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The State of New Hampshire

Department of Environmental Services

Robert R. Scott, Commissioner

March 23, 2021

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

REQUESTED ACTION

Approve M Y T Y, Inc.'s request to perform work on Lake Winnipesaukee in Tuftonboro as outlined below. This request is pursuant to New Hampshire Department of Environmental Services (NHDES) file #2020-02823. This project will not have significant impact on, or adversely affect, the values of Lake Winnipesaukee:

Temporarily impact 1,669 square feet in order to excavate a 20 foot x 15 foot expansion off an existing dug-in basin to accommodate a negative lift, construct a 24 foot x 14 foot concrete pad and two 3 foot x 15 foot water access stairs within Melvin Village Marina along Lake Winnipesaukee.

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

1. In accordance with Env-Wt 307.16, all work shall be done in accordance with the approved plans dated October 16, 2020 by Horizons Engineering, as received by the NH Department of Environmental Services (NHDES) on November 3, 2020.
2. Any subdivision of the property frontage will require removal of a sufficient portion of the docking structures to comply with the dock size and density requirements in effect at the time of the subdivision as required to maintain compliance with Env-Wt 314.02 and Env-Wt 513.12.
3. Only those structures shown on the approved plans shall be installed or constructed along this frontage as required per Env-Wt 513.22, (a).
4. All development activities associated with any project shall be conducted in compliance with applicable requirements of RSA 483-B and Env-Wq 1400 during and after construction as required pursuant to RSA 483-B:3.
5. Activities that produce suspended sediment in jurisdictional areas that provide value as bird migratory areas or fish and shellfish spawning or nursery areas, shall be done so as to avoid and minimize discharges of dredged material or placement of fill material during spawning or breeding seasons by using water quality protection techniques as specified in Env-Wt 307 and timing of project as specified in Env-Wt 307.10(g) or (h), as applicable.
6. Water quality control measures capable of minimizing erosion; collecting sediment and suspended and floating materials; and filtering fine sediment shall be selected and implemented as appropriate based on the size and nature of the project and the physical characteristics of the site, including slope, soil type, vegetative cover, and proximity to jurisdictional areas as required pursuant to Env-Wt 307.03(c).

7. Work authorized shall be carried out in accordance with Env-Wt 307 such that appropriate turbidity controls are in place to protect water quality, that no turbidity escapes the immediate dredge area, and that appropriate turbidity controls shall remain until suspended particles have settled and water at the work site has returned to normal clarity.
8. All dredged and excavated material and construction-related debris shall be placed outside of those areas subject to RSA 482-A or RSA-483-B unless a permit for the deposition of materials within those areas has been obtained as required per RSA 482-A:3 or RSA 483-B:5-b respectively.
9. No activity shall be conducted in such a way as to cause or contribute to any violation of surface water quality standards specified in RSA 485-A:8 or Env-Wq 1700; ambient groundwater quality standards established under RSA 485-C; limitations on activities in a sanitary protective area established under Env-Dw 302.10 or Env-Dw 305.10; or any provision of RSA 485-A, Env-Wq 1000, RSA 483-B, or Env-Wq 1400 that protects water quality as required pursuant to Env-Wt 307.03(a).
10. Pursuant to RSA 482-A:14, RSA 482-A:14-b, and RSA 482-A:14-c, NHDES is authorized to take appropriate compliance actions should it be determined that, based upon additional information which becomes available, any of the structures depicted as "existing" on the plans submitted by or on behalf of the permittee were not previously permitted or grandfathered.

EXPLANATION

The NHDES approved this project on February 12, 2021. The NHDES supported its decision with the following findings:

1. This is a major impact project per Administrative Rule Env-Wt 513.25, (c), modification of a major docking facility.
2. The NHDES finds that because the project is not of significant public interest and will not significantly impair the resources of Lake Winnipesaukee, a public hearing under RSA 482-A:8 is not required.
3. The applicant has proposed a modification of an existing docking facility resulting in the permanent elimination of 2 existing legal boat slips in accordance with Env-Wt 513.23, (a), (1).
4. Applicant requested a waiver, in accordance with Env-Wt 204, of Administrative Rule Env-Wt 513.23, (a), (2), requiring all modifications of existing docking structures to reduce dock surface are over public waters.
5. The applicant has demonstrated that granting the waiver will have no adverse effect on the environment, natural resources of the state, public health, public safety, nor impacts to abutting properties more significant than that which would result from complying with the rule as required to meet Rule Env-Wt 204.05, Criteria, (a), (1).
6. The applicant has demonstrated that strict compliance with Rule Env-Wt 513.23, (a), (2), will provide no benefit to the public and will provide both an operational and economic impact to the applicant as required to meet Rule Env-Wt 204.05, Criteria, (a), (2).
7. The request for a waiver meets the requirements of Rule Env-Wt 204.05, Criteria, and therefore, the waiver Rule Env-Wt 513.23, (a), (2) is granted.
8. No concerns were received from abutters nor the local Conservation Commission related to the project.
9. The NHDES finds that the project as proposed and conditioned meets the requirements of RSA 482-A and the Wetlands Program Code of Administrative Rules Chapters Env-Wt 100 - 900.

Application file documents are being forwarded to the Governor and the Executive Council in connection with their consideration of this matter pursuant to RSA 482-A:3, II(a), as it is a major project in public waters of the state.

We respectfully request your approval of this item.

Robert R. Scott
Commissioner

STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division/Land Resources Management

Wetlands Bureau

Check the Status of your Application

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

APPLICANT'S NAME: MELVIN VILLAGE MARINA; MYTY, INC. **TOWN NAME:** TUFTONBORO

Administrative Use Only	Administrative Use Only	Administrative Use Only	
RECEIVED NOV 03 2020 NHDES RESOURCES MANAGEMENT	COMPLETE NOV 04 2020		File No.: 2020-02823
			Check No.: 12879
			Amount: $667.60
			Initials: RS

A person may request a waiver to requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interests of the public or the environment. A person may also request a waiver of standard for existing dwellings over water pursuant to RSA 482-A:26, III (b). For more information, please consult the request form.

SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2))

Please use the Wetland Permit Planning Tool (WPPT), the Natural Heritage Bureau (NHB) DataCheck Tool, the Aquatic Resource Mapper, or other sources to assist in identifying key features such as: priority resource areas (PRAs), protected species or habitats, coastal areas, designated rivers, or designated prime wetlands.

Has the required planning been completed? ☒ Yes ☐ No

Does the property contain a PRA? ☐ Yes ☒ No. If yes, provide the following information:

- Does the project qualify for an Impact Classification Adjustment or a Project-Type Exception (See Env-Wt 407.02 and Env-Wt 407.04)? ☐ Yes ☐ No
- Protected species or habitat? ☐ Yes ☐ No. If yes, species or habitat name(s):
- NHB Project ID #: NHB20-1143
- Bog? ☐ Yes ☐ No
- Floodplain wetland contiguous to a tier 3 or higher watercourse? ☐ Yes ☐ No
- Designated Prime Wetland or duly-established 100-foot buffer? ☐ Yes ☐ No
- Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? ☐ Yes ☐ No

Is the property within a Designated River corridor? ☐ Yes ☒ No. If yes, provide the following information:

- Name of Local River Management Advisory Committee (LAC):
- A copy of the application was sent to the LAC on Month: Day: Year:

For stream crossing projects, provide watershed size: n/a

For dredging projects, is the subject property contaminated? ☐ Yes ☐ No
If yes, list contaminant: unknown

Is there potential to impact impaired waters, class A waters, or outstanding resource waters? ☐ Yes ☒ No

SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(l))

Provide a brief description of the project and the purpose of the project, outlining the scope of work to be performed and whether impacts are temporary or permanent. DO NOT reply "See attached" in the space provided below.

The purpose of the project is to improve the efficiency of launching boats by completing a modification of the existing major docking system and installing a new area of dug in basin, thus expanding an existing dug-in basin, that will serve as a place for a negative lift (forklift that can lower boats below its wheelbase into the water) to launch/retrieve boats. This should allow for better control over launching operations and improve the safety of boat launching and retrieval. The sequence of work includes installing turbidity curtain, sheet piling, removing earth and existing bulkhead, then removing turbidity curtain.

The project will involve constructing a 20'x15' dug in basin with sheetpile walls and a concrete pad over an existing gravel parking area, 1,669 S.F. temporary impact total. 20 L.F. of permanent wetland jurisdictional impacts are proposed and associated with the removal of an existing timber bulkhead to allow the entry/egress of boats from the proposed dug in basin.

SECTION 3 - PROJECT LOCATION

Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS: 462 Governor Wentworth Highway	TOWN/CITY: Tuftonboro
TAX MAP/BLOCK/LOT/UNIT: Map 14 Lot 3-3	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Lake Winnipesaukee ☐ N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):	43.68750° North 71.30220° West

SECTION 4 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 311.04(a))

If the applicant is a trust or a company, then complete with the trust or company information.

NAME: Melvin Village Marina c/o Matt Young		
MAILING ADDRESS: 462 Governor Wentworth Highway		
TOWN/CITY: Melvin Village	STATE: NH	ZIP CODE: 03580
EMAIL ADDRESS: myoung@melvinvillagemarina.com	FAX:	PHONE: 603 544-3583

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

SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))

☒ N/A

LAST NAME, FIRST NAME, M.I.: Conway, Cathy		
COMPANY NAME: Horizons Engineering, Inc.	MAILING ADDRESS: 34 School Street	
TOWN/CITY: Littleton	STATE: NH	ZIP CODE: 03561
EMAIL ADDRESS: cconway@horizonsengineering.com	FAX:	PHONE: 603-444-4111

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

SECTION 6 - PROPERTY OWNER INFORMATION (IF DIFFERENT THAN APPLICANT) (Env-Wt 311.04(b))

If the owner is a trust or a company, then complete with the trust or company information.

☐ Same as applicant

NAME: M Y T Y, INC.		
MAILING ADDRESS: PO Box 312		
TOWN/CITY: Melvin Village	STATE: NH	ZIP CODE: 03850
EMAIL ADDRESS:	FAX:	PHONE: 603 544-3583

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

SECTION 7 - RESOURCE-SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400, Env-Wt 500, Env-Wt 600, Env-Wt 700, OR Env-Wt 900 HAVE BEEN MET (Env-Wt 313.01(a)(3)).

Describe how the resource-specific criteria have been met for each Chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters).

406.05 - This project proposes work along a shoreline bank and not at any prime wetlands, non-tidal wetlands, stream crossings or watercourse or tidal waters. The bank and normal high water line are provided on the site plan.

513.25 - This project proposes to modify an existing major docking system and construct a new area of dug-in basin at an existing dug-in basin area which is an integral part of an existing major docking system. The project does not propose increasing the total docking square footage area and does not propose any impacts outside of the existing major docking system area.

SECTION 8 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)). If all impacts cannot be avoided, a functional assessment is required for minor and major projects (Env-Wt 311.03(b)(10)). Any project with unavoidable jurisdictional impacts must then be minimized as described in the Wetlands Best Management Practice Techniques For Avoidance and Minimization and the Wetlands Permitting: Avoidance, Minimization and Mitigation Fact Sheet.

Please refer to the application checklist to ensure that you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable). You can use the Avoidance and Minimization Checklist, the Avoidance and Minimization Narrative, or your own avoidance and minimization narrative.

SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02)

If unavoidable jurisdictional impacts require mitigation, a mitigation pre-application meeting must occur at least 30 days but not more than 90 days prior to submitting this Standard Dredge and Fill Permit Application.

Mitigation Pre-Application Meeting Date: Month: Day: Year:

(☒ N/A - Mitigation is not required)

SECTION 10 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c).

Have you submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent impacts that will remain after avoidance and minimization demonstration? ☐ Yes ☐ No

(☒ N/A - Mitigation is not required)

SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))

For each jurisdictional area that will be/has been impacted, provide square feet (SF) and, if applicable, linear feet (LF) of impact, and note whether the impact is after-the-fact (ATF; i.e., work was started or completed without required permitting).

For intermittent and ephemeral* streams, the linear footage of impact is measured along the thread of the channel. **Please note, Installation of a stream crossing in an ephemeral stream may be undertaken without a permit per Rule Env-Wt 309.02(d), however other dredge or fill impacts should be included below.*

For perennial streams/rivers, the linear footage of impact is calculated by summing the lengths of disturbances to the channel and banks.

Permanent impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA		PERMANENT			TEMPORARY		
		SF	LF	ATF	SF	LF	ATF
Wetlands	Forested Wetland			☐			☐
	Scrub-shrub Wetland			☐			☐
	Emergent Wetland			☐			☐
	Wet Meadow			☐			☐
	Vernal Pool			☐			☐
	Designated Prime Wetland			☐			☐
	Duly-established 100-foot Prime Wetland Buffer			☐			☐
Surface Water	Intermittent / Ephemeral* Stream			☐			☐
	Perennial Stream or River			☐			☐
	Lake / Pond		20	☐			☐
	Docking - Lake / Pond			☐			☐
	Docking – River			☐			☐
B	Bank - Intermittent Stream			☐			☐

	Bank - Perennial Stream / River			☐			☐
	Bank/shoreline - Lake / Pond			☐	1,669		☐
Tidal	Tidal Waters			☐			☐
	Tidal Marsh			☐			☐
	Sand Dune			☐			☐
	Undeveloped Tidal Buffer Zone (TBZ)			☐			☐
	Previously-developed TBZ			☐			☐
	Docking - Tidal Water			☐			☐
	TOTAL		20		1,669		

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

☐ **MINIMUM IMPACT FEE:** Flat fee of $400

☐ **NON-ENFORCEMENT RELATED, PUBLICLY-FUNDED AND SUPERVISED RESTORATION PROJECTS, REGARDLESS OF IMPACT CLASSIFICATION:** Flat fee of $400 (refer to RSA 482-A:3, 1(c) for restrictions)

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

Permanent and temporary (non-docking):	1,669 SF	× $0.40 =	$ 667.60
Seasonal docking structure:	SF	× $2.00 =	$
Permanent docking structure:	SF	× $4.00 =	$
Projects proposing shoreline structures (including docks) add $400 =			$
		Total =	$ 667.60
The application fee for minor or major impact is the above calculated total or $400, whichever is greater =			$ 667.60

SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05)

Indicate the project classification.

☐ Minimum Impact Project	☐ Minor Project	☒ Major Project

SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)

Initial each box below to certify:

Initials: CFC	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: CFC	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.
Initials: CFC	The signer understands that: • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: 1. Deny the application. 2. Revoke any approval that is granted based on the information. And 3. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. • The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. • The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.
Initials: CFC	If the applicant is not the owner of the property, each property owner signature shall constitute certification by the signer that he or she is aware of the application being filed and does not object to the filing.

ECTION 15 - REQUIRED SIGNATURE (Env-Wt 311.04(d); Env-Wt 311.11)

SIGNATURE (OWNER):	PRINT NAME LEGIBLY: Thomas J. Young, MYYTrio	DATE: 10/22/20
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY: Matthew C Young	DATE: 10/17/20
SIGNATURE (AGENT, IF APPLICABLE): Cathy Conway	PRINT NAME LEGIBLY: Cathy Conway Horizons Eng	DATE: 10-26-20

SECTION 16 - TOWN / CITY CLERK SIGNATURE (Env-Wt 311:04(f))	
As required by RSA 482-A:3, I(a),(1), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.	
TOWN/CITY CLERK SIGNATURE:	PRINT NAME LEGIBLY: Jennifer Coulter
TOWN/CITY: Tuftonboro	DATE:

RECEIVED
OCT 28 2020
BY:

DIRECTIONS FOR TOWN/CITY CLERK:
Per RSA 482-A:3, I(a)(1)

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

DIRECTIONS FOR APPLICANT:
Submit the single, original permit application form bearing the signature of the Town/City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery at the address at the bottom of this page.

THIS MAP IS FOR ASSESSMENT PURPOSES. IT IS NOT VALID FOR LEGAL DESCRIPTION OR CONVEYANCE.

THE HORIZONTAL DATUM IS THE NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM, NAD 83.

ORIGINAL MAPPING BY SUSAN K. RABBIDEAUX, MELVIN VILLAGE, NH

REVISED & REPRINTED BY CAI Technologies

LEGEND

SCALE: 1" = 200'

REVISED TO: APRIL 1, 2020

PROPERTY MAPS

TUFTONBORO

NEW HAMPSHIRE

INDEX DIAGRAM

MAP NO. 14

horizons Engineering

LITTLETON NH • NEWPORT VT
NEW LONDON NH • POMFRET VT • KENNEBUNK ME

MELVIN VILLAGE MARINA

NEGATIVE LIFT

TUFTONBORO, NEW HAMPSHIRE

USGS MAP

PROJECT #:	19182
ENGIN'D BY:	-
DRAWN BY:	SJB
DATE:	MAY 2020

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NEW HAMPSHIRE NATURAL HERITAGE BUREAU
NHB DATACHECK RESULTS LETTER

To: Stephen Boutin, Horizons Engineering
34 School Street
Littleton, NH 03561

From: NH Natural Heritage Bureau

Date: 4/27/2020 (valid for one year from this date)

Re: Review by NH Natural Heritage Bureau of request submitted 4/24/2020

NHB File ID NHB20-1143 **Applicant:** Matt Young

Location: Melvin Village
Tax Maps: Map 14 Lot 3-3

Project Description: The purpose of the project is to improve the efficiency of launching boats by installing a dug in basin that will serve as place for a negative lift (forklift that can lower boats below its wheelbase into the water) to launch boat. This should allow for better control over launching operations and improve the safety of boat launching and retrieval. The project will involve installing a turbidity curtain within the confines of an existing 2 boat slip area. The contractor will then drive sheeting into an existing grass slope on 3 sides of the proposed dug in basin, while leaving the exiting wooden bulkhead in place. Earth will then be removed in the area confined by these 4 stable sides. The existing wooden bulkhead will then be removed, stairs installed and the disturbed earth surfaces will be returned to their existing covering. The turbidity curtain will then be removed.

The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program 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.

It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 4/24/2020, and cannot be used for any other project.

Department of Natural and Cultural Resources
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DNCR/NHB
172 Pembroke Rd.
Concord, NH 03301

MAP OF PROJECT BOUNDARIES FOR: **NHB20-1143**

NHB20-1143

Department of Natural and Cultural Resources
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DNCR/NHB
172 Pembroke Rd.
Concord, NH 03301

0 foot Abutters List Report

Tuftonboro, NH
October 07, 2020

Subject Property:

Parcel Number: 014-003-003-000
CAMA Number: 014-003-003-000
Property Address: 462 GWH

Mailing Address: M Y T Y INC
PO BOX 312
MELVIN VILLAGE, NH 03850

Abutters:

Parcel Number: 014-002-023-000
CAMA Number: 014-002-023-000
Property Address: 467 GWH

Mailing Address: YOUNG REV TRUST, MATTHEW C.
YOUNG, MATTHEW C., TRUSTEE

Parcel Number: 014-002-024-000
CAMA Number: 014-002-024-000
Property Address: 463 GWH

Mailing Address: MELVIN VILLAGE MARINA, INC.

Parcel Number: 014-003-002-000
CAMA Number: 014-003-002-000
Property Address: 464 GWH

Mailing Address: CLOSE, KEVIN M CLOSE, ROBIN

Parcel Number: 014-003-004-000
CAMA Number: 014-003-004-000
Property Address: 460 GWH

Mailing Address: MELVIN VILLAGE COMM CHURCH

Parcel Number: 014-003-005-000
CAMA Number: 014-003-005-000
Property Address: 456 GWH

Mailing Address: WARNER IV, JOHN

[illegible] SLOPES OR FLATTER ARE RECOMMENDED. WHERE POSSIBLE 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 WHENEVER PRACTICAL.

3. ESTABLISHING VEGETATION
A. FERTILIZER SHALL NOT BE USED ON THIS PROJECT DUE TO THE PROXIMITY TO SURFACE WATERS. THE USE OF MANURE AND LIME AS A SOIL AMENDMENT/CONDITIONER IS ACCEPTABLE.

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

C. SEEDING GUIDE:

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

D. SEEDING RATES:

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL:	30 30 2 62	0.45 0.45 0.05 0.95
B TALL FESCUE CREEPING RED FESCUE CROWN VETCH OR PLATPEA TOTAL:	15 10 15 OR 30 40 OR 55	0.35 0.25 0.35 OR 0.75 0.95 OR 1.25
C TALL FESCUE PLATPEA TOTAL:	30 30 60	0.45 0.75 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 60 TO SEPTEMBER 1.

F. TEMPORARY SEEDING RATES:

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

4. MULCH
A. EROSION CONTROL MATTING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND 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 GROWTH.

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

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

MULCH NETTING DETAIL

SOURCE: USDA SOIL CONSERVATION SERVICE
NO SCALE

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

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

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

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

5. AVOID SUBSTANTIAL INCREASE IN RUNOFF LEAVING THE SITE.

B. MINIMIZE POLLUTION OF WATER DURING CONSTRUCTION ACTIVITIES
1. STOCKPILE TOPSOIL REMOVED FROM CONSTRUCTION AREA AND SPREAD OVER ANY DISTURBED AREAS PRIOR TO REVEGETATION. TOPSOIL STOCKPILES MUST BE PROTECTED FROM EROSION.

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

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

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

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

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

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

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

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

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

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

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

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

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:

1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO THAT SHOWN ON THE PLANS AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY RAIN 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.

FILTREXX® SILTSOXX™ SEDIMENT CONTROL

NOT TO SCALE

SOIL STOCKPILING IS TO BE USED WHERE TOPSOIL IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS.

TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVERS, MULCH, NON-VEGETATIVE COVERS, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED PERIOD OF USE.

INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.

2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.

3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES AND THEN STABILIZED WITH VEGETATION OR COVERED.

SOIL STOCKPILING DETAIL

NOT TO SCALE

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

FLOATING TURBIDITY BARRIER DETAIL

NOT TO SCALE

1. INSTALL TURBIDITY CURTAIN AND SILT SOXX.

2. DRIVE SHEETING AND INSTALL DEADMAN/TIEBACKS WHILE LEAVING THE EXISTING WOODEN BULKHEAD IN PLACE.

3. EARTH WILL THEN BE REMOVED IN THE AREA CONFINED BY THESE 4 STABILIZED SIDES AND STOCKPILED EARTH CONTAINED BY SILT SOXX OR SILT FENCE.

4. THE EXISTING WOODEN BULKHEAD WILL THEN BE REMOVED.

5. STAIRS WILL BE INSTALLED AND THE DISTURBED EARTH SURFACES WILL BE RETURNED TO THEIR EXISTING COVERING (EXISTING MAINTAINED GRASS AREAS WILL BE SEEDED WITH CONSERVATION MIX AND COVERED WITH WET FREE EROSION CONTROL MATTING).

6. POUR CONCRETE PAD AND INSTALL METAL WHEEL STOP.

7. THE TURBIDITY CURTAIN WILL BE REMOVED ONCE NO VISIBLE TURBIDITY IS PRESENT WITHIN ITS CONFINES AND ANY SEDIMENT ACCUMULATION TRAPPED BY SILT SOXX WILL BE REMOVED.

8. SITE WILL BE MONITORED FOR VEGETATION GROWTH AND SEDIMENT ACCUMULATIONS BEHIND SILT SOXX WILL BE REMOVED IF THEY REACH 50% OF THE HEIGHT OF THE SILT SOXX.

9. REMOVE SILT SOXX ONCE AREA HAS 85% VEGETATIVE GROWTH.

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NEW LONDON NH · FORMERET VT · KENNEBUNK ME

MELVIN VILLAGE MARINA

NEGATIVE LIFT

TUFTONBORO, NEW HAMPSHIRE

EROSION CONTROL NOTES AND DETAILS

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE: OCT 2020	PROJECT #: 19182
ENGINEER: TBP	DRAWN BY: SJR
CHECKED BY: CFC	ARCHIVE #: H-

SHEET 2 OF 2

\\192.168.50.34\Horizons_2019\19182 Melvin Village Marina- Negative Lift\CIVIL\Plans\19182_Site-02.dwg, Erosion+Details, 10/16/2020 4:21:11 PM, DriverHoCopyright

LEGEND

- PROPOSED SHEET PILING
- PROPOSED SILT SOXX
- PROPOSED TURBIDITY CURTAIN
- PHOTO LOCATION AND NUMBER

SECTION A-A
(NEGATIVE LIFT)

APPROXIMATE SCALE 1" = 10'

PLAN REFERENCE:

1. TOPOGRAPHIC CONTOURS SHOWN HEREON WERE DERIVED FROM NEW HAMPSHIRE LIDAR PROJECT BARE EARTH DEM FILES, DATED 2015.
2. ELEVATIONS ON THIS PLAN REFERENCE NAVD 88 VERTICAL DATUM.
3. PROPERTY LINE SHOWN IS APPROXIMATE AND WAS CALCULATED FROM "PLAN OF SUBDIVISION FOR THOMAS J. & MARY MARTHA YOUNG" DATED APRIL 29, 1988 AND REVISED AUGUST 15, 1988, SURVEYED AND PREPARED BY WHITE MOUNTAIN SURVEY CO, INC.

FOR REVIEW
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MELVIN VILLAGE MARINA

NEGATIVE LIFT

TUFTONBORO, NEW HAMPSHIRE

SITE PLAN

NO.	DATE	REVISION DESCRIPTION	DWG	CHKD

DATE: OCT 2020	PROJECT #: 19182
DWGNTD BY: TBP	DRAWN BY: SJB
CHECKD BY: CFC	ARCHIVE #:

MELVIN VILLAGE MARINA

NEGATIVE LFIT

TUFTONBORO, NEW HAMPSHIRE

OCTOBER 2020

LOCATION PLAN

SCALE: 1" = 2000'

CLIENT:

MELVIN VILLAGE MARINA
C/O MATT YOUNG
463 GOVERNOR WENTWORTH HIGHWAY
MELVIN VILLAGE, NH 03850
(603) 544-3583

PROPERTY OWNER:

M Y T Y, INC.
PO BOX 312
MELVIN VILLAGE, NH 03850
(603) 544-3583

ENGINEER:

horizons Engineering

34 SCHOOL STREET
LITTLETON, NH 03561
(603) 444-4111

SHEET LIST:

COVER SHEET	
SHEET 1 OF 2	SITE PLAN
SHEET 2 OF 2	CONSTRUCTION SEQUENCE, EROSION CONTROL NOTES AND DETAILS

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