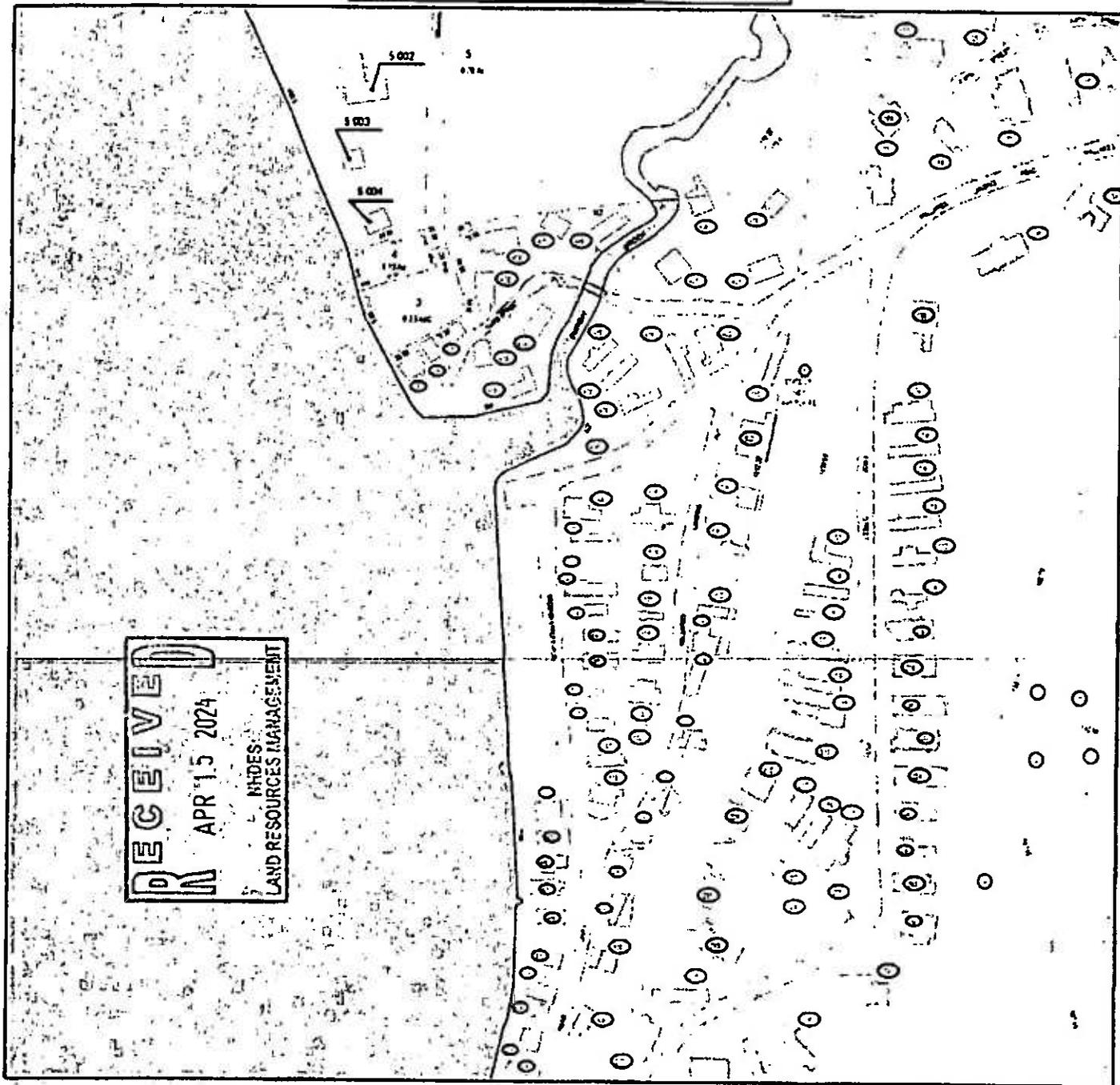
Mallards Landing Belmont, NH



1 inch = 188 Feet

www.cai-tech.com

September 26, 2023



RECEIVED
APR 15 2024
NHDES
LAND RESOURCES MANAGEMENT

Parcel - Poly	---	100-PT	---	sublot_arc	Water-poly
CONDO	---	BRIDGE	---	tanno_arc	World Hillshade
100-PROPERTYLINE	---	PVTRD-RW	---	tanno_poly	
PWATER	---	TRAIL	---	Buildings	
100-HOOKS	---	WATER	---	Camp Grounds	

Only shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for errors or omissions for any other purposes.

New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter

To: patrick charest
26 1st street
Belmont, NH 03220

From: NH Natural Heritage Bureau

Date: 10/9/2023 (This letter is valid through 10/9/2024)

Re: Review by NH Natural Heritage Bureau of request dated 10/9/2023

Permit Type: Wetland Standard Dredge & Fill - Minor

NHB ID: NHB23-2859

Applicant: patrick charest

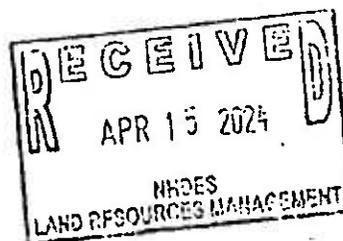
Location: Belmont
Tax Map: 110-002-000, Tax Lot: 000
Address: 200 union rd

Proj. Description: Maintenance dredging docking area and boat launch, Work will most likely be done during draw-down in the fall

The NH Natural Heritage database has been checked 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. We currently have no recorded occurrences for sensitive species near this project area.

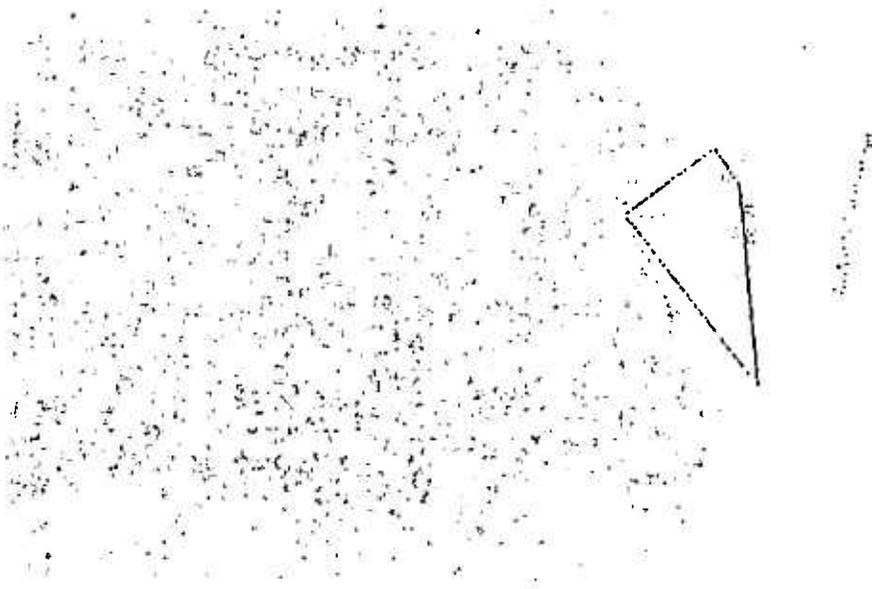
A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

Based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.



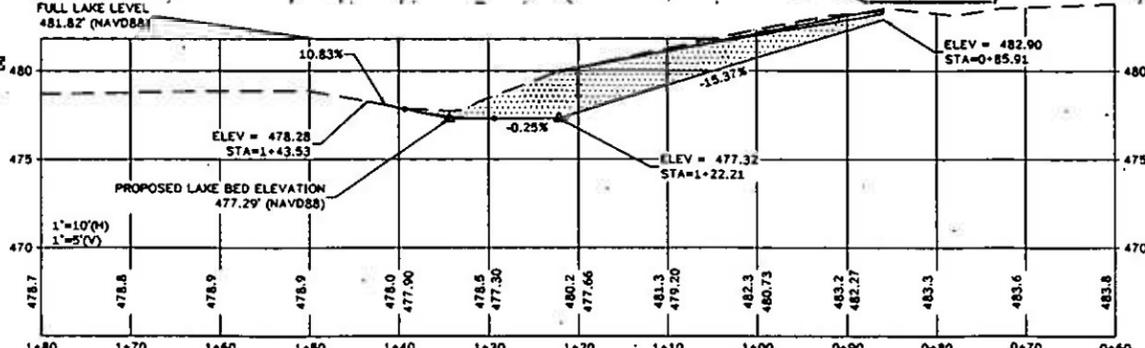
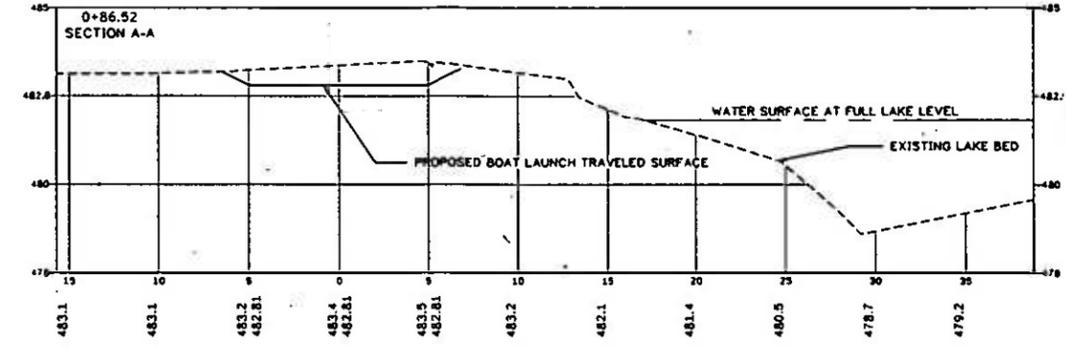
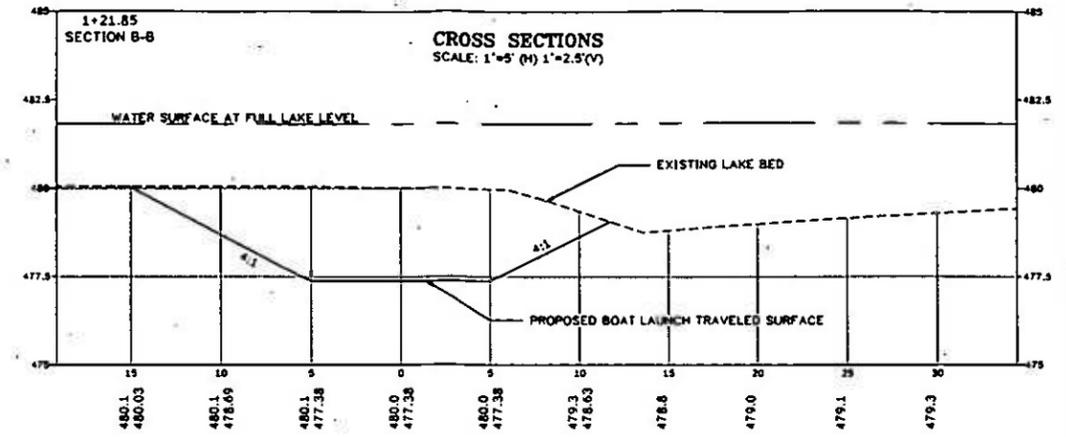
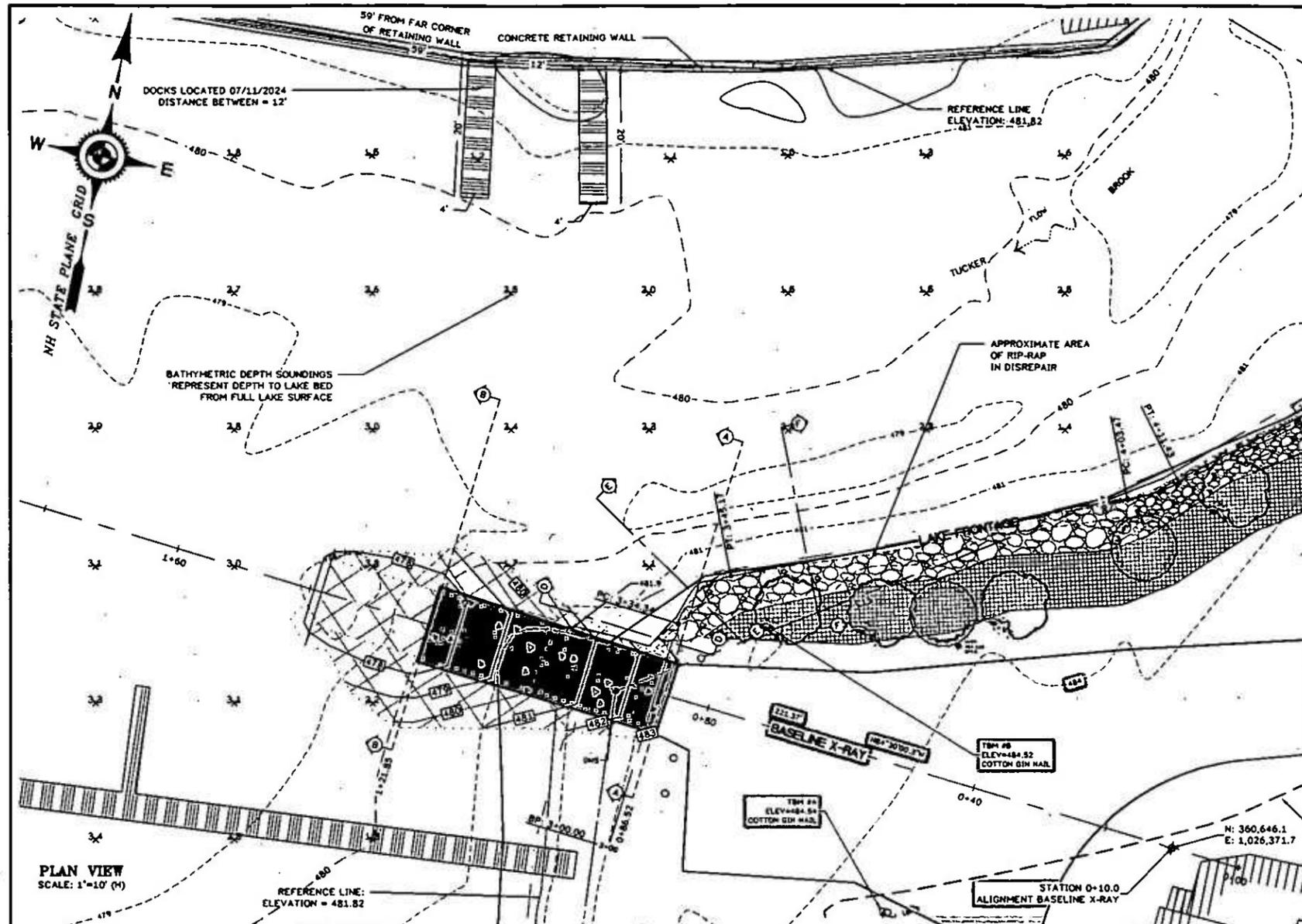
New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter

MAP OF PROJECT BOUNDARIES FOR: NHB23-2959



Parcel Number	GIS Number	Cama Number	Property Address	Owner Name	Co-Owner Name	Owner Address	Owner Address	Owner City	Owner State	Owner Zip
109-002-000	109-002-000-000	109-002-000-000	[REDACTED]	MANSUR, EDWARD O. & CAROLE A.		[REDACTED]	2	[REDACTED]	[REDACTED]	[REDACTED]
109-003-000	109-003-000-000	109-003-000-000	[REDACTED]	KURTZER, JOSEPH L.		[REDACTED]		[REDACTED]	[REDACTED]	[REDACTED]

APR 19 2007
 LAND RESOURCE SYSTEMS



- GENERAL NOTES**
1. THE PURPOSE OF THIS PLAN IS TO DEPICT A RECONSTRUCTION OF THE EXISTING PRIVATE BOAT LAUNCH.
 2. IN ADDITION, THE TWO EXISTING DOCKS ON THE 'ISLAND' OF MALLARD'S LANDING ARE TO BE EXTENDED TO 30 FOOT LENGTH, AND TO MAINTAIN THE EXISTING WIDTH OF EACH DOCK.
 3. A CONSTRUCTION CONTROL BASELINE 'BASELINE X-RAY' HAS BEEN SETUP FOR BOAT LAUNCH RECONSTRUCTION.
 4. SOUNDINGS SHOWN HEREON ARE A RESULT OF A BATHYMETRIC SURVEY BY AMBIT ENGINEERING ON 10/20/2023, AND THE DEPTHS SHOWN ARE A DERIVED VALUE BASED ON A GRID PATTERN LABELED OVER THE EXTENT OF THE SURVEY.
 5. THIS IS NOT A BOUNDARY SURVEY.
 6. 'ISLAND DOCKS' LOCATION CERTIFIED AS OF 07/11/2024.

SURVEY DATUM

THIS SURVEY IS ORIENTED TO N.H. STATE PLANE GRID NORTH AS DETERMINED BY UTILIZING BAD ELF "FLEX 5600" DUAL FREQUENCY GNSS (GPS, GLOPASS, GALILEO & BEIDOU) RECEIVERS, RTK, VIRTUAL NETWORK METHODS. OBSERVATIONS WERE TAKEN ON 10/23/2023

VERTICAL DATUM: NAVD 88 UTILIZING (GEOID 18)

HORIZONTAL DATUM: NAD83(2011) MULTI-YEAR CORS SOLUTION 2 (MYCS2), EPOCH = 2010.000

BEGIN DATE = 01/01/2020

REFERENCE FRAME: ITRF2014

DATE	REVISION	INITIALS
03/29/2024	REVISE AS PER NHDES PRE-APP MTG.	CTB
05/30/2024	SHADING AND PLANTINGS ADDED	CTB
07/11/2024	'ISLAND DOCKS' LOCATED	CTB

DATE 7/15/2024
JOB No. 3756
DRAWN BY: CTB

SCALE: 1" = 10'

LEGEND

- REBAR FND/SET
- REBAR TO BE SET
- DRILL HOLE FND/SET
- CONCRETE BND.FND/SET
- CONC. BND. TO BE SET
- GRANITE BND. FND/SET
- STONE RECT FOUND
- STAKE & STONES FND.
- IRON ROD FOUND
- IRON PIPE FOUND
- SPIKE FND/SET
- MAGNAIL (PK) FND/SET
- HUB & TACK FND/SET
- TEMPORARY BENCHMARK
- PERMANENT BENCHMARK
- WETLAND FLAG
- WETLAND
- TREE STUMP FOUND
- PERCOLATION TEST
- TEST PIT
- DECIDUOUS TREE
- CONIFEROUS TREE
- 22B SOIL TYPE
- EDGE OF GRAVEL DRIVE
- SEWER MAN HOLE
- DRAIN MAN HOLE
- WELL
- HYDRANT
- WATER SHUTOFF
- GATE VALVE
- CATCH BASIN
- UTILITY POLE
- LIGHT POLE
- GUY ANCHOR
- STONEWALL
- TREELINE
- WETLAND
- EXISTING WATER
- EXISTING SEWER LINE
- EXISTING STORM DRAIN
- BUILDING SETBACK LINE

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TAX MAP 110 LOT 02-00

BOAT LAUNCH REBUILD PLAN

MALLARD'S LANDING ASSOCIATION
LOCATED ON WINNISQUAM LAKE & UNION ROAD, BELMONT NH

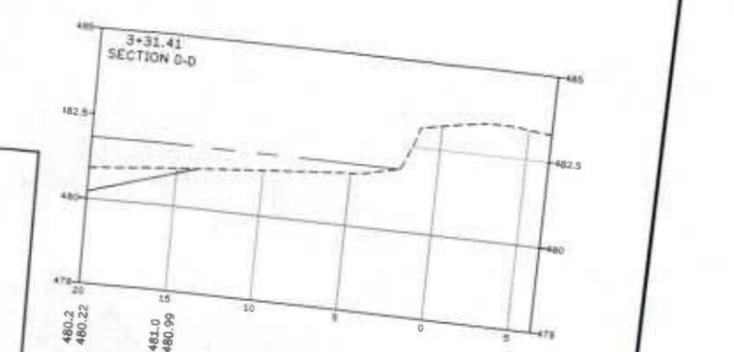
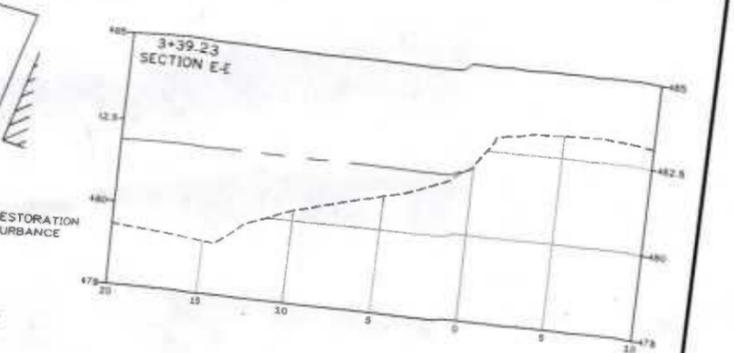
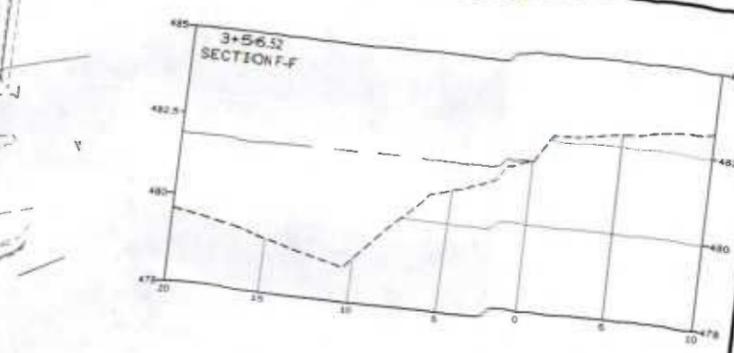
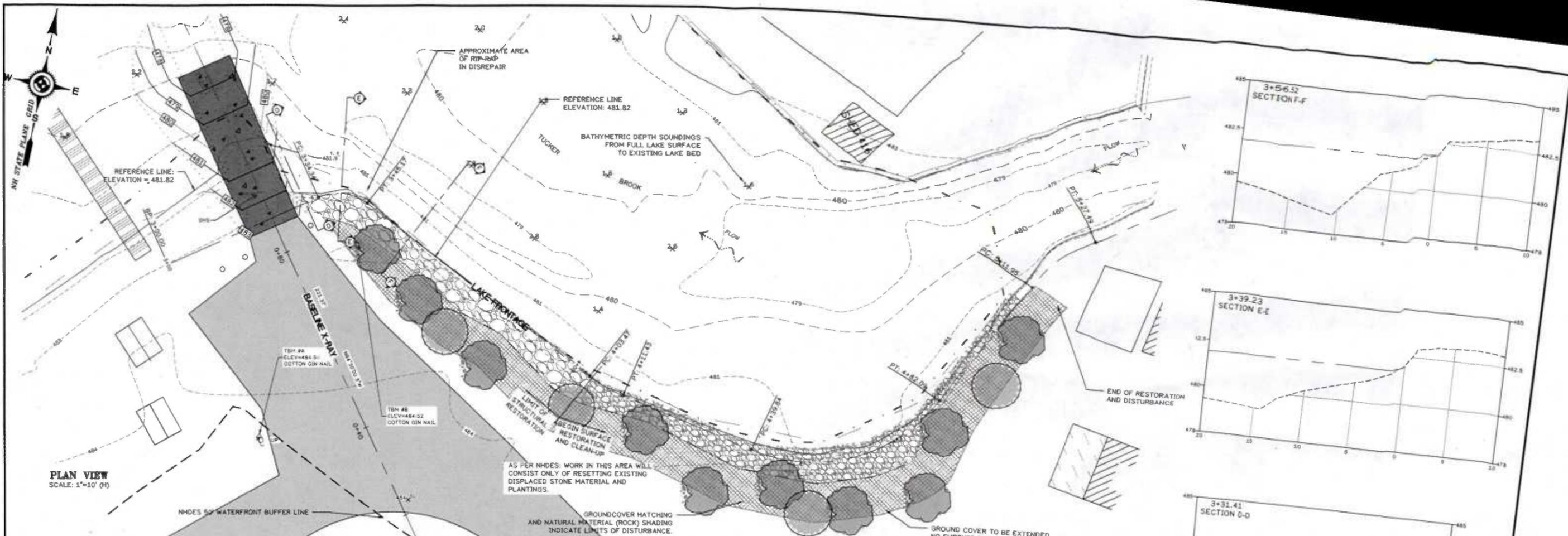
PROPERTY OWNER: BOARD OF DIRECTORS MALLARD'S LANDING ASSOCIATION
200 UNION RD. BELMONT, NH 03220

DEED: BK. 1015 PG. 0124

DATE OF SURVEY: 2008 and 2019

SHEET 2 OF 5

G:\MALLARD'S LANDING_CD\PROJECTS\BOAT_LAUNCH\TAX_MAP_110_LOT_02-00\RESTORATION.dwg 7/15/2024 5:28:55 PM
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CROSS SECTIONS
SCALE: 1"=5' (H) 1"=2.5'(V)

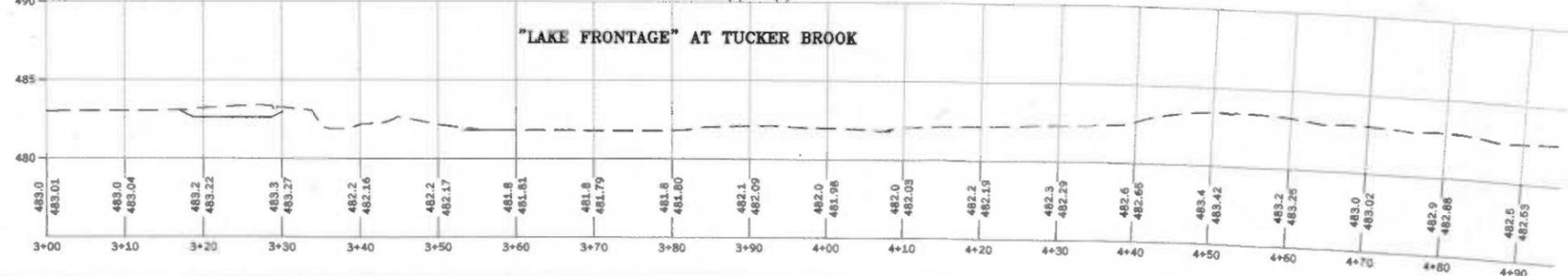
PLANTING SCHEDULE

- BUTTONGH 1 GAL
Cephalanthus occidentalis
 - HIGHBUSH BLUEBERRY 1 GAL
Vaccinium corymbosum
- SHRUB SELECTION: IF NURSERY STOCK IS NOT AVAILABLE, FINAL SHRUB SPECIES SELECTION MUST BE IN ACCORDANCE WITH NHDES APPROVED SHORELAND & RIPARIAN BUFFER LIST. IN GENERAL, SHRUBS MUST BE FULL SUN TOLERANT AND DRY SOIL TOLERANT.
- THE PREFERRED SHOULDER SPAN IS ON AVERAGE ABOUT 8 FEET BETWEEN SHRUBS AT MATURITY.

GROUND COVER NOTES

GROUND COVER SPECIES MUST BE IN ACCORDANCE WITH NHDES APPROVED NATIVE SHORELAND & RIPARIAN BUFFER LIST. IN GENERAL, GROUND COVER MUST BE FULL SUN TOLERANT AND DRY SOIL TOLERANT. SWEET FERN WOULD BE ACCEPTABLE WINTER GREEN WOULD BE ACCEPTABLE

PROFILE VIEW
SCALE: 1"=10' (H) 1"=5'(V)



GENERAL NOTES

- THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED RESTORATION OF A SECTION OF FAILED SHORELINE SLOPE BY RECONSTRUCTING WITH STRUCTURAL METHODS.
- SOUNDINGS SHOWN HEREON ARE A RESULT OF A BATHYMETRIC SURVEY BY AMBIT ENGINEERING ON 10/20/2023, AND THE DEPTHS SHOWN ARE A DERIVED VALUE BASED ON A GRID PATTERN LABELED OVER THE EXTENT OF THE SURVEY.

SURVEY DATUM

THIS SURVEY IS ORIENTED TO N.H. STATE PLANE GRID NORTH AS DETERMINED BY UTILIZING BAO ELP "FLEX 5600" DUAL FREQUENCY GNSS (GPS, GLOPASS, GALELIO & BEIDOU) RECEIVERS, RTK, VERTICAL NETWORK METHODS. OBSERVATIONS WERE TAKEN ON 10/23/2023. HORIZONTAL DATUM: NAVD 88 UTILIZING (GEOID 18). BEGIN DATE = 01/01/2020. REFERENCE FRAME: ITRF2014

DATE	REVISION	INITIALS
03/29/2024	REVISE AS PER NHDES PRE-APP MTG.	CTB
05/30/2024	SHADING AND PLANTING PLAN ADDED	CTB
06/12/2024	WORK NOTE ADDED AS PER NHDES	CTB

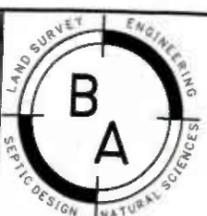
DATE 7/15/2024 JOB No. 3756
DRAWN BY: CTB

SCALE: 1" = 10' 10 5 0 10 20



LEGEND

● REBAR FND/SET	⊕ TEMPORARY BENCHMARK	○ SEWER MAN HOLE	○ STONEWALL
○ REBAR TO BE SET	⊕ PERMANENT BENCHMARK	○ DRAIN MAN HOLE	○ TREELINE
○ DRILL HOLE FND/SET	⊕ WETLAND FLAG	○ WELL	○ WETLAND
○ CONCRETE BND.FND/SET	⊕ TREE STUMP FOUND	○ HYDRANT	○ EXISTING WATER
○ CONC. BND. TO BE SET	○ PERCOLATION TEST	○ WATER SHUTOFF	○ EXISTING SEWER LINE
○ GRANITE BND. FND/SET	○ TEST PIT	○ GATE VALVE	○ EXISTING STORM DRAIN
○ STONE ERECT FOUND	○ DECIDUOUS TREE	○ CATCH BASIN	○ EXISTING SETBACK LINE
○ STAKE & STONES FND.	○ CONIFEROUS TREE	○ UTILITY POLE	
○ IRON ROD FOUND	○ 22B SOIL TYPE	○ LIGHT POLE	
○ IRON PIPE FOUND	○ EDGE OF GRAVEL DRIVE	○ GUY ANCHOR	
○ SPIKE FND/SET			
○ MAGNAIL (PK) FND/SET			
○ HUB & TACK FND/SET			



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TAX MAP 110 LOT 02-00
TUCKER BROOK RESTORATION PLAN
LOCATED ON MALLARDS' LANDING ASSOCIATION
WINNISQUAM LAKE & UNION ROAD, BELMONT NH
PROPERTY OWNER: BOARD OF DIRECTORS
MALLARD'S LANDING ASSOCIATION
200 UNION RD.
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DEED: BK. 1015 Pg. 0124
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