



176 Newport Road – Suite 8, New London, NH 03257 • Ph 603-877-0116 • Fax 603-444-1343 • [www.horizonsengineering.com](http://www.horizonsengineering.com)

March 18, 2024

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

Re: **Wetlands Permit Application – Major Impact**  
Goodhue Meredith, LLC  
Meredith, NH Tax Map #U35, Lot #8A & 11  
Horizons Proj. No. 20818

To Whom It May Concern:

On behalf of our client, Goodhue Meredith, LLC, we are pleased to provide the enclosed wetlands permit application and supporting materials. The proposed surface water and bank impact area is anticipated to be 3,645 square feet permanent impact and 2,027 square feet of temporary construction impact. The proposed major docking system reconfiguration includes removal of 8,801 square feet and installation of 8,801 square feet for new docking reconfiguration, a net zero change of docking area.

This project will not require compensatory mitigation in accordance with Env-Wt 313.04. As part of this application, we have included the jurisdictional impact areas and reconfigured docking area with the fee calculation. DHR has provided a positive response and email correspondence for this reduced project scope, included herein, as compared to the original 2020 DHR RPR submittal.

Please feel free to call or email with any additional questions or concerns. We can be reached in our New London, NH office at (603) 877-0116, or by email at [wdavis@horizonsengineering.com](mailto:wdavis@horizonsengineering.com) or [dmacdermott@horizonsengineering.com](mailto:dmacdermott@horizonsengineering.com).

Respectfully,

A handwritten signature in blue ink, appearing to read "Drew MacDermott".

Drew MacDermott, PE  
*Project Engineer*

A handwritten signature in blue ink, appearing to read "William T. Davis".

William T. Davis, PE LEED AP  
*Vice President*

Z:\proj\_2020\20818 Goodhue - 31 Lovejoy Sands\DOCS\Permits\NHDES Wetland\2023 - Launch-Lift Only\0.2 Cover Letter\_2024-03.doc

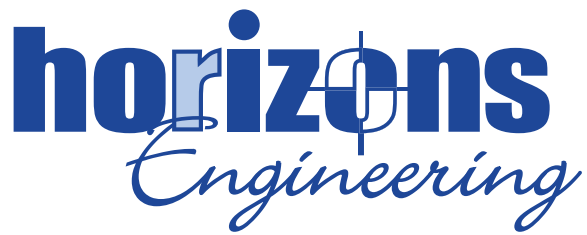
**Horizons Engineering, Inc.**

**MAINE • NEW HAMPSHIRE • VERMONT**

# **MAJOR IMPACT WETLANDS PERMIT APPLICATION**



**GOODHUE MEREDITH, LLC  
31 LOVEJOY SANDS ROAD  
Meredith, New Hampshire**



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**MAJOR IMPACT WETLANDS PERMIT APPLICATION**

**FOR**

**GOODHUE MEREDITH, LLC  
31 LOVEJOY SANDS ROAD  
Meredith, New Hampshire**

**Prepared by:  
Horizons Engineering, Inc.  
176 Newport Road, Suite 8  
New London, New Hampshire  
(603) 877-0116  
Contact: Will Davis, PE**

**March 2024**

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# **SECTION 1**

## **NHDES Application**

## **1.1 NHDES Wetlands Permit Application**



# STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division / Land Resources Management  
[Check the Status of your Application](#)



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

**APPLICANT'S NAME:** Goodhue Meredith Real Property, LLC    **TOWN NAME:** MEREDITH

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No.:
			Check No.:
			Amount:
			Initials:

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"> <li>• 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.</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> <li>• Protected species or habitat?               <ul style="list-style-type: none"> <li>○ If yes, species or habitat name(s):</li> <li>○ NHB Project ID #: <b>NHB23-3103</b></li> </ul> </li> </ul>	<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"> <li>• Name of Local River Management Advisory Committee (LAC):</li> <li>• A copy of the application was sent to the LAC on Month: Day: Year:</li> </ul>	

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 <a href="#">WPPT</a> or Stream Stats):	
<b>SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))</b>	
Provide a description of the project and the purpose of the project, the need for the proposed impacts to jurisdictional areas, an outline-of the scope of work to be performed, and whether impacts are temporary or permanent.	
THIS PROJECT INCLUDES BOAT LAUNCHING AND DOCKING IMPROVEMENTS. THE PURPOSE IS TO REPURPOSE THE EXISTING COMMERCIAL BOAT LAUNCH, CONSTRUCT A NEW NEGATIVE LIFT WHICH WILL REQUIRE A DUG-IN BASIN AS PART OF THE LAUNCHING IMPROVEMENTS, AND RECONFIGURE A PORTION OF THE EXISTING MAJOR DOCKING SYSTEM.	
RECONFIGURATION OF EXISTING MAJOR DOCKING SYSTEM TO MEET EXISTING SLIPS COUNT AND DOCK SQUARE FOOT AREA. EXISTING DOCKING SYSTEM: 9,294 SF TOTAL. PROPOSED DOCKING SYSTEM: 9,294 SF TOTAL (8,801 SF REMOVAL AND 8,801 SF RECONFIGURED DOCKING)..... NET ZERO CHANGE OF DOCKING AREA.	
TOTAL NEW PERMANENT IMPACT:	
- 3,645 SF IMPACT FOR INSTALLATION OF NEGATIVE LIFT AND BOAT LAUNCH	
TOTAL TEMPORARY IMPACT:	
- 2,027 SF IMPACT FOR INSTALLATION OF NEGATIVE LIFT AND BOAT LAUNCH	
TOTAL LINEAR FEET SHORELINE IMPACT: 83 LF +/-	
<b>SECTION 3 - PROJECT LOCATION</b>	
Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.	
ADDRESS: 31 Lovejoy Sands Road	
TOWN/CITY: MEREDITH	
TAX MAP/BLOCK/LOT/UNIT: U35 / 8A & 11	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: LAKE WINNIPESAUKEE <input type="checkbox"/> N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places): 43.6516 N, 71.4269 W	

**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: Goodhue Meredith Real Property, LLC

MAILING ADDRESS: 31 Lovejoy Sands Road

TOWN/CITY: Meredith

STATE: NH

ZIP CODE: 03253

EMAIL ADDRESS: [codyg@goodhueboat.com](mailto:codyg@goodhueboat.com)

FAX:

PHONE: 603-279-4573

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

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

LAST NAME, FIRST NAME, M.I.: DAVIS, WILL T.

COMPANY NAME: HORIZONS ENGINEERING, INC.

MAILING ADDRESS: 176 NEWPORT ROAD, SUITE 8

TOWN/CITY: NEW LONDON

STATE: NH

ZIP CODE: 03257

EMAIL ADDRESS: [wdavis@horizonsengineering.com](mailto:wdavis@horizonsengineering.com)

FAX:

PHONE: 603-877-0116

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

**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):

**Env-Wt 407.03** - More than 3,000 SF and less than 10,000 SF of wetland impact for construction of boat launch and negative lift qualifies as a minor project; This project has minimized impacts to wetlands and allowed for wetland hydrologic connections to remain intact in the western portion of the site. New impacts are also minimized at the negative lift using concrete walls and at the boat launch with Class C Stone and 2:1 slopes. To further mitigate future erosion, the boat launch also includes a new stone-lined plunge pool in the area where boat propellers may contact the lake bottom.

**Env-Wt 513.07 (b)(2) and (c)** – The project includes an extension of the existing boat launch length AND width, therefore, the non-docking structures are classified in accordance with Env-Wt 407.

**Env-Wt 513.24 (c)(2)** - This project includes a reconfiguration of the marinas existing major docking system and qualifies as a major project; Also See Cover Letter & Wetland Narrative

**Env-Wt 515, Dug-In Basin for Negative Lifts/Wells** - Negative Lift/Well Dug-In Basins are to be constructed to meet the intent of 515.05

## 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	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	8,801		<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	3,645	83	<input type="checkbox"/>	2,027		<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"/>
<b>TOTAL</b>		<b>12,446</b>	<b>83</b>		<b>2,027</b>		

#### 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):	5,672 SF	×	\$0.40 =	\$ 2,268.80
Seasonal docking structure:	0 SF	×	\$2.00 =	\$ 0.00
Permanent docking structure:	8,801 SF	×	\$4.00 =	\$35,204.00
Projects proposing shoreline structures (including docks) add \$400 =				\$ 400.00
Total =				<b>\$37,872.80</b>

*The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = **\$37,872.80***

[irm@des.nh.gov](mailto:irm@des.nh.gov) or (603) 271-2147

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

[des.nh.gov](http://des.nh.gov)



**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: CG	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: CG	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: CG	<p>The signer understands that:</p> <ul style="list-style-type: none"> <li>The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: <ol style="list-style-type: none"> <li>Deny the application.</li> <li>Revoke any approval that is granted based on the information.</li> <li>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.</li> </ol> </li> </ul>
Initials: CG	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: CODY GRAY, VP OPERATIONS	DATE: 03/11/24
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE): 	PRINT NAME LEGIBLY: WILL T. DAVIS, PE	DATE: 03/18/2023

**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: Kerri A. Parker
TOWN/CITY: meredon	DATE: 3/19/2024

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".

### **1.1.1 Signed Agent Authorization Form**

03/11/24

---

Date

NH Department of Environmental Services  
P.O. Box 95  
Concord, NH 03302

To Whom It May Concern:

By this letter, I/We hereby authorize Horizons Engineering, Inc. to act as my/our Agent to apply for and coordinate permit applications on my/our behalf in regard to the Goodhue Meredith Boat Launch Improvements project at Tax Map U35 Lot 8A in Meredith, NH. I/We agree to the conditions stated on the application forms.

Sincerely,



---

Cody Gray  
Vice President, Operations  
Goodhue Meredith Real Property, LLC

## **1.2 NHDES Wetlands Permit Application Fee (Copy of Check)**

**DBA SHEP BROWN'S BOAT BASIN****6991**

Treasurer - State of NH

Check Date 02/23/24

Check No. 6991

Invoice No.      Inv Date  
feesmeredith      02/22/2024  
feesmeredithpermits 02/22/2024

Description  
Shoreline Fee Goodhue  
Wetland Fee Goodhue Me

Discount Taken	Amount Paid
\$0.00	\$1,202.00
\$0.00	\$37,872.80

PRODUCT SSLB120    USE WITH 91564 ENVELOPE

Deluxe Corporation 1-800-328-0304 or [www.deluxe.com/shop](http://www.deluxe.com/shop)

PRINTED IN U.S.A.

Check Total

A

**\$39,074.80****GOODHUE MEREDITH LLC**

31 LOVEJOY SANDS RD  
MEREDITH, NH 03253



54-7293/2117

**6991**

Pay to the  
Order of

Treasurer - State of NH

02/23/2024

**\$39,074.80**

\*\*\* Thirty-Nine Thousand Seventy-Four Dollars and 80 Cents \*\*\*

Treasurer - State of NH



*[Signature]*  
AUTHORIZED SIGNATURE

Security features. Details on back.



⑈006991⑈ ⑆211772936⑆ 06 700503⑈

## **1.3 Pre-Application Meeting Correspondence**



## **1.4 Mitigation Narrative**

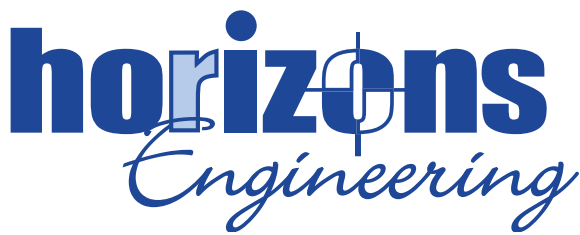
## **Section 1.4 – Mitigation Narrative**

As summarized in the Wetland Narrative (Section 1.5) and as noted on the plans (Section 3), the project proposes both dredging and discharge of dredged or fill material in wetlands. The discharge of dredged or fill material in wetlands require US Army Corps of Engineers (USACE) authorization through the Programmatic General Permit (PGP). The total area of impact for placement of dredged or fill material is 2,015 sf below the Ordinary High Water Mark (NHDES Reference Line), or 3,122 sf below the Top of Bank, which is below the USACE threshold for compensatory mitigation, as outlined in Section IV (7) (d). Therefore, we do not anticipate the need for compensatory mitigation. We have submitted the application materials to USACE and requested their review for concurrence.

This project will not require compensatory mitigation in accordance with Env-Wt 313.04. As part of the application fee calculation, we have included both the jurisdictional impact areas and reconfigured docking area.

Z:\proj\_2020\20818 Goodhue - 31 Lovejoy Sands\DOCS\Permits\NHDES Wetland\2023 - Launch-Lift Only\1.4 Mitigation Narrative-01.docx

## **1.5 Wetland Narrative**



176 Newport Road – Suite 8, New London, NH 03257 • Ph 603-877-0116 • Fax 603-444-1343 • [www.horizonsengineering.com](http://www.horizonsengineering.com)

## **Section 1.5 – Wetland Application Narrative**

Goodhue Meredith Real Property, LLC (“Marina”) is proposing to improve their marina operations at 31 Lovejoy Sands Road in Meredith, NH. Currently, there are several operational hazards while launching watercraft at the Lovejoy Public Landing and pedestrian area. Boats small and large are transported by forklift on Lovejoy Sands Road in extreme proximity to pedestrian and vehicular traffic, particularly near the Town of Meredith (“Town”) public parking lot at Tax map U35 Lot 10, the Lovejoy Public Landing and pedestrian area, the existing marina main office (building “C-1”) and existing showroom (building “B-5”). A site visit found customer and employee vehicles, boats, and trailers throughout the site essentially filling available usable space on site, while there are minimal safe pedestrian routes to and from the Town parking lot. A functions and values assessment was completed for lacustrine wetlands in 2021 by Ambit Engineering, Inc. and is included with this application (see Section 14).

The proposed dug-in basin (“negative lift”) and boat launch location has been sited to reduce hazards and conflicts by moving marina launching operations away from the existing Town Lovejoy Public Landing. The project will repurpose an existing commercial boat launch for the Marina, separate from the Town Lovejoy Public Landing, localizing the majority of marina boat launching operations to the new boat launch and eastern reconfigured docking system. The negative lift dug-in basin adjacent to the boat launch is sited landward of the Lake Winnepesaukee reference line. This location provides a safer environment for forklifts to load marina watercraft without pedestrian and vehicular hazards as compared with the existing conditions near building “C-1”.

A complete reconfiguration of the existing major docking system is part of the Marina’s long-term master plan. At this time, the project will eliminate a portion of the major docking system, add a new commercial dock at the boat launch, and two docks along the negative lift basin, providing a net zero change of the major docking system.

The proposed negative lift dug-in basin and boat launch will include 3,645 square feet of permanent impacts and 2,027 square feet of temporary impacts. This project provides a net zero change of the major docking system. The required impacts for the improvements described above avoids jurisdictional impacts to the maximum extent possible. The current design has been chosen after reviewing several conceptual iterations with varying degrees of jurisdictional impacts. Reuse of the existing commercial boat ramp was considered to be a high priority for avoiding and minimizing jurisdictional impacts.

The negative lift would independently qualify for a Project-Type Exception under Env-Wt 515. Jurisdictional impacts for reconstruction of the existing commercial boat launch qualify to be calculated in accordance with Env-Wt 407, pursuant to Env-Wt 518.07. The major docking

**Horizons Engineering, Inc.**

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system reconfiguration automatically qualifies as a major impact project. Together, the boat launch, negative lift and docking wetland impacts are less than 10,000 square feet and more than 3,000 square feet of jurisdictional bank/shoreline impacts. Therefore, this project would qualify as a Major Impact project under Env-Wt 407.03.

Additionally, the location and scale of the project is such that a NHDES Shoreland Permit and a local Site Plan Review approval will be required. The plan set provided is focused on the proposed wetland and shoreland impacts. All required applications are planned to be submitted concurrently with one another. We have not received comments from the local Conservation Commission or any federal agency. The local Conservation Commission and Army Corps of Engineers will receive a copy of this application submittal.

Items required by Env-Wt 311.09 are included for the non-tidal surface water shoreline on the site plans and in a concurrent NHDES Shoreland Permit application.

As confirmed on October 25, 2023 with the New Hampshire Natural Heritage Bureau and US Fish and Wildlife Service, the project does not propose impacts to exemplary natural communities or state or federally listed endangered or threatened species or habitats.

Z:\proj\_2020\20818 Goodhue - 31 Lovejoy Sands\DOCS\Permits\NHDES Wetland\2023 - Launch-Lift Only\1.5 Wetlands Narrative-02.docx

## **SECTION 2**

# **USACoE PGP Requirements**

**2.1 USACoE Programmatic General Permit  
PGP Requirements  
(Included in Section 2.2)**



## **2.2 Appendix B**

### **Corps Secondary Impacts Checklist**



**US Army Corps  
of Engineers®**  
New England District

## Appendix B

### **New Hampshire General Permits (GPs) Required Information and Corps Secondary Impacts Checklist**

In order for the Corps of Engineers to properly evaluate your application, applicants must submit the following information along with the New Hampshire DES Wetlands Bureau application or permit notification forms. Some projects may require more information. For a more comprehensive checklist, go to <https://www.nae.usace.army.mil/Missions/Regulatory/> “Useful Documents, Forms and Publications” and then “Corps Application Form and Guidance.” Check with the Corps at (978) 318-8832 for project-specific requirements. For your convenience, this Appendix B is also attached to the State of New Hampshire DES Wetlands Bureau application and Permit by Notification forms.

#### **All Projects:**

- New Hampshire Department of Environmental Services (DES) Wetlands Permit Application.
- Request for Project Review Form by the New Hampshire Division of Historical Resources (DHR)  
<https://www.nh.gov/nhdhr/review/rpr.htm>.
- Photographs of wetland/waterway to be impacted.
- Purpose of the project.
- Legible, reproducible plans no larger than 11”x17” with bar scale. Provide locus map and plan views of the entire property.
- Typical cross-section views of all wetland and waterway fill areas and wetland replication areas.
- In navigable waters, show mean low water (MLW) and mean high water (MHW) elevations. Show the high tide line (HTL) elevations when fill is involved. In other waters, show ordinary high water (OHW) elevation.
- On each plan, show the following for the project:
  - Vertical datum and the NAVD 1988 equivalent with the vertical units as U.S. feet. In coastal waters this may be mean higher high water (MHHW), mean high water (MHW), mean low water (MLW), mean lower low water (MLLW) or other tidal datum with the vertical units as U.S. feet. MLLW and MHHW are preferred. Provide the correction factor detailing how the vertical datum (e.g., MLLW) was derived using the latest National Tidal Datum Epoch for that area, typically 1983-2001.
  - Horizontal state plane coordinates in U.S. survey feet based on the Traverse Mercator Grid system for the State of New Hampshire (Zone 2800) NAD 83.
  - Project limits with existing and proposed conditions.
  - Limits of any Federal Navigation Project in the vicinity of the project area and horizontal State Plane Coordinates in U.S. survey feet for the limits of the proposed work closest to the Federal Navigation Project;
  - Volume, type, and source of fill material to be discharged into waters and wetlands, including the area(s) (in square feet or acres) of fill in wetlands, below the OHW in inland waters and below the HTL in coastal waters.
  - Delineation of all waterways and wetlands on the project site,;
- Use Federal delineation methods and include Corps wetland delineation data sheets (GC 2).
- For activities involving discharges of dredged or fill material into waters of the U.S., include a statement describing how impacts to waters of the U.S. are to be avoided and minimized, and either a statement describing how impacts to waters of the U.S. are to be compensated for (or a conceptual or detailed mitigation plan) or a statement explaining why compensatory mitigation should not be required for the proposed impacts. Please contact the Corps for guidance.



**US Army Corps  
of Engineers**®  
New England District

**New Hampshire General Permits (GPs)  
Appendix B - Corps Secondary Impacts Checklist  
(for inland wetland/waterway fill projects in New Hampshire)**

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to “work” include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See GC 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

<b>1. Impaired Waters</b>	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See <a href="http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm">http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm</a> to determine if there is an impaired water in the vicinity of your work area.*		<b>X</b>
<b>2. Wetlands</b>	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	<b>X</b>	
2.2 Are there proposed impacts to SAS, special wetlands. Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a> . The book <a href="#">Natural Community Systems of New Hampshire</a> also contains specific information about the natural communities found in NH.		<b>X</b>
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?		<b>X</b>
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		<b>X</b>
2.5 The overall project site is more than 40 acres?		<b>X</b>
2.6 What is the area of the previously filled wetlands?	0 SF	
2.7 What is the area of the proposed fill in wetlands?	0 SF	
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?	0.0%	
<b>3. Wildlife</b>	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a> USFWS IPAC website: <a href="https://ecos.fws.gov/ipac/location/index">https://ecos.fws.gov/ipac/location/index</a>		<b>X</b>

3.2 Would work occur in any area identified as either “Highest Ranked Habitat in N.H.” or “Highest Ranked Habitat in Ecological Region”? (These areas are colored magenta and green, respectively, on NH Fish and Game’s map, “2010 Highest Ranked Wildlife Habitat by Ecological Condition.”) Map information can be found at: <ul style="list-style-type: none"> <li>• PDF: <a href="https://wildlife.state.nh.us/wildlife/wap-high-rank.html">https://wildlife.state.nh.us/wildlife/wap-high-rank.html</a>.</li> <li>• Data Mapper: <a href="http://www.granit.unh.edu">www.granit.unh.edu</a>.</li> <li>• GIS: <a href="http://www.granit.unh.edu/data/downloadfreedata/category/databycategory.html">www.granit.unh.edu/data/downloadfreedata/category/databycategory.html</a>.</li> </ul>	X	
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the GC 21?		N/A
<b>4. Flooding/Floodplain Values</b>	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		X
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		
<b>5. Historic/Archaeological Resources</b>		
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR) Form ( <a href="http://www.nh.gov/nhdhr/review">www.nh.gov/nhdhr/review</a> ) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 11 GC 8(d) of the GP document**	X	

\*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.













\*\* If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

### **2.2.1 Impaired Waters Within 1 Mile**

# Inland Theme - 31 Lovejoy Sands Rd

## Legend

### Active Permits

-  AGRICULT
-  EMERGENCY
-  EXPEDITED
-  PBN
-  ROADWAYREG
-  SHORE-PBN
-  SHORELAND
-  SPN
-  STD APP
-  TRAILS
-  UTILITY
-  WET-PBN

### NH Parcels

 Additional Lines

 City/Town

### Designated Rivers with a

-  Ammonoosuc
-  Ashuelot
-  Cocheco
-  Cold

### Map Scale

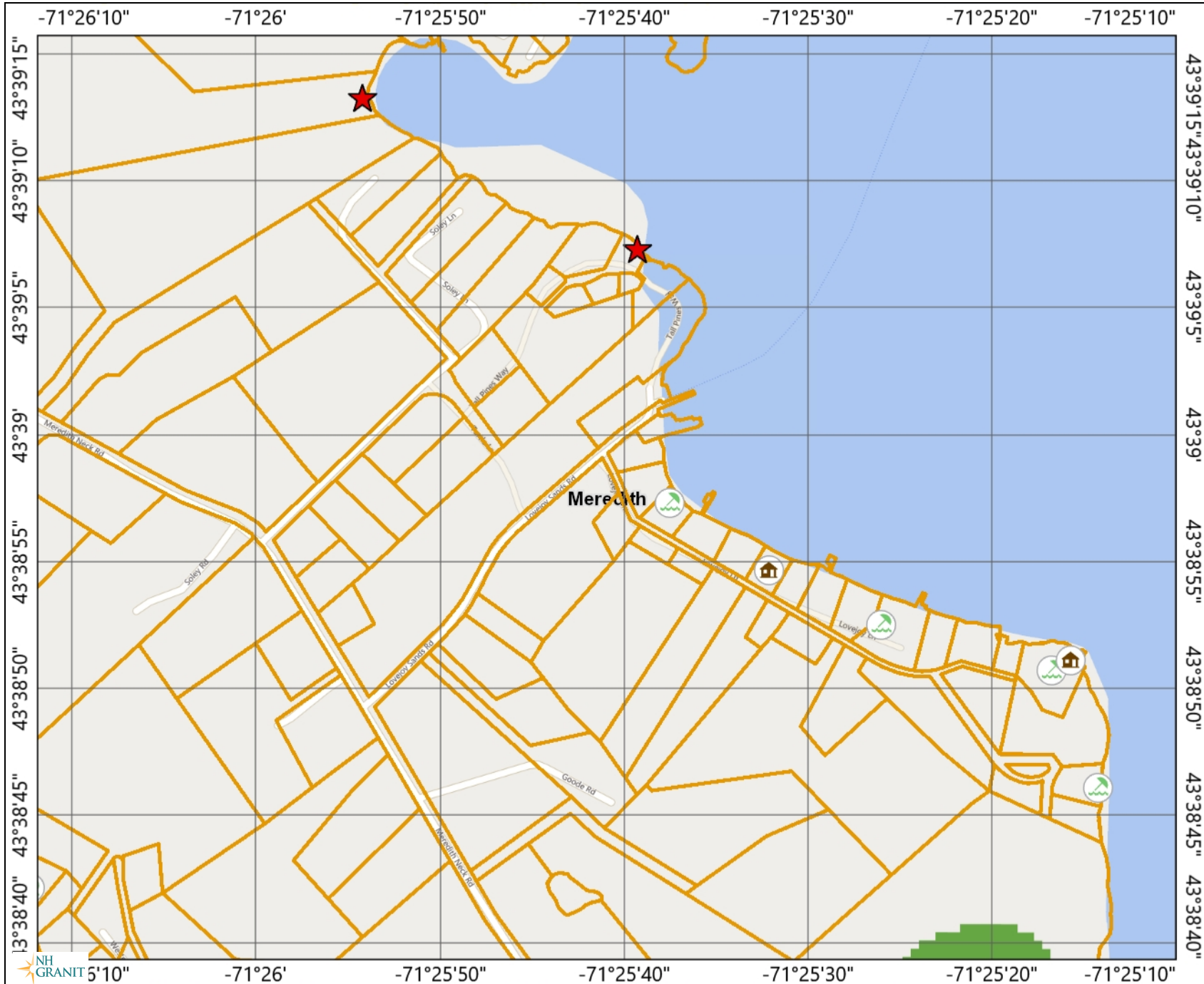
1: 6,494

© NH GRANIT, www.granit.unh.edu

Map Generated: 10/25/2023



### Notes



### **2.2.2 National Historic Preservation (NHB Review)**



# New Hampshire Natural Heritage Bureau

## NHB DataCheck Results Letter

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**To:** Drew MacDermott  
176 Newport Road  
Suite 8  
New London, NH 03257

**From:** NH Natural Heritage Bureau

**Date:** 10/25/2023 (This letter is valid through 10/25/2024)

**Re:** Review by NH Natural Heritage Bureau of request dated 10/25/2023

**Permit Types:** Shoreland Standard Permit  
Wetland Standard Dredge & Fill - Minor  
Meredith

**NHB ID:** NHB23-3103

**Applicant:** Drew MacDermott

**Location:** Meredith  
Tax Map: u35, Tax Lot: 8A  
Address: 31 Lovejoy Sands Road

**Proj. Description:** Partial removal of existing docks, expand length and width of existing commercial boat ramp (30' wide x 50' long, approx), new "negative lift" dug-in basin, and associated grading improvements.

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

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**MAP OF PROJECT BOUNDARIES FOR: NHB23-3103**



### **2.2.3 USFWS IPAC (Endangered Species)**



## United States Department of the Interior

FISH AND WILDLIFE SERVICE  
New England Ecological Services Field Office  
70 Commercial Street, Suite 300  
Concord, NH 03301-5094  
Phone: (603) 223-2541 Fax: (603) 223-0104



In Reply Refer To:  
Project code: 2024-0008981  
Project Name: 20818 - 2023 Wetland Ramp-Lift Permitting

October 25, 2023

Federal Action Agency (if applicable): New Hampshire Department of Environmental Services

**Subject:** Record of project representative's no effect determination for '20818 - 2023 Wetland Ramp-Lift Permitting'

Dear William MacDermott:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on October 25, 2023, for '20818 - 2023 Wetland Ramp-Lift Permitting' (here forward, Project). This project has been assigned Project Code 2024-0008981 and all future correspondence should clearly reference this number. **Please carefully review this letter.**

### **Ensuring Accurate Determinations When Using IPaC**

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.***

### **Determination for the Northern Long-Eared Bat**

Based upon your IPaC submission and a standing analysis, your project has reached the determination of "No Effect" on the northern long-eared bat. To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed

action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no consultation with the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13].

### **Other Species and Critical Habitat that May be Present in the Action Area**

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Monarch Butterfly *Danaus plexippus* Candidate

You may coordinate with our Office to determine whether the Action may affect the animal species listed above and, if so, how they may be affected.

### **Next Steps**

Based upon your IPaC submission, your project has reached the determination of “No Effect” on the northern long-eared bat. If there are no updates on listed species, no further consultation/coordination for this project is required with respect to the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place to ensure compliance with the Act.

If you have any questions regarding this letter or need further assistance, please contact the New England Ecological Services Field Office and reference Project Code 2024-0008981 associated with this Project.

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**Action Description**

You provided to IPaC the following name and description for the subject Action.

**1. Name**

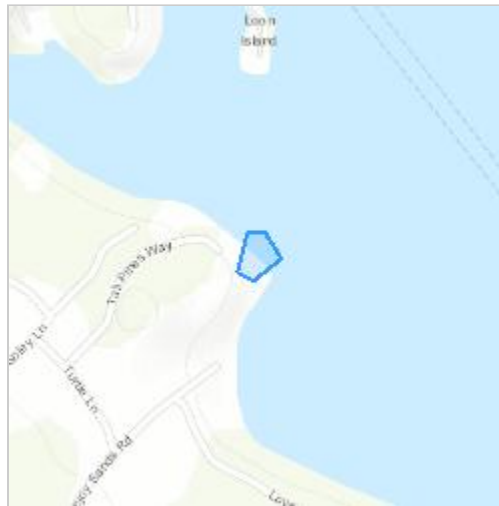
20818 - 2023 Wetland Ramp-Lift Permitting

**2. Description**

The following description was provided for the project '20818 - 2023 Wetland Ramp-Lift Permitting':

Reconstruct existing commercial boat launch and construct new dug-in basin (negative lift), both for boat launching operations.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.65176005,-71.42677870865455,14z>



## DETERMINATION KEY RESULT

Based on the information you provided, you have determined that the Proposed Action will have no effect on the Endangered northern long-eared bat (*Myotis septentrionalis*). Therefore, no consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required for those species.

## QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

**Note:** Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. The proposed action does not intersect an area where the northern long-eared bat is likely to occur, based on the information available to U.S. Fish and Wildlife Service as of the most recent update of this key. If you have data that indicates that northern long-eared bats are likely to be present in the action area, answer "NO" and continue through the key.

Do you want to make a no effect determination?

Yes

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## PROJECT QUESTIONNAIRE

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**IPAC USER CONTACT INFORMATION**

Agency: Horizons Engineering, Inc.  
Name: William MacDermott  
Address: 176 Newport Road  
Address Line 2: Suite 8  
City: New London  
State: NH  
Zip: 03257  
Email: dmacdermott@horizonsengineering.com  
Phone: 6038770116

**LEAD AGENCY CONTACT INFORMATION**

Lead Agency: New Hampshire Department of Environmental Services

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# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
New England Ecological Services Field Office  
70 Commercial Street, Suite 300  
Concord, NH 03301-5094  
Phone: (603) 223-2541 Fax: (603) 223-0104



In Reply Refer To:  
Project Code: 2024-0008981  
Project Name: 20818 - 2023 Wetland Ramp-Lift Permitting

October 25, 2023

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

*Updated 4/12/2023 - Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.*

## **About Official Species Lists**

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested by returning to an existing project's page in IPaC.

## **Endangered Species Act Project Review**

Please visit the “**New England Field Office Endangered Species Project Review and Consultation**” website for step-by-step instructions on how to consider effects on listed

species and prepare and submit a project review package if necessary:

<https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review>

**\*NOTE\*** Please do not use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

**Northern Long-eared Bat - (Updated 4/12/2023)** The Service published a final rule to reclassify the northern long-eared bat (NLEB) as endangered on November 30, 2022. The final rule went into effect on March 31, 2023. You may utilize the **Northern Long-eared Bat Rangewide Determination Key** available in IPaC. More information about this Determination Key and the Interim Consultation Framework are available on the northern long-eared bat species page:

<https://www.fws.gov/species/northern-long-eared-bat-myotis-septentrionalis>

For projects that previously utilized the 4(d) Determination Key, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective. If your project was not completed by March 31, 2023, and may result in incidental take of NLEB, please reach out to our office at [newengland@fws.gov](mailto:newengland@fws.gov) to see if reinitiation is necessary.

#### *Additional Info About Section 7 of the Act*

Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/service/section-7-consultations>

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Please contact NEFO if you would like more information.

**Candidate species** that appear on the enclosed species list have no current protections under the ESA. The species' occurrence on an official species list does not convey a requirement to

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consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

### **Migratory Birds**

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

<https://www.fws.gov/program/migratory-bird-permit>

<https://www.fws.gov/library/collections/bald-and-golden-eagle-management>

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

Attachment(s):

- Official Species List

## **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

### **New England Ecological Services Field Office**

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

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## PROJECT SUMMARY

Project Code: 2024-0008981

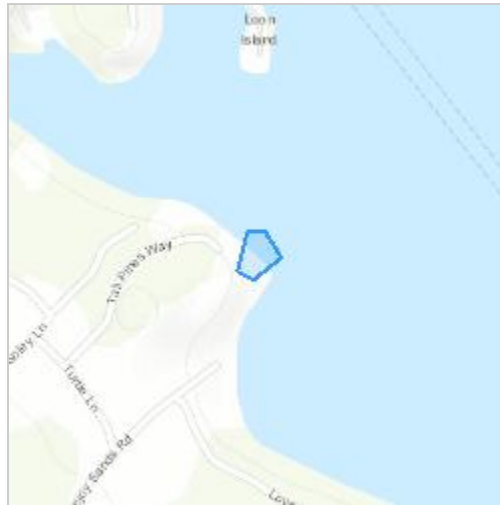
Project Name: 20818 - 2023 Wetland Ramp-Lift Permitting

Project Type: Commercial Development

Project Description: Reconstruct existing commercial boat launch and construct new dug-in basin (negative lift), both for boat launching operations.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.65176005,-71.42677870865455,14z>



Counties: Belknap County, New Hampshire

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## ENDANGERED SPECIES ACT SPECIES

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## MAMMALS

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Endangered

## INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

## CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

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**IPAC USER CONTACT INFORMATION**

Agency: Horizons Engineering, Inc.  
Name: William MacDermott  
Address: 176 Newport Road  
Address Line 2: Suite 8  
City: New London  
State: NH  
Zip: 03257  
Email: dmacdermott@horizonsengineering.com  
Phone: 6038770116

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## **2.2.4 “Highest Ranked Habitat” Or “Highest Ranked Habitat in Ecological Region”**



# Highest Ranked Wildlife Habitat



## Legend

- Active Permits
- AGRICULT
  - EMERGENCY
  - EXPEDITED
  - PBN
  - ROADWAYREG
  - SHORE-PBN
  - SHORELAND
  - SPN
  - STD APP
  - TRAILS
  - UTILITY
  - WET-PBN
- NH Parcels
- Additional Lines
- City/Town
- Designated Rivers with a
- Ammonoosuc
  - Ashuelot
  - Cochecho
  - Cold

## Map Scale

1: 3,247

© NH GRANIT, [www.granit.unh.edu](http://www.granit.unh.edu)

Map Generated: 10/25/2023



## Notes

### **2.2.5      Flooding/Floodplain Values** (Not Applicable)

## **2.2.6 NH Division of Historical Resources (NHDHR Review)**

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources  
State Historic Preservation Office  
Attention: Review & Compliance  
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED  
JUN 08 2010

DHR Use Only	
R&C #	11834
Log In Date	6, 9, 20
Response Date	___ / ___ / ___
Sent Date	11, 3, 23

11/7/23

## Request for Project Review by the New Hampshire Division of Historical Resources

- ☒ This is a new submittal  
☐ This is additional information relating to DHR Review & Compliance (R&C) #:

### GENERAL PROJECT INFORMATION

Project Title 31 LOVEJOY SANDS ROAD

Project Location 31 LOVEJOY SANDS ROAD

City/Town MEREDITH Tax Map U35 Lot # 8A, 11, 12, 14

NH State Plane - Feet Geographic Coordinates: Easting 1047000 Northing 418900  
(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact (if applicable) EPA  
(Agency providing funds, licenses, or permits)  
Permit Type and Permit or Job Reference # EPA C.G.P.

State Agency and Contact (if applicable) NHDES, WETLAND BUREAU  
Permit Type and Permit or Job Reference # WETLAND PERMIT

### APPLICANT INFORMATION

Applicant Name GOODHUE MEREDITH, LLC ATTN: CODY GRAY

Mailing Address 31 Lovejoy Sands Road Phone Number 603-279-4573

City MEREDITH State NH Zip 03253 Email cody@goodhueandhawkins.com

### CONTACT PERSON TO RECEIVE RESPONSE

Name/Company DREW MACDERMOTT, HORIZONS ENGINEERING

Mailing Address PO BOX 1825 Phone Number 6038770116

City NEW LONDON State NH Zip 03257 Email dmacdermott@horizonsengineering.com

This form is updated periodically. Please download the current form at [www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review). Please refer to the Request for Project Review Instructions for direction on completing this form. Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: [www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review) or contact the R&C Specialist at [martha.lalush@dhr.nh.gov](mailto:martha.lalush@dhr.nh.gov) or 603.271.3558.

Project Boundaries and Description

- ☐ Attach the Project Mapping *using EMMIT or relevant portion of a 7.5' USGS Map. (See RPR Instructions and R&C FAQs for guidance.)*
- ☐ Attach a detailed narrative description of the proposed project.
- ☐ Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- ☐ Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) *(Informative photo captions are requested.)*
- ☐ A DHR records search must be conducted to identify properties within or adjacent to the project area. Provide records search results via EMMIT or in **Table 1**. *(Blank table forms are available on the DHR website.)* Please note, using EMMIT Guest View for an RPR records search does not provide the necessary information needed for DHR review.
- EMMIT or in-house records search conducted on      /      /      .

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? ☐ Yes ☐ No

If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s):

- ☐ Photographs of *each* resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- ☐ If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity? ☐ Yes ☐ No

If yes, submit all of the following information:

- ☐ Description of current and previous land use and disturbances.
- ☐ Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

**DHR Comment/Finding Recommendation** *This Space for Division of Historical Resources Use Only*

☐ Insufficient information to initiate review. ☐ Additional information is needed in order to complete review.

☐ No Potential to cause Effects ☒ No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

*If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.*

Authorized Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## Drew MacDermott

---

**From:** Labash, Marika <Marika.S.Labash@dnrcr.nh.gov>  
**Sent:** Thursday, October 26, 2023 9:47 AM  
**To:** Drew MacDermott  
**Subject:** RE: R&C #11834 - Reduced Project Area

Okay, I would be fine signing off on a new finding for you given this additional information. I will email or mail a copy of the form to you in the next few days.

Marika

---

**From:** Drew MacDermott <dmacdermott@horizonsengineering.com>  
**Sent:** Thursday, October 26, 2023 9:24 AM  
**To:** Labash, Marika <Marika.S.Labash@dnrcr.nh.gov>  
**Subject:** RE: R&C #11834 - Reduced Project Area

**EXTERNAL:** Do not open attachments or click on links unless you recognize and trust the sender.

---

Marika,

That is correct. These two remaining items in the project scope will not impact cellar holes or other historic features. This location is at an existing commercial boat launch (you may reference Photo #64 from the original submission).

Drew MacDermott, PE  
[Horizons Engineering, Inc.](#)  
Locations throughout NH, VT, and ME

---

**From:** Labash, Marika <[Marika.S.Labash@dnrcr.nh.gov](mailto:Marika.S.Labash@dnrcr.nh.gov)>  
**Sent:** Thursday, October 26, 2023 9:13 AM  
**To:** Drew MacDermott <[dmacdermott@horizonsengineering.com](mailto:dmacdermott@horizonsengineering.com)>  
**Subject:** RE: R&C #11834 - Reduced Project Area

Hi Drew,

According to David's notes, there were archaeological concerns with this project due to the cellar hole on the property. Can you confirm that the two remaining items in the project scope would not impact the area of the cellar hole or other historic features such as stonewalls?

Best,



REVIEW & COMPLIANCE ARCHAEOLOGIST  
NH DIVISION OF HISTORICAL RESOURCES  
NH DEPT OF NATURAL & CULTURAL RESOURCES  
172 PEMBROKE ROAD, CONCORD, NH 03301  
[marika.s.labash@dnrcr.nh.gov](mailto:marika.s.labash@dnrcr.nh.gov)

**From:** Drew MacDermott <[dmacdermott@horizonsengineering.com](mailto:dmacdermott@horizonsengineering.com)>

**Sent:** Wednesday, October 25, 2023 3:42 PM

**To:** Labash, Marika <[Marika.S.Labash@dncr.nh.gov](mailto:Marika.S.Labash@dncr.nh.gov)>

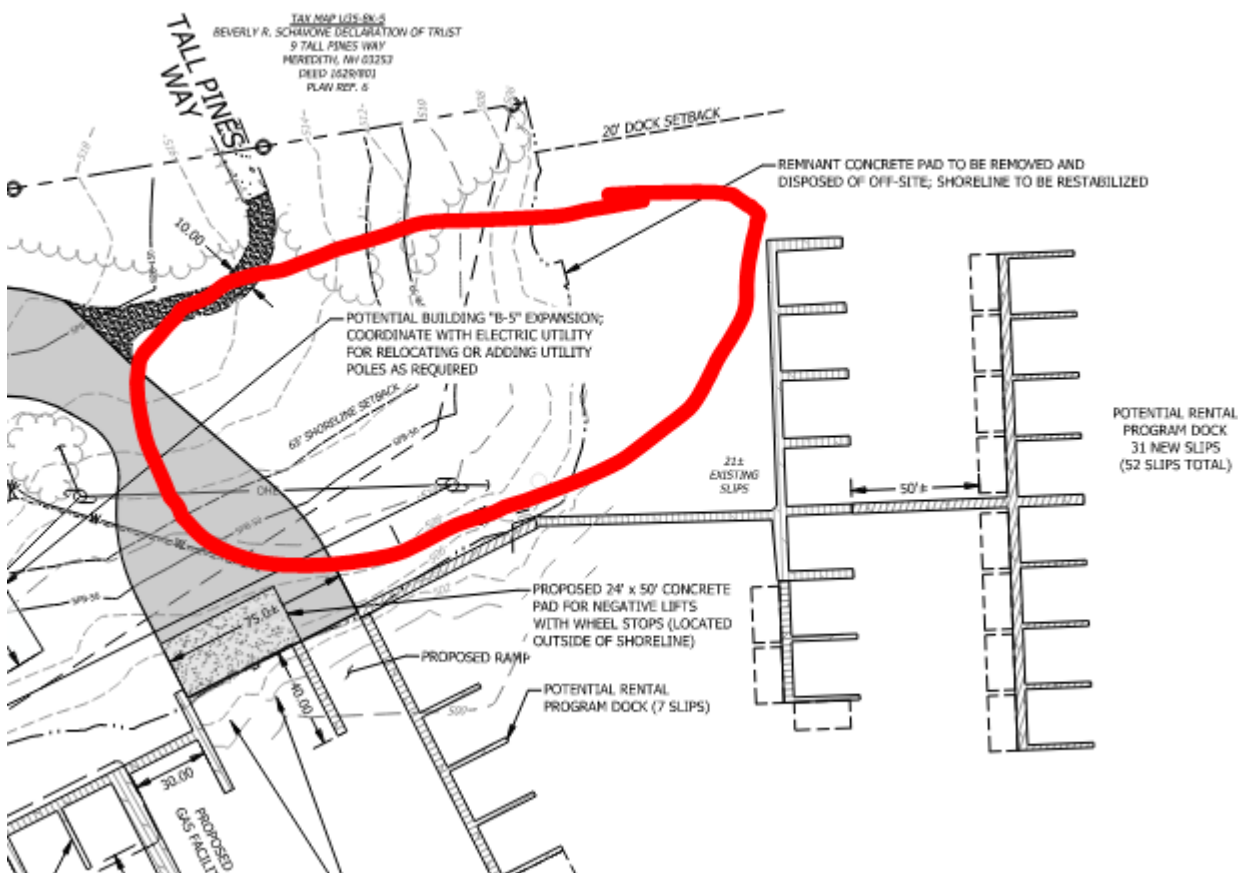
**Subject:** R&C #11834 - Reduced Project Area

**EXTERNAL:** Do not open attachments or click on links unless you recognize and trust the sender.

Hi Marika,

I left a voicemail and am following up here with additional details. The project referenced in R&C #11834 (circa 2020) has come back to life and we understand there may still be an outstanding RFMI. We are now looking at a reduced project area for only a reconstructed boat launch and new dug-in basin (negative lift) – see image below, approximate area circled in red. Would it be possible to narrow this RFMI scope to the boat launch and negative lift only? If not, should we plan to submit a new DHR RPR?

Also, for your reference we are attaching the latest concept plan for the boat launch and negative lift.



# **SECTION 3**

## **Design Plans**

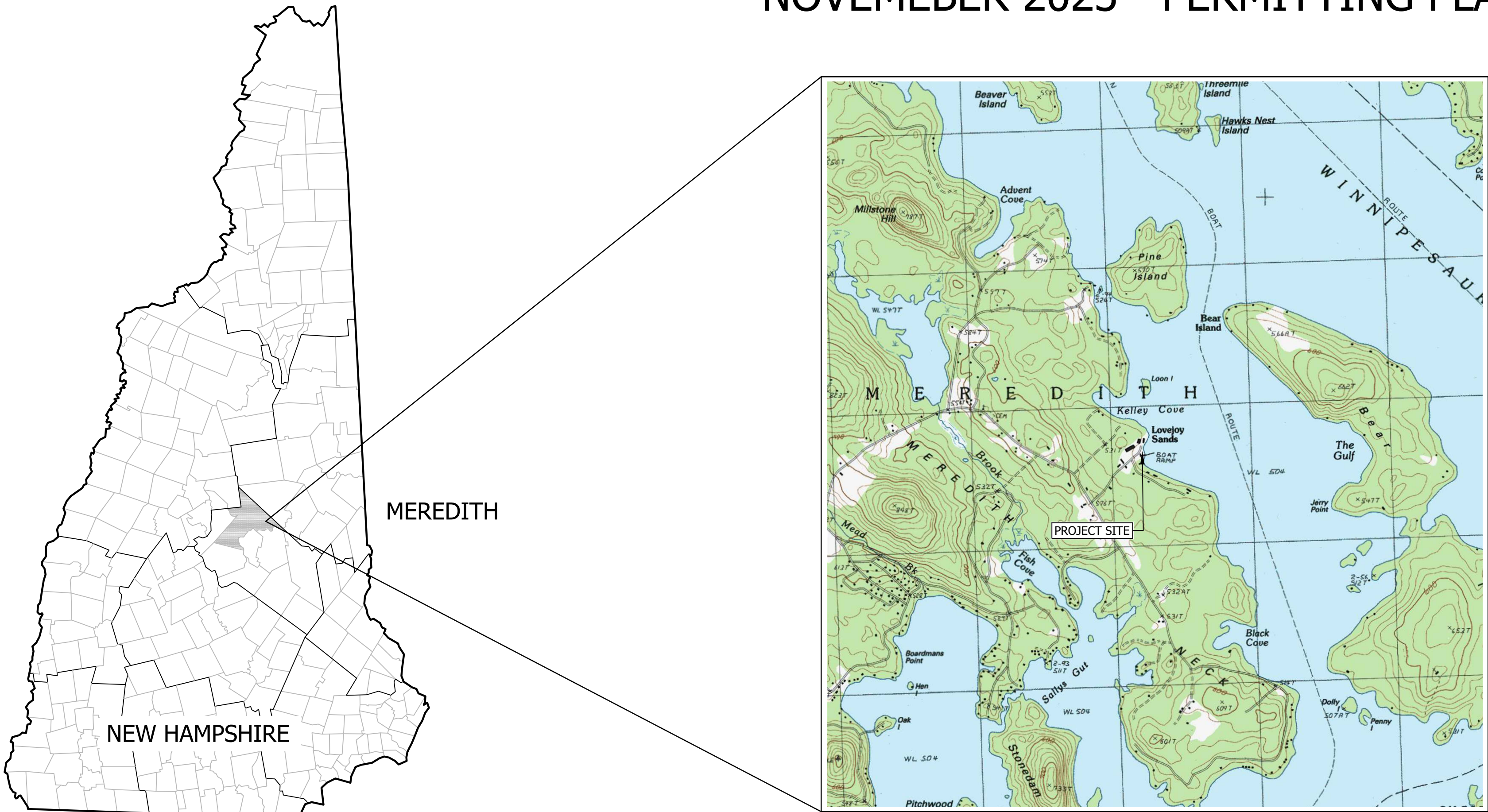
(Bound Separately)



# GOODHUE MEREDITH REAL PROPERTY, LLC

## 31 LOVEJOY SANDS ROAD - COMMERCIAL BOAT LAUNCH AND NEGATIVE LIFT IMPROVEMENTS

MEREDITH, NEW HAMPSHIRE  
TAX MAP U35 LOTS 8A & 11  
ZONING DISTRICT - SHORELINE "S"  
NOVEMEBER 2023 - PERMITTING PLANS



### LOCATION PLAN

SCALE: 1" = 2000'

#### CIVIL SHEET LIST:

	COVER
C1.0	OVERVIEW, GENERAL NOTES AND LEGEND
C1.1-1.2	EXISTING CONDITIONS PLAN
C2.0	SITE PLAN NOTES AND LOCAL & STATE TABLES
C2.1	PROPOSED COMMERCIAL BOAT RAMP & NEGATIVE LIFT PLAN & PROFILE
C2.2	DOCKING RECONFIGURATION PLAN
C3.1	EROSION CONTROL NOTES AND DETAILS
C3.2	BOAT RAMP DETAILS
C3.3	CONSTRUCTION DETAILS

#### SEE ALSO BY AMES ASSOCIATES

- BOUNDARY PLAN (AS RECORDED IN BELKNAP COUNTY REGISTRY OF DEEDS)
- CERTIFIED TOPOGRAPHICAL AND WETLAND DELINEATION PLAN

**CLIENT & OWNER:**  
GOODHUE MEREDITH REAL  
PROPERTY, LLC  
31 LOVEJOY SANDS ROAD  
MEREDITH, NH 03253  
(603) 279-4573

**ENGINEER:**  
**horizons**  
*Engineering*  
176 NEWPORT ROAD  
SUITE 8  
NEW LONDON, NH 03766  
(603) 877-0116

**FUNCTIONAL ASSESSMENT  
CONSULTANT:**  
AMBIT ENGINEERING, INC.  
200 GRIFFIN, UNIT 3  
PORTSMOUTH, NH 03801

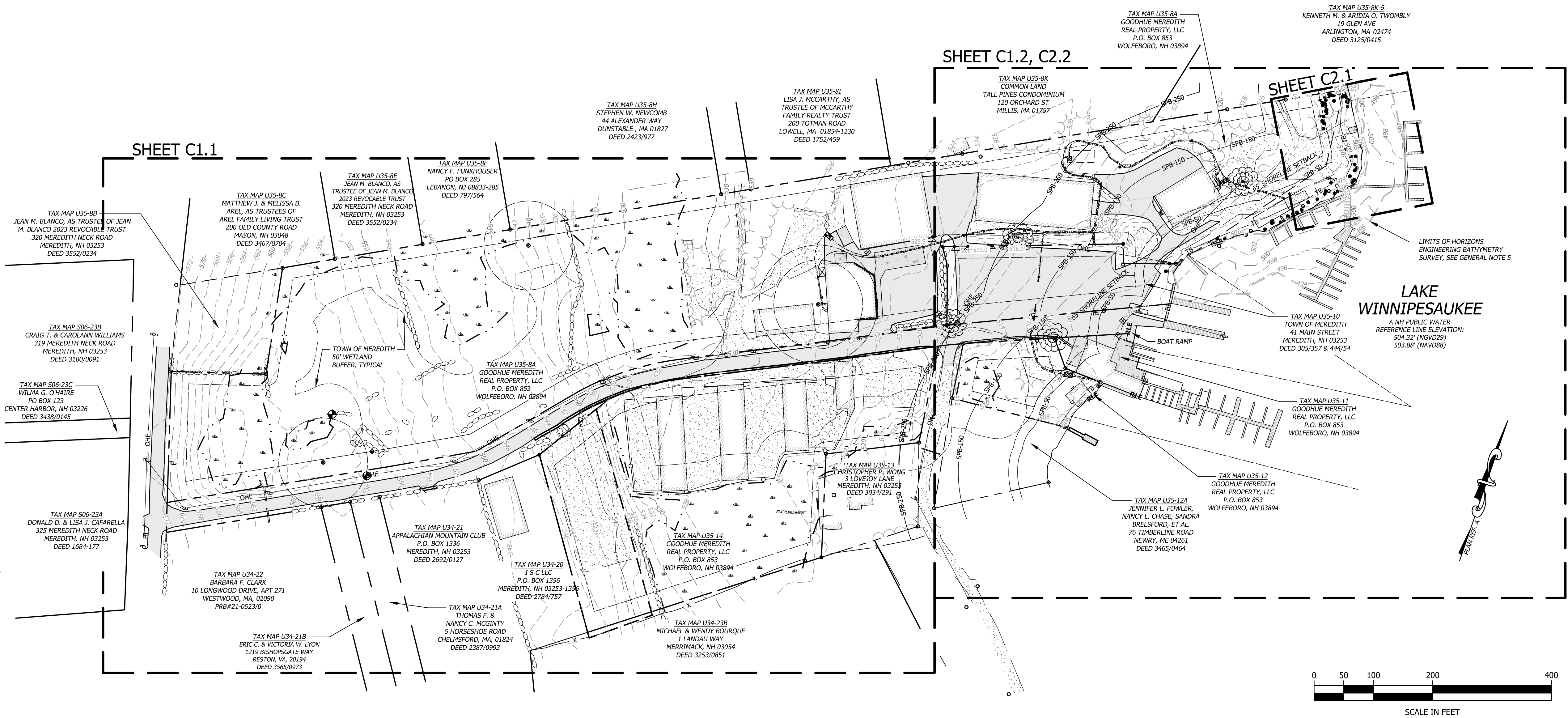
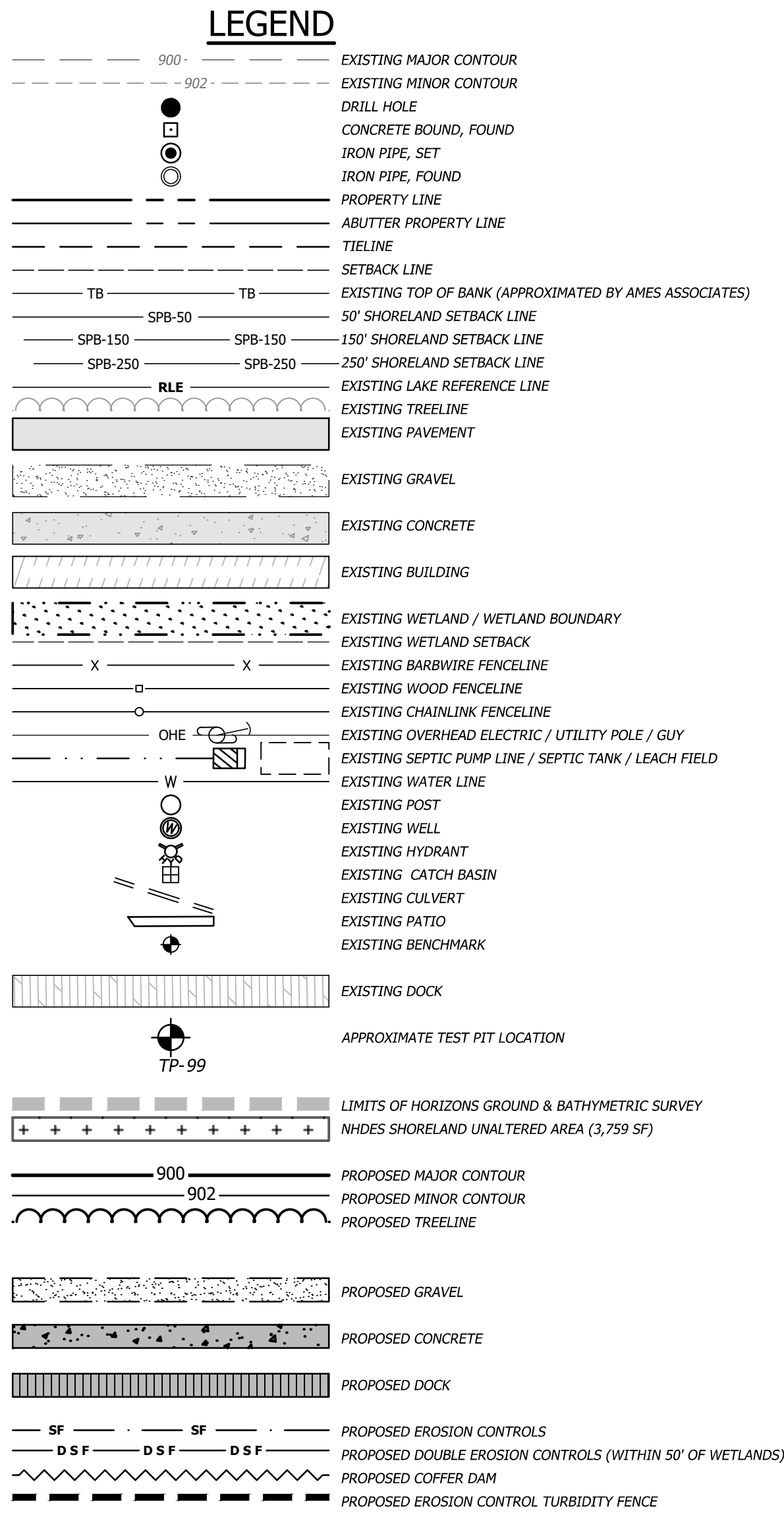
**SURVEYOR &  
WETLAND SCIENTIST:**  
AMES ASSOCIATES  
164 NH Route 25  
MEREDITH, NH 03253  
(603) 279-5705

**SOIL SCIENTIST:**  
GOVE ENVIRONMENTAL  
SERVICES, INC.  
8 CONTINENTAL DRIVE  
BLDG 2, UNIT H  
EXETER, NH 03833  
(603) 778-0644

**PERMIT APPROVALS**  
THIS PROJECT SHALL COMPLY WITH ALL CONDITIONS OF ALL PERMITS FOR THE  
PROJECT. OWNER SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO  
CONSTRUCTION. COPIES OF THESE PERMITS MAY BE REQUESTED FROM THE  
HORIZONS ENGINEERING NEW LONDON OFFICE.

NHDES	
WETLANDS PERMIT - MINOR IMPACT	PENDING
SHORELAND IMPACT	PENDING
TOWN OF MEREDITH	TO BE COORDINATED





## GENERAL NOTES

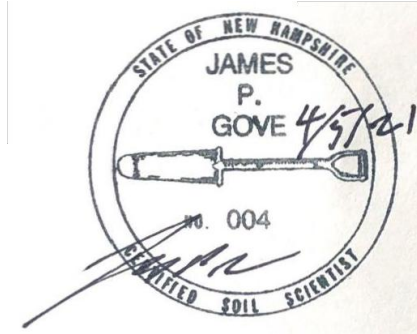
- OWNER OF RECORD:  
GOODHUE MEREDITH REAL PROPERTY, LLC  
PO BOX 853  
WOLFEBORO, NH 03894
- RECORDS DEED(S):  
(A) DEED BOOK 3123 PAGE 110 RECORDED IN THE BELKNAP COUNTY REGISTRY OF DEEDS PLAN BOOK L78 PAGE 65, PAGE 1 OF 1.
- PLAN REFERENCE(S):  
(A) "BOUNDARY SURVEY LAND OF DEEPWATER MARINE MANAGEMENT, INC. - TAX MAP U35, LOST 8A, 11, 12 & 14" PREPARED BY AMES ASSOCIATES DATED JULY 25, 2017 (AMES PROJECT NO. "DEEPWATER MARINE U35-8A"), RECORDED IN THE BELKNAP COUNTY REGISTRY OF DEEDS PLAN BOOK L78 PAGE 65, PAGE 1 OF 1.  
(B) "TOPOGRAPHICAL & WETLAND DELINEATION PLAN - LAND OF GOODHUE & HAWKINS NAVY YARD - TAX MAP U35, LOST 8A, 11, 12 & 14" PREPARED BY AMES ASSOCIATES DATED JULY 19, 2018 (AMES PROJECT NO. "GOODHUE & HAWKINS U25-8A").  
(C) A DRAFT PLAN (NOT RECORDED) TITLED "BOUNDARY LINE ADJUSTMENT SURVEY, LAND OF GOODHUE MEREDITH REAL PROPERTY LLC - TAX MAP U35, LOT 8A & 11 & TOWN OF MEREDITH - TAX MAP U35, LOT 10" PREPARED BY AMES ASSOCIATES DATED NOVEMBER 16, 2022 (AMES PROJECT NO. "BLA GHNY & MEREDITH").
- BASE MAP INFORMATION INCLUDING BOUNDARY, TOPOGRAPHY AND WETLANDS ON THESE PLANS IS TAKEN FROM PLAN REFERENCE A, B AND C.
- TOPOGRAPHY SHOWN IN THE PUBLIC WATERS OF LAKE WINNIPESAUKEE IS BASED ON BATHYMETRY MEASUREMENTS TAKEN BY HORIZONS ENGINEERING, INC IN FEBRUARY 2021.
- THE WORD "CERTIFY" OR "CERTIFICATION" AS SHOWN AND USED HEREON MEANS COMPLIANCE WITH APPLICABLE LAND SURVEY LAWS AND RULES AND AN EXPRESSION OF PROFESSIONAL OPINION BASED ON THE FACTS OF THE SURVEY, PRINCIPLES OF BOUNDARY RETRACEMENT AND LOCAL STANDARD OF CARE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EXPRESSED OR IMPLIED.

- THE SUBJECT PROPERTY IS MAPPED AS BEING WITHIN THE TOWN OF MEREDITH SHORELINE ZONING DISTRICT.

### MINIMUM STANDARDS FOR SHORELINE DISTRICT:

LOT SIZE: 40,000 SQUARE FEET  
WIDTH: 150 FEET  
FRONT SETBACK: 65 FEET FROM SHORELINE  
HIGHWAY SETBACK: 30 FEET FROM PROPERTY LINE  
SIDE SETBACK: 20 FEET  
REAR SETBACK: 30 FEET FROM PROPERTY LINE  
MAX. HEIGHT: 38 FEET  
MAX. COVERAGE: 30%

- THE SITE SPECIFIC SOIL SURVEY WAS PRODUCED 23 JUNE, 2020, AND WAS PREPARED BY JAMES P. GOVE, CSS # 004, GOVE ENVIRONMENTAL SERVICES, INC. THE SURVEY AREA IS LOCATED ON LOVEJOY SANDS, MEREDITH, NH. THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, INTENDED FOR INFILTRATION REQUIREMENTS BY THE NH DES ALTERATION OF TERRAIN BUREAU. IT WAS PRODUCED BY A PROFESSIONAL SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE. THERE IS A REPORT THAT ACCOMPANIES THIS MAP. SOILS WERE IDENTIFIED WITH THE NEW HAMPSHIRE STATE-WIDE NUMERICAL SOILS LEGEND, USDA NRCS, DURHAM, NH. ISSUE # 10, JANUARY 2011 HYDROLOGIC SOIL GROUP FROM KSAT VALUES FOR NEW HAMPSHIRE SOILS, SOCIETY OF SOIL SCIENTISTS OF NEW ENGLAND, SPECIAL PUBLICATION NO. 5, SEPTEMBER, 2009.
- UTILITY LOCATIONS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR LOCATION AND PROTECTION OF EXISTING UTILITIES AND SHALL REPAIR ANY DAMAGE AS QUICKLY AS POSSIBLE AT HIS OWN EXPENSE. ALL UTILITIES ENCOUNTERED SHALL BE LOCATED BY DEPTH AND TIES AND SHOWN BY THE CONTRACTOR ON HIS "AS BUILT" DRAWINGS. HAND EXCAVATION SHALL BE DONE WHEREVER UNDERGROUND UTILITIES ARE SHOWN OR ANTICIPATED. THE CONTRACTOR SHALL CONTACT DIG SAFE AND THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION IN ORDER TO VERIFY EXISTING CONDITIONS AND UTILITY LOCATIONS.
- HORIZONS ENGINEERING DID NOT PERFORM TEST PIT NUMBER 9 IN JUNE 2021 AND IS NOT SHOWN ON THESE PLANS.



DATE OF PRINT  
NOVEMBER 13 2023  
HORIZONS ENGINEERING

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Engineering  
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**horizons**  
*Engineering*  
Civil and Structural Engineering  
Land Surveying and Environmental Consulting  
MAINE • NEW HAMPSHIRE • VERMONT  
www.horizonsengineering.com

**GOODHUE MEREDITH, LLC**

31 LOVEJOY SANDS ROAD  
COMMERCIAL BOAT LAUNCH AND  
NEGATIVE LIFT IMPROVEMENTS

MEREDITH, NEW HAMPSHIRE  
TAX MAP U35 LOTS 8A & 11SHORELINE "S" DISTRICT

### OVERVIEW PLAN

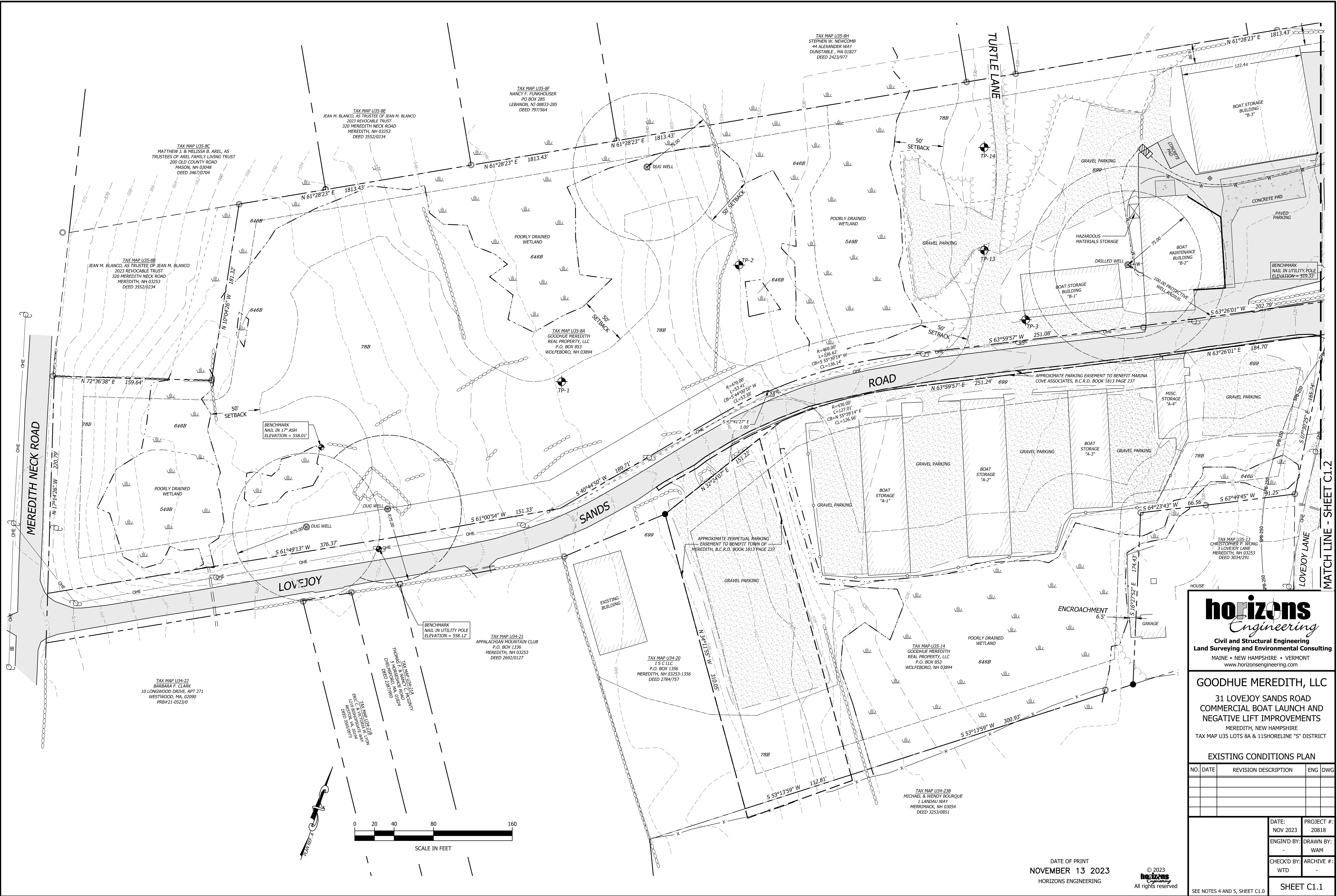
NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE:	PROJECT #:
NOV 2023	20818
ENG'D BY:	DRAWN BY:
-	WAM
CHECK'D BY:	ARCHIVE #:
WTD	-

SEE NOTES 4 AND 5, SHEET C1.0

SHEET C1.0





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NEGATIVE LIFT IMPROVEMENTS  
MEREDITH, NEW HAMPSHIRE  
TAX MAP U35 LOTS 8A & 11SHORELINE "S" DISTRICT

EXISTING CONDITIONS PLAN

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE: NOV 2023	PROJECT #: 20818
ENG'D BY: -	DRAWN BY: WAM
CHECK'D BY: WTD	ARCHIVE #: -

SEE NOTES 4 AND 5, SHEET C1.0

SHEET C1.1

DATE OF PRINT  
NOVEMBER 13 2023  
HORIZONS ENGINEERING

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SITE PLAN NOTES

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS. PRIOR TO CONSTRUCTION, OWNER SHALL OBTAIN ALL LOCATE, STATE AND FEDERAL PERMITS AS APPLICABLE TO THE PROJECT.
- PROJECT IMPACTS ARE SUCH THAT NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) SHORELAND AND WETLAND PERMITS ARE REQUIRED. JURISDICTIONAL IMPACTS SHOWN HAVE BEEN CALCULATED BASED ON THE APPARENT TOP OF BANK. SEE ALSO SHEET C1.0, GENERAL NOTE 4.
2. NO EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
3. ALL WORK SHALL BE PERFORMED WITHIN THE PROPERTY OF, AND EASEMENTS SECURED BY, THE OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DATA COLLECTION AND PREPARATION OF RECORD DRAWINGS.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTROLLING EROSION IN ALL AREAS DISTURBED BY HIS ACTIONS. COSTS FOR REQUIRED EROSION CONTROL, REGARDLESS OF WHETHER OR NOT SUCH MEASURES ARE SHOWN ON THE ENGINEERING DRAWINGS, SHALL BE BORNE BY HIM.
6. UTILITY LOCATIONS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR LOCATION AND PROTECTION OF EXISTING UTILITIES AND SHALL REPAIR ANY DAMAGE AS QUICKLY AS POSSIBLE AT HIS OWN EXPENSE. ALL UTILITIES ENCOUNTERED SHALL BE LOCATED BY DEPTH AND TIES AND SHOWN BY THE CONTRACTOR ON HIS "AS BUILT" DRAWINGS. HAND EXCAVATION SHALL BE DONE WHEREVER UNDERGROUND UTILITIES ARE SHOWN OR ANTICIPATED. THE CONTRACTOR SHALL CONTACT DIG SAFE AND THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION IN ORDER TO VERIFY EXISTING CONDITIONS AND UTILITY LOCATIONS.

NHDES TREE COUNT SUMMARY PRE-CONSTRUCTION					
CELL SEGMENT	1" to 3"	>3" to 6"	>6" to 12"	>12"	POINT TOTALS
	1 pt each	5 pts each	10 pts each	15 pts each	
A	15	5	3	2	100
B	4	1	3	0	39
C	0	0	2	0	20
D	0	0	0	0	0
E	0	1	2	4	85
F	0	0	2	2	50
G	0	6	3	1	75
H	0	2	0	1	25
I	0	1	0	1	20
J	0	1	2	1	40
K	0	0	2	1	35
L	0	6	1	0	40
M	0	6	0	0	30
N	0	5	0	0	25
O	0	0	2	0	20
P	0	0	2	0	20
Q	0	0	0	0	0
R	0	0	0	0	0
S	0	4	0	1	35

\*MINIMUM TREE SCORE OF AT LEAST 25 POINTS SHALL BE MAINTAINED FOR EACH 25'x50' SEGMENT.

NHDES TREE COUNT SUMMARY POST-CONSTRUCTION						
CELL SEGMENT	1" to 3"	>3" to 6"	>6" to 12"	>12"	POINT TOTALS	CHANGE IN POINTS
	1 pt each	5 pts each	10 pts each	15 pts each		
A	15	5	3	2	100	0
B	4	1	3	0	39	0
C	0	0	2	0	20	0
D	0	0	0	0	0	0
E	0	1	2	0	25	-60
F	0	0	2	2	50	0
G	0	6	3	1	75	0
H	0	2	0	1	25	0
I	0	1	0	1	20	0
J	0	1	2	1	40	0
K	0	0	2	1	35	0
L	0	6	1	0	40	0
M	0	6	0	0	30	0
N	0	5	0	0	25	0
O	0	0	2	0	20	0
P	0	0	2	0	20	0
Q	0	0	0	0	0	0
R	0	0	0	0	0	0
S	0	4	0	1	35	0

\*MINIMUM TREE SCORE OF AT LEAST 25 POINTS SHALL BE MAINTAINED FOR EACH 25'x50' SEGMENT.

NHDES UNALTERED STATE CALCULATION - LOT 8A	
CALCULATION	AREA (SF)
TOTAL UNALTERED AREA 50' TO 150' BUFFER	3,759
TOTAL LOT AREA 50' TO 150' BUFFER	44,789
25% OF TOTAL LOT AREA 50' TO 150' BUFFER	11,197
MINIMUM AREA TO REMAIN UNALTERED	3,759

NHDES UNALTERED STATE CALCULATION - LOT 8A	
CALCULATION	AREA (SF)
TOTAL UNALTERED AREA 50' TO 150' BUFFER	3,759
TOTAL LOT AREA 50' TO 150' BUFFER	44,789
25% OF TOTAL LOT AREA 50' TO 150' BUFFER	11,197
MINIMUM AREA TO REMAIN UNALTERED	3,759
POST-CONSTRUCTION UNALTERED AREA	3,759

PRE-CONSTRUCTION IMPERVIOUS AREA - LOT 8A	
STRUCTURE	AREA (SF)
PRIMARY STRUCTURES	14,062
ACCESSORY STRUCTURES	0
DRIVEWAYS	41,480
WALKWAYS, RETAINING WALLS, CONCRETE PADS	29
TOTAL IMPERVIOUS W/IN 250' BUFFER	55,571
TOTAL LOT AREA W/IN 250' BUFFER	99,421
PRE-CONSTRUCTION % COVERAGE	55.9%
TOTAL IMPERVIOUS W/IN 50' BUFFER	11,114

NOTE: AREAS CALCULATED ABOVE TOP OF BANK WETLAND JURISDICTION, PER 1406.02(b)(2).

POST-CONSTRUCTION IMPERVIOUS AREA - LOT 8A	
STRUCTURE	AREA (SF)
PRIMARY STRUCTURES	14,062
ACCESSORY STRUCTURES	0
DRIVEWAYS	41,446
WALKWAYS, RETAINING WALLS, CONCRETE PADS	53
TOTAL IMPERVIOUS W/IN 250' BUFFER	55,561
TOTAL LOT AREA W/IN 250' BUFFER	99,421
POST-CONSTRUCTION % COVERAGE	55.9%
TOTAL IMPERVIOUS W/IN 50' BUFFER	11,384

NOTE: AREAS CALCULATED ABOVE TOP OF BANK WETLAND JURISDICTION, PER 1406.02(b)(2).

horizonsEngineering

Civil and Structural Engineering  
Land Surveying and Environmental Consulting

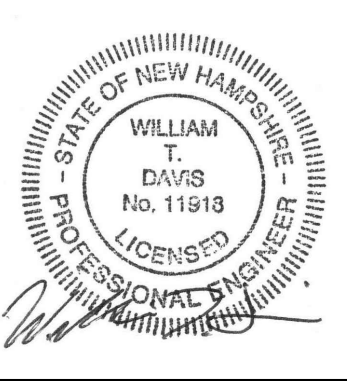
MAINE • NEW HAMPSHIRE • VERMONT  
www.horizonsengineering.com

GOODHUE MEREDITH, LLC

31 LOVEJOY SANDS ROAD  
SITE IMPROVEMENTS  
MEREDITH, NEW HAMPSHIRE  
TAX MAP U35 LOTS 8A & 11  
ZONING DISTRICT - SHORELINE "S"

SITE PLAN NOTES AND  
LOCAL AND STATE TABLES

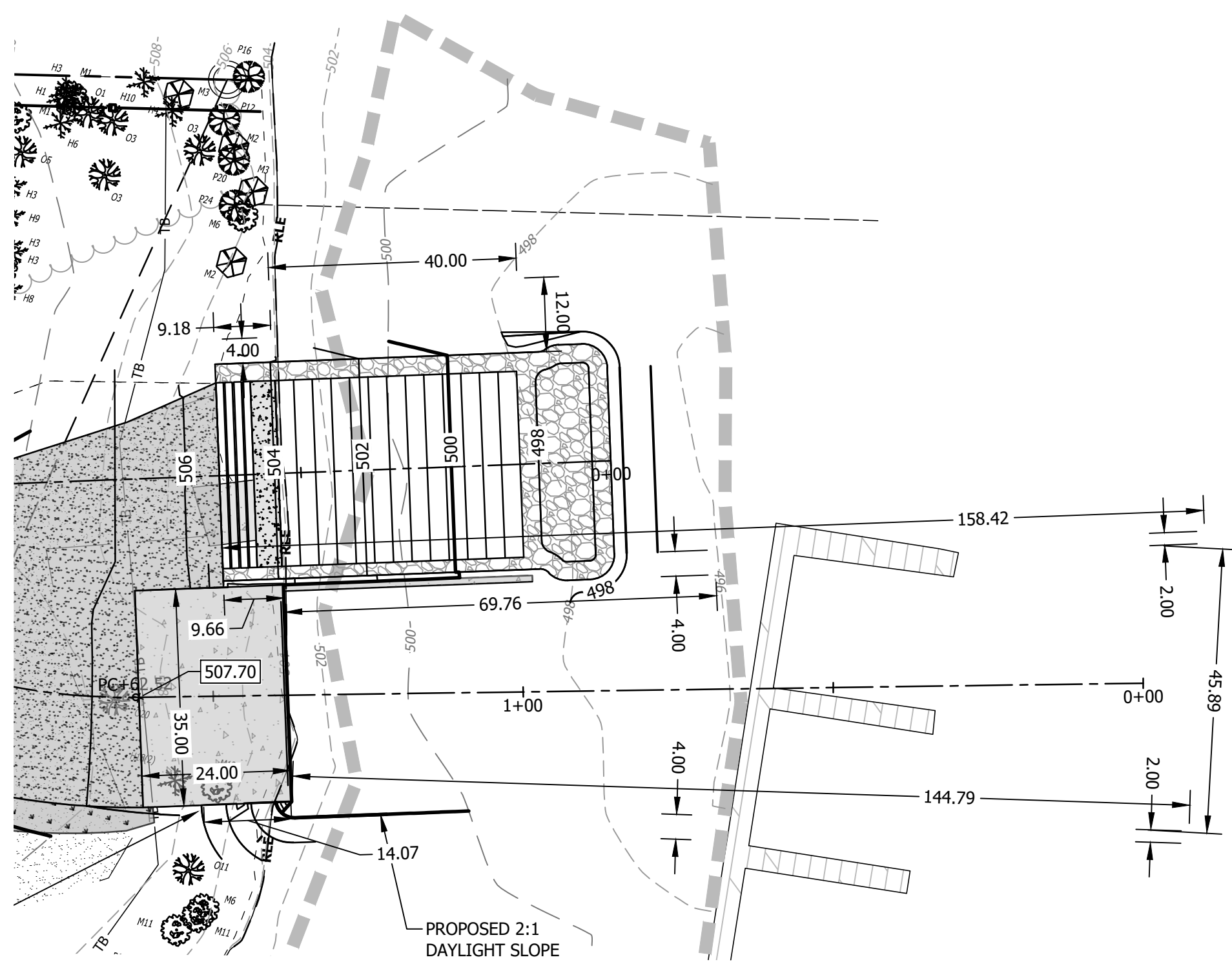
NO.	DATE	REVISION DESCRIPTION	ENG	DWG



DATE: NOV 2023  
PROJECT #: 20818  
ENGIN'D BY: -  
DRAWN BY: WAM  
CHECK'D BY: WTD  
ARCHIVE #: H-5620

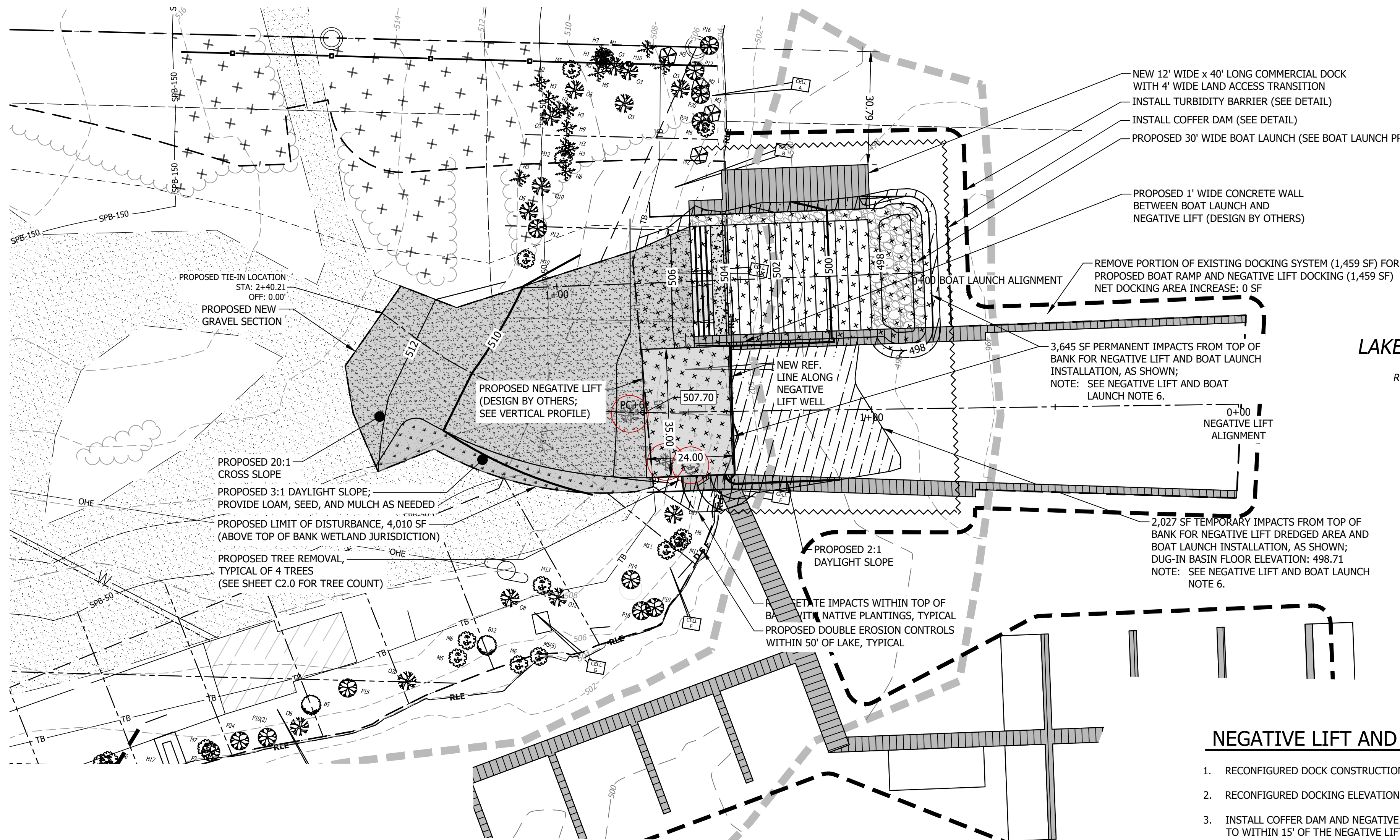
SHEET C2.0





RECONFIGURED DOCK DIMENSIONS

SCALE: 1" = 20'



## LAKE WINNIPESAUKEE

A NH PUBLIC WATER  
REFERENCE LINE ELEVATION:  
504.32 (NGVD29)  
503.88 (NAVD88)

### SITE PLAN REVIEW PLAN

SHEET 1 OF 2

APPROVED

PLANNING BOARD

Meredith, New Hampshire

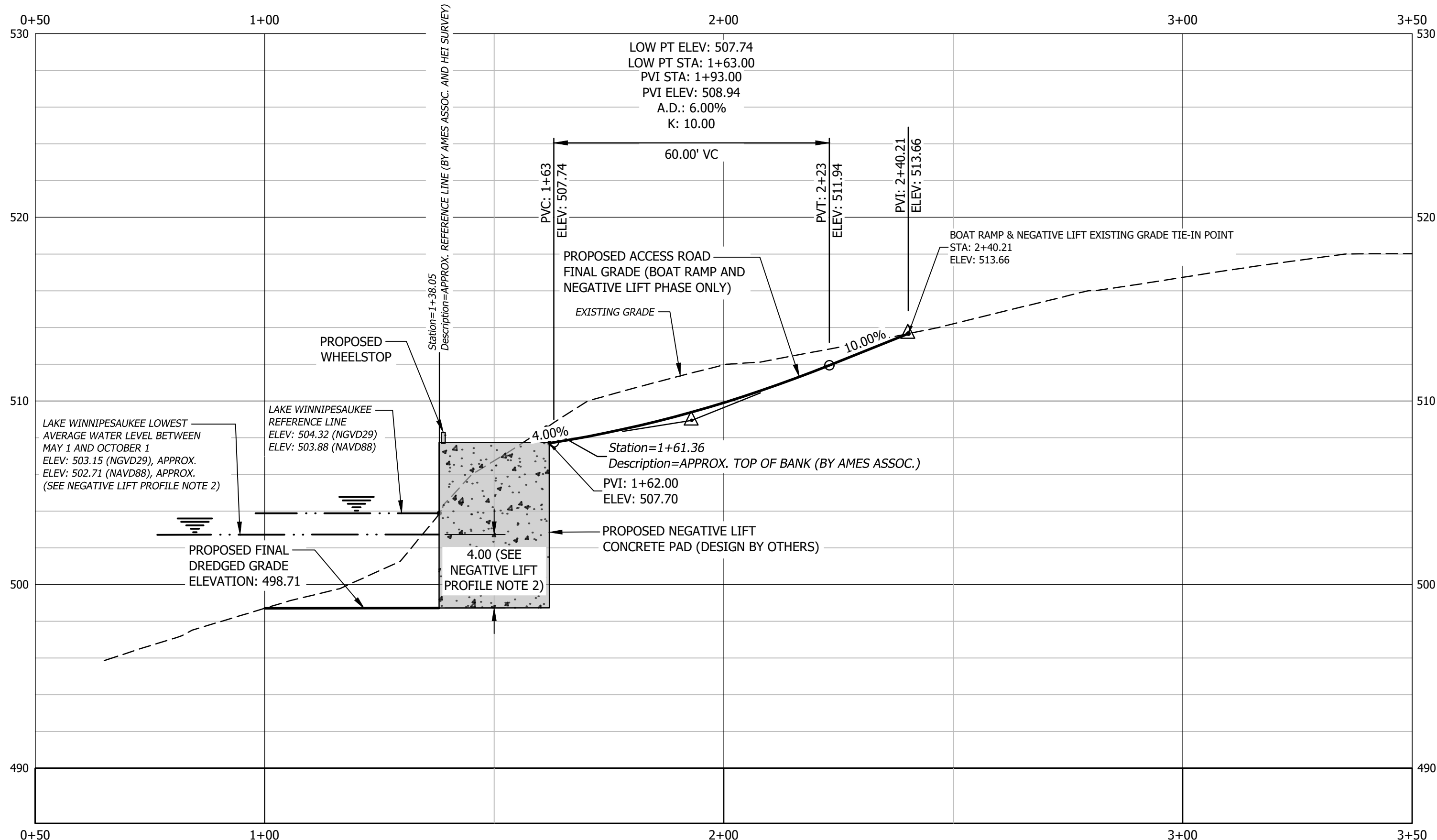
DATE: CHAIRMAN: SECRETARY:

THE SITE PLAN REVIEW REGULATIONS OF THE TOWN OF MEREDITH, NEW HAMPSHIRE ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SUBDIVISION REGULATIONS, EXCEPTING ONLY ANY VARIANCES OR MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

### NEGATIVE LIFT AND BOAT LAUNCH NOTES

- RECONFIGURED DOCK CONSTRUCTION WILL BE WOOD PILE AND CRIB.
- RECONFIGURED DOCKING ELEVATION SHALL BE SET AT 505.82.
- INSTALL COFFER DAM AND NEGATIVE LIFT FIRST, RESTRICTING CONSTRUCTION IMPACTS TO WITHIN 15' OF THE NEGATIVE LIFT STRUCTURE.
- DREDGED MATERIAL SHALL BE DISPOSED OF OUTSIDE OF WETLAND AND SHORELAND JURISDICTIONAL AREAS. IF SUCH MATERIAL IS FOUND TO HAVE VISUAL OR OLFACTORY EVIDENCE OF CONTAMINATION SUCH MATERIAL SHALL BE MANAGED AND DISPOSED OF IN ACCORDANCE APPLICABLE STATE STATUTES.
- REMOVE TURBIDITY CURTAIN AND COFFER DAM ONCE WATER CLARITY HAS RETURNED TO BACKGROUND CLARITY
- CONSTRUCTION OF THE BOAT LAUNCH AND NEGATIVE LIFT REQUIRES A NET 22.0 CY CUT (110.3 CY CUT; 88.3 CY FILL) BELOW TOP OF BANK. THIS EQUATES TO 2,421 SF CUT AND 3,122 SF FILL IN PLAN VIEW.

FOR US A.C.O.E. AREA CALCULATIONS BELOW ORDINARY HIGH WATER MARK (REFERENCE LINE), THE PROJECT REQUIRES NET 34.7 CY CUT (95.3 CY CUT; 60.6 CY FILL). THIS EQUATES TO 1,698 SF CUT AND 2,015 SF FILL IN PLAN VIEW.

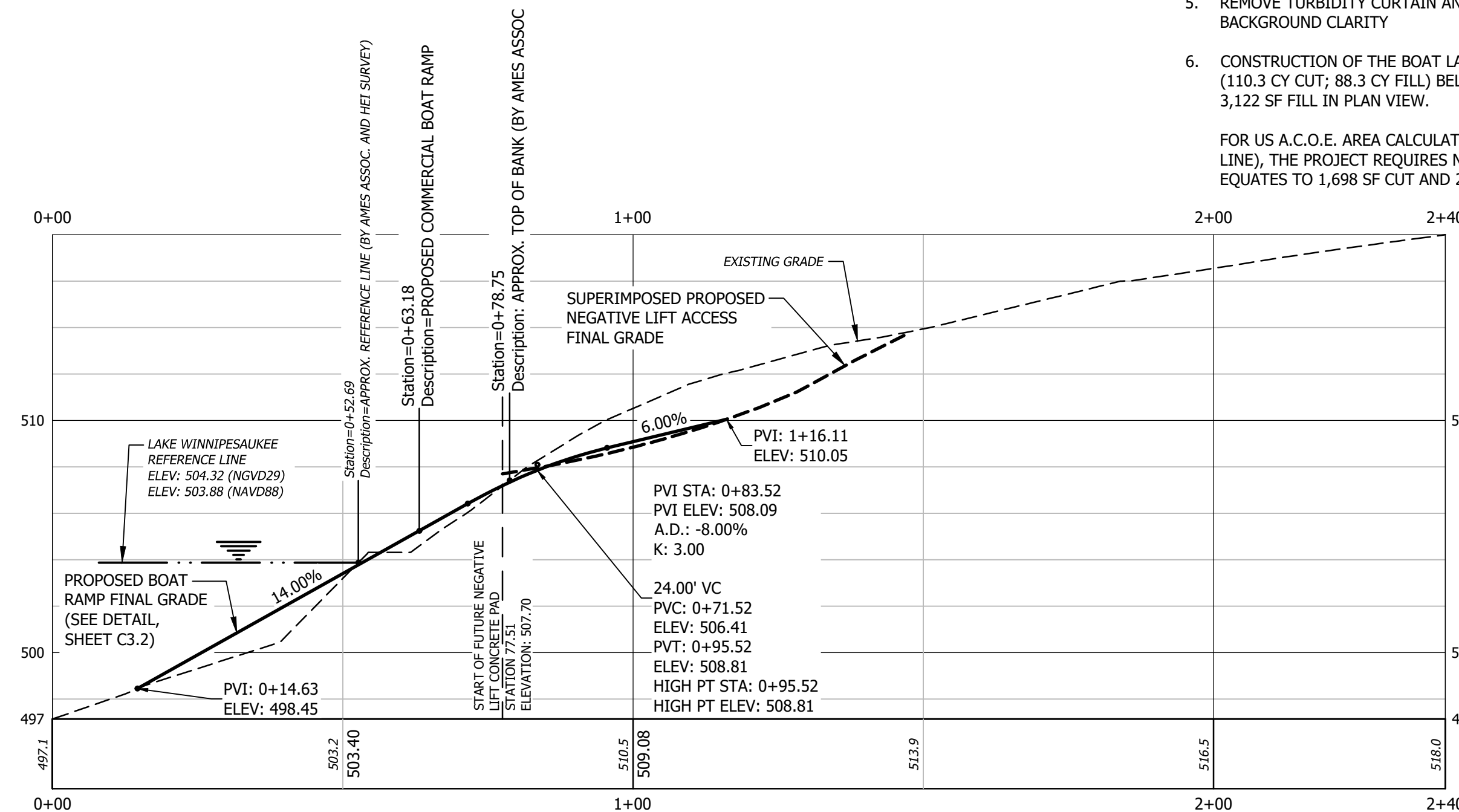


PROPOSED NEGATIVE LIFT ACCESS VERTICAL PROFILE

STA: 0+50 to STA: 3+50

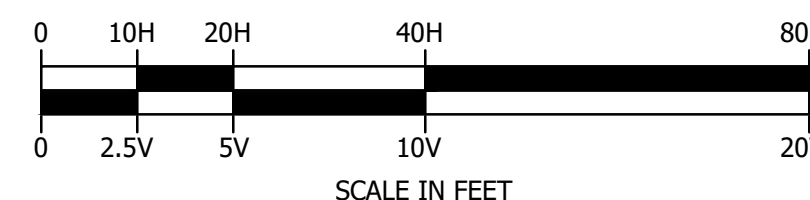
### NEGATIVE LIFT PROFILE NOTES

- ALL ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, OR AS OTHERWISE NOTED.
- THE LOWEST 1982-2021 AVERAGE WATER LEVEL ELEVATION SHOWN ON THESE PLANS BETWEEN MAY 1 AND OCTOBER 1 IS BASED ON THE NHDES "LAKE WINNIPESAUKEE LAKE LEVEL DATA", AS OF DECEMBER 31, 2022.



PROPOSED BOAT RAMP VERTICAL PROFILE

STA: 0+00 to STA: 2+40



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### GOODHUE MEREDITH, LLC

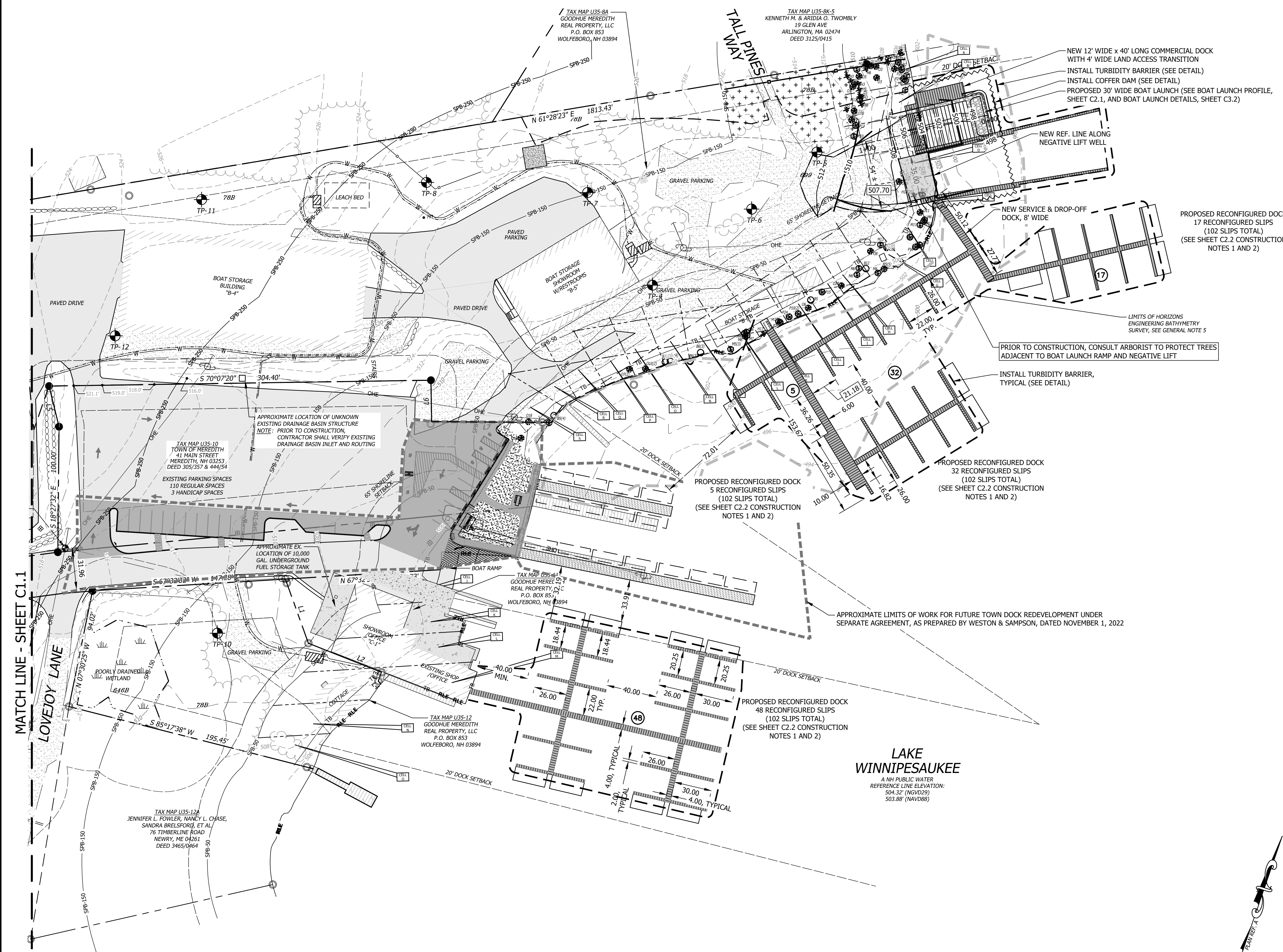
31 LOVEJOY SANDS ROAD  
COMMERCIAL BOAT LAUNCH AND  
NEGATIVE LIFT IMPROVEMENTS

MEREDITH, NEW HAMPSHIRE  
TAX MAP U35 LOTS 8A & 11 - SHORELINE "S" DISTRICT  
PROPOSED COMMERCIAL BOAT RAMP  
& NEGATIVE LIFT PLAN & PROFILE

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE: NOV 2023	PROJECT #: 20818
ENGINE'D BY: -	DRAWN BY: WAM
CHECK'D BY: WTD	ARCHIVE #: -
SHEET C2.1	





SHEET C2.2 CONSTRUCTION NOTES

- 1. RECONFIGURED DOCK CONSTRUCTION WILL BE WOOD PILE AND CRIB.
- 2. RECONFIGURED DOCKING ELEVATION SHALL BE SET AT 505.82.
- 3. PRIOR TO CONSTRUCTION, INSTALL TURBIDITY CURTAIN FOR ALL DOCK RECONFIGURATION AREAS. REMOVE TURBIDITY CURTAIN AND COFFER DAM ONCE WATER CLARITY HAS RETURNED TO BACKGROUND CLARITY.

RECONFIGURED DOCKING SUMMARY		
DESCRIPTION	EXISTING	PROPOSED
BOAT SLIPS	102	102*
RECONFIGURED DOCKING	8,801 SF	8,801 SF
NET BOAT SLIPS (+ / -)		0 SLIPS
NET DOCKING AREA (+ / -)		0 SF

\*PROPOSED PERMANENT BOAT SLIPS TOTAL DOES NOT INCLUDE GAS FACILITY, SERVICE & DROP-OFF, BOAT LAUNCH, OR NEGATIVE WELLS

SITE PLAN REVIEW PLAN  
SHEET 2 OF 2  
APPROVED  
PLANNING BOARD  
Meredith, New Hampshire

DATE: \_\_\_\_\_ CHAIRMAN: \_\_\_\_\_  
SECRETARY: \_\_\_\_\_

THE SITE PLAN REGULATIONS OF THE TOWN OF MEREDITH, NEW HAMPSHIRE ARE A PART OF THIS PLAN, AND APPROVAL OF THIS PLAN IS CONTINGENT UPON COMPLETION OF ALL REQUIREMENTS OF SAID SUBDIVISION REGULATIONS, EXCEPTING ONLY ANY VARIANCES OR MODIFICATIONS MADE IN WRITING BY THE BOARD AND ATTACHED HERETO.

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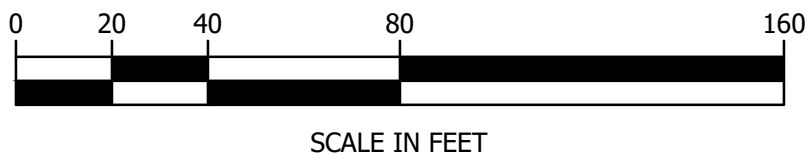
31 LOVEJOY SANDS ROAD  
SITE IMPROVEMENTS  
MEREDITH, NEW HAMPSHIRE  
TAX MAP U35 LOTS 8A & 11  
ZONING DISTRICT - SHORELINE "S"

DOCKING RECONFIGURATION PLAN		
NO.	DATE	REVISION DESCRIPTION

STATE OF NEW HAMPSHIRE  
WILLIAM T. DAVIS  
No. 11918  
LICENSED PROFESSIONAL ENGINEER

DATE: NOV 2023  
PROJECT #: 20818  
ENGINE'D BY: -  
DRAWN BY: WAM  
CHECK'D BY: WTD  
ARCHIVE #: H-5620

SHEET C2.2



FOR PERMITTING REVIEW  
NOT FOR CONSTRUCTION

DATE OF PRINT  
NOVEMBER 13 2023  
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## SEEDING RECOMMENDATIONS

### 1. GRADING AND SHAPING

A. SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

### 2. SEEDBED PREPARATION

A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.

B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE AMENDED WITH ORGANIC MATTER AND TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME THOROUGHLY INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

### 3. ESTABLISHING VEGETATION

A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:

-AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ. FT.  
-NITROGEN (N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ. FT.  
-PHOSPHATE (P<sub>2</sub>O<sub>5</sub>), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.  
-POTASH (K<sub>2</sub>O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.

(NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10).

B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.

#### C. SEEDING GUIDE:

USE	SEEDING MIXTURE (SEE 3D)	SOIL TYPE			
		DROUGHTY	WELL DRAINED	MOD. WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILL-WAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	GOOD	GOOD	GOOD	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNISED LANDS, AND LOW INTENSITY USE RECREATION SITES	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR

#### D. SEEDING RATES:

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A TALL FESCUE CREEPING RED FESCUE REDTOP	20	0.45
	20	0.45
	2	0.05
	42	0.95
TOTAL:		
B TALL FESCUE CREEPING RED FESCUE CROWN VETCH <b>OR</b> FLATPEA	15	0.35
	10	0.25
	<b>15 OR</b>	<b>0.35 OR</b>
	30	0.75
	<b>40 OR 55</b>	<b>0.95 OR 1.35</b>
TOTAL:		
C TALL FESCUE FLATPEA	20	0.45
	30	0.75
	50	1.20

E. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO SEPTEMBER 15. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.

#### F. TEMPORARY SEEDING RATES:

SPECIES	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.	REMARKS
WINTER RYE	112	2.5	BEST FOR FALL SEEDING. SEED FROM AUGUST TO SEPTEMBER 5TH FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	80	2.0	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15TH FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYEGRASS	40	1.0	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE NOT IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. COVER SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYEGRASS	30	0.7	GOOD COVER WHICH IS LONGER LASTING THAN ANNUAL RYEGRASS. SEED BETWEEN APRIL 1ST AND JUNE 1ST AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. MULCHING WILL ALLOW SEEDING THROUGHOUT THE GROWING SEASON. SEED TO A DEPTH OF APPROXIMATELY 0.5 INCH.

### 4. MULCH

A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.

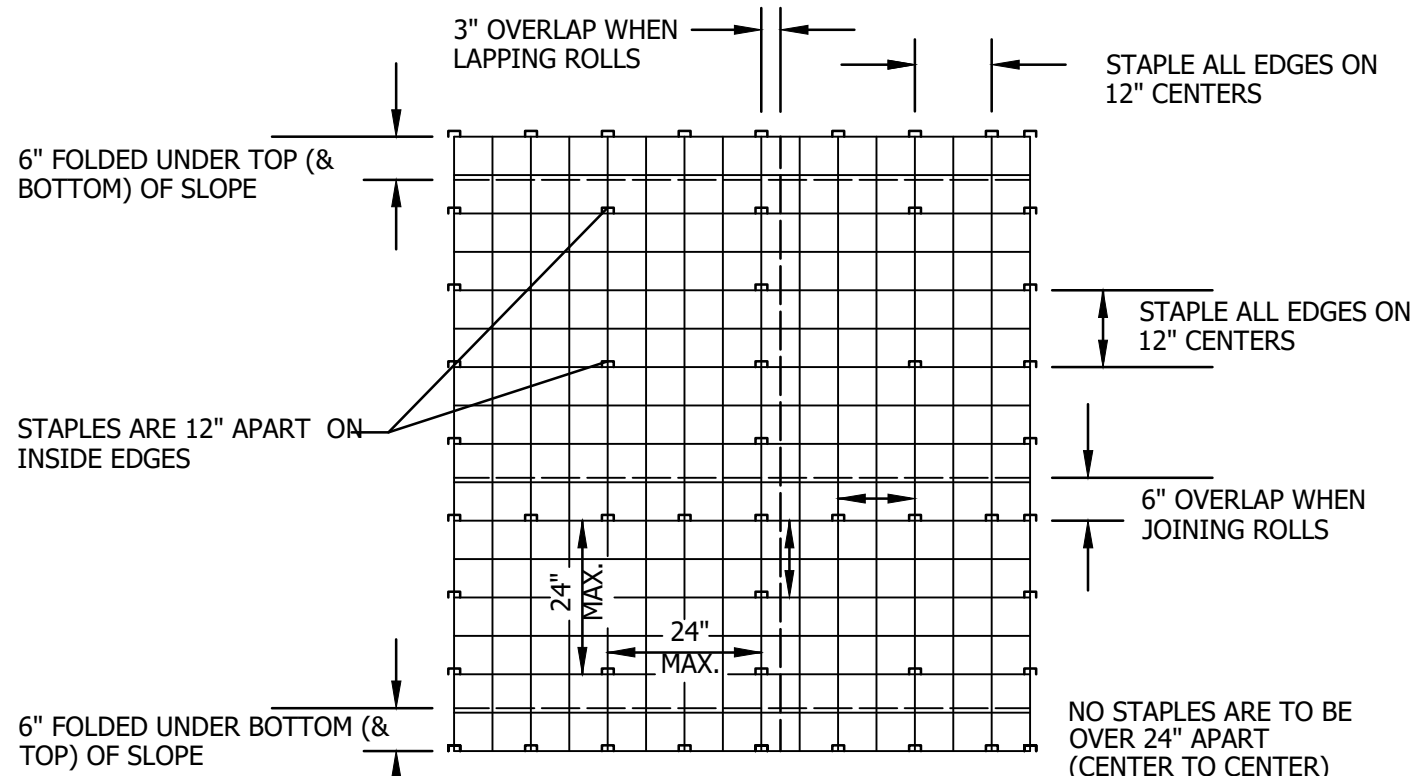
B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING.

### 5. MAINTENANCE TO ESTABLISH A STAND

A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEEED GROWTH.

B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ON SITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.

C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.



**MULCH NETTING DETAIL**  
SOURCE: USDA SOIL CONSERVATION SERVICE  
NO SCALE

## EROSION CONTROL GENERAL NOTES

### A. KEEP SITE MODIFICATION TO A MINIMUM

1. CONSIDER FITTING THE BUILDINGS AND STREETS TO THE NATURAL TOPOGRAPHY. THIS REDUCES THE NEED FOR CUTS AND FILLS. AVOID EXTENSIVE GRADING THAT WOULD ALTER DRAINAGE PATTERNS OR CREATE VERY STEEP SLOPES.

2. EXPOSE AREAS OF BARE SOIL TO EROSION ELEMENTS FOR THE SHORTEST TIME POSSIBLE.

3. SAVE AND PROTECT DESIRABLE EXISTING VEGETATION WHERE POSSIBLE. ERECT BARRIERS TO PREVENT DAMAGE FROM CONSTRUCTION EQUIPMENT.

4. LIMIT THE GRADES OF SLOPES SO VEGETATION CAN BE EASILY ESTABLISHED AND MAINTAINED.

5. AVOID SUBSTANTIAL INCREASE IN RUNOFF LEAVING THE SITE.

### B. MINIMIZE POLLUTION OF WATER DURING CONSTRUCTION ACTIVITIES

1. STOCKPILE TOPSOIL REMOVED FROM CONSTRUCTION AREA AND SPREAD OVER ANY DISTURBED AREAS PRIOR TO REVEGETATION. TOPSOIL STOCKPILES MUST BE PROTECTED FROM EROSION.

2. PROTECT BARE SOIL AREAS EXPOSED BY GRADING ACTIVITIES WITH TEMPORARY VEGETATION OR MULCHES.

3. USE SEDIMENT BASINS TO TRAP DEBRIS AND SEDIMENT WHICH WILL PREVENT THESE MATERIALS FROM MOVING OFF SITE.

4. USE DIVERSIONS TO DIRECT WATER AROUND THE CONSTRUCTION AREA AND AWAY FROM EROSION PRONE AREAS TO POINTS OF SAFE DISPOSAL.

5. USE TEMPORARY CULVERTS OR BRIDGES WHEN CROSSING STREAMS WITH EQUIPMENT.

6. PLACE CONSTRUCTION FACILITIES, MATERIALS, AND EQUIPMENT STORAGE AND MAINTENANCE AREAS AWAY FROM DRAINAGE WAYS.

### C. PROTECT AREA AFTER CONSTRUCTION.

1. ESTABLISH GRASS OR OTHER SUITABLE VEGETATION ON ALL DISTURBED AREAS. SELECT SPECIES ADAPTED TO THE SITE CONDITIONS AND THE FUTURE USE OF THE AREA. FINAL GRADES SHALL BE SEEDED WITHIN 72 HOURS. STABILIZATION SHALL BE DEFINED AS 85% VEGETATIVE COVER.

2. MAINTAIN VEGETATED AREAS USING PROPER VEGETATIVE 'BEST MANAGEMENT PRACTICES' DURING THE CONSTRUCTION PERIOD.

3. MAINTAIN NEEDED STRUCTURAL 'BEST MANAGEMENT PRACTICES' AND REMOVE SEDIMENT FROM DETENTION PONDS AND SEDIMENT BASINS AS NEEDED.

4. DETERMINE RESPONSIBILITY FOR LONG TERM MAINTENANCE OF PERMANENT 'BEST MANAGEMENT PRACTICES'.

5. IF CONSTRUCTION IS ANTICIPATED DURING WINTER MONTHS, REFER TO 'COLD WEATHER SITE STABILIZATION REQUIREMENTS'.

### D. INVASIVE SPECIES AND FUGITIVE DUST

1. THE PROJECT SHALL NOT CONTRIBUTE TO THE SPREAD OF INVASIVE SPECIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EVALUATE WORK AREAS FOR THE PRESENCE OF INVASIVE SPECIES, AND IF FOUND SHALL TAKE NECESSARY MEASURES TO PREVENT THEIR SPREAD IN ACCORDANCE WITH RSA 430:51-57 AND AGR 3800. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT THE INTRODUCTION OF INVASIVE SPECIES BY INSPECTING AND CLEANING ALL EQUIPMENT ARRIVING ON SITE.

2. FUGITIVE DUST SHALL BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000.

## CONSTRUCTION NOTES FOR SEDIMENT FENCE

1. INSTALL DOUBLE SEDIMENT FENCING IN ALL AREAS WITHIN 50' OF WETLANDS

2. WOVEN WIRE FENCE, IF REQUIRED, TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.

3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.

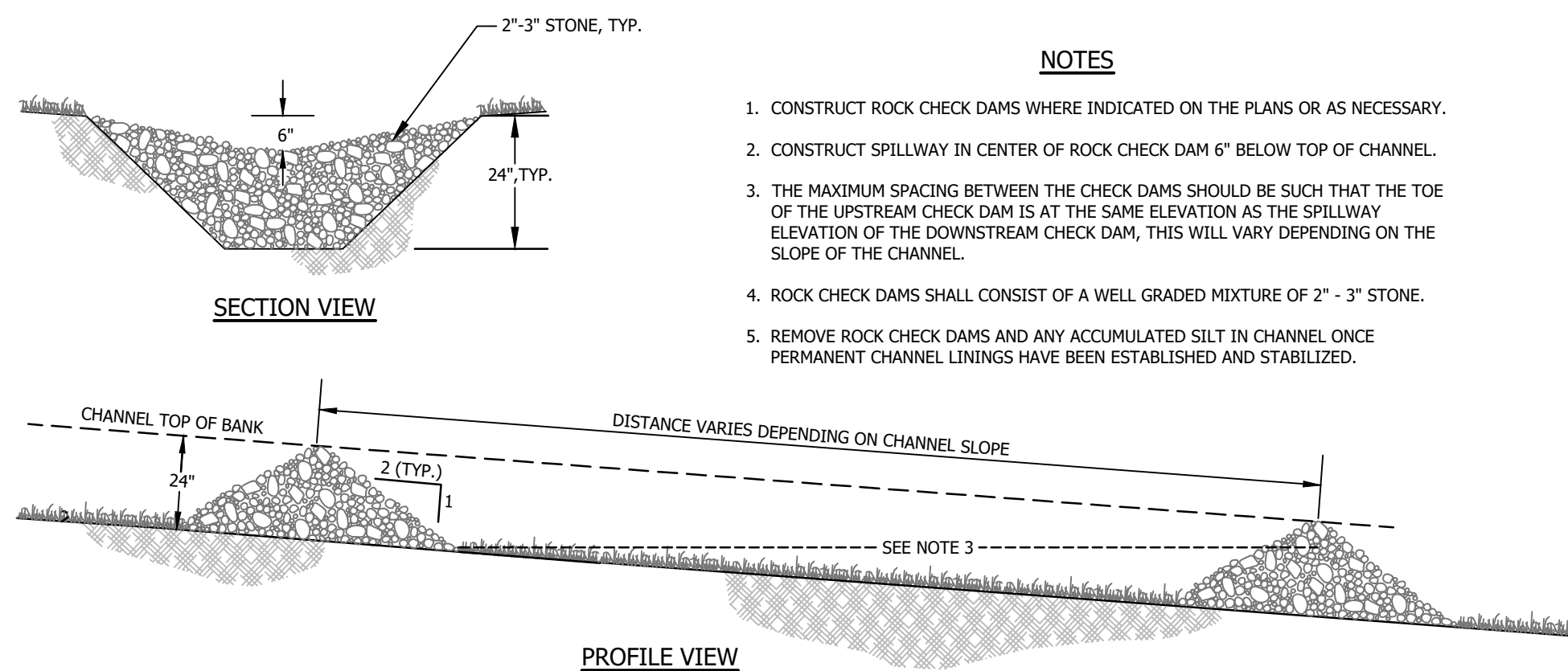
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.

5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SEDIMENT FENCE, OR 50% OF CAPACITY IS USED.

6. 12" DIAMETER FILTREXX SILT SOXX SHALL BE CONSIDERED AN ACCEPTABLE EQUAL TO SEDIMENT FENCE IF INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

## SEDIMENT FENCE

NO SCALE



### NOTES

1. CONSTRUCT ROCK CHECK DAMS WHERE INDICATED ON THE PLANS OR AS NECESSARY.

2. CONSTRUCT SPILLWAY IN CENTER OF ROCK CHECK DAM 6" BELOW TOP OF CHANNEL.

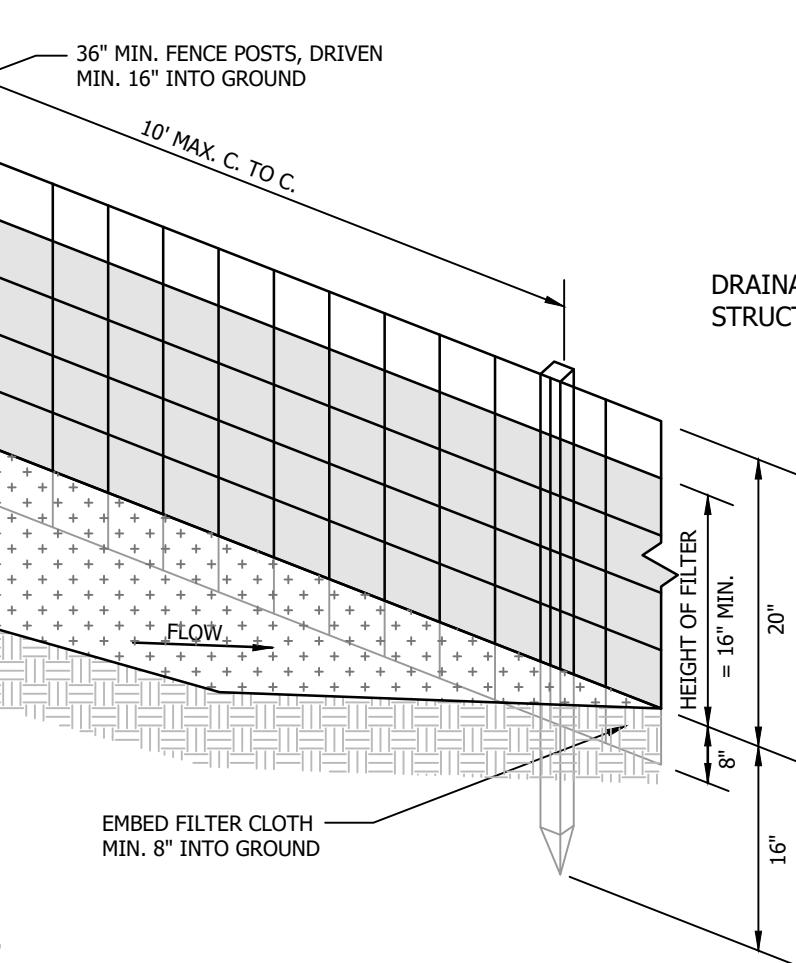
3. THE MAXIMUM SPACING BETWEEN THE CHECK DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK DAM IS AT THE SAME ELEVATION AS THE SPILLWAY ELEVATION OF THE DOWNSTREAM CHECK DAM, THIS WILL VARY DEPENDING ON THE SLOPE OF THE CHANNEL.

4. ROCK CHECK DAMS SHALL CONSIST OF A WELL GRADED MIXTURE OF 2" - 3" STONE.

5. REMOVE ROCK CHECK DAMS AND ANY ACCUMULATED SILT IN CHANNEL ONCE PERMANENT CHANNEL LININGS HAVE BEEN ESTABLISHED AND STABILIZED.

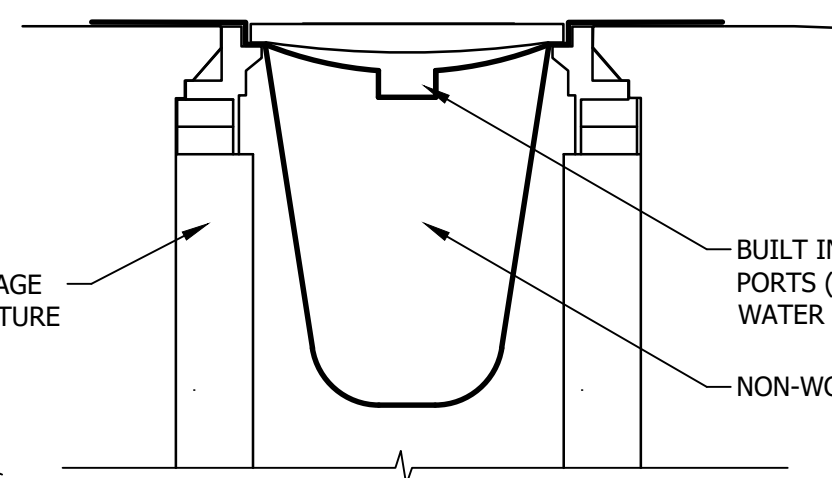
## ROCK CHECK DAM DETAIL

NO SCALE



## CATCH BASIN PROTECTION INSERT TYPE

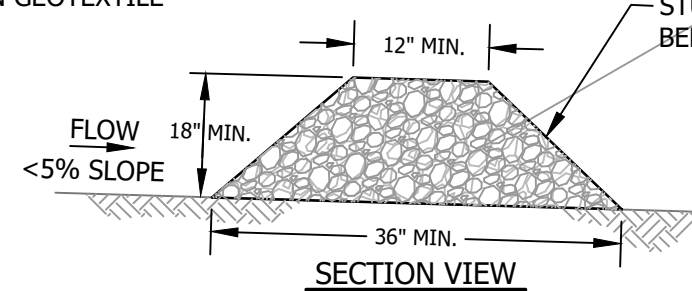
NO SCALE



DRAINAGE STRUCTURE

BUILT IN OVERFLOW PORTS (2) FOR HIGH WATER FLOW

NON-WOVEN GEOTEXTILE



### NOTES

1. THE MATERIAL MIX FOR THE BERM SHALL HAVE AN ORGANIC PORTION BETWEEN 80 AND 100%, DRY WEIGHT BASIS, AND BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR EQUIVALENT.

2. GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS THE ORGANIC MATERIAL.

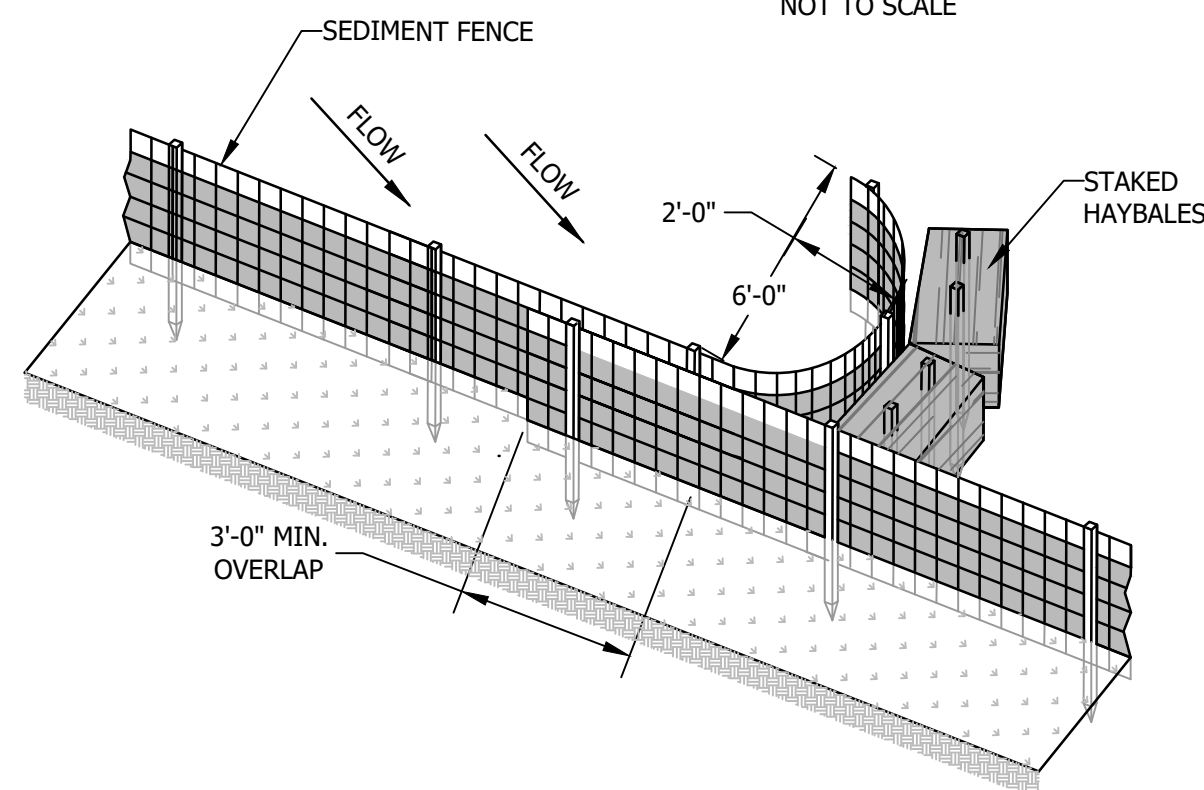
3. THE MIX SHALL NOT CONTAIN SILTS, CLAYS OR FINE SANDS.

4. THE MIX SHALL HAVE A PARTICLE SIZE BY WEIGHT OF 70 TO 85% PASSING A 6-INCH SCREEN AND A MAXIMUM OF 85% PASSING THE 0.75-INCH SCREEN.

5. THE MIX SHALL HAVE A pH BETWEEN 5.0 AND 8.0.

## PERVIOUS BERM DETAIL

NOT TO SCALE



## SEDIMENT FENCE POCKET

NO SCALE

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;  
B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;  
C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR  
D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

11. INSPECT ALL EROSION CONTROL MEASURES ON A DAILY BASIS AND AFTER EVERY 0.5 INCHES OF PRECIPITATION. MAINTAIN TURBIDITY CURTAIN, SEDIMENT FENCE, SEDIMENT TRAPS, HAY BALES, ETC., AS NECESSARY.

12. CONSTRUCT GRAVEL ROADWAYS AND/OR PARKING AREAS.

13. PLACE TOPSOIL, SEED AND MULCH.

14. COMPLETE ALL REMAINING PERMANENT EROSION CONTROL STRUCTURES.

15. MONITOR THE SITE AND MAINTAIN STRUCTURES AS NEEDED UNTIL FULL VEGETATION IS ESTABLISHED.

## CONSTRUCTION SEQUENCE

1. PREPARE AN EROSION CONTROL PLAN OR A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

2. INSTALL CONSTRUCTION ENTRANCE(S), SEE DETAIL.

3. CUT AND CLEAR TREES WITHIN THE CLEARING LIMITS.

4. INSTALL TURBIDITY CURTAIN, SEDIMENT FENCES, ROCK CHECK DAMS, AND OTHER APPROPRIATE EROSION CONTROL MEASURES AT LOCATIONS SHOWN ON THE PLANS AND AS NEEDED.

5. GRUB SITE WITHIN GRADING LIMITS.

6. STRIP AND STOCKPILE TOPSOIL AND INSTALL EROSION CONTROL MEASURES.

7. INSTALL/ADJUST TURBIDITY CURTAIN, SEDIMENT FENCE, CHECK DAMS, AND HAYBALES, AS REQUIRED.

8. CONSTRUCT PERMANENT STORMWATER CONTROLS AS SOON AS PRACTICAL. DO NOT DIRECT STORMWATER TOWARD TREATMENT BASINS, PONDS, SWALES, DITCHES AND LEVEL SPREADERS UNTIL THEY HAVE BEEN STABILIZED.

9. PROCEED WITH WORK, LIMITING THE DURATION OF DISTURBANCE. THE MAXIMUM OF UNCOVERED DISTURBED EARTH AT ANY ONE TIME IS FIVE ACRES. THE MAXIMUM LENGTH OF TIME THAT DISTURBED EARTH MAY BE LEFT UNSTABILIZED IS 45 DAYS.

CONSTRUCTION SEQUENCE AT NEGATIVE LIFT AND BOAT LAUNCH AREA SHALL BE AS FOLLOWS:

A. INSTALL TURBIDITY CURTAIN.  
B. INSTALL TEMPORARY COFFER DAM.  
C. PROCEED WITH NEGATIVE LIFT WORK IN ACCORDANCE WITH ENV-WT 515. CONSTRUCTION IMPACTS SHALL BE LIMITED TO THE AREA WITHIN 15 FEET OF THE PROPOSED STRUCTURES FOOTPRINT.  
D. UPON COMPLETION OF NEGATIVE LIFT WORK, PROCEED WITH THE BOAT LAUNCH WORK.  
E. REVEGETATE CONSTRUCTION IMPACTS WITHIN TOP OF BANK WITH NATIVE PLANTINGS.

10. BEGIN SEEDING AND MULCHING IMMEDIATELY AFTER GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED WITH APPROVED METHODS WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

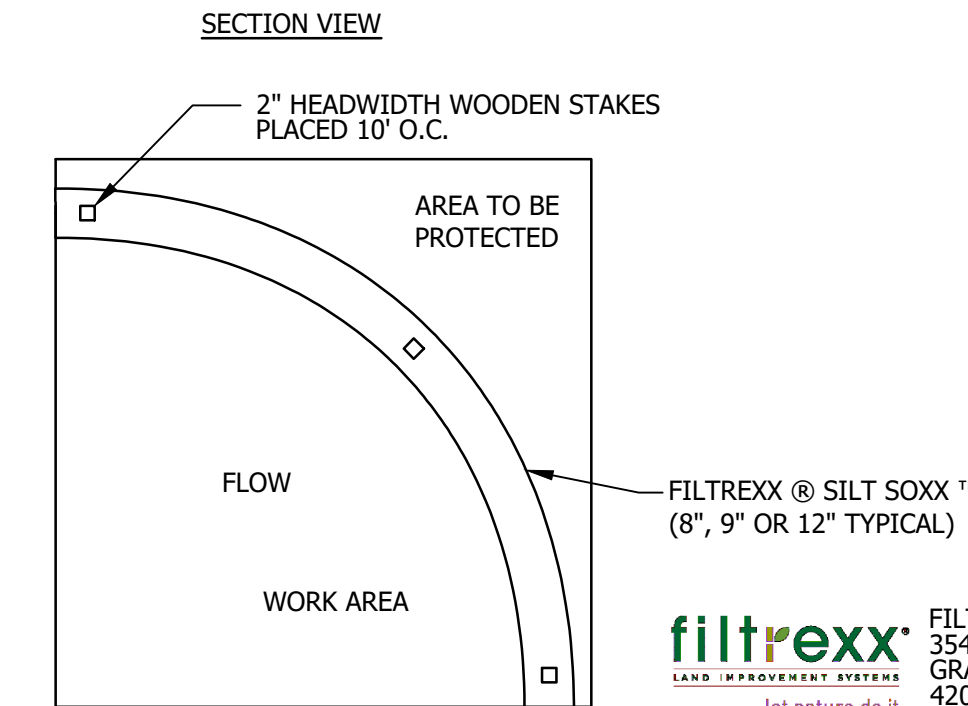
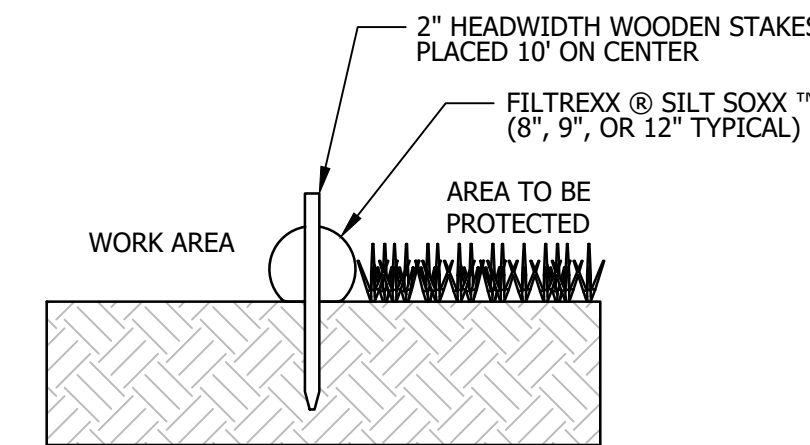
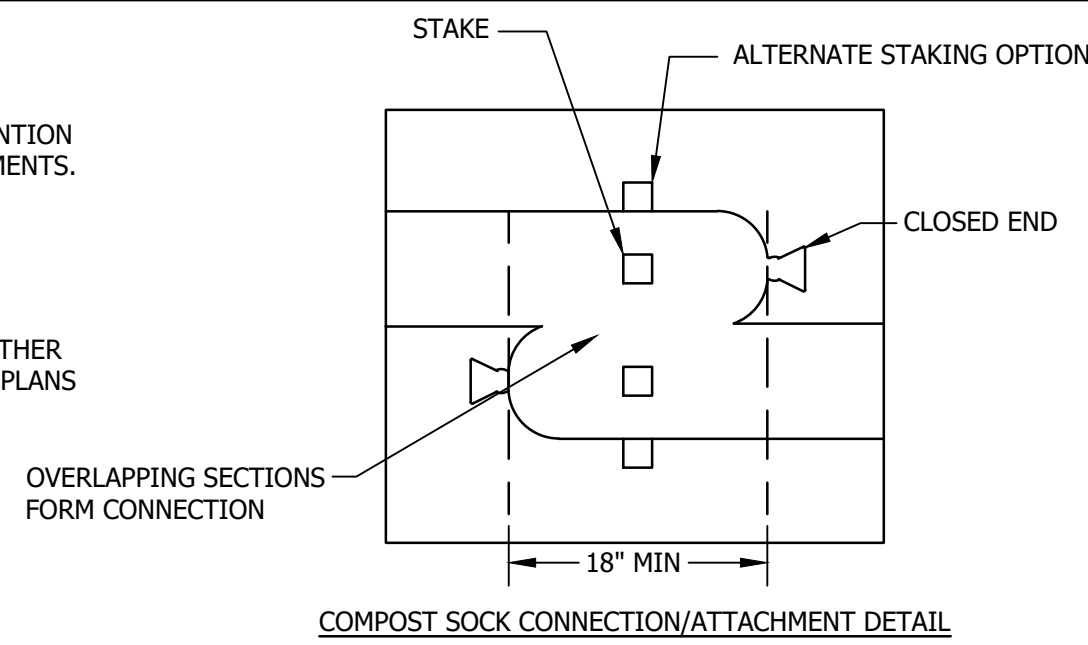
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12. CONSTRUCT GRAVEL ROADWAYS AND/OR PARKING AREAS.

13. PLACE TOPSOIL, SEED AND MULCH.

14. COMPLETE ALL REMAINING PERMANENT EROSION CONTROL STRUCTURES.

15. MONITOR THE SITE AND MAINTAIN STRUCTURES AS NEEDED UNTIL FULL VEGETATION IS ESTABLISHED.



### NOTES:

1. ALL MATERIAL TO MEET FILTREXX @ SPECIFICATIONS.  
2. SILT SOXX™ FILL TO MEET APPLICATION REQUIREMENTS.  
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

## FILTREXX® SILT SOXX™ DETAILS

NOT TO SCALE

SOURCE: <https://www.filtrex.com/en/resources/design-specs-cads/filtrex-cad-files>  
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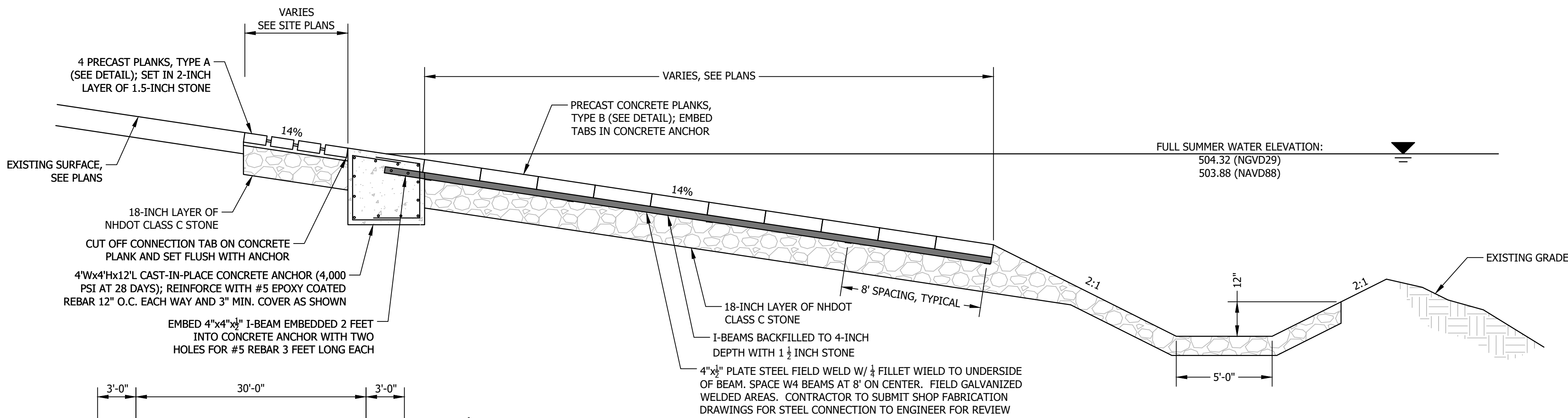
**GOODHUE MEREDITH, LLC**

31 LOVEJOY SANDS ROAD  
COMMERCIAL BOAT LAUNCH AND  
NEGATIVE LIFT IMPROVEMENTS  
MEREDITH, NEW HAMPSHIRE  
TAX MAP U35 LOTS 8A & 11 - SHORELINE "S" DISTRICT  
EROSION CONTROL NOTES  
AND DETAILS

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

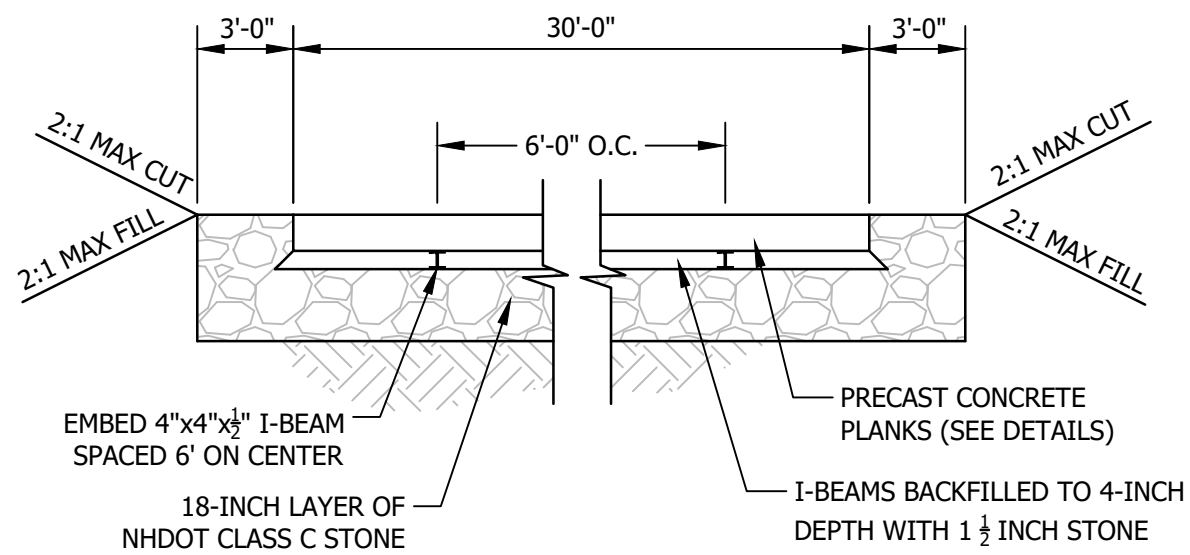
	DATE: NOV 2023	PROJECT #: 20818
	ENGINE'D BY: -	DRAWN BY: WAM
	CHECK'D BY: WTD	ARCHIVE #: -
	SHEET C3.1	





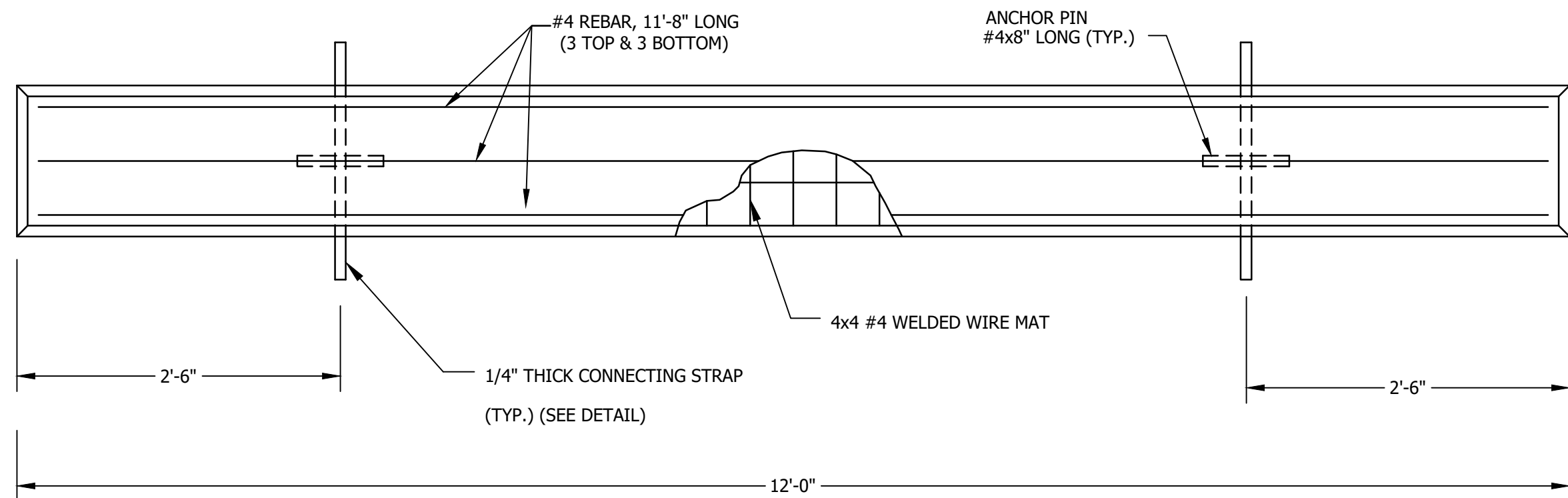
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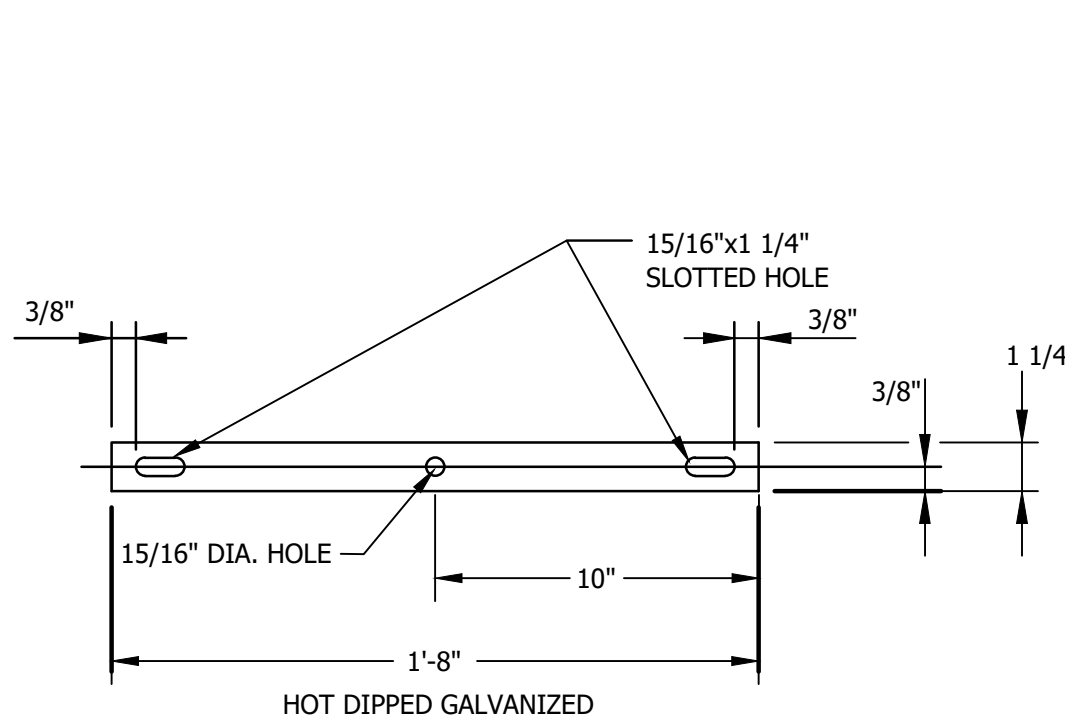
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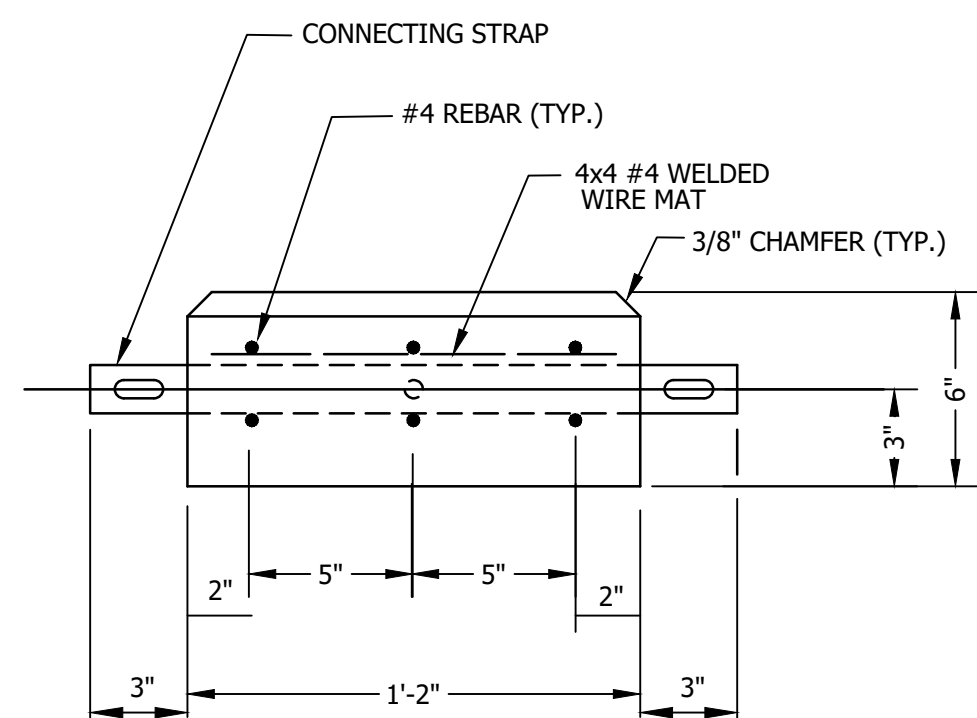
TYPE A PLANK - PLAN

NOT TO SCALE



TYPE A PLANK CONNECTING STRAP

NOT TO SCALE

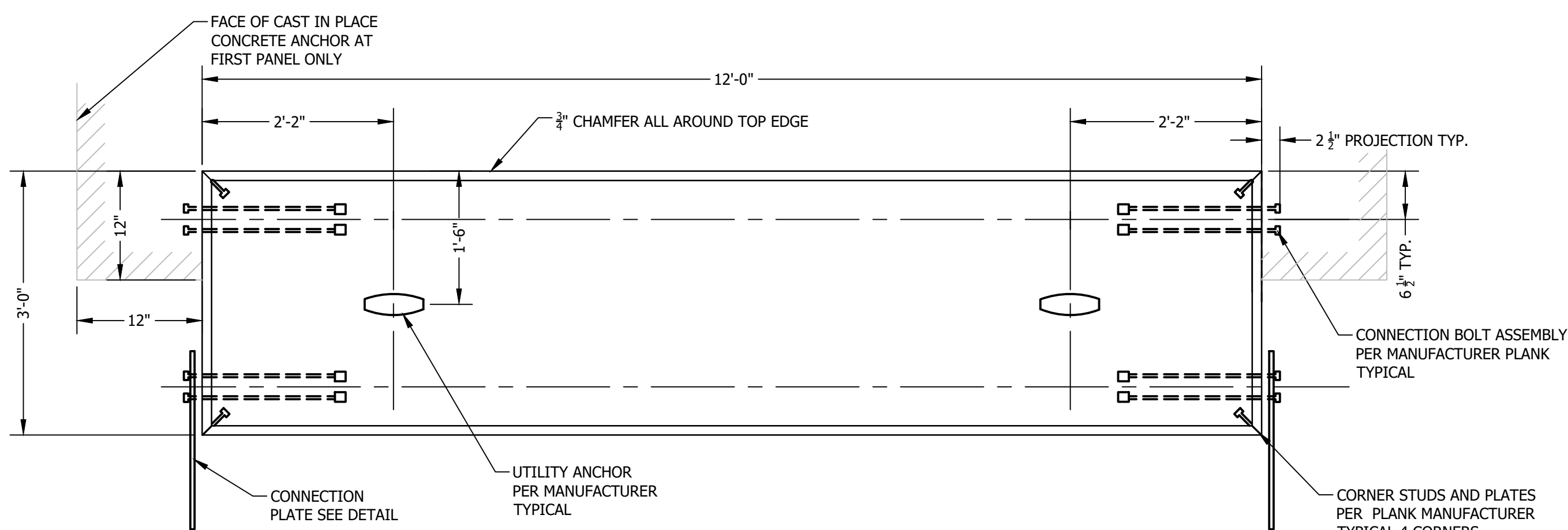


TYPE A PLANK SECTION

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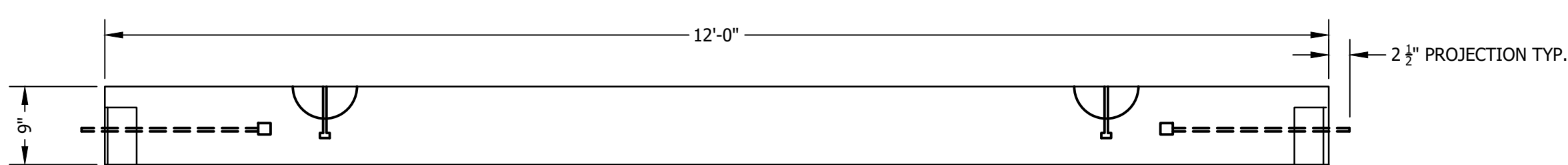
TYPE A PLANK NOTES

1. COMPRESSIVE STRENGTH OF CONCRETE: 5000 P.S.I. AT 28 DAYS
2. PLANKS TO HAVE BROOM FINISH LONGITUDINALLY.
3. CONNECTING BOLTS AND NUTS: 1/4"x2" STAINLESS STEEL.
4. THE APPROXIMATE WEIGHT PER PLANK IS 1050 LBS.
5. BOAT RAMP CONSTRUCTION DETAIL DERIVED FROM NEW HAMPSHIRE FISH AND WILDLIFE BOAT RAMP STANDARD DETAIL WITH PERMISSION.



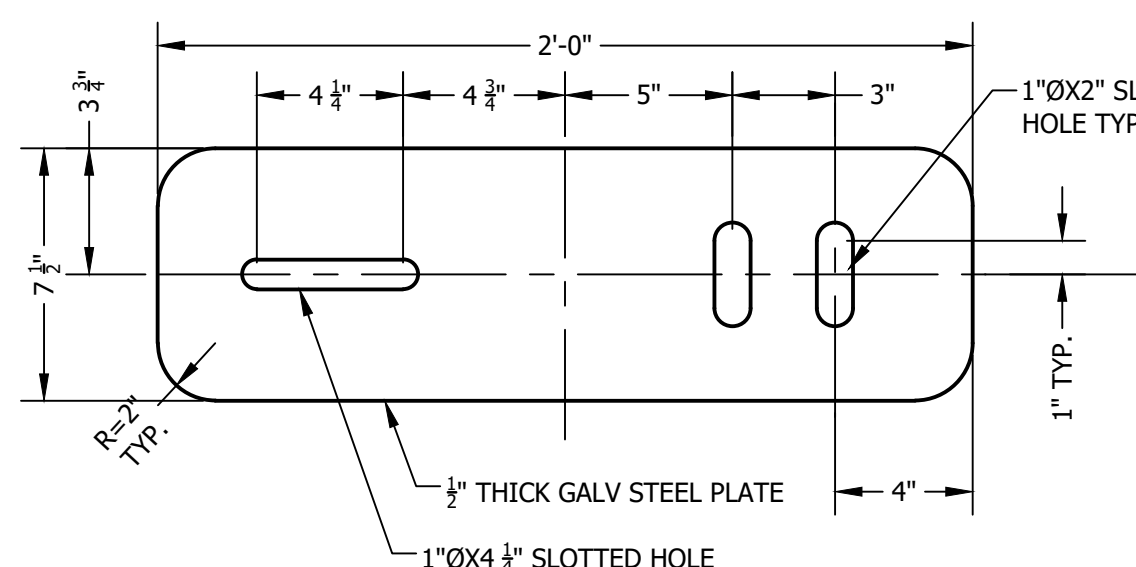
TYPE B PLANK - PLAN

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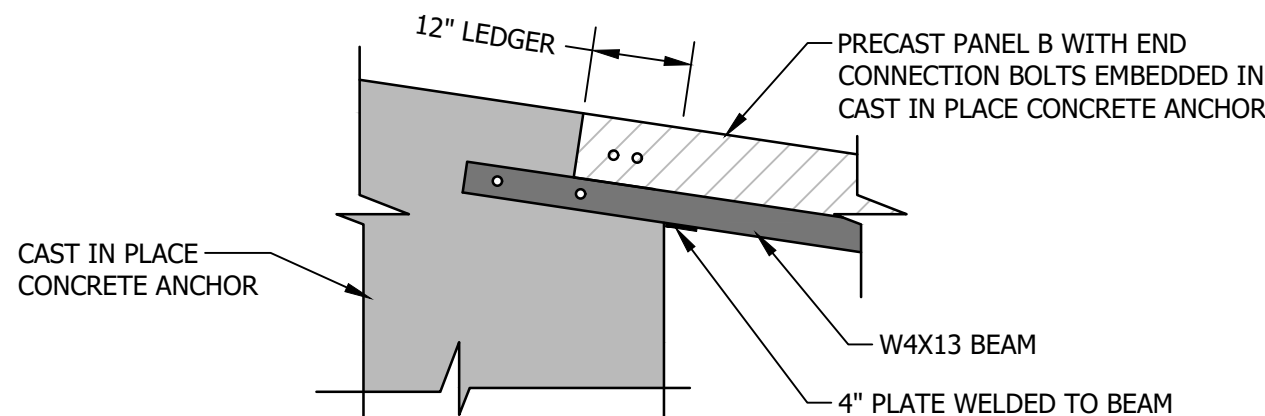
TYPE B PLANK - ELEVATION

NOT TO SCALE



TYPE B PLANK CONNECTION PLATE DETAIL

NOT TO SCALE



PANEL B - EMBEDMENT DETAIL

NOT TO SCALE

STONE SPECIFICATIONS

2.1 MATERIALS - STONE FILL

- A. MATERIALS SHALL MEET THE REQUIREMENTS OF SECTION 585, STONE FILL, NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (NHS) FOR THE APPROPRIATE ITEM AS INDICATED ON THE DRAWINGS.
- B. STONE FOR STONE FILL SHALL BE APPROVED QUARRY STONE, OR BROKEN ROCK OF A HARD, SOUND, AND DURABLE QUALITY. THE STONES AND SPALLS SHALL BE SO GRADED AS TO PRODUCE A DENSE FILL WITH A MINIMUM OF VOIDS.
1. **CLASS A STONE** SHALL BE IRREGULAR IN SHAPE WITH APPROXIMATELY 50 % OF THE MASS HAVING A MINIMUM VOLUME OF 12 CUBIC FEET, APPROXIMATELY 30 % OF THE MASS RANGING BETWEEN 3 AND 12 CUBIC FEET, APPROXIMATELY 10 % OF THE MASS RANGING BETWEEN 1 AND 3 CUBIC FEET, AND THE REMAINDER OF THE MASS COMPOSED OF SPALLS.

2. **CLASS B STONE** SHALL BE IRREGULAR IN SHAPE WITH APPROXIMATELY 50 % OF THE MASS HAVING A MINIMUM VOLUME OF 3 CUBIC FEET, APPROXIMATELY 40 % OF THE MASS RANGING BETWEEN 1 AND 3 CUBIC FEET, AND THE REMAINDER OF THE MASS COMPOSED OF SPALLS.

3. **CLASS C STONE** SHALL CONSIST OF CLEAN, DURABLE FRAGMENTS OF LEDGE ROCK, OF UNIFORM QUALITY, REASONABLY FREE FROM THIN OR ELONGATED PIECES. THE STONE SHALL BE MADE FROM ROCK WHICH IS FREE FROM TOPSOIL AND OTHER ORGANIC MATERIAL. THE STONE SHALL BE GRADED AS FOLLOWS:

SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
12 INCH	100
4 INCH	50-90
1-1/2 INCH	0-30
3/4 INCH	0-10

4. **CLASS D STONE** SHALL CONSIST OF CRUSHED STONE, GRAVEL, OR OTHER APPROVED INERT MATERIALS WITH SIMILAR CHARACTERISTICS OR COMBINATIONS THEREOF, HAVING HARD, STRONG, DURABLE PARTICLES, FREE FROM SURFACE COATING AND INJURIOUS AMOUNTS OF SOFT, FRAGILE, OR LAMINATED PIECES, AND FREE OF ALKALINE, ORGANIC, OR OTHER HARMFUL MATTER. THE STONE SHALL BE STANDARD STONE SIZE 467 (NO. 4 TO 1-1/2").

5. **EROSION STONE** SHALL BE IRREGULAR IN SHAPE WITH APPROXIMATELY 50% OF THE MASS HAVING A MINIMUM DIMENSION BETWEEN 6-INCHES AND 8-INCHES, APPROXIMATELY 40% OF THE MASS HAVING A MINIMUM DIMENSION BETWEEN 2-INCHES AND 6-INCHES AND THE REMAINDER OF THE MASS COMPOSED OF SPALLS.

6. **SPALLS** FOR FILLING VOIDS SHALL CONSIST OF A MIXTURE OF STONES OR ROCK FRAGMENTS AND PARTICLES WITH 95 TO 100% PASSING THE 3-INCH SIEVE AND 25 TO 70% PASSING THE NO. 4 SIEVE.

C. MINIMUM DEPTH OF STONE LAYER SHALL CONFORM TO THE FOLLOWING

STONE SIZE CLASS	MIN. DEPTH
EROSION STONE	12"
CLASS C	12"
CLASS B	18"
CLASS A	30"



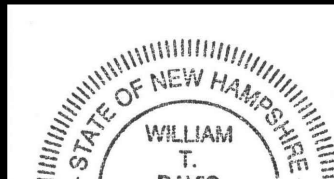
GOODHUE MEREDITH, LLC

31 LOVEJOY SANDS ROAD  
COMMERCIAL BOAT LAUNCH AND  
NEGATIVE LIFT IMPROVEMENTS

MEREDITH, NEW HAMPSHIRE  
TAX MAP U35 LOTS 8A & 11 - SHORELINE "S" DISTRICT

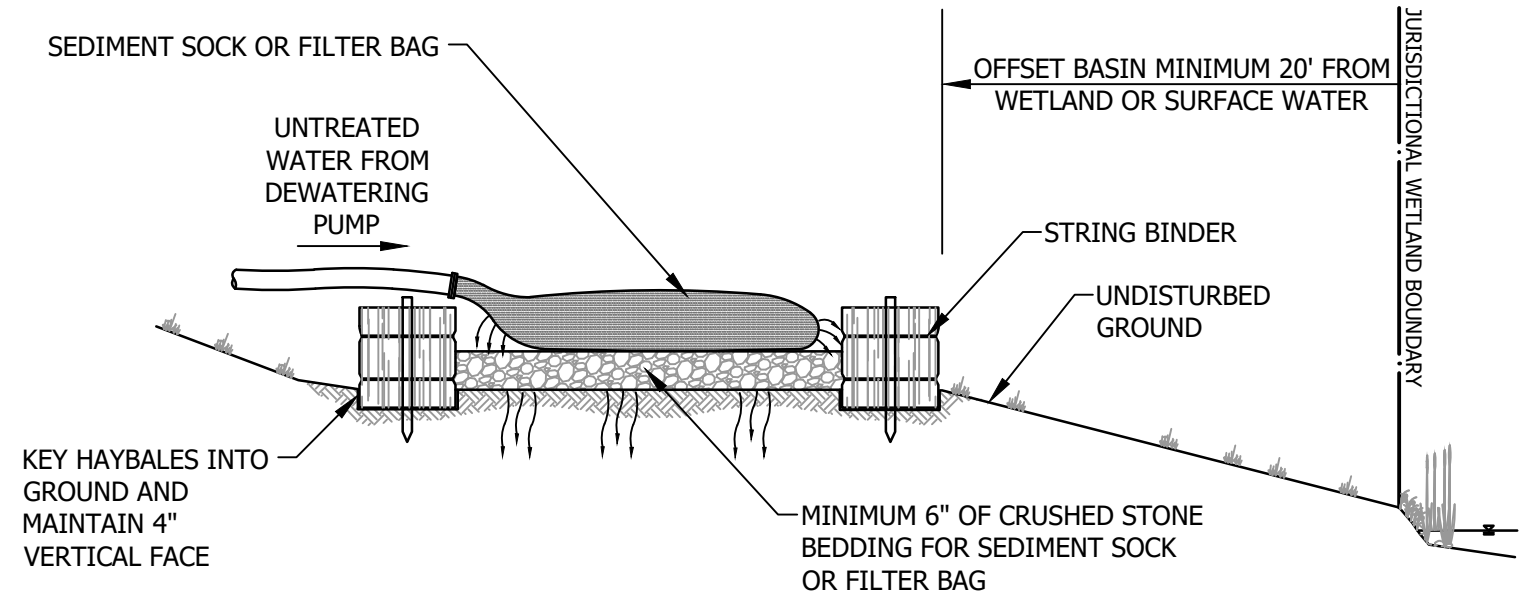
BOAT LAUNCH DETAILS

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

	DATE:	PROJECT #
	NOV 2023	20818
	ENGINE'D BY:	DRAWN BY:
	-	WAM
	CHECK'D BY:	ARCHIVE #
WTD	-	
SHEET C3.2		

DATE OF PRINT  
NOVEMBER 13 2023  
HORIZONS ENGINEERING

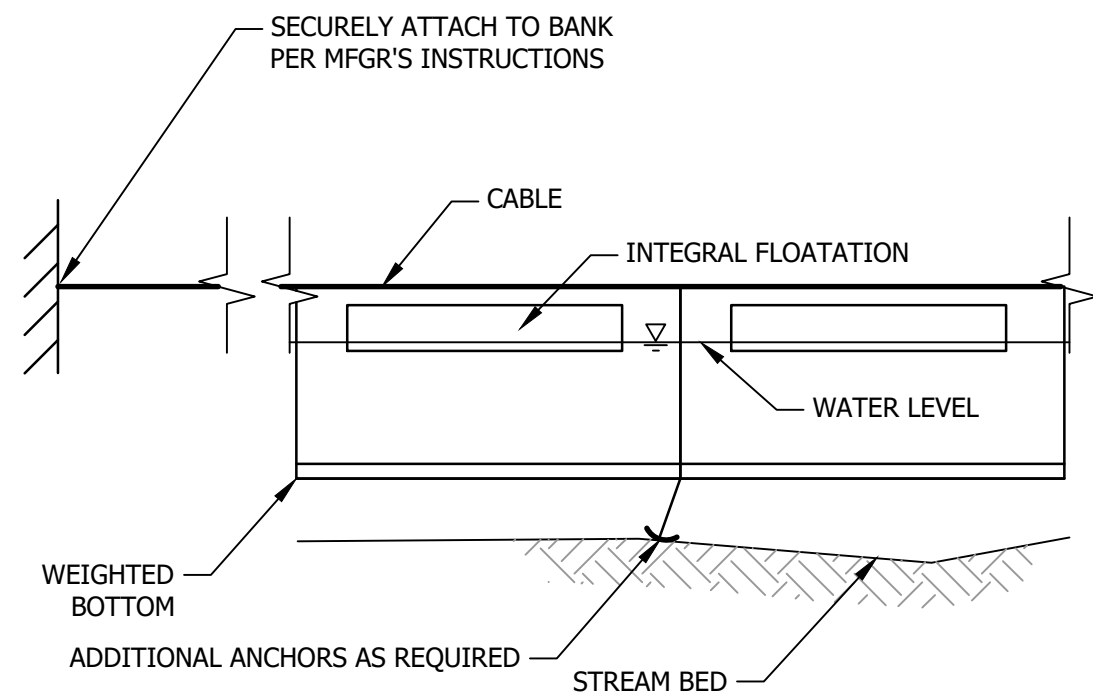
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Engineering  
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- NOTE:
1. DESIGN INTENT FOR TEMPORARY DEWATERING FILTER PAD IS TO ENHANCE PUMP WATER QUALITY PRIOR TO INFILTRATION INTO UNDISTURBED GROUND.
  2. CONTRACTOR TO OPERATE PUMPS AND SIZE TEMPORARY DEWATERING FILTER PAD TO ENCOURAGE INFILTRATION AND PREVENT DISCHARGE TO SURFACE WATERS OR WETLANDS.
  3. COVERAGE UNDER EPA'S CONSTRUCTION DEWATERING GENERAL PERMIT OR CONSTRUCTION GENERAL PERMIT MUST BE OBTAINED IF DEWATERING ACTIVITIES RESULT IN A DISCHARGE TO SURFACE WATERS OR WETLANDS.

TEMPORARY DEWATERING FILTER PAD DETAIL

NO SCALE



- NOTES:
1. FLOATING TURBIDITY BARRIER SHALL BE TYPE III HEAVY DUTY.
  2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  3. TURBIDITY BARRIER SHALL BE DEPLOYED DURING ACTIVITIES WHICH HAVE THE POTENTIAL TO CAUSE TURBIDITY. BARRIER SHALL BE TEMPORARILY REMOVED WHEN SIGNIFICANT ICE OR FLOATING DEBRIS IS EXPECTED AND NO WORK IS TAKING PLACE.

FLOATING TURBIDITY BARRIER DETAIL

NOT TO SCALE

SEDIMENT RETENTION WATTLES

DESCRIPTION  
EROSION CONTROL AND SEDIMENT RETENTION WATTLES (ESW) OR SLOPE INTERRUPTION DEVICES (SID) COMMONLY KNOWN AS WATTLES, ARE ELONGATED TUBES OF COMPACTED STRAW THAT ARE INSTALLED ALONG CONTOURS OR AT THE BASE OF SLOPES TO HELP REDUCE SOIL EROSION AND RETAIN SEDIMENT. THEY FUNCTION BY SHORTENING SLOPE LENGTH, REDUCING RUNOFF WATER VELOCITY, TRAPPING DISLODGED SOIL PARTICLES AND AMELIORATING THE EFFECTS OF SLOPE STEEPNESS.

WATTLES ARE USED AS WATER FLOW DISSIPATERS TRAPPING SEDIMENT WHEN LOCATED PRIOR TO DRAIN INLETS, ETC. WATTLES ARE HIGHLY EFFECTIVE WHEN THEY ARE USED IN COMBINATION WITH OTHER SURFACE SOIL EROSION/RE-VEGETATION PRACTICES SUCH AS SURFACE ROUGHENING, STRAW MULCHING, EROSION CONTROL BLANKETS, HYDRAULIC MULCHING AND APPLICATION OF BONDED FIBER MATRIX OR OTHER HYDRAULIC SOIL STABILIZERS.

PROPERTIES:  
MATERIAL: 100% WEED FREE STRAW  
LONGEVITY: 24 MONTHS  
NETTING: PHOTODEGRADABLE

DIAMETER	LENGTH	WEIGHT
9"	8' TO 25'	1.6 LBS/FT
12"	8' TO 20'	2.8 LBS/FT
18"	8' TO 20'	3.2 LBS/FT
20"	8' TO 20'	3.5 LBS/FT

NOTE: WATTLE SIZES, LENGTHS, WEIGHTS, AND LONGEVITY ARE APPROXIMATE.

INFORMATION PROVIDED BY:  
ULTRATECH INTERNATIONAL, INC.  
11542 DAVIS CREEK COURT, JACKSONVILLE, FL 32256 USA  
PHONE: 800.353.1611 FAX: 904.292.1325 WWW.STORMWATER-PRODUCTS.COM

DATE OF PRINT  
NOVEMBER 13 2023  
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GOODHUE MEREDITH, LLC

31 LOVEJOY SANDS ROAD  
COMMERCIAL BOAT LAUNCH AND  
NEGATIVE LIFT IMPROVEMENTS

MEREDITH, NEW HAMPSHIRE  
TAX MAP U35 LOTS 8A & 11 - SHORELINE "S" DISTRICT

CONSTRUCTION DETAILS

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

STATE OF NEW HAMPSHIRE

WILLIAM T. DAVIS

No. 11918

PROFESSIONAL ENGINEER

DATE:

NOV 2023

PROJECT #:

20818

ENGIND BY:

-

DRAWN BY:

WAM

CHECK'D BY:

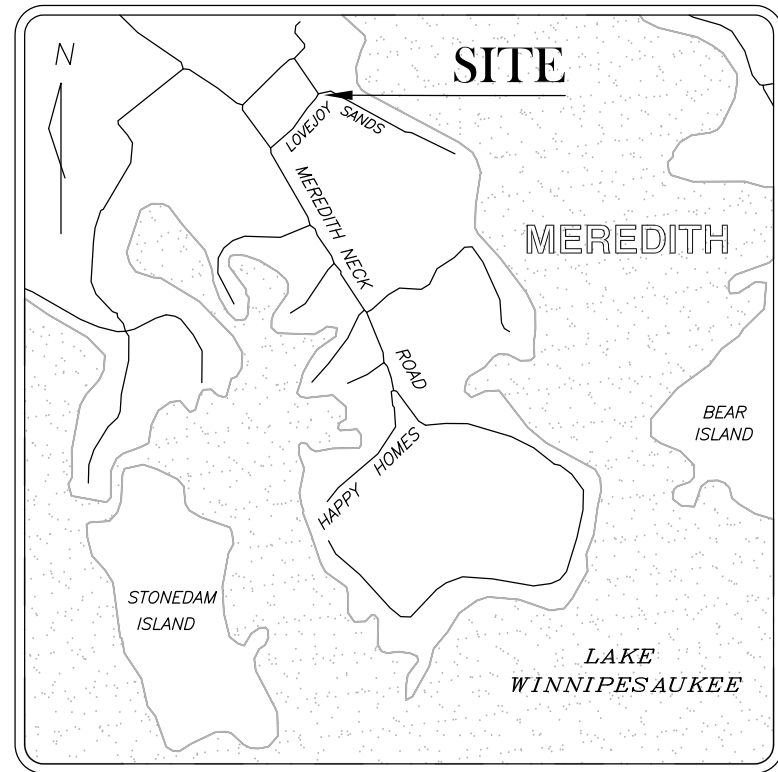
WTD

ARCHIVE #:

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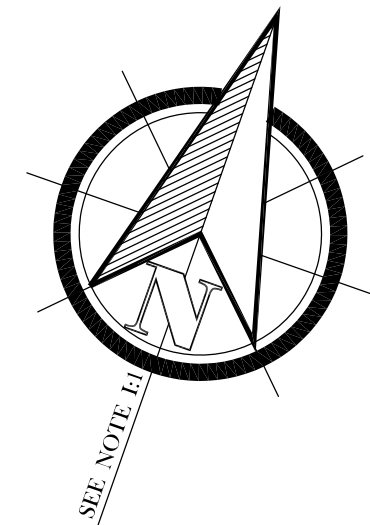
Locus Map  
-not to scale-

### Zoning:

Zone: Shoreline District  
Dimensional requirements:  
Minimum Area: 40,000 s.f.  
Width: 150 ft.  
Shoreline Setback: 65 ft.  
Side Setback: 20 ft.  
Waterfront Rear Setback: 30 ft.  
Non-waterfront Rear Setback 40 ft.  
Non-waterfront Front Setback 30 ft.  
Maximum Height: 38 ft.

### Legend

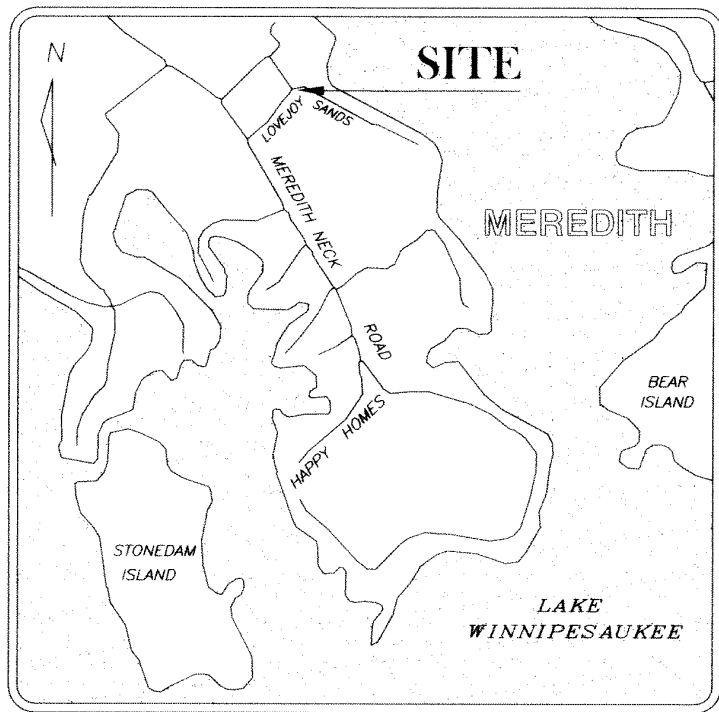
- iron rod / pipe found
- stone / concrete monument found
- capped rebar / pipe to be set
- ⊙ drill hole
- W utility pole with numbers, overhead wires and guy anchor
- 井 well
- 池 catch basin
- 石 stone wall
- property line
- - - approx. water line
- - - approx. pump/sewer line
- ▨ approx. existing septic tank



Tax Map U35-BK-5  
Beverly R. Schavone Declaration of Trust  
9 Tall Pines Way  
Meredith, NH 03253  
Deed 1629/801  
Plan Ref. 6







Locus Map  
-not to scale-

## Legend

- iron rod / pipe found
- stone / concrete monument found
- capped rebar / pipe to be set
- drill hole
- utility pole with numbers, overhead wires and guy anchor
- well
- catch basin
- stone wall
- property line
- approx. water line per plan ref. #11
- approx. pump/sewer line per plan ref. #11
- approx. existing septic tank per plan ref. #11

## I. Survey Notes:

- BEARINGS SHOWN HEREON ARE BASED ON A MAGNETIC OBSERVATION TAKEN AT THE TIME OF SURVEY AND SERVE ONLY TO DEFINE ANGULAR RELATIONSHIPS.
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF AN UP-TO-DATE TITLE REPORT AND IS SUBJECT TO THE SAME.
- LAKE WINNEPESAUKEE IS A GREAT POND WITH A NATURAL MEAN HIGH WATER ELEVATION OF 504.32' (NGVD 1929) PER THE OFFICIAL LIST OF PUBLIC WATERS IN THE STATE OF NEW HAMPSHIRE. THE WATER BOUNDARY SHOWN IS THE CURRENT LOCATION OF ELEVATION 504.32'. A SIGNIFICANT AREA OF THE SUBJECT PROPERTY IS LAND CREATED BY PLACING FILL IN THE LAKE, ACCORDING TO HISTORIC SURVEY PLANS. THE WATER BOUNDARY SHOWN IS SUBJECT TO CHANGE DUE TO NATURAL CAUSES SUCH AS EROSION OR ACCRETION AND MAY OR MAY NOT REPRESENT THE ACTUAL LOCATION OF THE LIMIT OF TITLE.
- ELEVATIONS SHOWN HEREON ARE BASED ON THE LAKE ELEVATION AT THE TIME OF SURVEY AS PUBLISHED HOURLY BY THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES.
- ALL LAND WITHIN 250' OF ANY NH PUBLIC WATERBODY (PER THE OFFICIAL LIST OF PUBLIC WATERS, PUBLISHED AND MAINTAINED BY THE STATE OF NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, WATER DIVISION, DAM BUREAU) IS SUBJECT TO THE REGULATIONS OF THE COMPREHENSIVE SHORELAND PROTECTION ACT (RSA 483-B) AS AMENDED JULY 1, 2008. ANY DEVELOPMENT OR REDEVELOPMENT IN THIS AREA MAY REQUIRE A SHORELAND PERMIT FROM THE STATE OF NEW HAMPSHIRE.
- DIAMETERS OF IRON PIPES FOUND OR SET HEREON ARE OUTSIDE DIAMETER UNLESS OTHERWISE NOTED.
- TAX MAP U35 LOT 14 IS SUBJECT TO A PARKING EASEMENT BENEFITING THE TOWN OF MEREDITH AS SHOWN HEREON. SEE PLAN REFERENCE 1 AND DEED 1813/237.
- TAX MAP U35 LOT 8A IS BENEFITED BY TWO ACCESS EASEMENTS AND A UTILITY EASEMENT ACROSS TAX MAP U35 LOT 10 AS SHOWN HEREON. SEE PLAN REFERENCE 1 AND DEED 1813/237.
- THE SUBJECT PROPERTY IS BENEFITED BY A PARKING EASEMENT FOUR (4) FEET IN WIDTH ALONG THE SOUTHERLY SIDELINE OF LOVEJOY SANDS ROAD AS SHOWN HEREON. SEE PLAN REFERENCE 1 AND DEED 1813/237.
- THE SUBJECT PROPERTY IS SUBJECT TO AND BENEFITED BY RECIPROCAL EASEMENTS WITH THE TOWN OF MEREDITH FOR USE OF THE BOAT RAMP. SEE PLAN REFERENCE 1 AND DEED 1813/237.
- TAX MAP U35 LOT 8A IS SUBJECT TO AND BENEFITED BY TWO ACCESS EASEMENTS CONNECTING TO TALL PINES WAY AND TURTLE LANE TO THE NORTH. SEE DEED 403/121, EASEMENT AGREEMENT 794/201 AND PLAN REFERENCE 5.
- TAX MAP U35 LOT 12 TO BE SUBJECT TO AN EASEMENT BENEFITING TAX MAP U35 LOT 8A AND U35 LOT 11 FOR THE PURPOSE OF MAINTAINING THE EXISTING SEPTIC TANK AND ASSOCIATED UNDERGROUND PIPELINES AND WATER LINE LOCATED ON U35 LOT 12.
- UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND ARE BASED ON PLANS OF RECORD AND OTHER INFORMATION FOUND. NOT ALL UNDERGROUND UTILITIES ARE SHOWN. ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE VERIFIED BEFORE ANY EXCAVATION. CALL DIGSAFE! 1-800-DIG-SAFE.
- THE PROPERTY IS SUBJECT TO ANY UTILITY EASEMENTS WHICH MAY EXIST INCLUDING BUT NOT LIMITED TO RIGHT OF EASEMENT DEED 2896/263.
- TAX MAP U35-12 AND U35-12A ARE BENEFITED BY A RESTRICTIVE COVENANT (SEE DEED 2973/723) PERTAINING TO THE EXISTING DOCK LOCATED NEAR THE SOUTHEASTERLY CORNER OF TAX MAP U35-12. FOR TITLE SEE QUITCLAIM AND EASEMENT DEED 2973/720.

## II. Roads:

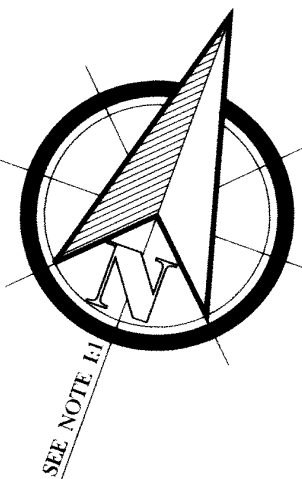
- LOVEJOY SANDS ROAD IS A PUBLIC WAY PER TOWN OF MEREDITH RECORDS. THE RIGHT OF WAY WAS RE-ESTABLISHED BY THE SELECTMEN OF THE TOWN OF MEREDITH ON DECEMBER 3, 2002 IN ACCORDANCE WITH NH RSA 231:27, AS PER PLAN REFERENCE 1. THE RIGHT OF WAY SHOWN HEREON IS BASED ON PLAN REFERENCE 1.
- LOVEJOY LANE IS A PUBLIC WAY PER TOWN OF MEREDITH RECORDS. IT WAS LAID OUT NOVEMBER 29, 1902, TWELVE FEET WIDE. NO OTHER LAYOUT RECORDS WERE FOUND. THE RIGHT OF WAY SHOWN HEREON IS BASED ON MONUMENTS FOUND AND IS SUBJECT TO AND BENEFITED BY ANY LAYOUT OF RECORD.
- MEREDITH NECK ROAD IS A PUBLIC WAY PER TOWN OF MEREDITH RECORDS. THE RIGHT OF WAY SHOWN HEREON IS BASED ON PHYSICAL EVIDENCE OF STONE WALLS AND IS SUBJECT TO AND BENEFITED BY THE LAYOUT OF RECORD.

## III. Plan References:

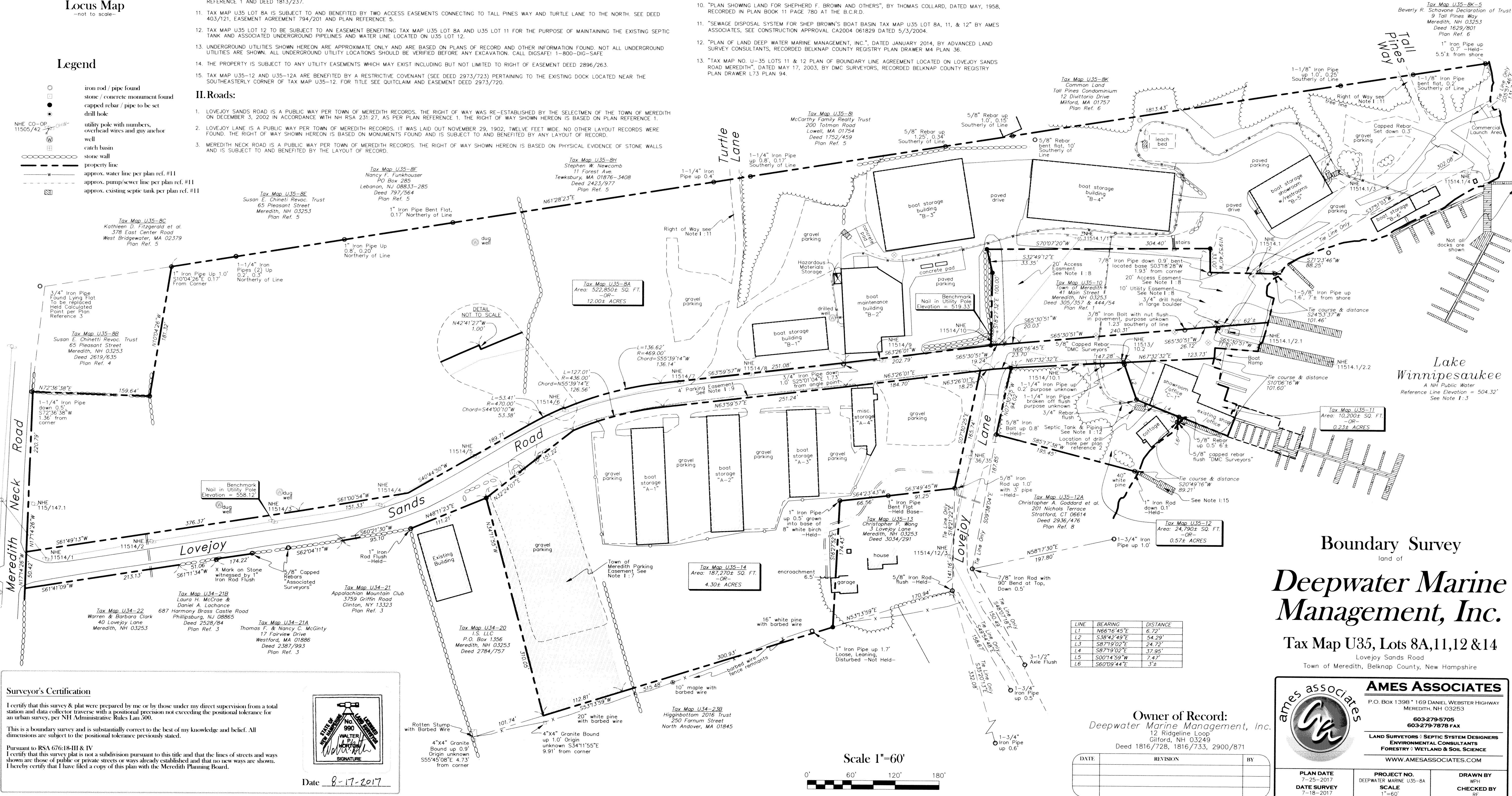
- "BOUNDARY SURVEY & ROAD LAYOUT LOCATED ON LOVEJOY SANDS ROAD" BY DMC SURVEYORS, DATED SEPTEMBER 13, 2002, RECORDED IN PLAN DRAWER L42 #70 & 71 AT THE BELKNAP COUNTY REGISTRY OF DEEDS. (B.C.R.D.)
- "PLAN SHOWING LAND FOR SHEP BROWN BOAT BASIN" BY THOMAS COLLARD, DATED FEBRUARY, 1960
- "SUBDIVISION PLAN PREPARED FOR LOVEJOY SANDS DEVELOPMENT, LLC" BY ASSOCIATED SURVEYORS, DATED MARCH 27, 2006 RECORDED IN PLAN DRAWER L56 #80 AT THE B.C.R.D.
- "PLAN SHOWING LAND OF CARLISLE H. BOGER, JR.", BY ASSOCIATED SURVEYORS, DATED MAY, 1980, RECORDED IN PLAN BOOK 83 PAGE 75 AT THE B.C.R.D.
- "SUBDIVISION OF LAND FOR FRANCIS J. & BEVERLY R. SCHAVONE" BY ASSOCIATED SURVEYORS, DATED SEPTEMBER, 1978, RECORDED IN PLAN BOOK 73 PAGE 71 AT THE B.C.R.D.
- "TALL PINES CONDOMINIUM FOR FRANCIS J. & BEVERLY R. SCHAVONE", BY ASSOCIATED SURVEYORS, DATED FEBRUARY, 1979, RECORDED IN PLAN BOOK 78 PAGE 73 AT THE B.C.R.D.
- "BOUNDARY LINE ADJUSTMENT LAND OF J. KENT BIRD", BY ASSOCIATED SURVEYORS, DATED NOVEMBER, 1979, RECORDED IN PLAN BOOK 87 PAGE 95 AT THE B.C.R.D.
- "PROPERTY OF MRS. ELIZABETH M. SWEETSER", A WORKSHEET BY THOMAS COLLARD DATED 1945.
- "PLAN OF LAND BELONGING TO WINIFRED CULLEN", BY THOMAS COLLARD, DATED OCTOBER 1939.
- "PLAN SHOWING LAND FOR SHEPHERD F. BROWN AND OTHERS", BY THOMAS COLLARD, DATED MAY, 1958, RECORDED IN PLAN BOOK 11 PAGE 780 AT THE B.C.R.D.
- "SEWAGE DISPOSAL SYSTEM FOR SHEP BROWN'S BOAT BASIN TAX MAP U35 LOT 8A, 11, & 12" BY AMES ASSOCIATES, SEE CONSTRUCTION APPROVAL CA2004 061829 DATED 5/3/2004.
- "PLAN OF LAND DEEP WATER MARINE MANAGEMENT, INC.", DATED JANUARY 2014, BY ADVANCED LAND SURVEY CONSULTANTS, RECORDED BELKNAP COUNTY REGISTRY PLAN DRAWER M4 PLAN 36.
- "TAX MAP NO. U-35 LOTS 11 & 12 PLAN OF BOUNDARY LINE AGREEMENT LOCATED ON LOVEJOY SANDS ROAD MEREDITH", DATED MAY 17, 2003, BY DMC SURVEYORS, RECORDED BELKNAP COUNTY REGISTRY PLAN DRAWER L73 PLAN 94.

## Zoning:

Zone: Shoreline District  
Dimensional requirements:  
Minimum Area: 40,000 s.f.  
Width: 150 ft.  
Shoreline Setback: 65 ft.  
Side Setback: 20 ft.  
Waterfront Rear Setback: 30 ft.  
Non-waterfront Rear Setback 40 ft.  
Non-waterfront Front Setback 30 ft.  
Maximum Height: 38 ft.



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JUDITH A. MCGRATH  
C/H  
L-CLIP  
REAS9900



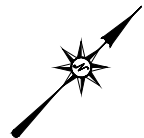
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## **SECTION 4**

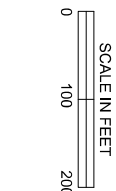
### **Env-Wt 311.06**

## **4.1 Town of Meredith Tax Map U35**

PROPERTY MAP  
**MEREDITH**  
NEW HAMPSHIRE

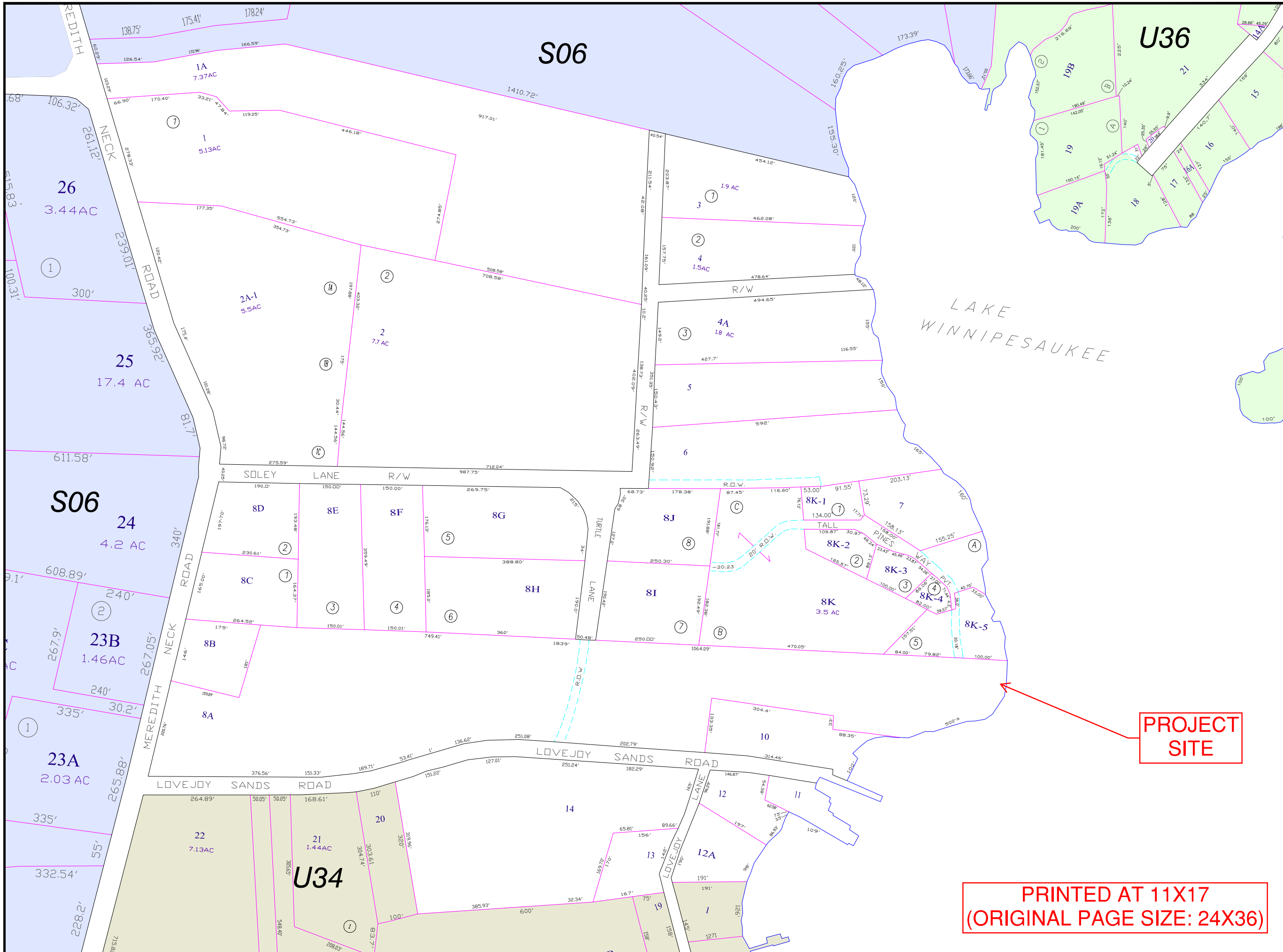


LEGEND	
ABUTTING MAP NO.	R11
PARTIAL NUMBER	74
SUBDIVISION LOT NO.	⑦
STREET ADDRESS NO.	18
LOT DIMENSION	156'
PROPERTY LINES	—
RIGHT OF WAY	—
EASEMENT	—



John E. O'Donnell & Associates  
632 Bald Hill Road  
New Gloucester, Maine 04260

U35



PRINTED AT 11X17  
(ORIGINAL PAGE SIZE: 24X36)



## **4.2 Site Photographs and Location Exhibit**



Photo # 1

View North of Existing Building "B-6" and Existing Trees Along Shoreline  
(Existing Docks in Photo to Remain)



Photo # 2

View East of 'Eastern' Existing Docks to be Reconfigured at  
Proposed Location of Boat Launch & Negative Lifts



176 Newport Road, Suite 8  
New London, NH 03257  
(603) 877-0116

**31 LOVEJOY SANDS ROAD**  
**Meredith, NH**  
**Project Photos**  
**Project No. 20818**  
**Photo Date: 05/12/2020**



Photo # 3  
View South Along Shoreline at Existing Commercial Boat Launch  
(Proposed Location of Boat Launch & Negative Lifts)



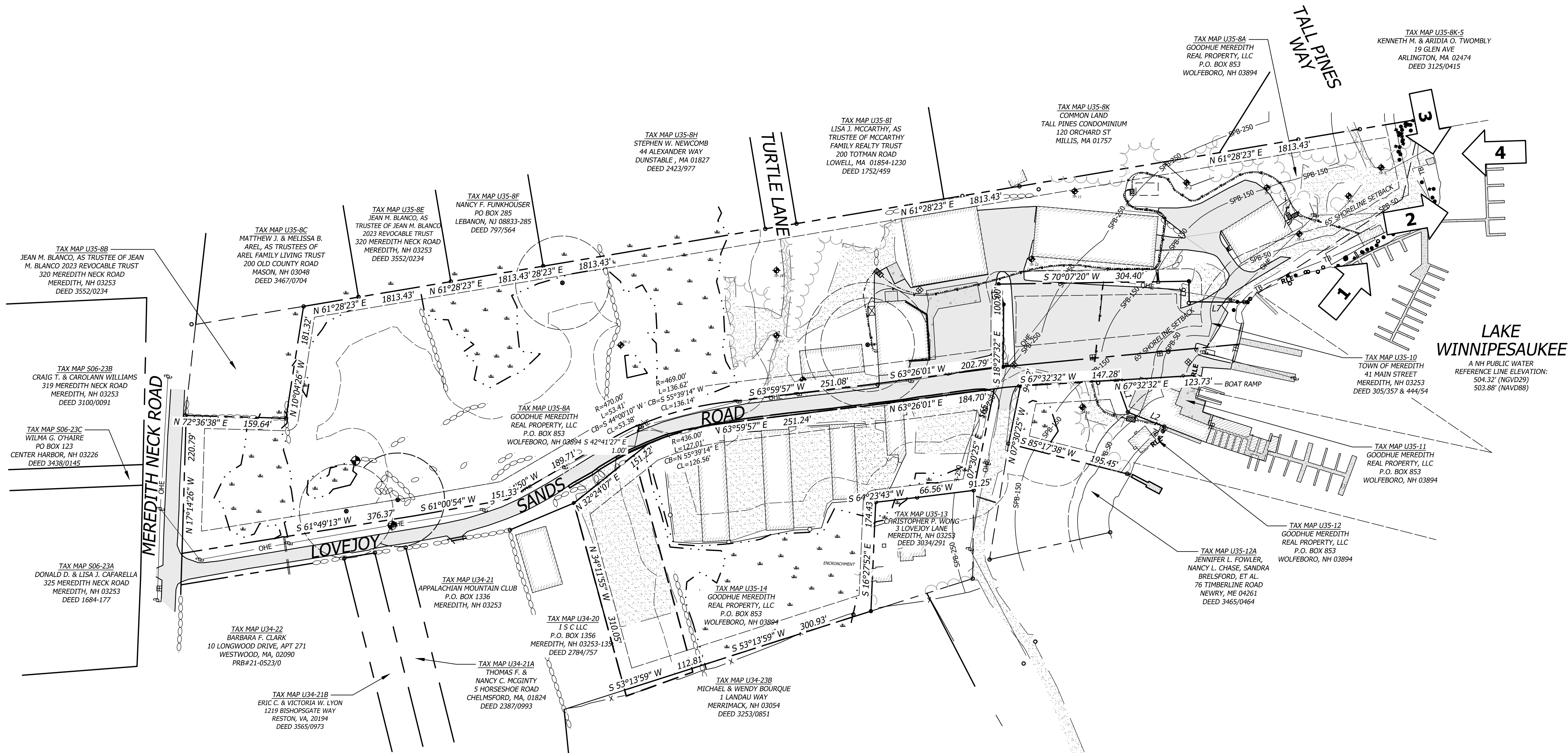
Photo # 4  
View West of Existing Commercial Boat Launch



176 Newport Road, Suite 8  
New London, NH 03257  
(603) 877-0116

**31 LOVEJOY SANDS ROAD**  
**Meredith, NH**  
**Project Photos**  
**Project No. 20818**  
**Photo Date: 05/12/2020**





FOR REVIEW  
NOT FOR CONSTRUCTION

DATE OF PRINT  
OCTOBER 26 2023  
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NEW LONDON NH • POMFRET VT • KENNEBUNK ME

GOODHUE MEREDITH, LLC

31 LOVEJOY SANDS ROAD  
SITE IMPROVEMENTS  
MEREDITH, NEW HAMPSHIRE

PHOTO LOCATION EXHIBIT

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE:	PROJECT #:
JUL 2020	20818
ENG'D BY:	DRAWN BY:
-	WAM
CHECK'D BY:	ARCHIVE #:
WTD	H-5620

PHOTO EXHIBIT A

### **4.3 USGS Site Locus Map**



Z:\proj\_2020\20818 Goodhue - 31 Lovejoy Sands\DWGS\1Base\20818\_USGS.dwg, USGS 2023 WET, 10/26/2023 12:21:41 PM, DrewMacDermott



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GOODHUE MEREDITH, LLC  
31 LOVEJOY SANDS ROAD  
MEREDITH, NEW HAMPSHIRE

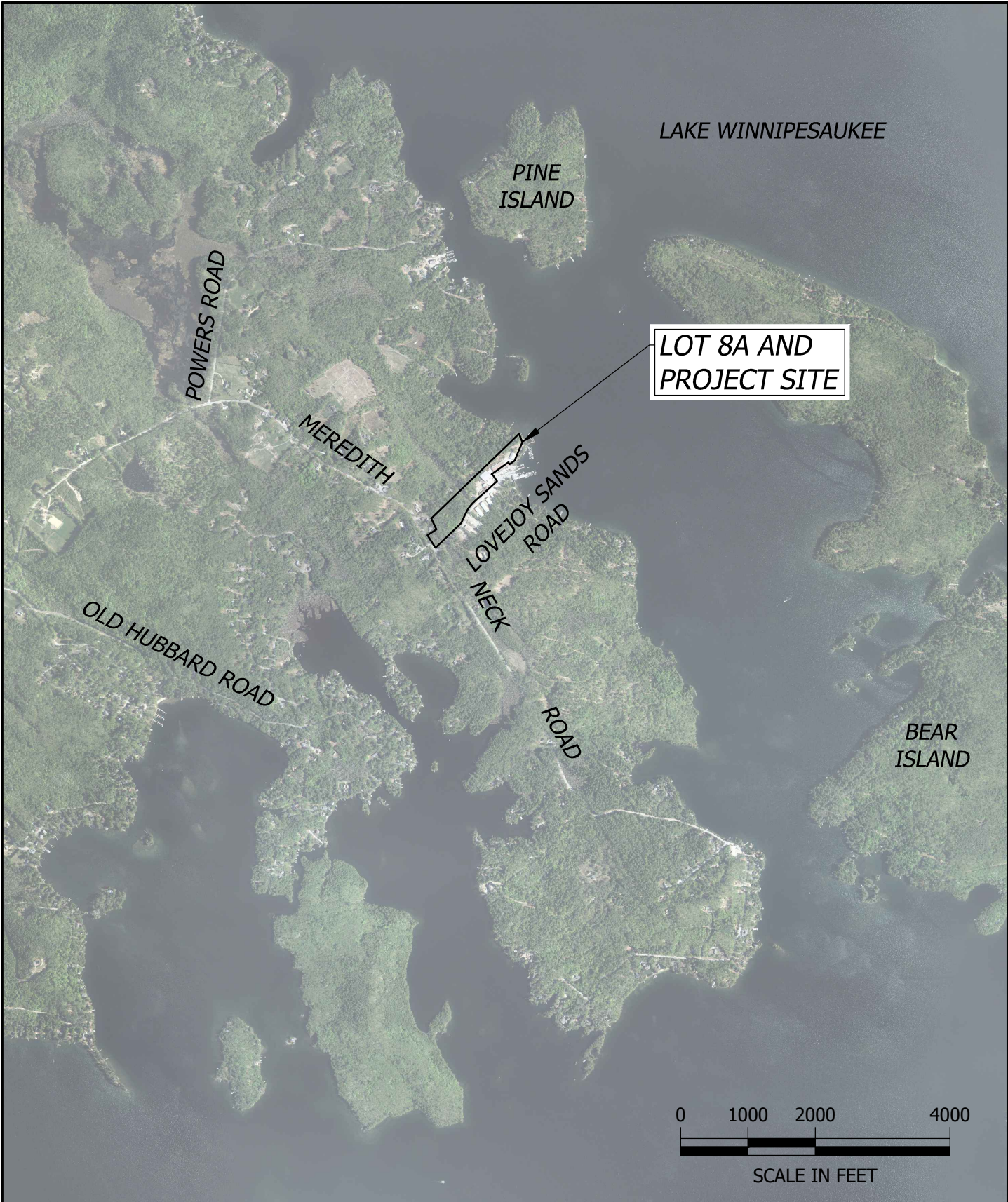
USGS LOCATION MAP



PROJECT #:	20818
ENGIN'D BY:	---
DRAWN BY:	WAM
DATE:	OCT 2023



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**horizons**  
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**31 LOVEJOY SANDS ROAD**

MEREDITH, NEW HAMPSHIRE

**AERIAL MAP**



PROJECT #:  
20818

ENGIN'D BY:  
---

DRAWN BY:  
WAM

DATE:  
OCT 2023

## **4.4 Construction Sequence**

**(See Plan Sheet C3.1)**



#### **4.5 Projects Identified in Env-Wt 600** (Not Applicable)

#### **4.6 Applicants Legal Interest in Subject Property** **(Not Applicable – Applicant is Owner)**

## **4.7 NHB Identification Number**

NHB23-3103

# New Hampshire Natural Heritage Bureau

## NHB DataCheck Results Letter

---

**To:** Drew MacDermott  
176 Newport Road  
Suite 8  
New London, NH 03257

**From:** NH Natural Heritage Bureau

**Date:** 10/25/2023 (This letter is valid through 10/25/2024)

**Re:** Review by NH Natural Heritage Bureau of request dated 10/25/2023

**Permit Types:** Shoreland Standard Permit  
Wetland Standard Dredge & Fill - Minor  
Meredith

**NHB ID:** NHB23-3103

**Applicant:** Drew MacDermott

**Location:** Meredith  
Tax Map: u35, Tax Lot: 8A  
Address: 31 Lovejoy Sands Road

**Proj. Description:** Partial removal of existing docks, expand length and width of existing commercial boat ramp (30' wide x 50' long, approx), new "negative lift" dug-in basin, and associated grading improvements.

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: NHB23-3103**



## **4.8 Conservation Commission Comments**

(See Section 1.5 – Wetland Application Narrative, Pg 2)

## **4.9 LAC Jurisdiction Comments** (Not Applicable)

## **4.10 Federal Comments**

(See Section 1.5 – Wetland Application Narrative, Pg 2)



**SECTION 5**  
**Env-Wt 307**  
**Permit Conditions Required for All Permits**

### **Env-Wt 307.03 Protection of Water Quality Required**

- (a) The project is not anticipated to cause an increase in storm water runoff to any wetlands. Hydraulic connections between wetland areas are maintained in the post-development condition. No pollution is anticipated as a result of the project. The project will not cause any violation to:

RSA 485-A

RA 485-B

RSA 485-C

- (b) Soil Stock piles will be located, and maintained with in the proposed disturbance area, so as to not impact or direct sediment to surface waters, beyond the project limits.
- (c) Water quality control measures have been selected based on characteristics of the site, and wildlife-friendly erosion control materials are to be used. Erosion control measures shall be installed prior to the start of work, in accordance with manufacturer's recommendations, and be maintained for continued effectiveness. Temporary erosion control measures shall remain in place until all disturbed surfaces are stabilized.
- (d) Sediment collected by erosion control measures will be assessed frequently and removed as needed and placed in upland areas to prevent sediment discharge to surface waters or wetlands.
- (e) Exposed soils, in areas with wetlands impacts shall be shall be stabilized within 3 days following final grading as noted within the construction sequence.
- (f) All work shall be completed during anticipated low-flow periods.
- (g) The construction sequence shown in this application as well as on the details of the design plans states no re-fueling of equipment shall occur within jurisdictional wetlands.
- (h) The construction sequence shown in the application as well in the details of the design plans state that no storage of fuel shall occur within 25 feet of jurisdictional wetlands.

### **Env-Wt 307.04 Protection of Fisheries and Breeding Areas Required**

- (a) The project will avoid and minimize discharges of dredged material or placement of fill material during spawning.
- (b) The proposed erosion control measures will mitigate the impact by suspended sediment during the construction activity.
- (c) The proposed erosion control measures will mitigate potential impacts in order to protect high quality waters.

### **Env-Wt 307.05 Protection Against Invasive Species Required**

- (a) Swamp Mats are not anticipated to be required for this project.
- (b) Equipment is not anticipated to be required to enter any streams or ponds as part of this work.
- (c) RSA 487:15-25 shall be met.

- (d) Construction of the project may involve a boat. No boat washing or rinsing shall occur in jurisdictional areas or in a location where run-off is likely to flow to any jurisdictional area.
- (e) A copy of the Invasive Plant BMP will be provided to the chosen contractor upon request. A note regarding invasive species is included on the design plans, within the Erosion Control Details and Notes.

### **Env-Wt 307.06 Protection of Rare, Threatened or Endangered Species and Critical Habitat**

No work is anticipated to impact any rare, threatened or endangered species or critical habitat. The NHB file review did not indicate the presence of endangered or threatened species in the area.

It should be noted that a review of the IPAC online web tool listed the Northern Long-eared Bat as potential endangered species in the area of the project. Based the consistency letter provided by the USFWS, will not affect the breeding or migration pattern of the bats.

### **Env-Wt 307.07 Shoreland Water Quality Protection Act**

The project area is within the 250-foot shoreland buffer of an identified water body subject to Shoreland Water Quality Protection Act (SWQPA) shall be conducted in compliance with applicable requirements of RSA 483-B and Env-Wq 1400 during and after construction.

### **Env-Wt 307.08 Protection of Designated Prime Wetlands**

- (a) The project as proposed does not impact designated prime wetlands or duly-established 100-foot buffers.

### **Env-Wt 307.09 Shoreline Structures**

- (a) The project as proposed does impact or include shoreland structures and will be constructed in accordance with Env-Wt 500.

### **Env-Wt 307.10 Dredging Activity Conditions**

- (a) The project as proposed will not violate RSA 485-A, B, or Env-Wq-1000.

### **Env-Wt 307.11 Filling Activity Conditions**

- (a) The project as proposed requires importing of only clean sand, gravel and rock in accordance with NHDOT specifications, and reuses only appropriate existing excavated materials.
- (b) The limits of the site disturbance as well as the disturbance limits for wetlands impacts are shown on the design plans.
- (c) Slope stabilization is not anticipated to be required for this project
- (d) Fill is not being used to achieve setbacks to septic systems as specified in Env-Wq 1000.
- (e) Fill is not being placed so as to direct flows onto abutting properties, flows will be directed to new approved treatment devices in accordance with Env-Wq 1500.
- (f) Swamp Mats or Construction Mats will not be required.
- (g) Temporary fill is not anticipated to be required for this project.
- (h) Temporary fill is not anticipated to be required for this project.
- (i) Corduroy fill is not anticipated to be required for this project.
- (j) No additional impacts or fill is anticipated to be placed in jurisdictional wetlands other than what is proposed in this application.
- (k) Swamp Mats are not required for this project.
- (l) No filling of the PRA is anticipated to be required for this project.

### **Env-Wt 307.12 Restoring Temporary Impacts**

Temporary impacts are anticipated for this project and will be restored in accordance with 307.12.

### **Env-Wt 307.13 Property Line Setbacks**

- (a) The project includes a major docking system reconfiguration at least 20 feet from abutting property lines.
- (b) – (g) Each impact is proposed to be localized to the lot which will occur more than 10 feet from the property line of each abutter.

### **Env-Wt 307.14 Rock Removal**

- (a) – (d) The project as proposed does not anticipate removal or blasting of rock within surface waters.

### **Env-Wt 307.15 Use of Heavy Equipment in Wetlands**

- (a) Heavy equipment will only be used to disturb wetlands as shown on the design plans within the impact areas within the project area.
- (b) Mobile Heavy equipment is not intended to be stored, re-fueled, or maintained within jurisdictional wetlands, as noted on the design plans.
- (c) The project does not propose heavy equipment operation in any other wetland that is not shown within the project disturbance limits.

- (d) Timber Mats are not anticipated to be required.
- (e) Swamp Mats are not anticipated to be required.

#### **Env-Wt 307.16 Adherence to Approved Plans Required**

- (a) The project intends to adhere to all approved plans.

#### **Env-Wt 307.17 Unpermitted Activities**

- (a) – (c) All work is intended to be permitted.

#### **Env-Wt 307.18 Reports**

- (a) Compensatory mitigation is not required; no report is applicable or proposed.
- (b) – (c) Construction timeline of the project is unknown at this time. A construction monitoring plan is not proposed unless required by permit condition.
- (d) A stream stability and status report is not anticipated to be required for this project.
- (e) An after-completion report will be submitted if required by permit condition.

## **SECTION 6**

# **Compensatory Mitigation Information**

(Not Applicable)

**SECTION 7**  
**Env-Wt 311.09**  
**Type of Resource**  
(Included in Section 1.5)

**SECTION 8**  
**Env-Wt 900**  
**Stream Crossings Information**  
(Not Applicable)



## SECTION 9

# Stream Crossing Worksheet

(Not Applicable)

# **SECTION 10**

## **Abutters List and Certified Mail Receipts**

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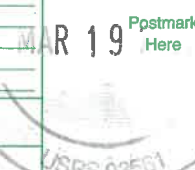
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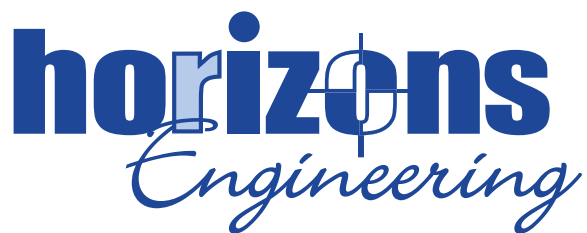
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### **ABUTTERS LIST**

#### **SUBJECT PROPERTY**

Map/Lot: U25 / 8A

Property Address: 31 Lovejoy Sands Road

Mailing Address:

Goodhue Meredith, LLC  
31 Lovejoy Sands Road  
Meredith, NH 03253

#### **ABUTTERS**

Map/Lot: U35 / 8B

Property Address: 320 Meredith Neck Rd

Mailing Address:

Jean M. Blanco, As Trustee  
of Jean M. Blanco 2023  
Revocable Trust  
320 Meredith Neck Road  
Meredith, NH 03253

Map/Lot: U35 / 8C

Property Address: 316 Meredith Neck Rd

Mailing Address:

Matthew J. & Melissa B.  
Arel, As Trustees Of Arel  
Family Living Trust  
200 Old County Rd  
Mason, NH 03048

Map/Lot: U35 / 8E

Property Address: Soley Lane

Mailing Address:

Jean M. Blanco, As Trustee  
of Jean M. Blanco 2023  
Revocable Trust  
320 Meredith Neck Road  
Meredith, NH 03253

Map/Lot: U35 / 8F

Property Address: Soley Lane

Mailing Address:

Nancy F. Funkhouser  
PO Box 285  
Lebanon, NJ 08833-0285

Map/Lot: U35 / 8H

Property Address: 5 Turtle Lane

Mailing Address:

Stephen W. Newcomb  
44 Alexander Way  
Dunstable, MA 01827

Map/Lot: U35 / 8I

Property Address: 6 Turtle Lane

Mailing Address:

Lisa J. McCarthy, As Trustee  
of McCarthy Family  
Realty Trust  
200 Totman Road  
Lowell, MA 01854-1230

NHDES Wetland Major Impact Permit Application  
Goodhue Meredith, LLC – 31 Lovejoy Sands Rd, Meredith, NH  
Abutter's List  
March 2024

Map/Lot: U35 / 8K Property Address: Meredith Neck Road	Mailing Address:	Tall Pines Condo Association C/O Mr. Robert Harlow 120 Orchard St Millis, MA 02054
Map/Lot: U35 / 8K-1 Property Address: 9 Tall Pines Way	Mailing Address:	Robert & Rita L. Harlow 120 Orchard St Millis, MA 02054
Map/Lot: U35 / 8K-2 Property Address: 9 Tall Pines Way	Mailing Address:	Eileen Crofts, Lenore Crofts, & James L. Crofts 7643 North Oriole Ave Niles, IL 60714
Map/Lot: U35 / 8K-3 Property Address: 9 Tall Pines Way	Mailing Address:	Cozy Harbor LLC PO Box 517 Charles Town, WV 25414
Map/Lot: U35 / 8K-4 Property Address: 9 Tall Pines Way	Mailing Address:	Leon J. & Doris P. Binkunski 22 Tarpon Dr Sea Girt, NJ 08750
Map/Lot: U35 / 8K-5 Property Address: 9 Tall Pines Way	Mailing Address:	Kenneth M. & Aridia O. Twombly 19 Glen Avenue Arlington, MA 02474
Map/Lot: U35 / 10 Property Address: Soley Lane	Mailing Address:	Town Of Meredith 41 Main Street Meredith, NH 03253-5861

**ENGINEER**

Horizons Engineering, Inc.

Mailing Address: 176 Newport Road, Suite 8  
New London, NH 03257

**SURVEYOR & WETLAND SCIENTIST**

Ames Associates, LLC

Mailing Address: 164 NH Route 25  
Meredith, NH 03253

**SOIL SCIENTIST**

Gove Environmental Services, Inc.  
James Gove, C.S.S.

Mailing Address: 8 Continental Drive  
Bldg 2, Unit H  
Exeter, NH 03833

**FUNCTIONAL ASSESSMENT CONSULTANT**

Ambit Engineering, Inc.  
Steven D. Riker

Mailing Address: 200 Griffin, Unit 3  
Portsmouth, NH 03801





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**VIA CERTIFIED MAIL**

March 18, 2024

Jean M. Blanco, As Trustee Of Jean M. Blanco 2023 Revocable Trust  
320 Meredith Neck Road  
Meredith, NH 03253  
Lot: U35 / 8B

**RE: NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith, LLC, will submit a Major Impact Wetlands permit application to the NH Department of Environmental Services associated with the above referenced project. The above referenced project is proposing to reconfigure the existing marina docking system which automatically qualifies as a Major Impact project. The existing commercial boat launch will be reconstructed and a new dug-in basin (“negative lift”) is proposed (removing majority of marina operations at Town parking lot and docks to the new boat launch and negative lift). Under state law RSA 482-A:3 I (d)(1), we are required to notify you about the application, which proposes work on a lot abutting your property.

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Respectfully,

A handwritten signature in black ink, appearing to read "Drew MacDermott".

Drew MacDermott  
Project Engineer

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Will Davis, PE, LEED AP  
Vice President

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**Horizons Engineering, Inc.**

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**VIA CERTIFIED MAIL**

March 18, 2024

Matthew J. & Melissa B. Arel, As Trustees Of Arel Family Living Trust  
200 Old County Rd  
Mason, NH 03048  
Lot: U35 / 8C

**RE: NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
Horizons Reference No. 20818

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**VIA CERTIFIED MAIL**

March 18, 2024

Jean M. Blanco, As Trustee Of Jean M. Blanco 2023 Revocable Trust  
320 Meredith Neck Road  
Meredith, NH 03253  
Lot: U35 / 8E

**RE: NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
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Vice President

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**VIA CERTIFIED MAIL**

March 18, 2024

Nancy F. Funkhouser  
PO Box 285  
Lebanon, NJ 08833-0285  
Lot: U35 / 8F

RE: **NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
Horizons Reference No. 20818

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Project Engineer

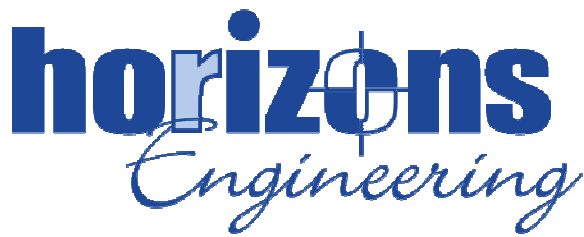
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Vice President

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**VIA CERTIFIED MAIL**

March 18, 2024

Stephen W. Newcomb  
44 Alexander Way  
Dunstable, MA 01827  
Lot: U35 / 8H

**RE: NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
Horizons Reference No. 20818

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**VIA CERTIFIED MAIL**

March 18, 2024

Lisa J. McCarthy, As Trustee Of McCarthy Family Realty Trust  
200 Totman Road  
Lowell, MA 01854-1230  
Lot: U35 / 8I

RE: **NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
Horizons Reference No. 20818

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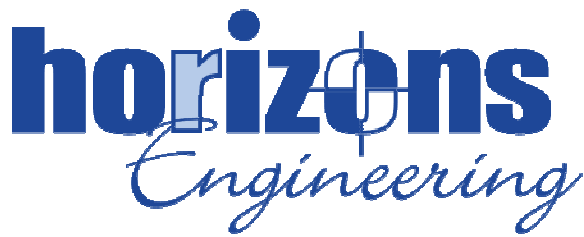
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**VIA CERTIFIED MAIL**

March 18, 2024

Tall Pines Condo Association, C/O Mr. Robert Harlow  
120 Orchard St  
Millis, MA 02054  
Lot: U35 / 8K

**RE: NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
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**VIA CERTIFIED MAIL**

March 18, 2024

Robert & Rita L. Harlow  
120 Orchard St  
Millis, MA 02054  
Lot: U35 / 8K-1

**RE: NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
Horizons Reference No. 20818

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**VIA CERTIFIED MAIL**

March 18, 2024

Eileen Crofts, Lenore Crofts, & James L. Crofts  
7643 North Oriole Ave  
Niles, IL 60714  
Lot: U35 / 8K-2

**RE: NHDES Wetlands Permit Application – Major Impact Permit**  
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**Tax Map U35, Lot 8A – Meredith, NH**  
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**VIA CERTIFIED MAIL**

March 18, 2024

COZY HARBOR LLC  
PO BOX 517  
Charles Town, WV 25414  
Lot: U35 / 8K-3

RE: **NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
Horizons Reference No. 20818

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**VIA CERTIFIED MAIL**

March 18, 2024

Leon J. & Doris P. Binkunski  
22 TARPON DR  
Sea Girt, NJ 08750  
Lot: U35 / 8K-4

**RE: NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
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**VIA CERTIFIED MAIL**

March 18, 2024

Kenneth M. & Aridia O. Twombly  
19 Glen Avenue  
Arlington, MA 02474  
Lot: U35 / 8K-5

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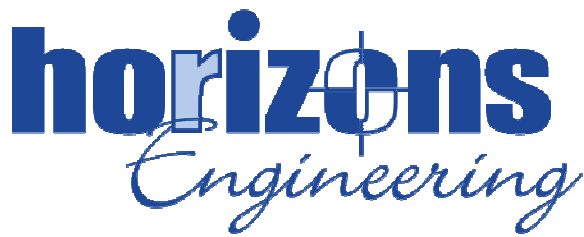
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Will Davis, PE, LEED AP  
Vice President

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**Horizons Engineering, Inc.**

**MAINE • NEW HAMPSHIRE • VERMONT**



176 Newport Road – Suite 8, New London, NH 03257 • Ph 603-877-0116 • Fax 603-444-1343 • [www.horizonsengineering.com](http://www.horizonsengineering.com)

**VIA CERTIFIED MAIL**

March 18, 2024

Town Of Meredith  
41 Main Street  
Meredith, NH 03253-5861  
Lot: U35 / 10

**RE: NHDES Wetlands Permit Application – Major Impact Permit**  
**Goodhue Meredith, LLC**  
**Tax Map U35, Lot 8A – Meredith, NH**  
Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith, LLC, will submit a Major Impact Wetlands permit application to the NH Department of Environmental Services associated with the above referenced project. The above referenced project is proposing to reconfigure the existing marina docking system which automatically qualifies as a Major Impact project. The existing commercial boat launch will be reconstructed and a new dug-in basin (“negative lift”) is proposed (removing majority of marina operations at Town parking lot and docks to the new boat launch and negative lift). Under state law RSA 482-A:3 I (d)(1), we are required to notify you about the application, which proposes work on a lot abutting your property.

Once it is filed, the permit application, including plans that show the proposed project will be available for viewing at the Town Clerk’s Office in Meredith, NH or at the NHDES offices by scheduling a file review by calling (603) 271-2919 or (603) 271-8808 between 8am-4pm Monday through Friday, or online through the NHDES Public Records Center system.

If you have any questions, please feel free to contact us at 603-877-0116 or [wdavis@horizonsengineering.com](mailto:wdavis@horizonsengineering.com) or [dmacdermott@horizonsengineering.com](mailto:dmacdermott@horizonsengineering.com).

Respectfully,

A handwritten signature in black ink, appearing to read "Drew MacDermott".

Drew MacDermott  
Project Engineer

A handwritten signature in blue ink, appearing to read "Will Davis".

Will Davis, PE, LEED AP  
Vice President

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**SECTION 11**  
**Env-Wt 700**  
**Prime Wetlands Information**  
(Not Applicable – Not Prime Wetlands)

## **SECTION 12**

# **Avoidance and Minimization Checklist**



# AVOIDANCE AND MINIMIZATION CHECKLIST

## Water Division/Land Resources Management Wetlands Bureau

[Check the Status of your Application](#)



**RSA/Rule:** RSA 482-A/ Env-Wt 311.07(d)

This checklist can be used in lieu of the written narrative required by Env-Wt 311.07(a) to demonstrate compliance with requirements for Avoidance and Minimization (A/M), pursuant to RSA 482-A:1 and Env-Wt 311.07(d).

"A/M BMPs" stands for [Wetlands Best Management Practice Techniques for Avoidance and Minimization](#) dated 2019, published by the New England Interstate Water Pollution Control Commission (Env-Wt 102.18).

"Practicable" means available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes (Env-Wt 103.62).

### SECTION 1 – CONTACT/LOCATION INFORMATION

APPLICANT LAST NAME, FIRST NAME, M.I.: GOODHUE MEREDITH REAL PROPERTY, LLC

PROJECT STREET ADDRESS: 31 LOVEJOY SANDS ROAD

PROJECT TOWN: MEREDITH

TAX MAP/LOT NUMBER: Map U35, Lot 8A

### SECTION 2 - PRIMARY PURPOSE OF THE PROJECT

Env-Wt 311.07(b)(1)	Indicate whether the primary purpose of the project is to construct a water-access structure or requires access through wetlands to reach a buildable lot or the buildable portion thereof.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------------	---	---

If you answered "no" to this question, describe the purpose of the "non-access" project type you have proposed.  
Reconstruct an existing commercial boat launch and construct a new dug-in basin ("negative lift") to relocate most marina launching operations from the Town Lovejoy Public Landing.

### SECTION 3 - AVOIDANCE PROJECT DESIGN TECHNIQUES

Check the appropriate boxes below in order to demonstrate that these items have been considered in the planning of the project. Use N/A (not applicable) for each technique that is not applicable to your project.

Env-Wt 311.07(b)(2)	For any project that proposes permanent impacts of more than one acre or that proposes permanent impacts to a Priority Resource Area (PRA), or both, whether any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, could be used to achieve the project's purpose without altering the functions and values of any jurisdictional area, in particular wetlands, streams, and PRAs.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
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[lrn@des.nh.gov](mailto:lrn@des.nh.gov) or (603) 271-2147

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Env-Wt 311.07(b)(3)	Whether alternative designs or techniques, such as different layouts, construction sequencing, or alternative technologies could be used to avoid impacts to jurisdictional areas or their functions and values on the subject property or on another property reasonably available to the applicant.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(1)	The results of the functional assessment required by Env-Wt 311.03(b)(10) were used to select the location of the proposed project having the least impact to wetland functions.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(2)	The proposed project has been designed to have the least impact to wetland functions.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(3)	Where impact to wetland functions is unavoidable, the proposed impacts are limited to the wetlands with the least valuable functions on the site while avoiding and minimizing impacts to the wetlands with the highest and most valuable functions.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.01(c)(1)-(2) Env-Wt 313.03(b)(1)	No practicable alternative would reduce adverse impact on the area and environments and the project will not cause random or unnecessary destruction of wetlands.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.01(c)(3)	The project would not cause or contribute to the significant degradation of waters of the state or the loss of any PRAs.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.03(b)(2)	The project avoids impacts to marshes that are documented to provide sources of nutrients for finfish, crustacea, shellfish, and wildlife of significant value.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.03(b)(3) Env-Wt 904.07(c)(8)	The project maintains hydrologic connectivity between adjacent wetlands or stream systems.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.01(b) Env-Wt 313.03(b)(4)	The project avoids and minimizes impacts to wetlands and other areas of jurisdiction under RSA 482-A, especially those in which there are exemplary natural communities, vernal pools, protected species and habitat, documented fisheries, and habitat and reproduction areas for species of concern.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.03(b)(5)	The project avoids and minimizes impacts that eliminate, depreciate, or obstruct public commerce, navigation, or recreation.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	Buildings and/or access are positioned away from high function wetlands or surface waters to avoid impact.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	The project clusters structures to avoid wetland impacts.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	The placement of roads and utility corridors avoids wetlands and their associated streams.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A

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A/M BMPs	Proposed utilities are suspended from bridges to avoid trenching through wetlands.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
A/M BMPs	The width of access roads or driveways is reduced to avoid and minimize impacts. Pullouts are incorporated in the design as needed.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
A/M BMPs	Retaining walls are proposed to avoid placing fill in wetlands. The retaining walls would not block hydrology or wildlife corridors.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
A/M BMPs	The project proposes bridges or spans instead of roads/driveways/trails with culverts.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
A/M BMPs	Natural topography is incorporated in the design to avoid grading.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
<b>SECTION 4 - MINIMIZATION DESIGN TECHNIQUES</b>		
Env-Wt 311.10	The project was designed to minimize impacts to higher-quality wetlands.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.01(b) Env-Wt 313.03(b)	The project was designed to minimize impacts to habitat, reproduction areas, fishery, vernal pools, or protected species or habitat.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
A/M BMPs	The project was designed to minimize the number of crossings and their size.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
A/M BMPs	Wetlands and streams are proposed to be crossed at their narrowest point.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 500 Env-Wt 600 Env-Wt 900	Wetland and stream crossings include features that accommodate aquatic organism passage and wildlife passage.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.01(c)(1) Env-Wt 313.03(b)(6)	The project was designed to avoid and minimize impacts to floodplain wetlands that provide flood storage.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.01(c)(1) Env-Wt 313.03(b)(7)	Impacts to natural riverine forested wetlands systems and scrub-shrub marsh complexes of high ecologic integrity are avoided and minimized.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.01(c)(1) Env-Wt 313.03(b)(8)	Impacts to wetlands that would be detrimental to drinking water supply and groundwater aquifer levels are avoided and minimized.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.01(c)(1) Env-Wt 313.03(b)(9)	Adverse impacts to stream channels and their ability to handle stormwater runoff are avoided and minimized.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 900	Stream crossings are sized to address hydraulic capacity and geomorphic compatibility.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A

A/M BMPs	Disturbed areas are used for crossings wherever practicable, including existing roadways, paths, or trails upgraded with new culverts or bridges.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
RSA 482-A:11, II	Project is designed to minimize impacts to abutting properties.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 307.13	Setbacks from property lines required by Env-Wt 307.13 are maintained.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
<b>SECTION 5 - RESOURCE-SPECIFIC DESIGN TECHNIQUES</b>		
Env-Wt 500	The project is designed to address resource-specific avoidance and minimization criteria for non-tidal jurisdictional areas.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 600	The project is designed to address resource-specific avoidance and minimization criteria for coastal lands and tidal waters/wetlands.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 307.08 Env-Wt 700	The project is designed to address resource-specific avoidance and minimization criteria for designated prime wetlands.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
<b>SECTION 6 - PROJECT-SPECIFIC DESIGN TECHNIQUES</b>		
Env-Wt 500	The project is designed to use techniques outlined in Env-Wt 500 for projects in non-tidal jurisdictional areas.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 600	The project is designed to use techniques outlined in Env-Wt 600 for projects in coastal lands and tidal waters/wetlands.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 900	The project is designed to use stream crossing techniques outlined in Env-Wt 900 for stream crossing projects.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A

## **SECTION 13**

### **Attachment A: 20 Question**



# STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION ATTACHMENT A: MINOR AND MAJOR PROJECTS



Water Division/Land Resources Management  
Wetlands Bureau

[Check the Status of your Application](#)

**RSA/ Rule:** RSA 482-A/ Env-Wt 311.10; Env-Wt 313.01(a)(1); Env-Wt 313.03

**APPLICANT LAST NAME, FIRST NAME, M.I.:** Goodhue Meredith Real Property, LLC

Attachment A can be used to satisfy some of the additional requirements for minor and major projects regarding avoidance and minimization, as well as functional assessment.

## PART I: AVOIDANCE AND MINIMIZATION

In accordance with Env-Wt 313.03(a), the Department shall not approve any alteration of any jurisdictional area unless the applicant demonstrates that the potential impacts to jurisdictional areas have been avoided to the maximum extent practicable and that any unavoidable impacts have been minimized, as described in the Wetlands Best Management Practice Techniques For Avoidance and Minimization.

### SECTION I.I - ALTERNATIVES (Env-Wt 313.03(b)(1))

Describe how there is no practicable alternative that would have a less adverse impact on the area and environments under the Department's jurisdiction.

THE APPLICANT IS PROPOSING THE MOST PRACTICABLE WATERCRAFT LAUNCHING LAYOUT GIVEN THE CONFLICTS WITH THE TOWN PARKING LOT PARCEL. THE PROPOSED DESIGN HAS BEEN CHOSEN AND DESIGNED TO MINIMIZE ADVERSE LACUSTRINE WETLAND IMPACTS AND TO MAINTAIN HYDROLOGIC CONNECTIONS OVER THE PROPERTY. THE PROJECT REPURPOSES AN EXISTING COMMERCIAL BOAT LAUNCH IN ORDER TO AVOID NEW SHORELINE AND LACUSTRINE WETLAND IMPACTS. THE PROPOSED LOCATION MINIMIZES TREE CLEARING AND MEETS NHDES SHORELINE TREE COUNT REQUIREMENTS.

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**SECTION I.II - MARSHES (Env-Wt 313.03(b)(2))**

Describe how the project avoids and minimizes impacts to tidal marshes and non-tidal marshes where documented to provide sources of nutrients for finfish, crustacea, shellfish and wildlife of significant value.

THIS PROJECT DOES NOT IMPACT TIDAL MARSHES OR NON-TIDAL MARSHES.

**SECTION I.III – HYDROLOGIC CONNECTION (Env-Wt 313.03(b)(3))**

Describe how the project maintains hydrologic connections between adjacent wetland or stream systems.

THIS PROJECT DOES NOT IMPACT WETLANDS ON LAND. THERE IS NO EVIDENCE OF STREAM FUNCTIONS.

**SECTION I.IV - JURISDICTIONAL IMPACTS (Env-Wt 313.03(b)(4))**

Describe how the project avoids and minimizes impacts to wetlands and other areas of jurisdiction under RSA 482-A, especially those in which there are exemplary natural communities, vernal pools, protected species and habitat, documented fisheries, and habitat and reproduction areas for species of concern, or any combination thereof.

THE PROJECT IS NOT ANTICIPATED TO IMPACT RARE OR SPECIAL CONCERN, STATE OR FEDERALLY LISTED THREATENED OR ENDANGERED SPECIES IF KNOWN TO OCCUR IN THE PROJECT AREA (NHB23-3103). NO VERNAL POOLS OR POTENTIAL VERNAL POOLS HAVE BEEN IDENTIFIED WITH THE PROJECT AREA.

**SECTION I.V - PUBLIC COMMERCE, NAVIGATION, OR RECREATION (Env-Wt 313.03(b)(5))**

Describe how the project avoids and minimizes impacts that eliminate, depreciate or obstruct public commerce, navigation, or recreation.

THE PROJECT INCLUDES A PARTIAL REMOVAL AND RECONFIGURATION OF THE EXISTING MAJOR DOCKING SYSTEM AND WILL NOT IMPACT, ELIMINATE, DEPRECIATE OR OBSTRUCT PUBLIC COMMERCE, NAVIGATION OR RECREATION. THE PROJECT HAS BEEN SPECIFICALLY DESIGNED TO IMPROVE BOAT LAUNCHING OPERATIONS AND BOAT NAVIGATION AND RECREATION WITH A PRIVATE LAUNCHING AREA SET FURTHER AWAY FROM THE EXISTING TOWN DOCKS, MINIMIZING POTENTIAL CONFLICTS. THE PROPOSED DOCKING LAYOUT IS SET OUTSIDE OF THE REQUIRED 20' ABUTTER SETBACKS.

**SECTION I.VI - FLOODPLAIN WETLANDS (Env-Wt 313.03(b)(6))**

Describe how the project avoids and minimizes impacts to floodplain wetlands that provide flood storage.

THE PROJECT WILL NOT HAVE ANY IMPACTS TO FLOODPLAIN WETLANDS.

**SECTION I.VII - RIVERINE FORESTED WETLAND SYSTEMS AND SCRUB-SHRUB –MARSH COMPLEXES (Env-Wt 313.03(b)(7))**

Describe how the project avoids and minimizes impacts to natural riverine forested wetland systems and scrub-shrub – marsh complexes of high ecological integrity.

THE PROJECT WILL NOT HAVE ANY IMPACTS TO RIVERINE FORESTED WETLAND SYSTEMS OR SCRUB-SHRUB-MARSH COMPLEXES.



**SECTION I.VIII - DRINKING WATER SUPPLY AND GROUNDWATER AQUIFER LEVELS (Env-Wt 313.03(b)(8))**

Describe how the project avoids and minimizes impacts to wetlands that would be detrimental to adjacent drinking water supply and groundwater aquifer levels.

THE PROJECT WILL NOT HAVE ANY IMPACTS TO DRINKING WATER SUPPLY OR GROUNDWATER AQUIFER LEVELS.

**SECTION I.IX - STREAM CHANNELS (Env-Wt 313.03(b)(9))**

Describe how the project avoids and minimizes adverse impacts to stream channels and the ability of such channels to handle runoff of waters.

THE PROJECT WILL NOT HAVE ANY IMPACTS TO STREAM CHANNELS.

**PART II: FUNCTIONAL ASSESSMENT****REQUIREMENTS**

Ensure that project meets requirements of Env-Wt 311.10 regarding functional assessment (Env-Wt 311.04(j); Env-Wt 311.10).

**FUNCTIONAL ASSESSMENT METHOD USED:**

US ACE Highway Methodology Workbook, dated 1993, together with the US ACE New England District Highway Method Workbook Supplement, dated 1999, both available as noted in Appendix B

NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: STEVEN D. RICKER, CWS; AMBIT ENGINEERING, INC.

DATE OF ASSESSMENT: 04/12/2021

Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT: ☒

For minor or major projects requiring a standard permit without mitigation, the applicant shall submit a wetland evaluation report that includes completed checklists and information demonstrating the RELATIVE FUNCTIONS AND VALUES OF EACH WETLAND EVALUATED. Check this box to confirm that the application includes this information, if applicable: ☒

Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.

## **SECTION 14**

# **Functional Assessment Results**

# **Wetland Functions and Values Assessment**

**Prepared for:  
Goodhue Meredith, LLC  
224 Sewall Road  
Wolfeboro, New Hampshire 03894**

**Property Located At:  
31 Lovejoy Sands Road  
Meredith, New Hampshire**

**Prepared By:  
Ambit Engineering, Inc  
200 Griffin, Unit 3  
Portsmouth, New Hampshire 03801**



**Date: April 12, 2021**

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## APPENDICES

Appendix A	Wetland Function-Value Evaluation Form
Appendix B	Photo Log
Appendix C	NH Natural Heritage Bureau Letter-NHB:20-1275

## INTRODUCTION

The applicant is proposing the reconfiguration of docking structures with associated boat slips and improvements to the existing boat launch located at 31 Lovejoy Sands Road, Meredith, New Hampshire. The project site is identified on Meredith Tax Map U35 as Lots 8A, 11, 12 & 14 and collectively are approximately 17.11+/- acres in size. As currently designed, the proposed project would require impacts to lacustrine wetlands associated with Lake Winnepesaukee.

The purpose of this report is to present the existing functions and values of the lacustrine wetlands and to assess any impacts the proposed project may have on their ability to continue to perform these functions and values. The wetlands associated with Lake Winnepesaukee on the subject parcel would be classified as lacustrine limnetic unconsolidated bottom cobble gravel wetland system that is permanently flooded (L1UB1H). The wetlands being impacted were assessed with consideration to their association with Lake Winnepesaukee and the larger lacustrine ecosystem and was not limited to the wetlands immediately on-site or directly adjacent to the site.

## METHODS

### DATA COLLECTION

The wetlands associated with this project area were identified and characterized through field survey and review of existing information. Steven D. Riker, NH Certified Wetland Scientist from Ambit Engineering, Inc. (Ambit) conducted site visits in March and April of 2021 to characterize the wetlands and collect the necessary information to complete a functions and values assessment. In addition, Ambit contacted the New Hampshire Natural Heritage Bureau (NHB) regarding existing information of documented rare species or natural communities within the vicinity of the project site.

### WETLAND FUNCTIONS AND VALUES ASSESSMENT

Ambit assessed the ability of the lacustrine wetlands to provide certain functions and values and analyzed the potential affects the proposed project may have on their ability to continue to provide those functions and values. Wetland functions and values were assessed using the *Highway Methodology Workbook, Wetland Functions and Values: A Descriptive Approach*.<sup>1</sup> This method bases function and value determinations on the presence or absence of specific criteria for each of the 13 wetland functions and values (see definitions below). These criteria are assessed through direct field observations and a review of existing resource maps and databases. As part of the evaluation, the most important functions and values associated with the on-site wetlands are identified. In addition, the ecological integrity of the wetlands is evaluated based on the existing levels of disturbance and the overall significance of the wetlands within the local watershed.

- ° **Groundwater Interchange (Recharge/Discharge)**

*This function considers the potential for the project area wetlands to serve as groundwater recharge and/or discharge areas. It refers to the fundamental interaction between wetlands and aquifers, regardless of the size or importance of either.*

- ° **Floodwater Alteration (Storage and Desynchronization)**

*This function considers the effectiveness of the wetlands in reducing flood damage by attenuating floodwaters for prolonged periods following precipitation and snow melt events.*

- ° **Fish and Shellfish Habitat**

*This function considers the effectiveness of seasonally or permanently flooded areas within the subject wetlands for their ability to provide fish and shellfish habitat.*

- ° **Sediment/Toxicant Retention**

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<sup>1</sup> U.S. Army Corps of Engineers. 1999. *The Highway Methodology Workbook Supplement, Wetland Functions and Values: A Descriptive Approach*. U.S. Army Corps of Engineers. New England Division. 32pp. NAEPP-360-1-30a.

*This function reduces or prevents degradation of water quality. It relates to the effectiveness of the wetland to function as a trap for sediments, toxicants, or pathogens, and is generally related to factors such as the type of soils, the density of vegetation, and the position in the landscape.*

° **Nutrient Removal/Retention/Transformation**

*This wetland function relates to the effectiveness of the wetland to prevent or reduce the adverse effects of excess nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers, or estuaries.*

° **Production Export (Nutrient)**

*This function relates to the effectiveness of the wetland to produce food or usable products for humans or other living organisms.*

° **Sediment/Shoreline Stabilization**

*This function considers the effectiveness of a wetland to stabilize stream banks and shorelines against erosion, primarily through the presence of persistent, well-rooted vegetation.*

° **Wildlife Habitat**

*This function considers the effectiveness of the wetland to provide habitat for various types and populations of animals typically associated with wetlands and the wetland edge. Both resident and/or migrating species must be considered.*

° **Recreation (Consumptive and Non-Consumptive)**

*This value considers the suitability of the wetland and associated watercourses to provide recreational opportunities such as hiking, canoeing, boating, fishing, hunting, and other active or passive recreational activities.*

° **Educational/Scientific Value**

*This value considers the effectiveness of the wetland as a site for an "outdoor classroom" or as a location for scientific study or research.*

° **Uniqueness/Heritage**

*This value relates to the effectiveness of the wetland or its associated water bodies to provide certain special values such as archaeological sites, unusual aesthetic quality, historical events, or unique plants, animals, or geologic features.*

° **Visual Quality/Aesthetics**

*This value relates to the visual and aesthetic qualities of the wetland.*

° **Endangered Species Habitat**

*This value considers the suitability of the wetland to support threatened or endangered species.*

## **FUNCTIONS AND VALUES ASSESSMENT**

Results of the wetland functions and values assessment are presented below. This assessment includes a discussion of potential changes to existing wetland functions and values that may occur as a result of the proposed project:

### **Groundwater Interchange (Recharge/Discharge)**

Because there is no identified sand and gravel aquifer underlying the project area, and the wetlands are not underlain by sands or gravel, it is unlikely that significant groundwater recharge is occurring within the tidal wetlands.

### **Floodwater Alteration (Storage and Desynchronization)**

The wetlands associated with Lake Winnepesaukee receive floodwaters from the surrounding watershed and connected waterways; therefore, is considered a principal function considering the large size of the watershed, contributing waterways (tributaries), and the lake basin itself.

### **Fish and Shellfish Habitat**

The wetland does provide extensive fish habitat for numerous cold and warm water species, is associated with numerous tributaries that support fish populations; therefore, is considered a principal function.

**Sediment/Toxicant Retention**

The wetland exhibits long duration water retention time, contains slow moving or deep water habitat, and provides effective floodwater storage; therefore, is considered a principal function.

**Nutrient Removal/Retention/Transformation**

The wetland exhibits long duration water retention time, contains slow moving or deep water habitat therefore, is considered a principal function.

**Production Export (Nutrient)**

Production export is a wetland function that typically occurs in the form of nutrient or biomass transport via watercourses, foraging by wildlife species, and removal of timber and other natural products. Because the wetland provides fish and wildlife habitat, recreational fishing opportunities, nutrients are transferred over several trophic levels in the marine ecosystem, this is considered a principal function.

**Sediment/Shoreline Stabilization**

Due to the lacustrine nature of the wetland, presence of open water fetch, boating activity, wave action and a distinct shoreline that is stabilized by trees and other woody vegetation; sediment/shoreline stabilization is considered a principal function.

**Wildlife Habitat**

Lake Winnepesaukee provides a variety of habitats for numerous avian, mammal, reptile and amphibian species; therefore would be considered a principal function.

**Recreation (Consumptive and Non-Consumptive)**

Lake Winnepesaukee provides a variety of consumptive and non-consumptive recreational opportunities including hunting, fishing, bird watching, boating, kayaking, swimming; therefore, would be considered a principal function.

**Education/Scientific Value**

Lake Winnepesaukee and the greater wetland ecosystem contains multiple areas of public access for educational purposes, provides valuable habitats for protected species, making this a principal value.

**Uniqueness/Heritage**

Lake Winnepesaukee is unique to New Hampshire and the greater New England region. Additionally, there are pre and post-colonial historical components associated Lake Winnepesaukee and the surrounding areas making this a principal value.

**Visual Quality/Aesthetics**

Lake Winnepesaukee provides aesthetically pleasing views and vistas from surrounding uplands as well as from the water, making this a principal function.

**Endangered Species Habitat**

An online inquiry with NHB provided a negative result for the occurrence of protected species in the project area.

**PROPOSED IMPACTS**

This report is accompanying a New Hampshire Department of Environmental Services (NHDES) Major Impact Wetland Permit Application request to reconfigure existing docking structures associated with subject property. The property currently contains 8,801 sq. ft. of docking structure (surface area over jurisdictional wetland) which provides 102 boat slips. Under proposed conditions, the reconfiguration will maintain the area of docking structure and also provide the same number of boat slips (See Overview & Existing Conditions and Site Plans, Prepared by Horizons Engineering, dated July 2020). The project also proposes improvements to the existing boat launch located on the property. The existing docking structures are pile supported and the reconfigured docks will also be supported by wood piles.



## SUMMARY AND CONCLUSIONS

The jurisdictional wetlands to be impacted are part of a greater lacustrine wetland system associated with Lake Winnepesaukee and provides eleven principal functions and values when evaluated as a whole. These principal functions and values include: floodflow alteration, fish and shellfish habitat, sediment/toxicant retention, nutrient removal/retention, production export, sediment/shoreline stabilization, wildlife habitat, recreation, education/scientific value, uniqueness/heritage, and visual quality aesthetics. While the entire wetland system provides these principal functions and values, the proposed impacts associated with the dock reconfiguration and improvements to the existing boat launch will not have any effect on its ability to continue to provide them.

The proposed dock reconfiguration and boat launch improvements do not add any additional surface area over the jurisdictional wetland than what currently exists, and direct impacts have been minimized to the greatest extent practicable, while allowing reasonable use of the property. The proposed docking structures will be constructed on piles within the wetland further reducing permanent impacts. The docking structures will not contribute to additional storm water or pollution. It is anticipated that there will be no effect on any fish or wildlife species that currently use the site for food, cover, and/or habitat. The docking structures will not impede existing currents, hydrologic flow or alter hydrology, it will not deter use by wildlife species that currently use the wetland area, and it will not impede any migrational fish movement.

The docking structures have been designed and reconfigured to provide boating access and slip space utilizing the existing areas of the current use. There is no grading of the shoreline required to construct the new docks. There will be no construction activity that will disturb the area adjacent to the use. A majority of the work to install new piles for the dock reconfiguration will be performed from a crane barge eliminating the potential for erosion or sedimentation. The barge floats into position and the piles are driven by the crane. This method eliminates any contact of construction equipment with the protected resource.













Based on our assessment of the current functions and values, the proposed reconfiguration of the existing docking structures and proposed improvements to the existing boat launch; it is our belief that the proposed project will have no significant impact on the wetlands or greater lacustrine systems ability to continue to provide the current functions and values.

## **APPENDIX A**

### **WETLAND FUNCTION - VALUE EVALUATION FORM**

## Wetland Function – Value Evaluation Form

<b>Wetland Description:</b> Wetland A is a lacustrine wetland associated with Lake Winnepesaukee (L1UB1H).	<b>File number:</b> 3321	
	<b>Wetland identifier:</b> Wetland A	
	Latitude:X:1,047,620.76	Longitude:Y:419,379
	<b>Preparer(s):</b> Ambit Engineering, Inc.	
	200 Griffin Road, Unit 3, Portsmouth, NH 03801	
	<b>Date:</b> April 6, 2021	

Function/Value	Capability Y N		Summary	Principal Yes/No
 Groundwater Recharge/Discharge		X	This wetland does not possess the characteristics needed to provide this function as there are no identified underlying sand or gravel aquifers.	—
 Floodwater Alteration	X		The wetlands associated with Lake Winnepesaukee receive floodwaters from the surrounding watershed and connected waterways.	Y
 Fish and Shellfish Habitat	X		The wetland does provide extensive fish habitat for numerous cold and warm water species, is associated with numerous tributaries that support fish populations.	Y
 Sediment/Toxicant Retention	X		The wetland exhibits long duration water retention time, contains slow moving or deep water habitat, and provides effective floodwater storage.	Y
 Nutrient Removal	X		The wetland exhibits long duration water retention time, contains slow moving or deep water habitat.	Y
 Production Export	X		The wetland provides fish and wildlife habitat, recreational fishing opportunities, nutrients are transferred over several trophic levels in the marine ecosystem.	Y
 Sediment/Shoreline Stabilization	X		The wetland provides open water fetch, boating activity, wave action and a distinct shoreline that is stabilized by trees and other woody vegetation.	Y
 Wildlife Habitat	X		Lake Winnepesaukee provides a variety of habitats for numerous avian, mammal, reptile and amphibian species.	Y
 Recreation	X		Lake Winnepesaukee provides a variety of consumptive and non-consumptive recreational opportunities including hunting, fishing, bird watching, boating, kayaking, swimming.	Y
 Education/Scientific Value	X		Lake Winnepesaukee and the greater wetland ecosystem contains multiple areas of public access for educational purposes, provides valuable habitats for protected species.	Y
 Uniqueness/Heritage	X		Lake Winnepesaukee is unique to New Hampshire and the greater New England region. Additionally, there are pre and post-colonial historical components associated Lake Winnepesaukee and the surrounding areas.	Y
 Visual Quality/Aesthetics	X		Lake Winnepesaukee provides aesthetically pleasing views and vistas from surrounding uplands as well as from the water.	Y
<b>ES</b> Endangered Species Habitat	X		An online inquiry with NHB provided a negative result for the occurrence of protected species in the project area.	—

Notes:

\* Attach list of considerations.

## **APPENDIX B**

### **PHOTO LOG**

Site Photograph #1

March 2021



Site Photograph #2

March 2021





Site Photograph #3

March 2021



Site Photograph #4

March 2021





Site Photograph #5

March 2021



Site Photograph #6

March 2021





Site Photograph #7

March 2021



Site Photograph #8

March 2021





Site Photograph #9

April 2021



Site Photograph #10

April 2021





Site Photograph #11

April 2021



Site Photograph #12

April 2021



## **APPENDIX C**

### **NEW HAMPSHIRE NATURAL HERITAGE BUREAU CORRESPONDENCE**



## New Hampshire Natural Heritage Bureau

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**To:** Drew MacDermott  
PO Box 1825  
176 Newport Road  
New London, NH 03257

**Date:** 5/6/2020

**From:** NH Natural Heritage Bureau

**Re:** Review by NH Natural Heritage Bureau of request dated 5/6/2020

NHB File ID: NHB20-1275

Applicant: Drew MacDermott

**Location:** Tax Map(s)/Lot(s): MAP U35, LOTS 8A, 11, 12 & 14  
Meredith

**Project Description:** Waterfront improvements at active existing marina including new docking structures, boat lifts, a boat launch, and an indoor boat storage facility.

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.

This report is valid through 5/5/2021.





**MAP OF PROJECT BOUNDARIES FOR NHB FILE ID: NHB20-1275**

