NHDES SHORELAND PERMIT APPLICATION



GOODHUE MEREDITH REAL PROPERTY, LLC 31 LOVEJOY SANDS ROAD Meredith, New Hampshire

NHDES SHORELAND PERMIT APPLICATION

FOR

GOODHUE MEREDITH REAL PROPERTY, LLC 31 LOVEJOY SANDS ROAD Meredith, New Hampshire

MARCH 2024

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Horizons Engineering, Inc.

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SHORELAND APPLICATION





SHORELAND PERMIT APPLICATION

Water Division/ Land Resources Management Shoreland Program



File No.:

Check the Status of your Application

RSA/Rule: RSA 483-B, Env-Wq 1400

Administrative	Adm	inistrative			Che	Check No.:	
Use Only		Use Only		Use Only		Amount:	
					Initi	Initials:	
This is an application for a permit to excavate, fill, construct new structures, or remove structures within the protected shoreland as regulated under RSA 483-B.							
SECTION 1 - PROJECT DESCRIPTION (Env-Wq 1406.07)							
Provide a concise description of the proposed project: THIS PROJECT INCLUDES BOAT LAUNCHING AND DOCKING IMPROVEMENTS. THE PURPOSE IS TO RELOCATE WATERCRAFT LAUNCHING OPERATIONS AND RECONFIGURE A PORTION OF THE EXISTING MAJOR DOCKING SYSTEM. THE EXISTING COMMERCIAL BOAT LAUNCH WILL BE RECONSTRUCTED AND A NEGATIVE LIFT/WELL IS PROPOSED WHICH WILL REQUIRE A DUG-IN BASIN AS PART OF THE LAUNCHING IMPROVEMENTS. SHORELAND IMPACTS BETWEEN RLE & TOP OF BANK ARE EXEMPTED, PER Env-Wq 1406.02(B)(2).							
SECTION 2 - PROJECT LOCATION (Env-Wq 1406.07)							
ADDRESS: 31 Lovejoy Sands Road			TOW	/N/CITY: MEREDITH	STATE: NH	l	ZIP CODE: 03253
WATERBODY NAME: LAKE WINNIPESAUKEE TAX MAP/ BLOCK/LOT NUMBER : U35 / 8A							
SECTION 3 - PROPERTY OWNER & DEED INFORMATION (Env-Wq 1406.07) The legal name of each property owner must be as it appears on the deed of record. If the owner is a trust or a company, then the name of the trust or company should be written as the owner's name.							
LAST NAME, FIRST NAME, M.I: Goodhue Meredith Real Property, LLC							
MAILING ADDRESS: 31 Lovejo	AILING ADDRESS: 31 Lovejoy Sands Road			TOWN/CITY: Meredith	STATE: N	1	ZIP CODE: 03253
PHONE: 603-279-4573	EMAIL (if available): codyg@goodhueboat.com						
REGISTRY OF DEED COUNTY Belknap, BOOK NUMBER 3123, PAGE NUMBER 110							
SECTION 4 - APPLICANT (DESIRED PERMIT HOLDER), IF DIFFERENT THAN OWNER (Env-Wq 1406.07) If the applicant is a trust or a company, then the name of the trust or company should be written as the applicant's name. If the applicant is the owner, leave blank and check the following box:							
LAST NAME, FIRST NAME, M.I:							
MAILING ADDRESS:		TOW	/N/CITY:	STATE:		ZIP CODE:	

PHONE:		EMAIL (if available):				
SECTION 5 - CONTRACTOR OR AGENT (OPTIONAL)						
LAST NAME, FIRST NAME, M	1.I: Davis, Will	T.; Horizons E	ngineering, Inc.			
ADDRESS: 176 Newport Road, Suite 8			TOWN/CITY: New	v London	STATE: NH	ZIP CODE: 03257
PHONE: 603-877-0116		EMAIL (if ava	ilable): wdavis@ho	orizonsengi	neering.com	
SECTION 6 - CRITERIA (Env-Wq 1406.07)						
Please check at least one of the following criteria: This shoreland permit application requires neither a proposal to make the property more nearly conforming nor a request for a waiver of a minimum standard. This shoreland permit application includes a proposal to make the structures and/or the property more nearly conforming in accordance with RSA 483-B:11. This shoreland permit application includes a request for a waiver of the following minimum standard(s): RSA 483-B:9, V SECTION 7 - RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT (Env-Wq 1406.14)						
Please indicate if any of the following permits are required and, if required, the status of the application. Permit Type Permit Required File Number Permit Application Status						
Alteration of Terrain Permit per RSA 485-A:17		⊠ NO	The real section of the section of t	APPROVED PENDING DENIED		
Individual Sewerage Disposal per RSA 485-A:29	YES	⊠ NO		APPROVED PENDING DENIED		
Subdivision Approval per RSA 485-A:29	YES	⊠ NO		APPROVED PENDING DENIED		DING DENIED
Wetlands Permit per RSA 482-A	⊠ YES	□NO		APPR	OVED 🔀 PENI	DING DENIED
SECTION 8 - REFERENCE LINE ELEVATION (Env-Wq 1406.07) Required for projects located on the protected shoreland of lakes or ponds. The reference line elevations for most lakes, ponds, and artificial impoundments greater than 10 acres in size are listed in the Consolidated List of Waterbodies Subject to the Shoreland Water Quality Protection Act. Please see RSA 483-B:4, XVII for the definition of reference line.						
REFERENCE LINE ELEVATION: 503.88 (NAVD88) feet above sea level.						
SECTION 9 - APPLICATION FEE & SUBMITTAL (RSA 483-B:5-b, I(b); RSA 483-B:5-b, X)						
A non-refundable permit application fee of \$200 plus \$0.20 per total square feet of impact for restoration of water quality improvement projects, or \$400 plus \$0.20 per total square feet of impact for all other projects is required at						

quality improvement projects, or \$400 plus \$0.20 per total square feet of impact for restoration of water quality improvement projects, or \$400 plus \$0.20 per total square feet of impact for all other projects is required at the time the application is submitted. **Applications for projects solely funded by municipal, county, state, or federal entities shall incur a permitting fee no greater than \$3,750.**

Please mail or hand deliver this application and all required attachments to the NHDES Wetlands Bureau, PO Box 95, Concord, NH 03302-0095. Missing information will delay processing your application and may result in denial of a shoreland permit application. **Please make checks payable to the Treasurer, State of NH**.

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SECTION 10 - CALCULATING TOTAL IMPACT AREA/ PERMIT APPLICATION FEE (RSA 483-B:5-b, I(b); RSA 483-B:5-b, X)					
construction construction	ct area is calculated by determining the sun on, or structure removal. Impacts often including on new structures, areas disturbed when ins dis to drill a new well, and regrading associa	ude, but are not limited to: constructing no stalling septic systems and foundations, cr	ew driveways,		
TOTAL ARE	A IMPACTED WITHIN THE PROTECTED SHO	RELAND = 4,010 (A) square feet			
• For res	toration of water quality improvement pro	ojects:			
Mι	Multiply line (A) by \$0.20 and add \$200. [(A) × \$0.20 + \$200] = \$ Permit fee ¹				
• For all	other projects:				
М	ultiply line (A) by \$0.20 and add \$400. [(A) :	\times \$0.20 + \$400] = \$ 1,202.00 Permit fee ¹			
SECTION 1	1 - REQUIRED CERTIFICATIONS (Env-Wq 14	06.08; Env-Wq 1406.10(a))			
By initialing	g within the blank before each of the follow	ring statements, and signing below, you a	re certifying that:		
Initials: CG	The information provided is true complete, and not misleading to the knowledge and helief of the signer				
Initials: CG	to revocation. • I am subject to the applicable pen	ed on false, incomplete, or misleading informal alties in RSA 641, Falsification in Official N not exempt the work proposed from othe	latters. And		
Initials: I have notified the governing body of the municipality or municipalities in which the property is located by certified mail, in accordance with Env-Wq 1406.13.					
Initials: CG	I I have notitied all abutters' of the proposed impacts via certified mail, in accordance with Env-Wg 1406.13.				
Initials: CG This project is within ¼ mile of a designated river and I have notified the Local River Management Advisory Committee (LAC) by providing the LAC with a copy of the complete application, including all supporting materials, via certified mail, in accordance with Env-Wq 1406.13. This project is not within ¼ mile of a designated river.					
Initials: For any project proposing that the impervious area be at least 15% but not more than 20% within the protected shoreland, I certify that the impervious area is not more than 20%. N/A					
SECTION 12 - REQUIRED SIGNATURES (Env-Wq 1406.08)					
Both the property owner and applicant must sign the application.					
SIGNATURE (OWNER)		PRINT NAME LEGIBLY: CODY GRAY	DATE: 03/11/24		
SIGNATURE (APPLICANT, A DIFFERENT FROM OWNER):		PRINT NAME LEGIBLY:	DATE: 03/18/2023		

¹ Applications for projects solely funded by municipal, county, state, or federal entities shall incur a permitting fee no greater than \$3,750.

² "Abutter" means any person who owns property that is immediately contiguous to the property on which the proposed work will take place, or who owns flowage rights on such property. The term does not include those properties separated by a public road or more than ¼ mile from the limits of the proposed work. If contiguous properties are owned by the person who is proposing the work, then the term includes the person owning the next contiguous property, subject to the ¼ mile limitation.

SHORELAND WORKSHEET



SHORELAND APPLICATION WORKSHEET

This worksheet *must* be submitted to the NHDES Wetlands Bureau with every Shoreland Permit Application. A separate shoreland application worksheet must be submitted for each individual lot of record where impacts are proposed.

For the purposes of this worksheet, "**pre-construction**" impervious surface area³ means all human made impervious surfaces⁴ currently present within the protected shoreland of a lot, whether to be removed or to remain after the project is completed. "**Post-construction**" impervious area means all impervious surfaces that will exist within the protected shoreland of a lot upon completion of the project, including both new and any remaining pre-construction impervious surfaces. All answers shall be given in square feet.

Calculating the Impervious Area of a Lot

CALCULATING THE IMPERVIOUS AREA OF A LOT WITHIN 250 FEET OF THE REFERENCE LINE (Env-Wq 1406.12)				
	STRUCTURE DESCRIPTION	PRE-CONSTRUCTION IMPERVIOUS AREAS	POST-CONSTRUCTION IMPERVIOUS AREAS	
PRIMARY STRUCTURE(S) House and all attached decks and porches.	PRIMARY STRUCTURES	14,062 FT ²	14,062 FT ²	
ACCESSORY STRUCTURES All other impervious surfaces	ACCESSORY STRUCTURES	0 FT ²	0 FT ²	
excluding lawn furniture, well heads, and fences. Common accessory structures include, but are not limited to: driveways, walkways, patios, and sheds.	DRIVEWAYS	41,480 FT ²	41,446 FT ²	
	WALKS/RET WALLS/PADS	29 FT ²	53 FT ²	
		FT ²	FT ²	
		FT ²	FT ²	
		FT ²	FT ²	
	(B) 55,561 FT ²			
Area of the lot located within 25	(C) 99,421 FT ²			
Percentage of lot covered by pre-construction impervious area within 250 feet of the reference line: [divide (A) by (C) x 100]			(D) 55.9 %	
Percentage of lot to be covered by reference line upon completion of [divide (B) by (C) x 100]	(E) 55.9 %			

³ "Impervious surface area" as defined in Env-Wq 1402.13 means, for purposes of the impervious surface limitation specified in RSA 483-B:9, V(g), the sum total of the footprint of each impervious surface that is located within the protected shoreland.

shoreland@des.nh.gov or (603) 271-2147
NHDES Shoreland Program, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
http://www.des.nh.gov

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⁴ "Impervious Surface" as defined in RSA 483-B:4, VII-b means any modified surface that cannot effectively absorb or infiltrate water. Examples of impervious surfaces include, but are not limited to, roofs, and unless designed to effectively absorb or infiltrate water, decks, patios, and paved, gravel, or crushed stone driveways, parking areas, and walkways.

Stormwater Management Requirements

THE IMPERVIOUS AREA THRESHOLDS (RSA 483-B:9, V(g))				
A net decrease or no net increase in impervious area is proposed (If line E is less than or equal to line D).				
The percentage of post-construction impervious area (line E) is less than or equal to 20%.				
This project does not require a stormwater management plan and does not require a plan demonstrating that each waterfront buffer grid segment at least meets the minimum required tree and sapling point score.				
A net increase in impervious area is proposed and the percentage of post-construction impervious area (line E) is greater than 20%, but less than 30%.				
This project requires a stormwater management but, does not require a plan demonstrating that each waterfront buffer grid segment at least meets the minimum required tree and sapling point score.				
See details on the Application Checklist				
A net increase in impervious area is proposed and the percentage of post-construction impervious area (line E) is greater than 30%.				
This project requires a stormwater management plan designed and certified by a professional engineer and requires plans demonstrating that each waterfront buffer grid segment meets at least the minimum required tree and sapling point score.				
See details on the Application Checklist				

Natural Woodland Area Requirement

DETERMINING THE AREA TO REMAIN AS NATURAL WOODLAND			
Total area of the lot between 50 feet and 150 feet of the reference line within which the vegetation currently exists as natural woodland ⁵ (see definition below).	(F)	3,759 FT ²	
Total area of the lot between 50 feet and 150 feet from the reference line.	(G)	44,789 FT ²	
At least 25% of area (G) must remain in as natural woodland. [0.25 x G]	(H)	11,197 FT ²	
Place the lesser of area (F) and calculation (H) on this line. In order to remain compliant with the natural woodland area requirement , this is the minimum area that must remain as natural woodland between 50 feet and 150 feet from the reference line. This area must be represented on all plans and this area, exclusive of existing lawn, must remain in an unaltered state ⁶ .	(1)	3,759 FT ²	
Name of person who prepared this worksheet: Drew MacDermott, PE			
Name and date of the plan this worksheet is based upon: Local & State Tables, Nov 2023			

⁵ "Natural Woodland" means a forested area consisting of various species of trees, saplings, shrubs, and ground covers in any combination and at any stage of growth (483-B:4, XI).

⁶ "Unaltered State" means native vegetation allowed to grow without cutting, limbing, trimming, pruning, mowing, or other similar activities except as needed for renewal or to maintain or improve plant health (483-B:4, XXIV-b).

COPY OF CHECK



DBA SHEP BROWN'S BOAT BASIN

6991

Treasurer - State of NH

Invoice No.

feesmeredith

Inv Date

02/22/2024 feesmeredithpermits 02/22/2024 Description

Shoreline Fee Goodhue Wetland Fee Goodhue Me Check No. 6991

Discount Taken Amount Paid

\$0.00 \$0.00 \$1,202.00

\$37,872.80

PRODUCT SSLB120

USE WITH 91564 ENVELOPE

Deluxe Corporation 1-800-328-0304 or www.deluxe.com/shop

Check Total

\$39,074.80

GOODHUE MEREDITH LLC

31 LOVEJOY SANDS RD MEREDITH, NH 03253

54-7293/2117

PRINTED IN U.S.A.

Check Date 02/23/24

02/23/2024

\$39,074.80

6991

Security features. Details on back

Pay to the

Order of

Treasurer - State of NH

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

Treasurer - State of NH



AGENT AUTHORIZATION



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 <u>Horizons Engineering, Inc.</u> 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

ATTACHMENT A RECORDED DEED OF CURRENT PROPERTY OWNER



BK 03123 PG 00110 E # 1708693

08/21/2017 2:47:35 PM
BK: 3123 PG: 110 PAGE 1 OF 5
REGISTER OF DEEDS, BELKNAP COUNTY
JUDITH A. MCGRATH

Judith a M Heath L-CHIP BEA087035



WARRANTY DEED \$ 63.750 00

DEEP WATER MARINE MANAGEMENT, INC., a New Hampshire corporation, with a place of business at 12 Ridgeline Loop, Gilford, Belknap County, New Hampshire 03249, for consideration paid, grants to **GOODHUE MEREDITH REAL PROPERTY, LLC**, a New Hampshire limited liability company, with a mail address of P.O. Box 853, Wolfeboro, Carroll County, New Hampshire 03894, with **WARRANTY COVENANTS**,

Four certain lots, with the buildings and other improvements thereon, situate at 2 Lovejoy Lane (Tax Map U35-12), 19 Lovejoy Sands Road (Tax Map U35-14), 20 Lovejoy Sands Road (Tax Map U35-8A), and 31 Lovejoy Sands Road (Tax Map U35-11) in Meredith, Belknap County, New Hampshire, as shown on a "Boundary Survey, Land of Deepwater Marine Management, Inc., Tax Map U35, Lots 8A, 11, 12 & 14, Lovejoy Sands Road, Town of Meredith, Belknap County, New Hampshire" dated August 14, 2017 and recorded on August 17, 2017 at Plan Drawer L78, Page 65, being more particularly described as follows:

2 Lovejoy Lane (Tax Map U35-12)

Beginning at a 5/8" capped rebar labeled "DMC Surveyors" on the southerly side of Lovejoy Sands Road and being the northerly corner of the herein described lot; thence turning S 38° 42' 49" E and running 54.29' by Tax Map U35-11 to a rebar; thence turning S 87° 19' 02" E and running 24.72' by Tax Map U35-11 to a point; thence turning S 87° 19' 02" E and running 37.95' by Tax Map U35-11 to a rebar; thence turning S 00° 14' 59" W and running 7.47' by Tax Map U35-11 to a rebar; thence turning S 60° 09' 44" E and running 3', more or less, by Tax Map U35-11 to the shore of Lake Winnipesaukee; thence turning southeasterly and running by the shore of Lake Winnipesaukee to a point;

thence turning S 85° 17' 38" W and running a short distance to an iron rod;

1

the tie course between the last mentioned rebar and iron rod being S 20° 49' 16" W a distance of 89.21';

thence continuing S 85° 17' 38" W and running 195.45' by Tax Map U35-12A to an iron bolt; thence turning N 07° 30' 25" W and running 94.02' by Lovejoy Lane to a rebar; thence turning N 66° 16' 45" E and running 6.72' by Lovejoy Sands Road to a rebar; thence turning N 67° 32' 32" E and running 147.28' by Lovejoy Sands Road to the point of beginning.

Said lot contains 0.57 acres, more or less.

Reference is also made hereby to a Boundary Line Agreement between Elizabeth M. Sweetser and Winnifred V. Cullen recorded at Book 246, Page 134.

Subject to that 2014 Boundary Line Agreement between Deep Water Marine Management, Inc. and Deep Water Marine Management, Inc. recorded at Book 2900, Page 871.

Also conveying all of the Borrower's interest in littoral rights related to the subject property. See Restrictive Covenant of Deep Water Marine Management, Inc., Christopher A. Goddard, Denise J. Goddard, Jennifer Fowler, Robert N. Goddard, Karen P. Goddard, Nancy Chase, Gardner P. Chase and Sandra Brelsford recorded June 10, 2015, in Book 2973, Page 723.

2 Lovejoy Lane is the same premises described in deed of Brian Moriarty to Deep Water Marine Management, Inc. dated November 25, 2002, recorded in Book 1816, Page 733, Belknap County Registry of Deeds.

19 Lovejoy Sands Road - Tax Map U35-14

Beginning at a rebar at the northeasterly corner of the within described parcel at the southwesterly corner of Lovejoy Sands Road and Lovejoy Lane; thence turning S 07° 30' 25" E and running 165.74' by Lovejoy Lane to an iron rod; thence turning S 63° 49' 45" W and running 91.25' by Tax Map U35-13 to an iron pipe; thence turning S 64° 23' 43" W and running 66.56' by Tax Map U35-13 to an iron pipe; thence turning S 16° 27' 52" E and running 174.43' by Tax Map U35-13 to a rebar; thence turning S 53° 13' 59" W and running 300.93' by Tax Map U34-23B to a point; thence continuing S 53° 13' 59" W and running 112.81' by Tax Map U34-23B to a point; thence turning N 34° 11' 55" W and running 310.05' by Tax Map U34-20 to a rebar; thence turning N 32° 24' 07" E and running 151.22' by Lovejoy Sands Road to a rebar; thence turning northeasterly and running along the arc of a curve having a radius of 436.00' a distance of 127.01' by Lovejoy Sands Road to a rebar; thence turning N 63° 59' 57" E and running 251.24' by Lovejoy Sands Road to a rebar; thence turning N 63° 26' 01" E and running 184.70' by Lovejoy Sands Road to the point of beginning.

Said lot contains 4.30 acres, more or less.

20 Lovejoy Sands Road - Tax Map U35-8A

Beginning at a point on the northerly side of Lovejoy Sands Road at the intersection of Lovejoy Sands Road and Meredith Neck Road;

thence turning N 17° 14' 26" W and running 220.79' by Meredith Neck Road to an iron pipe set at the intersection of a stonewall;

thence turning N 72° 36' 38" E and running 159.64' by Tax Map U35-8B to a point at an intersection of stonewalls;

thence turning N 10° 04' 26" W and running 181.32' by Tax Map U35-8B to an iron pipe; thence turning N 61° 28' 23" E and running 1,813.43' by Tax Map U35-8C, U35-8E, U35-8F, U35-8H, U35-8I, U35-8K and U35-8K-5 to an iron pipe;

thence continuing N 61° 28' 23" E and running 5.5', more or less, to the shore of Lake Winnipesaukee;

thence turning southeasterly and southwesterly and running by the shore of Lake Winnipesaukee to point;

thence turning S 71° 23' 46" W and running 7', more or less, by Tax Map U35-10 to an iron pipe; the tie lines between the last two mentioned iron pipes being S 05° 51' 46" E a distance of 131.79' to a rebar and S 37° 51' 03" W a distance of 302.08';

thence continuing S 71° 23' 46" W and running 88.25' by Tax Map U35-10 to an iron pipe;

thence turning N 19° 52' 40" W and running 33.00' by Tax Map U35-10 to a rebar;

thence turning S 70° 07' 20" W and running 304.40' by Tax Map U35-10 to a rebar; thence turning S 32° 49' 12" E and running 33.35' by Tax Map U35-10 to a rebar;

thence turning S 18° 27' 32" E and running 100.00' by Tax Map U35-10 to a rebar;

thence turning S 63° 26' 01" W and running 202.79' by Lovejoy Sands Road to an iron pipe;

thence turning S 63° 59' 57" W and running 251.08' by Lovejoy Sands Road to a rebar;

thence turning southwesterly and running along the arc of a curve having a radius of 469.00' a distance of 136.62' by Lovejoy Sands Road to a point;

thence turning N 42° 41' 27" W and running 1.00' by Lovejoy Sands Road to a point; thence turning southwesterly and running along the arc of a curve having a radius of 470.00' a distance of 53.41' by Lovejoy Sands Road to a rebar;

thence turning S 40° 44' 50" W and running 189.71' by Lovejoy Sands Road to a rebar; thence turning S 61° 00' 54" W and running 151.33' by Lovejoy Sands Road to a rebar;

thence turning S 61° 49' 13" W and running 376.37' by Lovejoy Sands Road to the point of beginning.

Said lot contains 12.00 acres, more or less.

31 Lovejoy Sands Road (Tax Map U35-11)

Beginning at a 5/8" capped rebar labeled "DMC Surveyors" on the southerly side of Lovejoy Sands Road and being the westerly corner of the herein described lot;

thence turning S 38° 42' 49" E and running 54.29' by Tax Map U35-12 to a rebar;

thence turning S 87° 19' 02" E and running 24.72' by Tax Map U35-12 to a point;

thence turning S 87° 19' 02" E and running 37.95' by Tax Map U35-12 to a rebar;

thence turning S 00° 14' 59" W and running 7.47' by Tax Map U35-12 to a rebar;

thence turning S 60° 09' 44" E and running 3', more or less, by Tax Map U35-12 to the shore of Lake Winnipesaukee;

thence turning northerly, easterly, northerly, westerly, northerly, westerly, northerly, westerly and northerly by "existing shop/office" and the shore of Lake Winnipesaukee to Lovejoy Sands Road;

the direct tie course between the last two mentioned points being S 10° 06' 16" W a distance of 101 60'.

thence turning S 67° 32' 32" W and running 123.73' to the point of beginning.

Said lot contains 0.23 acres, more or less.

19, 20 and 31 Lovejoy Sands Road are the same premises described in deed of Marina Cove Associates to Deep Water Marine Management, Inc. dated November 25, 2002, recorded at Book 1816, Page 728, Belknap County Registry of Deeds.

All of the above properties are conveyed together with any and all rights, rights of way, and easements benefitting the same.

SUBJECT TO and WITH THE BENEFIT OF the Easement Agreement between Marina Cove Associates and the Town of Meredith recorded in the Belknap County Registry of Deeds on November 15, 2002, at Book 1813, Page 237.

Also subject to the following:

- 1. Encroachments, utility easements and rights of way as shown on the Plan;
- 2. The effect, if any, of conditions recited in the deed of George P. Kimball to Elizabeth D. Embler dated July 30, 1925 pertaining to the "reserved" parcel and the parcel lying between the "reserved" parcel and Lake Winnipesaukee. See also the deed of Stuart M. Link to the Town of Meredith dated August 17, 1948, recorded in said Registry at Book 305, Page 35, which states that no buildings shall be erected on the land described and conveyed in the deed lying between land formerly of Brown and the Lake to be used for garage or mercantile purposes, as amended in an Indenture dated May 24, 1958, recorded in said Registry at Book 388, Page 29;

- 3. Boundaries of Lovejoy Sands Road shown on the Plan.
- Boundary Line Agreement by and between Deep Water Marine Management, Inc. as owner of TM U-35, Lot 11 and Deep Water Management, Inc. as owner of TM U-35, Lot 12 dated February 3, 2014, recorded in Book 2900, Page 871.

This deed is signed this ______day of August, 2017, by William G. Littlefield, Jr., the duly authorized President of Deep Water Marine Management, Inc.

Deep Water Marine Management, Inc.

Name: William G. Littlefield,

Its: President

STATE OF NEW HAMPSHIRE COUNTY OF CARROLL

On this ______day of August, 2017, personally appeared before me, William G. Littlefield, Jr., known to me (or satisfactorily proven to be) the person whose name appears subscribed to the within instrument, and acknowledged that he is the President of Deep Water Marine Management, Inc. and that he executed the instrument for the purposes contained therein on behalf of Deep Water Marine Management, Inc. as its President.

Notary Public/Sustice of the Peace

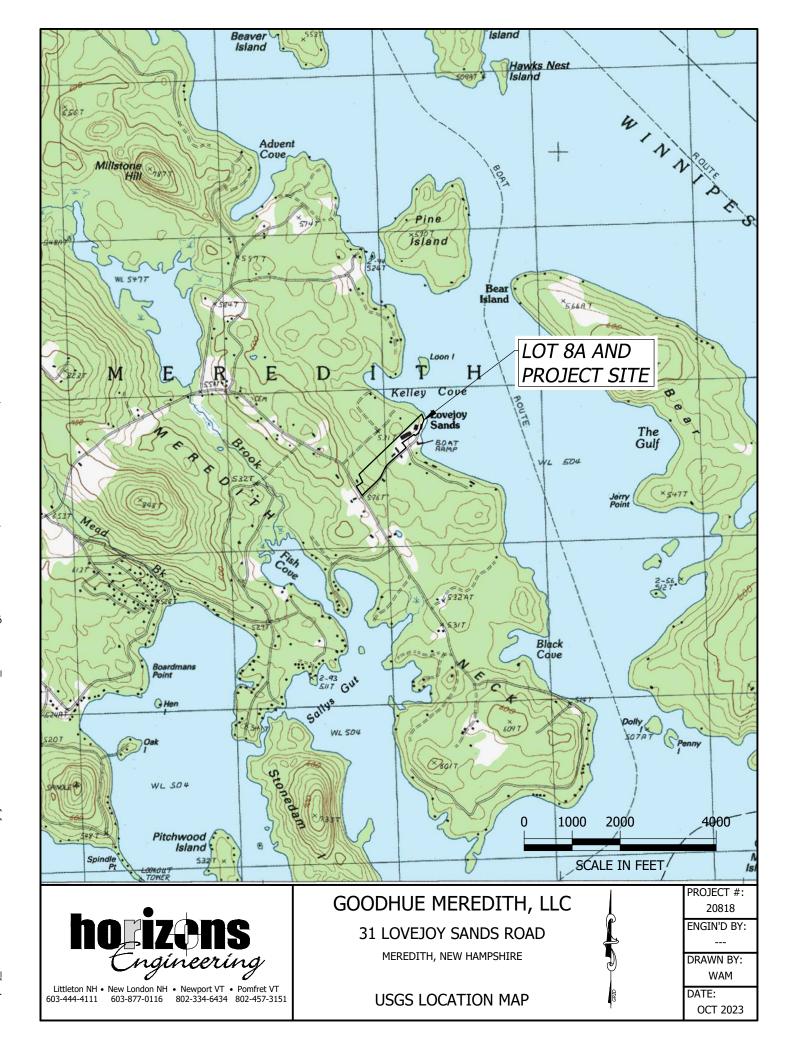
Type/Print Name:

My Commission Expires:

Edmund S. Hibbard NOTARY PUBLIC - NEW HAMPSHIRE My Commission Expires January 28, 2020

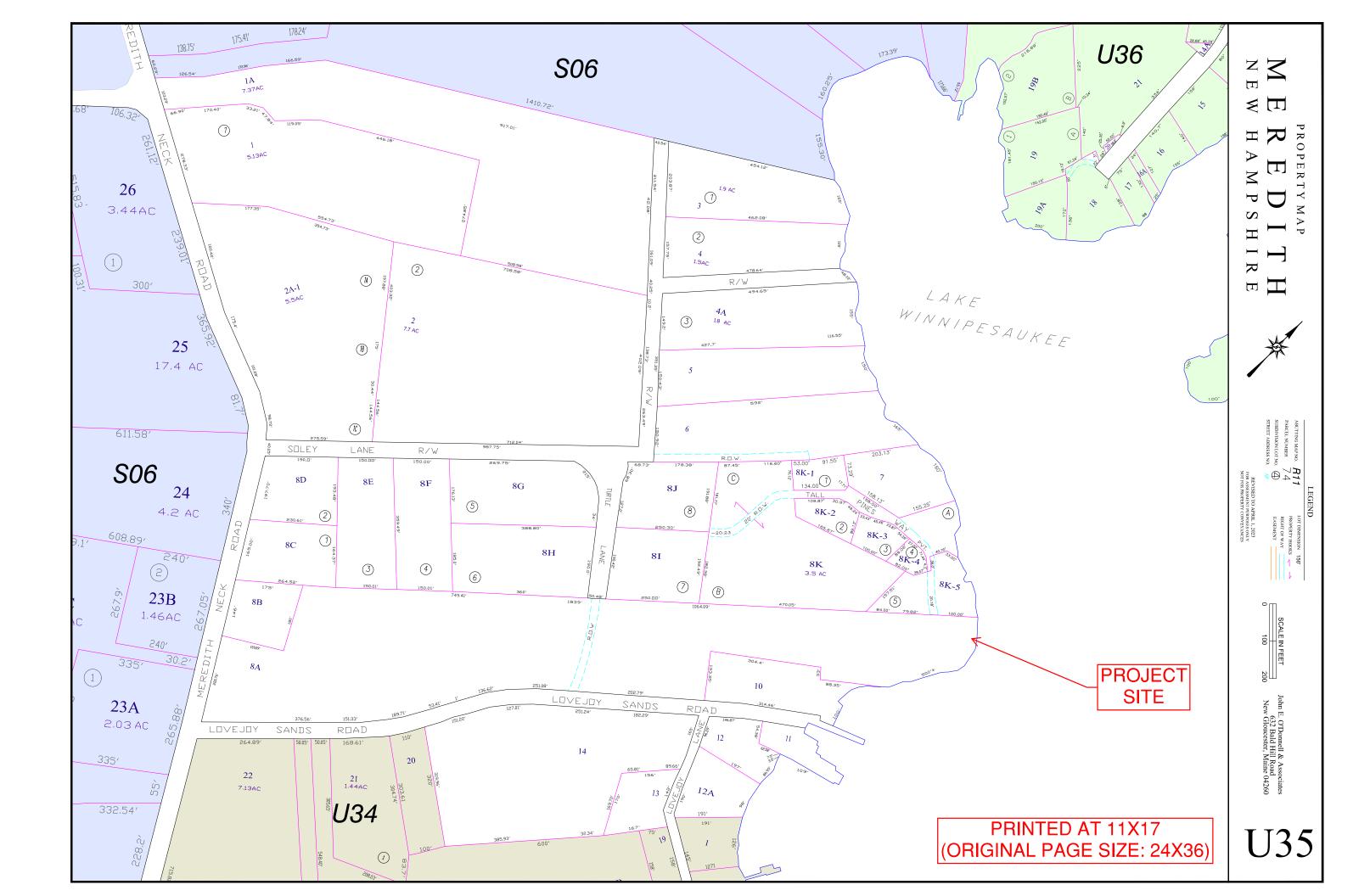
ATTACHMENT B USGS SURVEY MAP





ATTACHMENT C TAX MAP EXHIBIT





ATTACHMENT D SITE PHOTOS





Photo #1 View North of Existing Building "B-6" and Existing Trees Along Shoreline (Existing Docks in Photo to Remain)

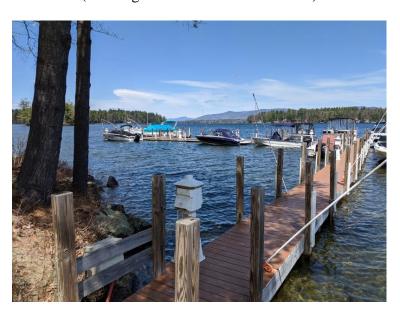


Photo #2 View East of 'Eastern' Existing Docks to be Reconfigured at Proposed Location of Boat Launch & Negative Lifts



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)

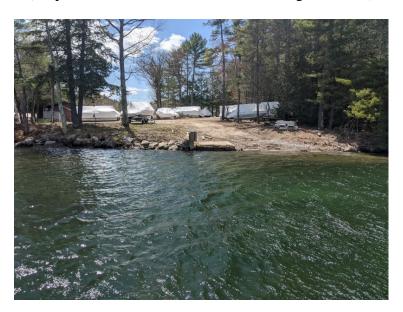


Photo # 4 View West of Existing Commercial Boat Launch



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

ATTACHMENT E NHB REPORT



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.

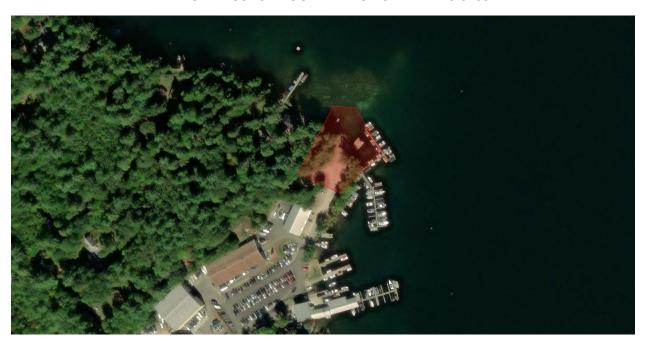
The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded 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



ATTACHMENT F ABUTTERS LIST





176 Newport Road - Suite 8, New London, NH 03257 • Ph 603-877-0116 • Fax 603-444-1343 • www.horizonsengineering.com

ABUTTERS LIST

SUBJECT PROPERTY

Map/Lot: U25 / 8A Mailing Address: Goodhue Meredith, LLC

Property Address: 31 Lovejoy Sands Road 31 Lovejoy Sands Road

Meredith, NH 03253

ABUTTERS

Map/Lot: U35 / 8B Mailing Address: Jean M. Blanco, As Trustee

Property Address: 320 Meredith Neck Rd of Jean M. Blanco 2023

Revocable Trust

320 Meredith Neck Road Meredith, NH 03253

Map/Lot: U35 / 8C Mailing Address: Matthew J. & Melissa B.

Property Address: 316 Meredith Neck Rd Arel, As Trustees Of Arel

Family Living Trust 200 Old County Rd Mason, NH 03048

Map/Lot: U35 / 8E Mailing Address: Jean M. Blanco, As Trustee

Property Address: Soley Lane of Jean M. Blanco 2023

Revocable Trust

320 Meredith Neck Road Meredith, NH 03253

Map/Lot: U35 / 8F Mailing Address: Nancy F. Funkhouser

Property Address: Soley Lane PO Box 285

Lebanon, NJ 08833-0285

Map/Lot: U35 / 8H Mailing Address: Stephen W. Newcomb

Property Address: 5 Turtle Lane 44 Alexander Way
Dunstable, MA 01827

Map/Lot: U35 / 8I Mailing Address: Lisa J. McCarthy, As Trustee

Property Address: 6 Turtle Lane 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 Mailing Address: Tall Pines Condo Association

Property Address: Meredith Neck Road C/O Mr. Robert Harlow

120 Orchard St Millis, MA 02054

Map/Lot: U35 / 8K-1 Mailing Address: Robert & Rita L. Harlow

Property Address: 9 Tall Pines Way 120 Orchard St Millis, MA 02054

Map/Lot: U35 / 8K-2 Mailing Address: Eileen Crofts, Lenore Crofts,

Property Address: 9 Tall Pines Way & James L. Crofts

7643 North Oriole Ave

Niles, IL 60714

Map/Lot: U35 / 8K-3 Mailing Address: Cozy Harbor LLC

Property Address: 9 Tall Pines Way

PO Box 517

Charles Town, WV 25414

Map/Lot: U35 / 8K-4 Mailing Address: Leon J. & Doris P. Binkunski

Property Address: 9 Tall Pines Way

22 Tarpon Dr
Sea Girt, NJ 08750

Map/Lot: U35 / 8K-5 Mailing Address: Kenneth M. & Aridia O.

Property Address: 9 Tall Pines Way

Twombly
19 Glen Avenue
Arlington, MA 02474

Map/Lot: U35 / 10 Mailing Address: Town Of Meredith

Property Address: Soley Lane 41 Main Street

Meredith, NH 03253-5861



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

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. Mailing Address: 8 Continental Drive

James Gove, C.S.S.

Bldg 2, Unit H
Exeter, NH 03833

FUNCTIONAL ASSESSMENT CONSULTANT

Ambit Engineering, Inc.

Mailing Address: 200 Griffin, Unit 3

Steven D. Riker Portsmouth, NH 03801



ATTACHMENT G CERTIFIED ABUTTER MAILING LETTER & RECEIPTS



U.S. Postal Service*

CERTIFIED MAIL® RECEIPT

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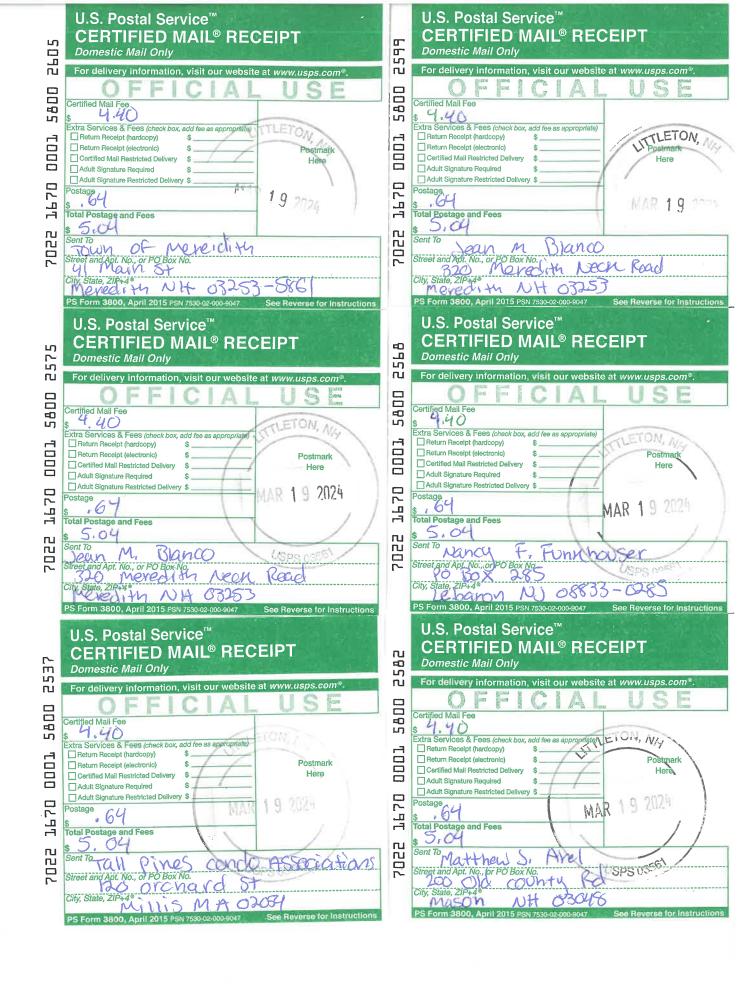
Street and Apt. No., or PO Box No.

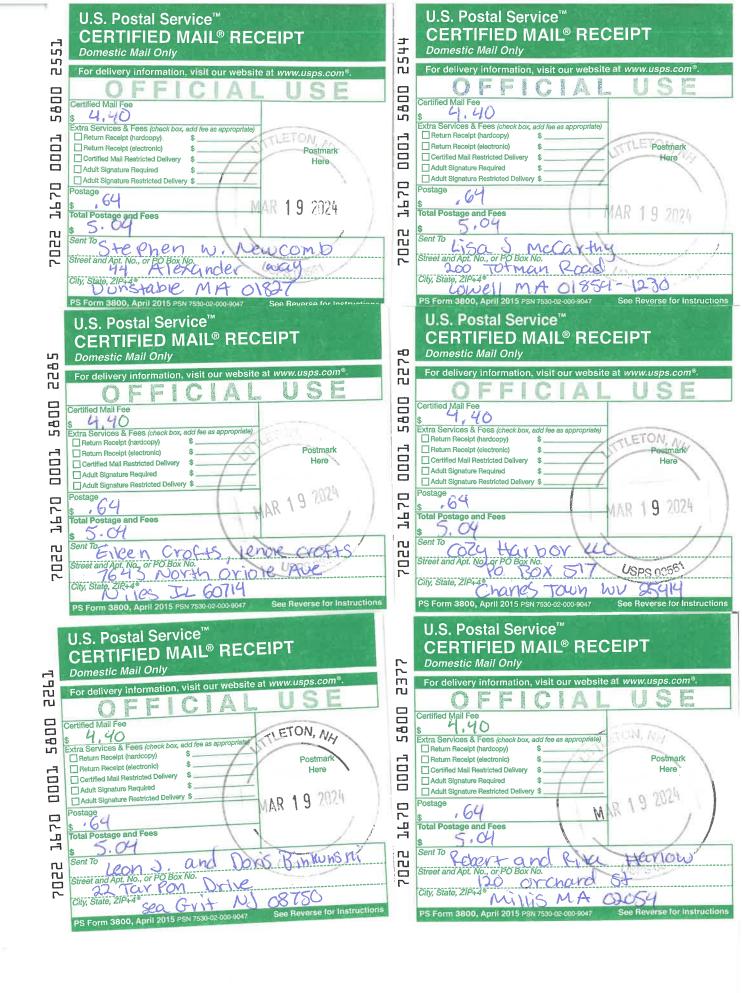
Mann Street

City, State, ZIP+4*

Mered H. Noth OS253

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CERTIFIED MAIL® RECEIPT 54 Domestic Mail Only For delivery information, visit our website at www.usps.com®. 5800 TLETON, NA Certified Mail Fee \$ 1,40 Extra Services & Fees (check box, add fee as ap Return Receipt (hardcopy) 0001 Return Receipt (electronic) AR 19 Postmark Certified Mail Restricted Delivery Adult Signature Required 1670 Postage 6 4 Total Postage and Fees ,04 7022 Sont To Kenneth and A Street and Apt. No., or PO Box No. He Gen Ave City, State, ZIP+48 Archington MA PS Form 3800, April 2015 PSN 7530-02-000-9047 02474 3047 See Reverse for Instruction

U.S. Postal Service™



VIA CERTIFIED MAIL

March 18, 2024

Town Of Meredith 41 Main Street Meredith, NH 03253-5861

RE: NHDES Shoreland Permit Application – Goodhue Meredith Real Property, LLC 31 Lovejoy Sands Road, Meredith, NH
Tax Map U35, Lot 8A
Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, we are required to notify you about the application, as the governing board of the municipality in which the project will be located.

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

Respectfully,

Drew MacDermott

Project Engineer

Will Davis, PE, LEED AP

Vice President

Horizons Engineering, Inc.

MAINE • NEW HAMPSHIRE • VERMONT



VIA CERTIFIED MAIL

March 18, 2024

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

RE: NHDES Shoreland Permit Application – Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8K-5.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



VIA CERTIFIED MAIL

March 18, 2024

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

RE: NHDES Shoreland Permit Application – Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8K-4.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



VIA CERTIFIED MAIL

March 18, 2024

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

RE: NHDES Shoreland Permit Application – Goodhue Meredith Real Property, LLC 31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8K-3.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



VIA CERTIFIED MAIL

March 18, 2024

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

RE: NHDES Shoreland Permit Application – Goodhue Meredith Real Property, LLC 31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8K-2.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



VIA CERTIFIED MAIL

March 18, 2024

Robert & Rita L. Harlow 120 Orchard St Millis, MA 02054

Town of Meredith Lot: U35 / 8K-1

RE: NHDES Shoreland Permit Application - Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8K-1.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott

Project Engineer

Will Davis, PE, LEED AP

Vice President



VIA CERTIFIED MAIL

March 18, 2024

Tall Pines Condo Association, C/O Mr. Robert Harlow 120 Orchard St Millis, MA 02054

Town of Meredith Lot: U35 / 8K

RE: NHDES Shoreland Permit Application - Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8K.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



VIA CERTIFIED MAIL

March 18, 2024

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

Town of Meredith Lot: U35 / 8I

RE: NHDES Shoreland Permit Application – Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8I.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



VIA CERTIFIED MAIL

March 18, 2024

Stephen W. Newcomb 44 Alexander Way Dunstable, MA 01827

Town of Meredith Lot: U35 / 8H

RE: NHDES Shoreland Permit Application - Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8H.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



VIA CERTIFIED MAIL

March 18, 2024

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

RE: NHDES Shoreland Permit Application – Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8F.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



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

Town of Meredith Lot: U35 / 8E

RE: NHDES Shoreland Permit Application - Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8E.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



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

Town of Meredith Lot: U35 / 8C

RE: NHDES Shoreland Permit Application – Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8C.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



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

Town of Meredith Lot: U35 / 8B

RE: NHDES Shoreland Permit Application - Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 8B.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President



VIA CERTIFIED MAIL

March 18, 2024

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

RE: NHDES Shoreland Permit Application - Goodhue Meredith Real Property, LLC

31 Lovejoy Sands Road, Meredith, NH

Tax Map U35, Lot 8A

Horizons Reference No. 20818

To Whom it May Concern:

Horizons Engineering, on behalf of Goodhue Meredith Real Property, LLC, will submit a Shoreland permit application to the NH Department of Environmental Services associated with the above referenced project for review. You are being notified as an abutter with property on Tax Map U35 / 10.

The proposed project includes reconstructing an existing commercial boat launch and constructing a new negative lift, both located on the eastern shoreline of Tax Map U35, Lot 8A. No other improvements are proposed at this time. Under state law RSA 483-B:5-b, IV-a, 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 or dmacdermott@horizonsengineering.com.

Respectfully,

Drew MacDermott Project Engineer Will Davis, PE, LEED AP

Vice President

APPENDIX H

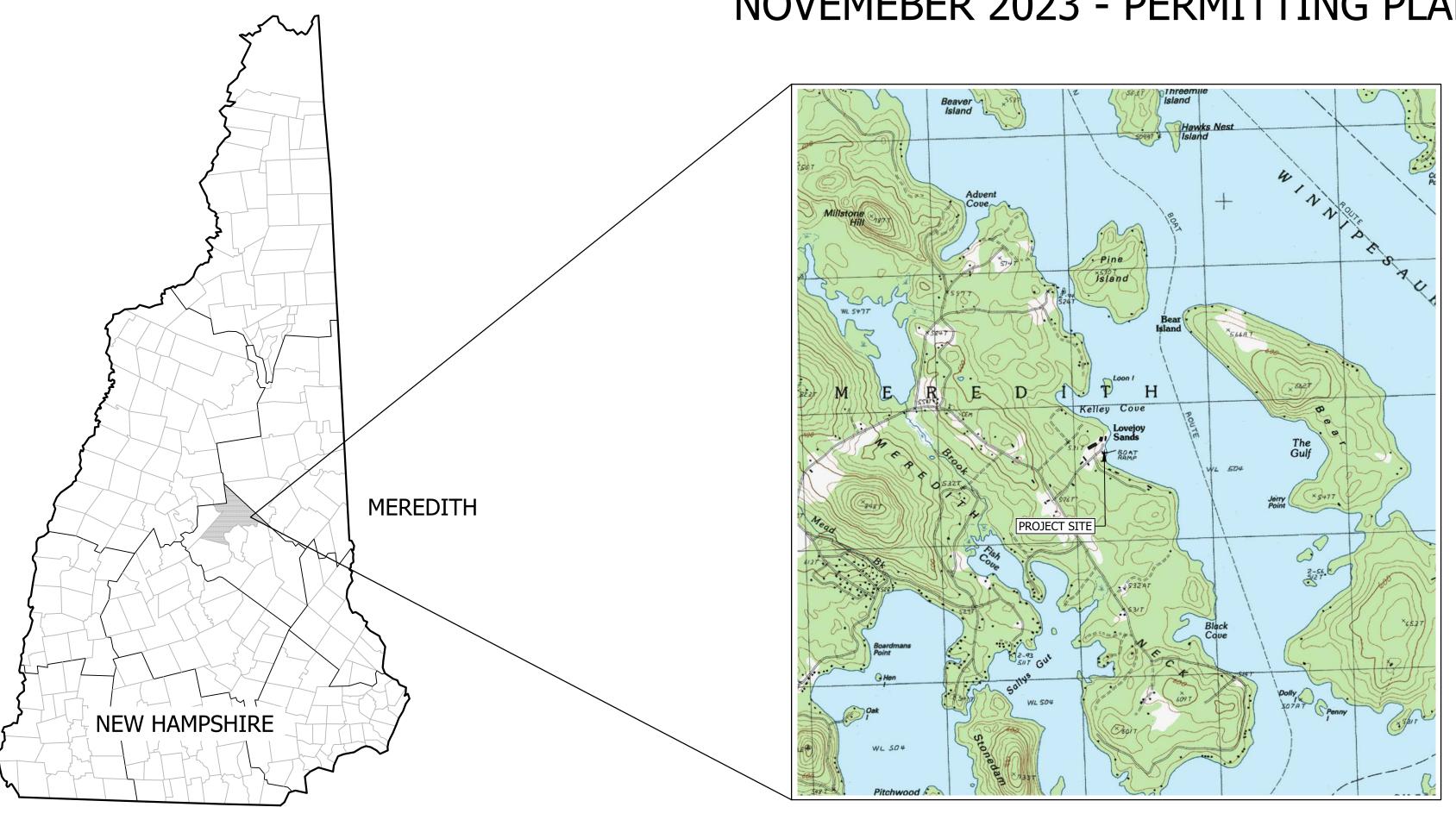
DESIGN PLANS (Unbound and Folded)



GOODHUE MEREDITH REAL PROPERTY, LLC

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

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



LOCATION PLAN

SCALE: 1" = 2000'

-BOUNDARY PLAN (AS RECORDED IN BELKNAP COUNTY REGISTRY OF DEEDS)

-CERTIFIED TOPOGRAPHICAL AND WETLAND DELINEATION PLAN

CIVIL SHEET LIST:

COVER

OVERVIEW, GENERAL NOTES AND LEGEND C1.0 **EXISTING CONDITIONS PLAN** C1.1-1.2

SITE PLAN NOTES AND LOCAL & STATE TABLES PROPOSED COMMERCIAL BOAT RAMP & NEGATIVE LIFT PLAN & PROFILE C2.1

C3.1 **EROSION CONTROL NOTES AND DETAILS**

C3.2 BOAT RAMP DETAILS C3.3 CONSTRUCTION DETAILS

SEE ALSO BY AMES ASSOCIATES

PROJECT. OWNER SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO

THIS PROJECT SHALL COMPLY WITH ALL CONDITIONS OF ALL PERMITS FOR THE

CONSTRUCTION. COPIES OF THESE PERMITS MAY BE REQUESTED FROM THE

NHDES

TOWN OF MEREDITH

PERMIT APPROVALS

WETLANDS PERMIT - MINOR IMPACT SHORELAND IMPACT

HORIZONS ENGINEERING NEW LONDON OFFICE.

TO BE COORDINATED

PENDING PENDING

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

AMBIT ENGINEERING, INC. 200 GRIFFIN, UNIT 3 PORTSMOUTH, NH 03801

SURVEYOR &

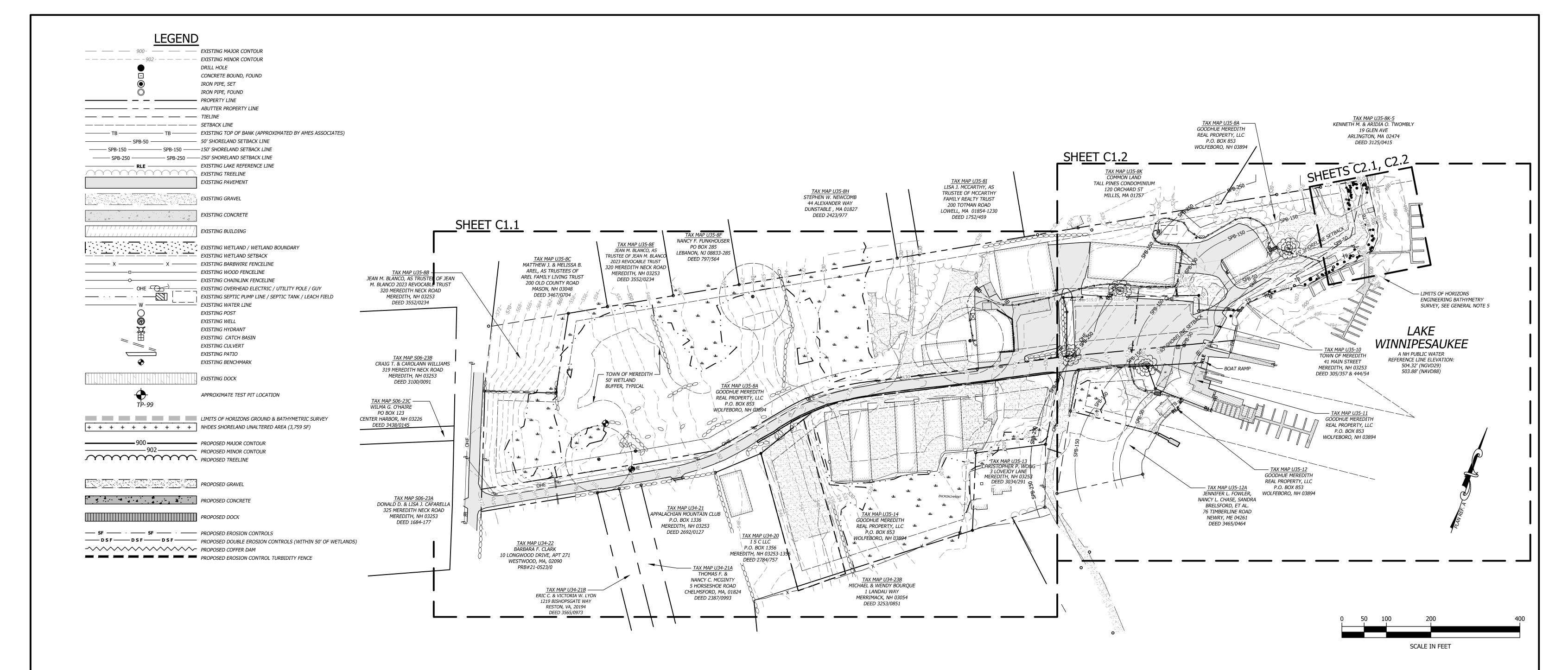
WETLAND SCIENTIST: AMES ASSOCIATES 164 NH Route 25 MEREDITH, NH 03253 (603) 279-5705

SOIL SCIENTIST:

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

CONSULTANT:

DATE OF PRINT NOVEMBER 03 2023 HORIZONS ENGINEERING



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.
- 3. 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 &
- (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").
- 4. BASE MAP INFORMATION INCLUDING BOUNDARY, TOPOGRAPHY AND WETLANDS ON THESE PLANS IS TAKEN FROM PLAN REFERENCE A, B AND C.
- 5. TOPOGRAPHY SHOWN IN THE PUBLIC WATERS OF LAKE WINNIPESAUKE IS BASED ON BATHEMETRY MEASUREMENTS TAKEN BY HORIZONS ENGINEERING, INC IN FEBRUARY 2021.
- 6. 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.

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

MINIMUM STANDARDS FOR SHORELINE DISTRICT:

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.
- 10. HORIZONS ENGINEERING DID NOT PERFORM TEST PIT NUMBER 9 IN JUNE 2021 AND IS NOT SHOWN ON THESE PLANS.

- 11. NO EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
- 12. ALL WORK SHALL BE PERFORMED WITHIN THE PROPERTY OF, AND EASEMENTS SECURED BY, THE OWNER.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DATA COLLECTION AND PREPARATION OF RECORD DRAWINGS.
- 14. 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.



COMMERCIAL BOAT LAUNCH AND NEGATIVE LIFT IMPROVEMENTS MEREDITH, NEW HAMPSHIRE

Engineering

Civil and Structural Engineering

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www.horizonsengineering.com

GOODHUE MEREDITH, LLC

31 LOVEJOY SANDS ROAD

Land Surveying and Environmental Consulting

TAX MAP U35 LOT 8A - SHORELINE "S" DISTRICT

).	DATE	REVISION DESCRIPTION	ENG	D۱

SEE NOTES 4 AND 5, SHEET C1.0

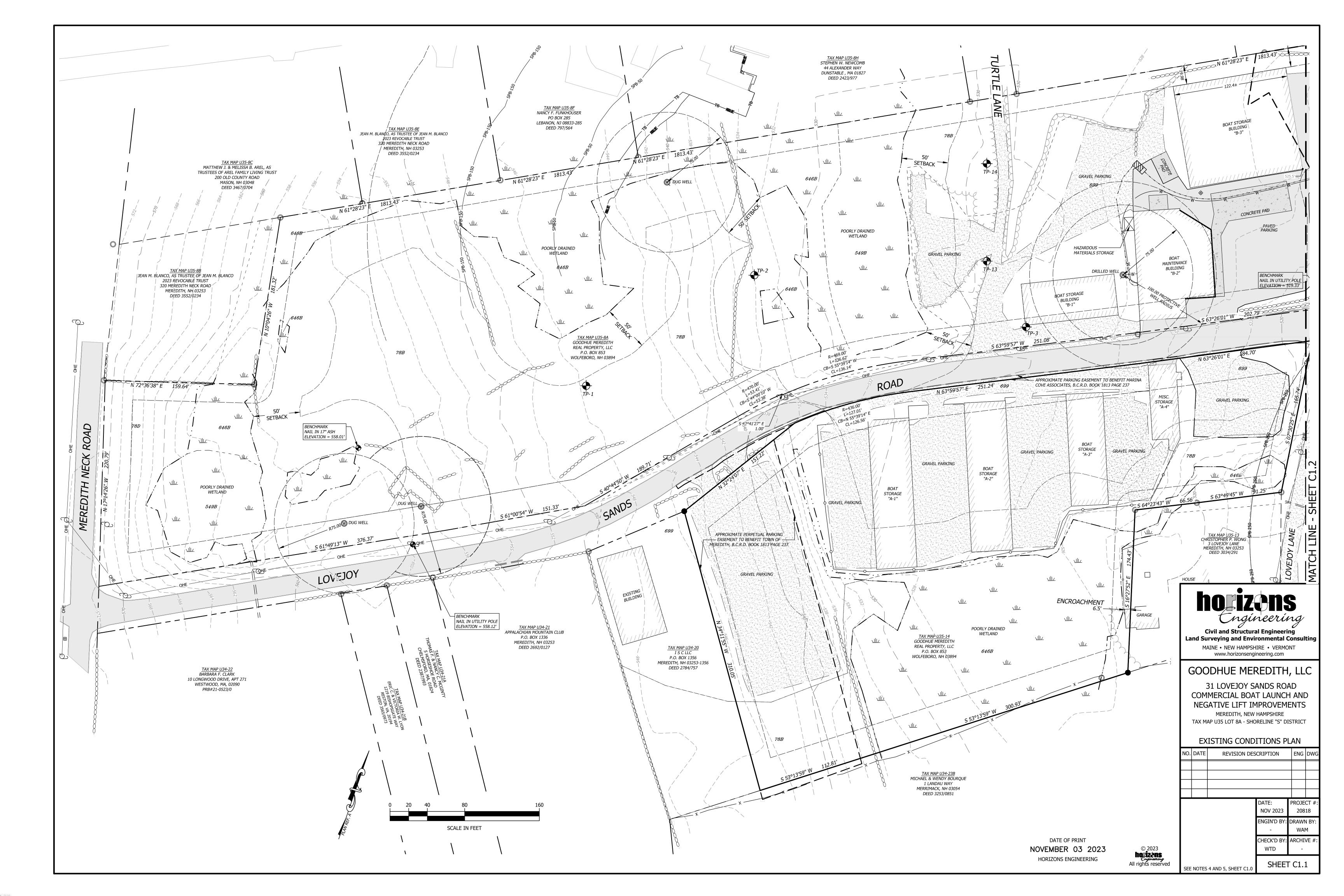
OVERVIEW PLAN

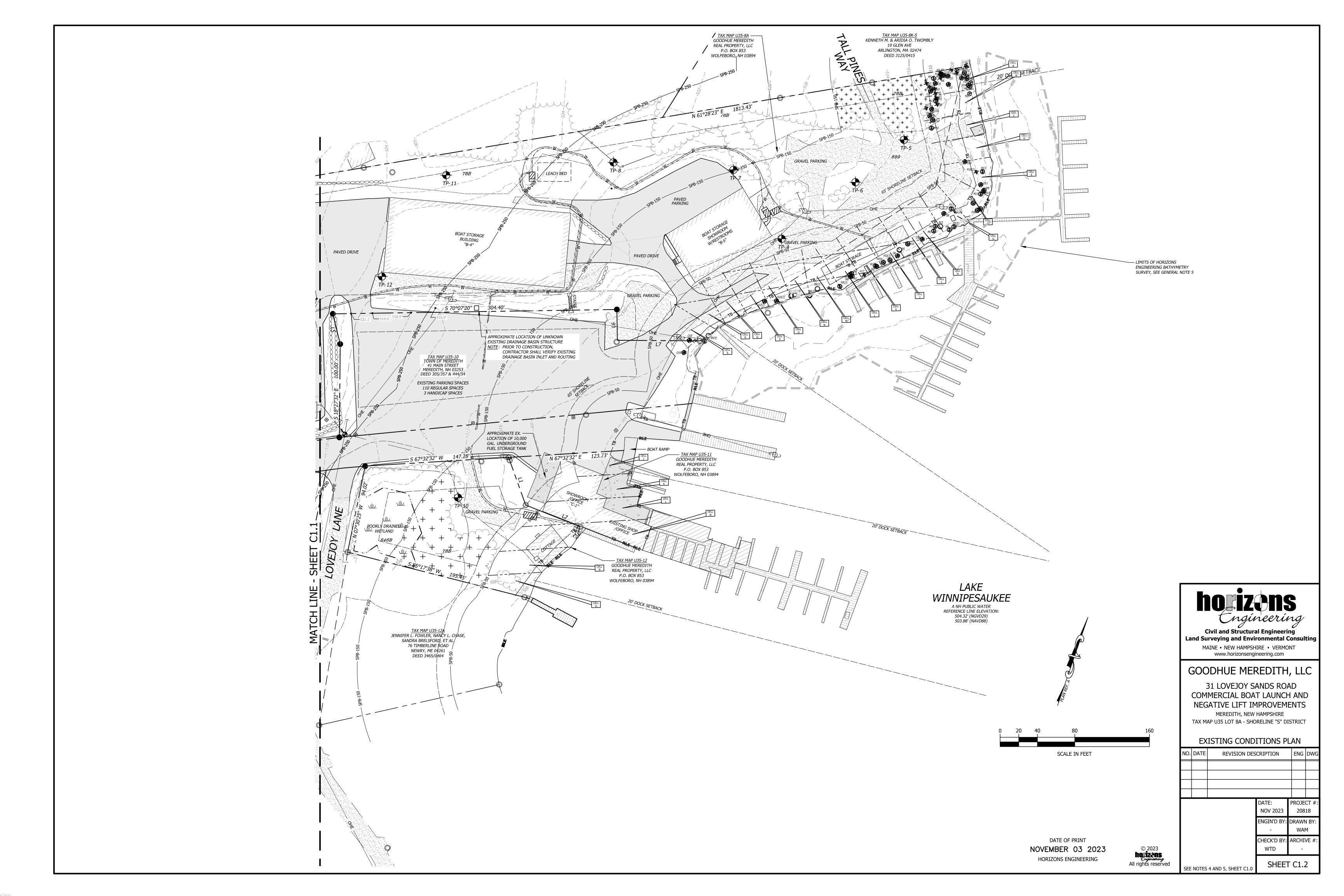
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SHEET C1.0

DATE OF PRINT NOVEMBER 03 2023 HORIZONS ENGINEERING







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.

6. UTILITY LOCATIONS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE

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.

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.

CONTRACTOR IS RESPONSIBLE FOR LOCATION AND PROTECTION OF EXISTING UTILITIES

CELL	1" to 3"	>3" to 6"	>6" to 12"	>12"	POINT
SEGMENT	1 pt each	5 pts each	10 pts each	15 pts each	TOTALS
А	15	5	3	2	100
В	4	1	3	0	39
С	0	0	2	0	20
D	0	0	0	0	0
Е	0	1	2	4	85
F	0	0	2	2	50
G	0	6	3	1	75
Н	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
М	0	6	0	0	30
N	0	5	0	0	25
0	0	0	2	0	20
Р	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.

CELL	1" to 3"	>3" to 6"	>6" to 12" >12"	POINT	CHANGE 1	
SEGMENT	1 pt each	5 pts each	10 pts each	15 pts each	TOTALS	POINTS
Α	15	5	3	2	100	0
В	4	1	3	0	39	0
С	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
Н	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
М	0	6	0	0	30	0
N	0	5	0	0	25	0
0	0	0	2	0	20	0
Р	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				

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).

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				

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).

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GOODHUE MEREDITH, LLC

31 LOVEJOY SANDS ROAD SITE IMPROVEMENTS MEREDITH, NEW HAMPSHIRE

TAX MAP U35 LOTS 8A, 11, 12 AND 14 ZONING DISTRICT - SHORELINE "S"

SITE PLAN NOTES AND LOCAL AND STATE TABLES

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

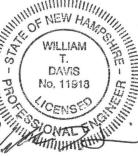
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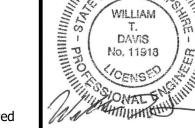
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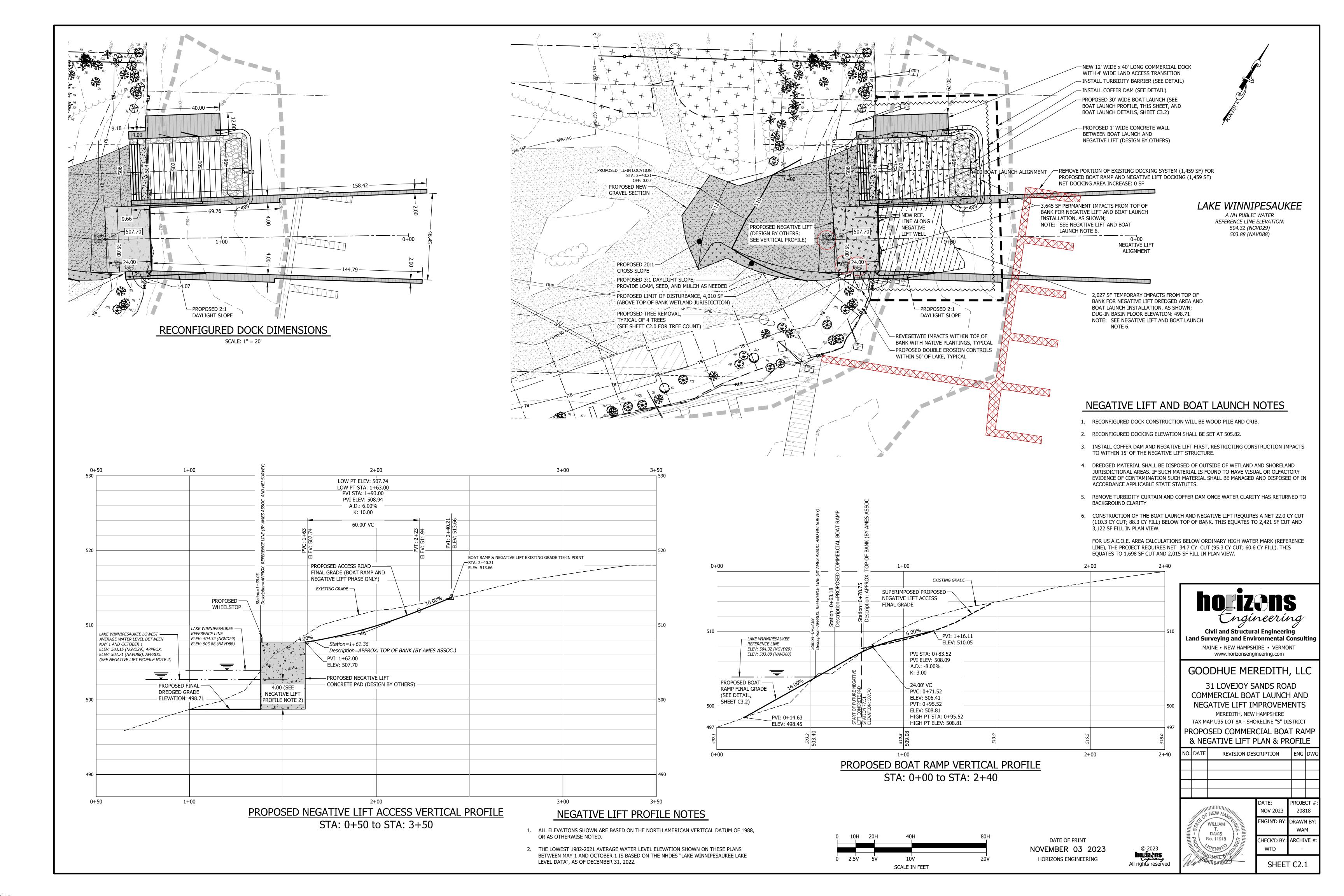
SHEET C2.0

H-5620



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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

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_2O_5) , 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.

-POTASH (K₂0), 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

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:

02251.10 001521	SEEDING	SOIL TYPE				
USE	MIXTURE (SEE 3D)	DROUGHTY	WELL DRAINED	MOD. WELL DRAINED	POORLY DRAINED	
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A B C	FAIR POOR FAIR	GOOD GOOD EXCELLENT	GOOD FAIR EXCELLENT	FAIR FAIR POOR	
WATERWAYS, EMERGENCY SPILL- WAYS, AND OTHER CHANNELS WITH FLOWING WATER	А	GOOD	GOOD	GOOD	FAIR	
LIGHTLY USED PARKING LOTS, ODD	Α	GOOD	GOOD	GOOD	FAIR	
AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES	В	GOOD	GOOD	FAIR	POOR	

D. SEEDING RATES:

	MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
Α	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL:	20 20 2 42	0.45 0.45 0.05 0.95
В	TALL FESCUE CREEPING RED FESCUE CROWN VETCH OR FLATPEA TOTAL:	15 10 15 OR 30 40 OR 55	0.35 0.25 0.35 OR 0.75 0.95 OR 1.35
С	TALL FESCUE FLATPEA	20 30	0.45 0.75
	TOTAL:	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.

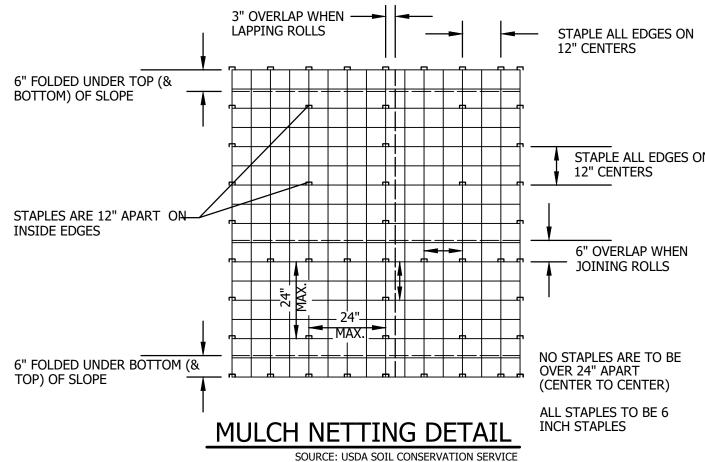
F.	TEMPORARY SEEDING RATES:								
	SPECIES	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.	REMARKS					
	WINTER RYE	112	2.5	BEST FOR FALL SEEDING. SEED FROM AUGUST TO SEPTEMBER 5TH FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.					
	OATS	80	2.0	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15TH FOR SUMMER 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.					

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 WEED
- 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.



NO SCALE

EROSION CONTROL GENERAL NOTES

A. KEEP SITE MODIFICATION TO A MINIMUM

- . 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 EROSIVE ELEMENTS FOR THE SHORTEST TIME POSSIBLE.
- 3. SAVE AND PROTECT DESIRABLE EXISTING VEGETATION WHERE POSSIBLE. ERECT BARRIERS 1. TO PREVENT DAMAGE FROM CONSTRUCTION EQUIPMENT.
- 4. LIMIT THE GRADES OF SLOPES SO VEGETATION CAN BE EASILY ESTABLISHED AND
- 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

CONSTRUCTION NOTES FOR SEDIMENT FENCE

1. INSTALL DOUBLE SEDIMENT FENCING

2. WOVEN WIRE FENCE, IF REQUIRED,

3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE

IN ALL AREAS WITHIN 50' OF WETLANDS

TO BE FASTENED SECURELY TO FENCE

POSTS WITH WIRE TIES OR STAPLES.

WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.

INCHES, FOLDED AND STAPLED.

6. 12" DIAMETER FILTREXX SILTSOXX

RECOMMENDATIONS.

4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN

EACH OTHER, THEY SHALL BE OVERLAPPED BY 6

5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND

SEDIMENT FENCE, OR 50% OF CAPACITY IS USED.

SHALL BE CONSIDERED AN ACCEPTABLE EQUAL TO

MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE

SEDIMENT FENCE IF INSTALLED PER MANUFACTURER'S

_ _ CHANNEL TOP OF BANK

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.

COLD WEATHER SITE STABILIZATION **REQUIREMENTS**

- TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE FOLLOWING ADDITIONAL STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 1:
- THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1 ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT. THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF A WINTER CONSTRUCTION PLAN, DEVELOPED BY A QUALIFIED ENGINEER OR A CPESC SPECIALIST, IS REVIEWED AND APPROVED BY NHDES.
- 2. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE, SECURED WITH ANCHORED NETTING OR TACKIFIER, OR 2 INCHES OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H).
- 3. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH PROPERLY INSTALLED AND ANCHORED EROSION CONTROL MATTING OR WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H).
- 4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX, MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H), SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
- 5. INSTALLATION OF EROSION CONTROL MATTING SHALL NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH OR ON FROZEN GROUND.
- 6. ALL PROPOSED STABILIZATION IN ACCORDANCE WITH NOTES 2 OR 3 ABOVE, SHALL BE COMPLETED WITHIN 1 DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.
- 7. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY THE OWNER'S ENGINEERING CONSULTANT.
- 8. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF BASE COURSE GRAVELS MEETING THE GRADATION REQUIREMENTS OF NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM NO. 304.1 OR 304.2.

DRAINAGE

STRUCTURE

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.
- FORM CONNECTION 6. STRIP AND STOCKPILE TOPSOIL AND INSTALL EROSION CONTROL MEASURES.
- 7. INSTALL/ADJUST TURBIDITY CURTAIN, SEDIMENT FENCE, CHECK DAMS, AND HAYBALES, AS REQUIRED.
- 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

- 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.
- 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
- 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.

CATCH BASIN PROTECTION

INSERT TYPE

NO SCALE

RIPRAP HAS BEEN INSTALLED; OR

14. COMPLETE ALL REMAINING PERMANENT EROSION CONTROL STRUCTURES.

BUILT IN OVERFLOW

WATER FLOW

PORTS (2) FOR HIGH

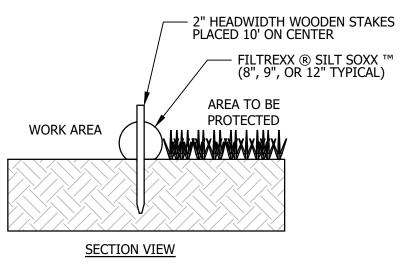
— NON-WOVEN GEOTEXTILE

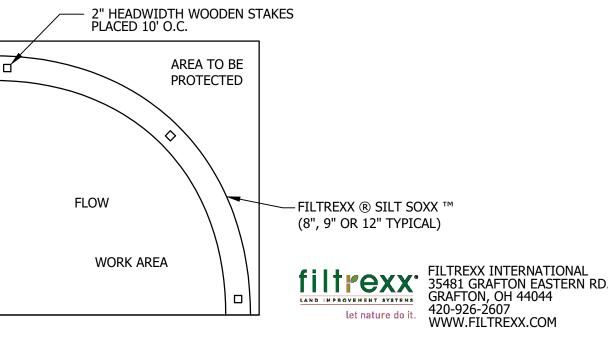
<5% SLOPE

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

STAKE — — ALTERNATE STAKING OPTION - CLOSED END OVERLAPPING SECTIONS -**─** 18" MIN ─ **►**

COMPOST SOCK CONNECTION/ATTACHMENT DETAI





TOP VIEW

ALL MATERIAL TO MEET FILTREXX ® SPECIFICATIONS.

- 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.filtrexx.com/en/resources/design-specs-cads/filtrexx-cad-files THIS DETAIL IS ADAPTED FROM "FILTREXX ® SILT SOXX ™ & SEDIMENT TRAPP ™ DETAILS" SHEET AND IS THE SOLE PROPERTY OF FILTREXX INTERNATIONAL, LLC.

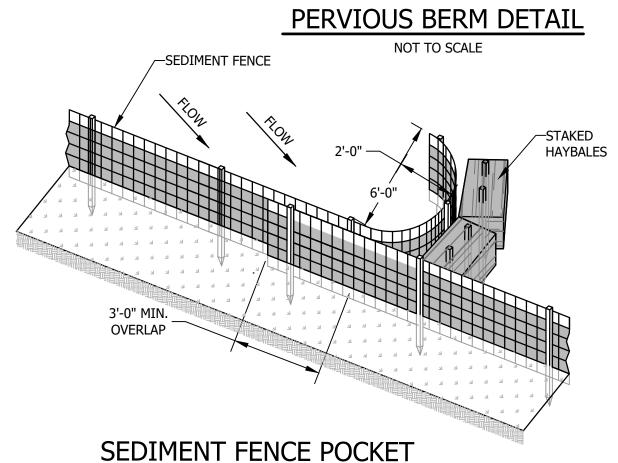
- STUMP GRINDINGS <5% SLOP — 36" MIN. -**SECTION VIEW** ISOMETRIC VIEW

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.

- 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%

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

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



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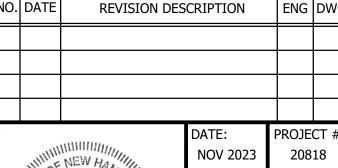
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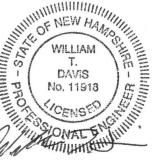
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31 LOVEJOY SANDS ROAD COMMERCIAL BOAT LAUNCH AND NEGATIVE LIFT IMPROVEMENTS MEREDITH, NEW HAMPSHIRE

TAX MAP U35 LOT 8A - SHORELINE "S" DISTRICT **EROSION CONTROL NOTES** AND DETAILS





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DATE OF PRINT

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STAPLE ALL EDGES ON

WOVEN WIRE FENCE -

MAX. 6" MESH SPACING)

WITH FILTER CLOTH OVER

FLOW+

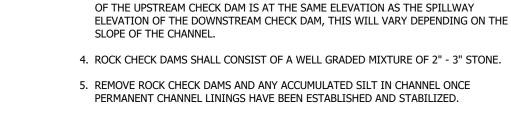
UNDISTURBED GROUND

SEDIMENT FENCE

- 2"-3" STONE, TYP.

(14-1/2 GA. MIN.,

SECTION VIEW



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

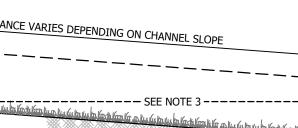
3. THE MAXIMUM SPACING BETWEEN THE CHECK DAMS SHOULD BE SUCH THAT THE TOE

— 36" MIN_FENCE POSTS_DRIVEN

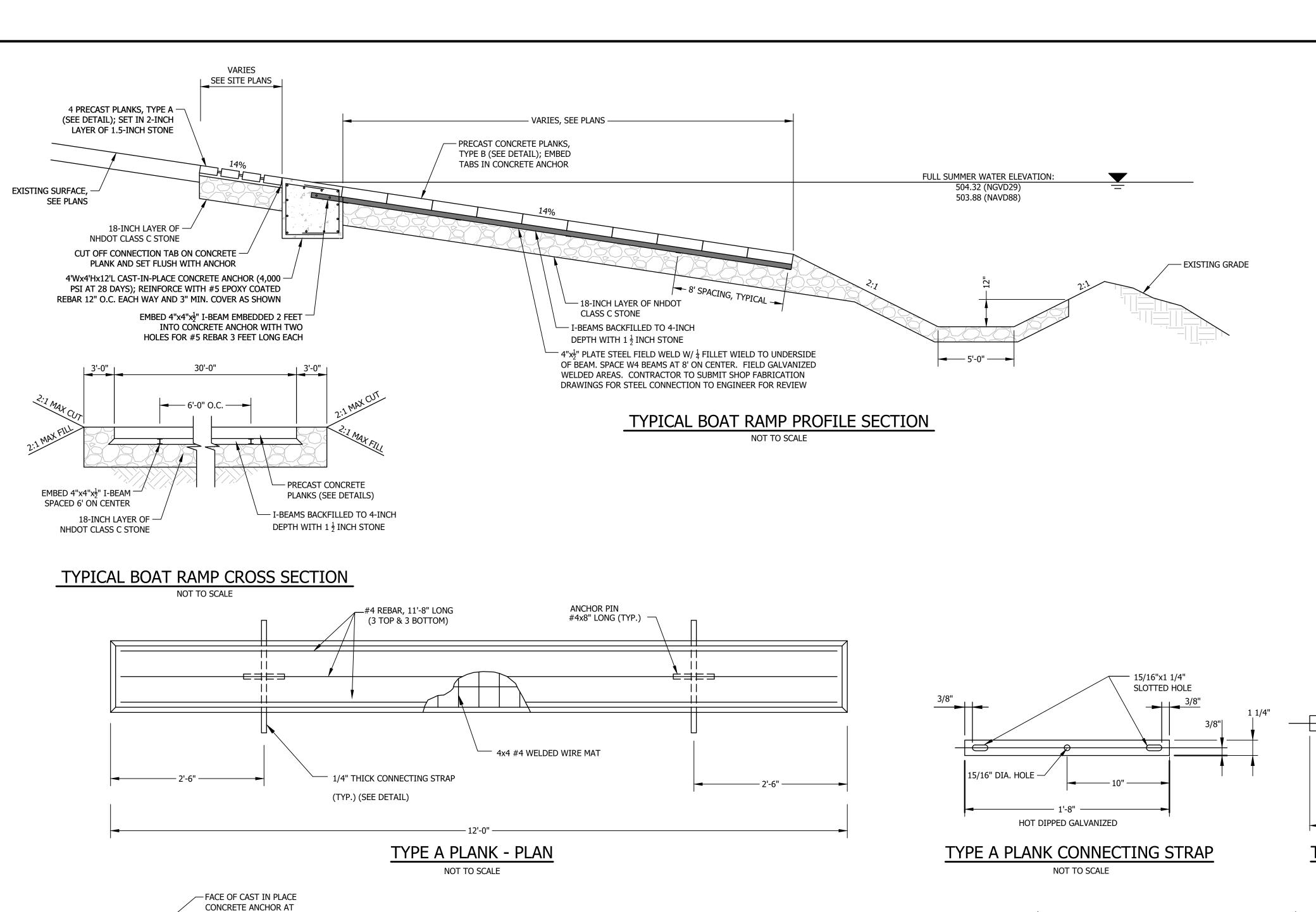
EMBED FILTER CLOTH

MIN. 8" INTO GROUND

MIN. 16" INTO GROUND



ROCK CHECK DAM DETAIL



2 ½" PROJECTION TYP.

TYPICAL

- CONNECTION BOLT ASSEMBLY PER MANUFACTURER PLANK

- CORNER STUDS AND PLATES

PER PLANK MANUFACTURER

TYPICAL 4 CORNERS

- 2 $\frac{1}{2}$ " PROJECTION TYP.

□=====#=

□=====#=4

┍╸╸╸╸╸┼

D=====##

FIRST PANEL ONLY

----- 2'-2" -----

c======

#=====**-**

CONNECTION

PLATE SEE DETAIL

======

C=======

12" -

3" CHAMFER ALL AROUND TOP EDGE

TYPE B PLANK - PLAN

NOT TO SCALE

TYPE B PLANK - ELEVATION

NOT TO SCALE

-UTILITY ANCHOR

TYPICAL

PER MANUFACTURER

 $\frac{1}{2}$ " THICK GALV STEEL PLATE

-1"ØX4 $\frac{1}{4}$ " SLOTTED HOLE

TYPE B PLANK CONNECTION

PLATE DETAIL

NOT TO SCALE

12" LEDGER —

PANEL B - EMBEDMENT DETAIL

NOT TO SCALE

CAST IN PLACE -

CONCRETE ANCHOR

TYPE A PLANK SECTION

-1"ØX2" SLOTTED HOLE TYP OF 2

-PRECAST PANEL B WITH END

- W4X13 BEAM

- 4" PLATE WELDED TO BEAM

CONNECTION BOLTS EMBEDDED IN

CAST IN PLACE CONCRETE ANCHOR

CONNECTING STRAP

—— #4 REBAR (TYP.)

STONE SPECIFICATIONS

STONE SHALL BE GRADED AS FOLLOWS:

SIEVE SIZE

12 INCH

4 INCH

1-1/2 INCH

STONE SIZE 467 (NO. 4 TO 1-1/2").

EROSION STONE

CLASS C

CLASS B CLASS A

- 4x4 #4 WELDED

REMAINDER OF THE MASS COMPOSED OF SPALLS.

STONE SIZE CLASS MIN. DEPTH

3/8" CHAMFER (TYP.)

THE 3-INCH SIEVE AND 25 TO 70% PASSING THE NO. 4 SIEVE.

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

3/4 INCH

2.1 MATERIALS - STONE FILL

TYPE A PLANK NOTES 1. COMPRESSIVE STRENGTH OF CONCRETE: 5000 P.S.I. AT 28 DAYS

A. MATERIALS SHALL MEET THE REQUIREMENTS OF SECTION 585, STONE FILL, NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD

B. STONE FOR STONE FILL SHALL BE APPROVED QUARRY STONE, OR BROKEN ROCK OF A HARD, SOUND, AND DURABLE QUALITY. THE STONES AND

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

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

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, FRIABLE, OR LAMINATED PIECES, AND FREE OF ALKALINE, ORGANIC, OR OTHER HARMFUL MATTER. THE STONE SHALL BE STANDARD

6-INCHES AND 8-INCHES, APPROXIMATELY 40% OF THE MASS HAVING A MINIMUM DIMENSION BETWEEN 2-INCHES AND 6-INCHES AND THE

6. **SPALLS** FOR FILLING VOIDS SHALL CONSIST OF A MIXTURE OF STONES OR ROCK FRAGMENTS AND PARTICLES WITH 95 TO 100% PASSING

5. **EROSION STONE** SHALL BE IRREGULAR IN SHAPE WITH APPROXIMATELY 50% OF THE MASS HAVING A MINIMUM DIMENSION BETWEEN

SPECIFICATIONS (NHS) FOR THE APPROPRIATE ITEM AS INDICATED ON THE DRAWINGS.

SPALLS SHALL BE SO GRADED AS TO PRODUCE A DENSE FILL WITH A MINIMUM OF VOIDS.

BETWEEN 1 AND 3 CUBIC FEET, AND THE REMAINDER OF THE MASS COMPOSED OF SPALLS.

PERCENTAGE PASSING BY WEIGHT

50-90

0-30

0-10

- 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 SECTION NOT TO SCALE

TYPE B PLANK NOTES

- 1. COMPRESSIVE STRENGTH OF CONCRETE: 4000 P.S.I. NHDOT CLASS AA
- 2. PLANKS REINFORCING STEEL: ASTM A775 (REBAR) GRADE 60, EPOXY COATED 3. PLANKS SHALL HAVE A LONGITUDINAL COURSE BROOM FINISH.
- 4. MISCELLANEOUS STEEL: ASTM A36, ALL EMBEDDED STEEL, CONNECTION PLATES, BOLTS AND
- HARDWARE SHALL BE HOT DIPPED GALVANIZED. 5. TOP AND SIDE OF PLANKS TO BE COATED WITH WATER REPELLENT (SILANE SILOXANE) BY
- PLANK MANUFACTURER
- 6. EACH ANHOR BOLT ASSEMBLY CAST INTO PLAN CONSIST OF (2) $\frac{3}{4}$ "ØX22" LONG THREADED RODS, (4) $\frac{3}{4}$ " HEAVY DUTY NUTS, (1) $\frac{1}{4}$ "X3"X6" PLATE WASHER AND (4) LOCK WASHERS.
- 7. LOOSE HARDWARE (INCLUDING (8) $\frac{3}{4}$ " HEAVEY DUTY NUTS, (8) LOKC WASHERS AND (2)
- CONNECTION PLATES) TO BE ATTACHED TO PLANK DURING SHIPPING.
- 8. ALL REBAR TO BE EPOXY #6 BARS 9. CORNER PLATES SHALL CONSIST OF L4"X4" χ_8^3 "X7" LONG WITH (2) $\frac{1}{2}$ "ØX6" LONG STUDS
- TYPICAL 4 CORNERS.
- 10. CONNECTION PLATE BOLTS SHALL CONSIST OF $\frac{3}{4}$ "Ø X1'-10" LONG THREAD ROD GALV. $\frac{1}{4}$ "X3"X6" PLATE WASHER, LOCK WASHER AND HEAVY HEX NUTS TYPICAL.

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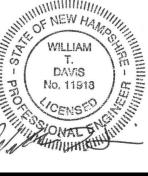
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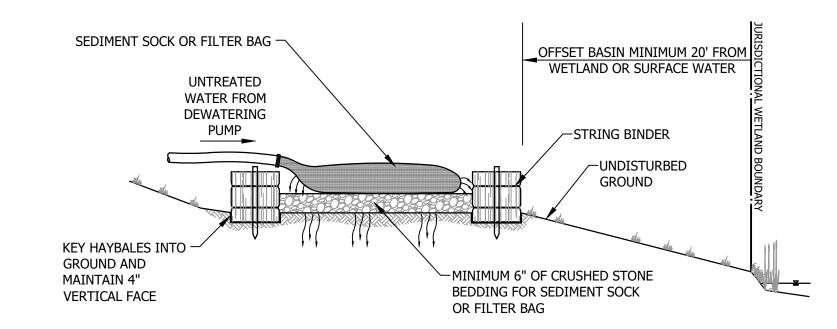
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BOAT LAUNCH DETAILS

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		DATE		DD () IE	CT #.



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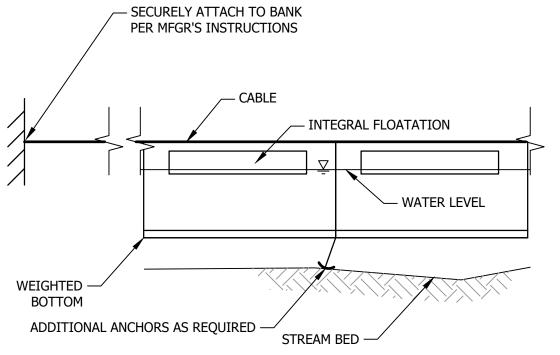
NOTE:
1. DESIGN INTENT FOR TEMPORARY DEWATERING FILTER PAD IS TO ENHANCE PUMP WATER QUALITY PRIOR TO INFILTRATION

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



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

LENGTH WEIGHT 1.6 LBS/FT 8' TO 20' 2.8 LBS/FT 8' TO 20' 3.2 LBS/FT 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

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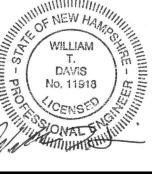
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CONSTRUCTION DETAILS

NO.	DATE	REVISION DE	SCRIPTION	ENG	DWG	
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