NHDES-W-06-012

WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau
Land Resources Management

Check the status of your application: www.des.nh.gov/onestop

RECEIVED SEP - 7 2016 TOWN OF NEW LONDON

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

1. REVIEW TIME: Indicate your Review Time below. To determine review time, refer to Guidance Document A for instructions.

☐ Standard Review (Minimum, Minor or Major Impact) ☒ Expedited Review (Minimum Impact only)

2. MITIGATION REQUIREMENT:
If mitigation is required a Mitigation-Pre Application meeting must occur prior to submitting this Wetlands Permit Application. To determine if Mitigation is Required, please refer to the Determine if Mitigation is Required Frequently Asked Question.

Mitigation Pre-Application Meeting Date: Month: __ Day: __ Year: ____
☒ N/A - Mitigation is not required

3. PROJECT LOCATION:
Separate wetland permit applications must be submitted for each municipality that wetland impacts occur within.

ADDRESS: **80 Pike Brook Road**			TOWN/CITY: **New London**
TAX MAP: **135**	BLOCK:	LOT: **10**	UNIT:
USGS TOPO MAP WATERBODY NAME:	☒ NA	STREAM WATERSHED SIZE:	☒ NA
LOCATION COORDINATES (If known):		☐ Latitude/Longitude ☐ UTM ☐ State Plane	

4. PROJECT DESCRIPTION:
Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

A private road crossing of a jurisdictional wetland with 150 SF of temporary impacts and 525 SF of permanent impacts.

5. SHORELINE FRONTAGE:

☒ NA This does not have shoreline frontage. SHORELINE FRONTAGE:

Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line.

6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:
Please indicate if any of the following permit applications are required and, if required, the status of the application.
To determine if other Land Resources Management Permits are required, refer to the Land Resources Management Web Page.

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	☒ YES ☐ NO	AoT-1072 ____	☒ APPROVED ☐ PENDING ☐ DENIED
Individual Sewerage Disposal per RSA 485-A:2	☐ YES ☒ NO	____	☐ APPROVED ☐ PENDING ☐ DENIED
Subdivision Approval Per RSA 485-A	☐ YES ☒ NO	____	☐ APPROVED ☐ PENDING ☐ DENIED
Shoreland Permit Per RSA 483-B	☒ YES ☐ NO	2015-03317	☒ APPROVED ☐ PENDING ☐ DENIED

7. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:
See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: NHB 16 - 2681 .

b. ☐ Designated River the project is in ¼ miles of: _____ ; and
date a copy of the application was sent to the Local River Management Advisory Committee: Month: __ Day: __ Year: ____
☒ N/A

8. APPLICANT INFORMATION (Desired permit holder)			
LAST NAME, FIRST NAME, M.I.:			
TRUST / COMPANY NAME: **Pike Brook Road Revocable Trust of 2014 , Jacqueline M. Hudkins, Trustee**	MAILING ADDRESS: **P.O. Box 6630**		
TOWN/CITY: **Portsmouth**		STATE: **NH**	ZIP CODE: **03802**
EMAIL or FAX:	PHONE:		
ELECTRONIC COMMUNICATION: By initialing here: _____, I hereby authorize NHDES to communicate all matters relative to this application electronically			

9. PROPERTY OWNER INFORMATION (If different than applicant)			
LAST NAME, FIRST NAME, M.I.:			
TRUST / COMPANY NAME:	MAILING ADDRESS:		
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:	PHONE:		
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically			

10. AUTHORIZED AGENT INFORMATION			
LAST NAME, FIRST NAME, M.I.: **Grigsby, Greg, M.**	COMPANY NAME: **Pellettieri Associates, Inc.**		
MAILING ADDRESS: **P.O. Box 717**			
TOWN/CITY: **Warner**		STATE: **NH**	ZIP CODE: **03278**
EMAIL or FAX: **ggrigsby@pellettieriassoc.com**	PHONE: **603-456-3678**		
ELECTRONIC COMMUNICATION: By initialing here **GMG** , I hereby authorize NHDES to communicate all matters relative to this application electronically			

11. PROPERTY OWNER SIGNATURE:

See the Instructions & Required Attachments document for clarification of the below statements

By signing the application, I am certifying that:

1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
7. I have submitted a Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for NHPA 106 compliance.
8. I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.
9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.
11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
12. The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not

Property Owner Signature	Print name legibly	Date
Jacqueline M Hudkins	Jacqueline M. Hudkins	8/26/2016

MUNICIPAL SIGNATURES

12. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

⇨	Print name legibly	Date

DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

13. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), 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.

⇨ Linda Nicklos	Linda Nicklos	New London	9/7/16
Town/City Clerk Signature	Print name legibly	Town/City	Date

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. 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.
4. 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
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

1. 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.

Locus Plan
Not To Scale

Legend

Photo Location/View

Existing Culvert (Daylight West)

Locus Plan
Not To Scale

Legend

Photo Location/View

Existing Wetland & Vegetation

Pike Brook Rev. Trust 2014

Pike Brook Road, New London, NH
Existing Site Conditions
24 Nov. 2015

Pellettieri Associates, Inc
Landscape Architecture & Construction
169 Kearsarge Mountain Road Warner, NH 03278
Phone (603) 456-3678 Fax (603) 456-3229
E-mail: ggrigsby@pellettieriassoc.com

Legend

Photo Location/View

Existing Vegetation/Wetland Crossing Area

Legend

Photo Location/View

Existing Vegetation/Wetland Crossing Area

Pike Brook Rev. Trust 2014

Pike Brook Road, New London, NH
Existing Site Conditions
24 Nov. 2015

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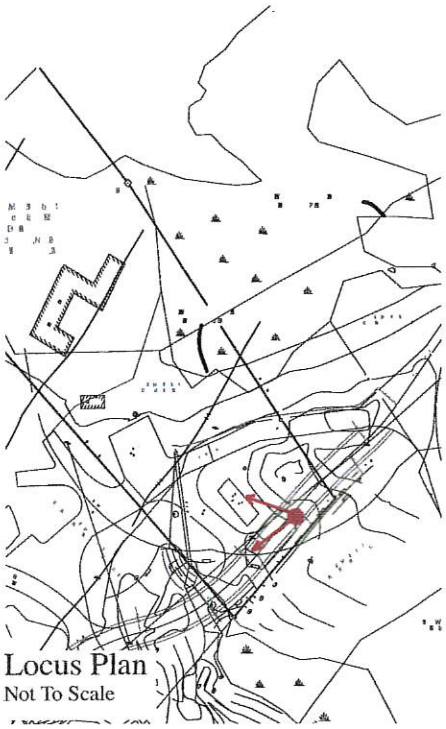
Legend

Photo Location/View

Existing Road Alignment



Legend

Photo Location/View

Existing Vegetation/Proposed Road Alignment

Pike Brook Rev. Trust 2014

Pike Brook Road, New London, NH

Existing Site Conditions

24 Nov. 2015

Pellettieri Associates, Inc

Landscape Architecture & Construction

169 Kearsarge Mountain Road Warner, NH 03278

Phone (603) 456-3678 Fax (603) 456-3229

E-mail: ggrigsby@pellettieriassoc.com

14. IMPACT AREA:

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

Permanent: impacts that will remain after the project is complete.

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

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland	525 SF	☐ ATF	150 SF	☐ ATF
Scrub-shrub wetland		☐ ATF		☐ ATF
Emergent wetland		☐ ATF		☐ ATF
Wet meadow		☐ ATF		☐ ATF
Intermittent stream		☐ ATF		☐ ATF
Perennial Stream / River	/	☐ ATF	/	☐ ATF
Lake / Pond	/	☐ ATF	/	☐ ATF
Bank - Intermittent stream	/	☐ ATF	/	☐ ATF
Bank - Perennial stream / River	/	☐ ATF	/	☐ ATF
Bank - Lake / Pond	/	☐ ATF	/	☐ ATF
Tidal water	/	☐ ATF	/	☐ ATF
Salt marsh		☐ ATF		☐ ATF
Sand dune		☐ ATF		☐ ATF
Prime wetland		☐ ATF		☐ ATF
Prime wetland buffer		☐ ATF		☐ ATF
Undeveloped Tidal Buffer Zone (TBZ)		☐ ATF		☐ ATF
Previously-developed upland in TBZ		☐ ATF		☐ ATF
Docking - Lake / Pond		☐ ATF		☐ ATF
Docking - River		☐ ATF		☐ ATF
Docking - Tidal Water		☐ ATF		☐ ATF
TOTAL	/		/	

15. APPLICATION FEE: See the Instructions & Required Attachments document for further instruction

☒ Minimum Impact Fee: Flat fee of $ 200

☐ Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) _____ sq. ft. X $0.20 = $ _____

Temporary (seasonal) docking structure: _____ sq. ft. X $1.00 = $ _____

Permanent docking structure: _____ sq. ft. X $2.00 = $ _____

Projects proposing shoreline structures (including docks) add $200 = $ _____

Total = $ _____

The Application Fee is the above calculated Total or $200, whichever is greater = $ **200**

PELLETTIERI ASSOCIATES, INC.
LANDSCAPE ARCHITECTURE, CONSTRUCTION & FINE GARDENING
169 KEARSARGE MOUNTAIN ROAD : WARNER, NH 03278 : (603)456-3678

Env-Wt 302.03 Need, Avoidance and Minimization of Impacts

(1) Potential impacts have been avoided to the maximum extent practicable.

We have carefully designed the roadway alignment to be least impacting. A majority of work takes place in previously disturbed areas. The roadway alignment, and the alignment of the driveways, have been carefully designed to preserve existing trees and to avoid the recently installed septic system on the adjacent property. Additionally, the engineered site design will receive the highest level of scrutiny by the NHDES Alteration of Terrain bureau and the Wetlands Bureau, since the work is adjacent to a larger, previously permitted area of disturbance to the south. "Low Impact Development" techniques, such as rain gardens will be utilized, helping ensure that storm water is appropriately treated on site.

(2) Any unavoidable impacts have been minimized

The proposed alignment moves the road further out of the town-imposed wetlands buffer to the north, and only impacts a limited amount of vegetation, as the proposed alignment primarily follows an existing utility cut. It is important to note, that the proposed wetland to be crossed is in no way connected to, or contiguous with, the 'significant' wetland to the north. The current road will be abandoned and the compacted soils removed. The area will be recontoured to blend with existing grades, using soils hospitable to plant growth, and revegetated with native, or improved native plant selections (see attached restoration plan).

Need for proposed project:

The primary reason for the wetlands crossing is for the safety of the users of the Miller property (property to the north). Currently, all traffic moves through the middle of the Miller property, where it conflicts with pets, pedestrians and users of the property. While it is a private road, not everyone obeys the 15 mph posted speed limit, which increases the likelihood of an accident.

This portion of the roadway realignment is part of a larger overall realignment of the rest of the road to the south, most of which has been permitted, and some of which has been constructed. Please see the accompanying letters signed by the abutters within 20' of the proposed work, indicating approval/understanding of the proposed work.

US Army Corps of Engineers®
New England District

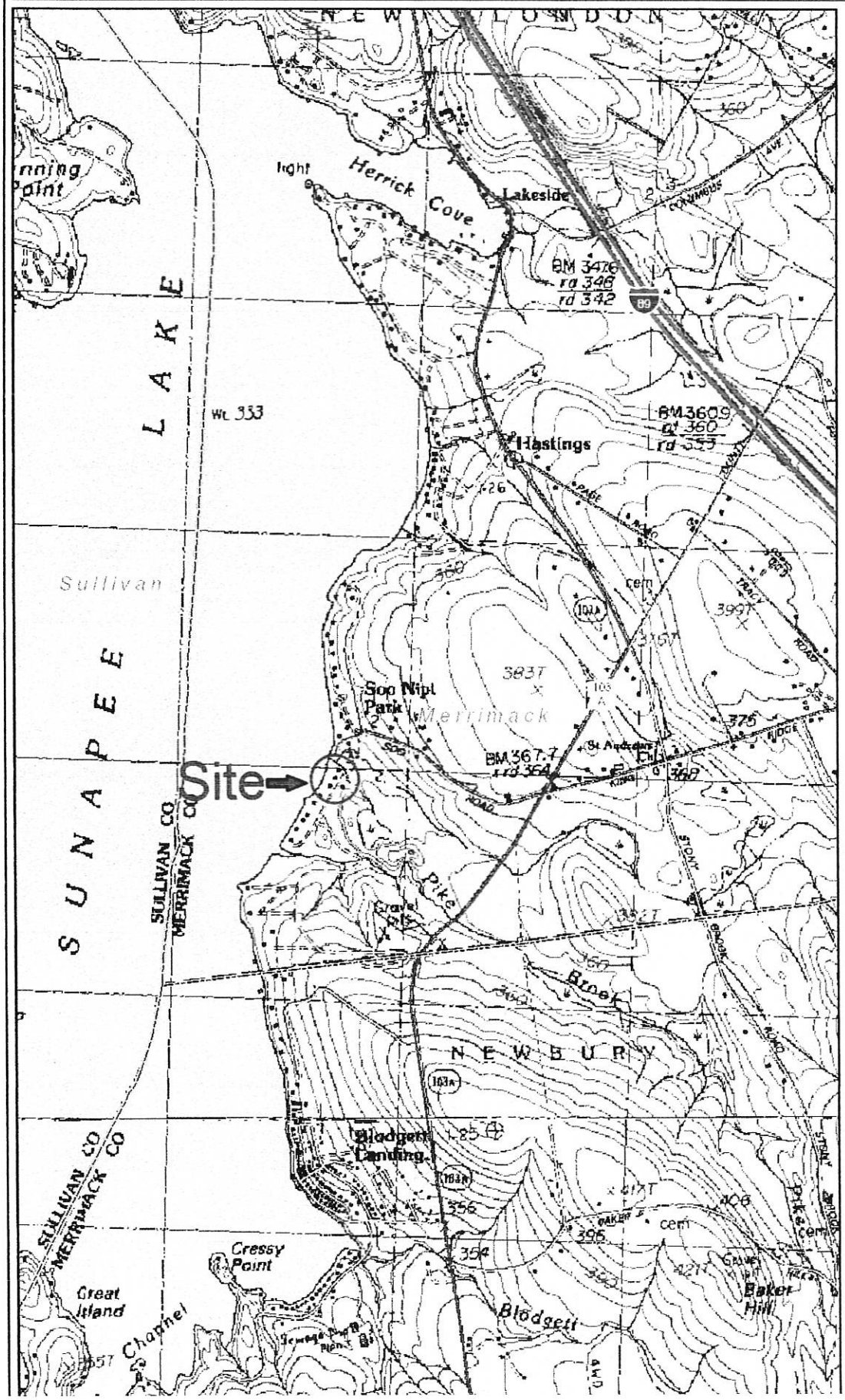
New Hampshire Programmatic General Permit (PGP)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)

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

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*	✓	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?		✓
2.2 Are there proposed impacts to SAS, shellfish beds, special wetlands and vernal pools (see PGP, GC 26 and Appendix A)? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) website, www.nhnaturalheritage.org, specifically the book Natural Community Systems of New Hampshire.		✓
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	✓	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		✓
2.5 The overall project site is more than 40 acres.		✓
2.6 What is the size of the existing impervious surface area?	3,185 SF	
2.7 What is the size of the proposed impervious surface area?	3,515 SF	
2.8 What is the % of the impervious area (new and existing) to the overall project site?	11.02%	
3. Wildlife	Yes	No
3.1 Has the NHB determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require a NHB determination.)		✓
3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: • PDF: www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html.		✓

NH GRANIT

Pike Brook Road Revoc. Trust 2014

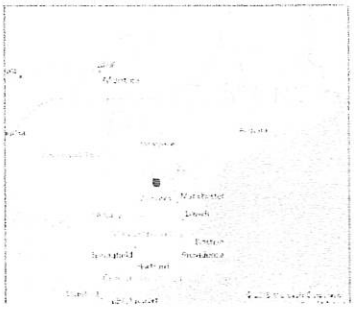


Legend

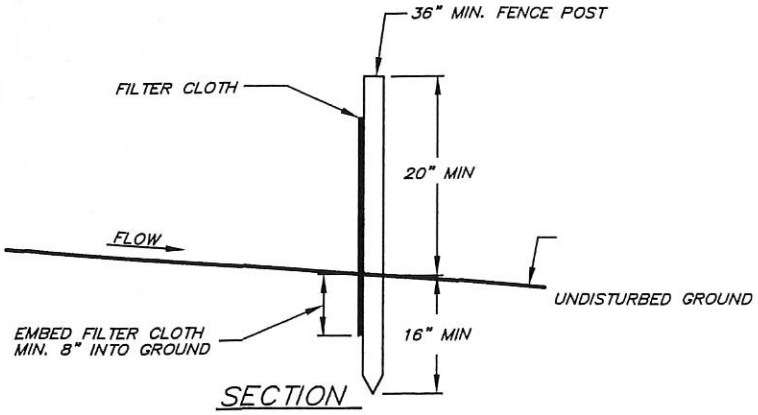
- State
- County
- City/Town
- Interstates
- Turnpikes
- US Routes
- State Routes
- Local Roads

Map Scale
1: 24,000

Notes



PERSPECTIVE VIEW



SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. FILTER CLOTH TO BE FASTENED SECURELY TO FENCE POST WITH TIES AT TOP, MID SECTION AND BOTTOM.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED STAPLED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT "BULGES" IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

MAINTENANCE REQUIREMENTS

1. INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SILT FENCE DETAIL

(NOT TO SCALE)

OSED DRAINAGE & EROSION CONTROL PLAN
~PIKE BROOK ROAD RE-ALIGNMENT~

PREPARED FOR PROPERTY LOCATED AT

TAX MAP 135 ~ LOTS 10 & 11
and TAX MAP 136 ~ LOT 7

PIKE BROOK ROAD
NEW LONDON, NEW HAMPSHIRE
JUNE, 2016

MAN ENGINEERING, INC.
P.O. BOX 4 ROUTE 114
SUTTON, NEW HAMPSHIRE 03260
(603) 927-4163

D1

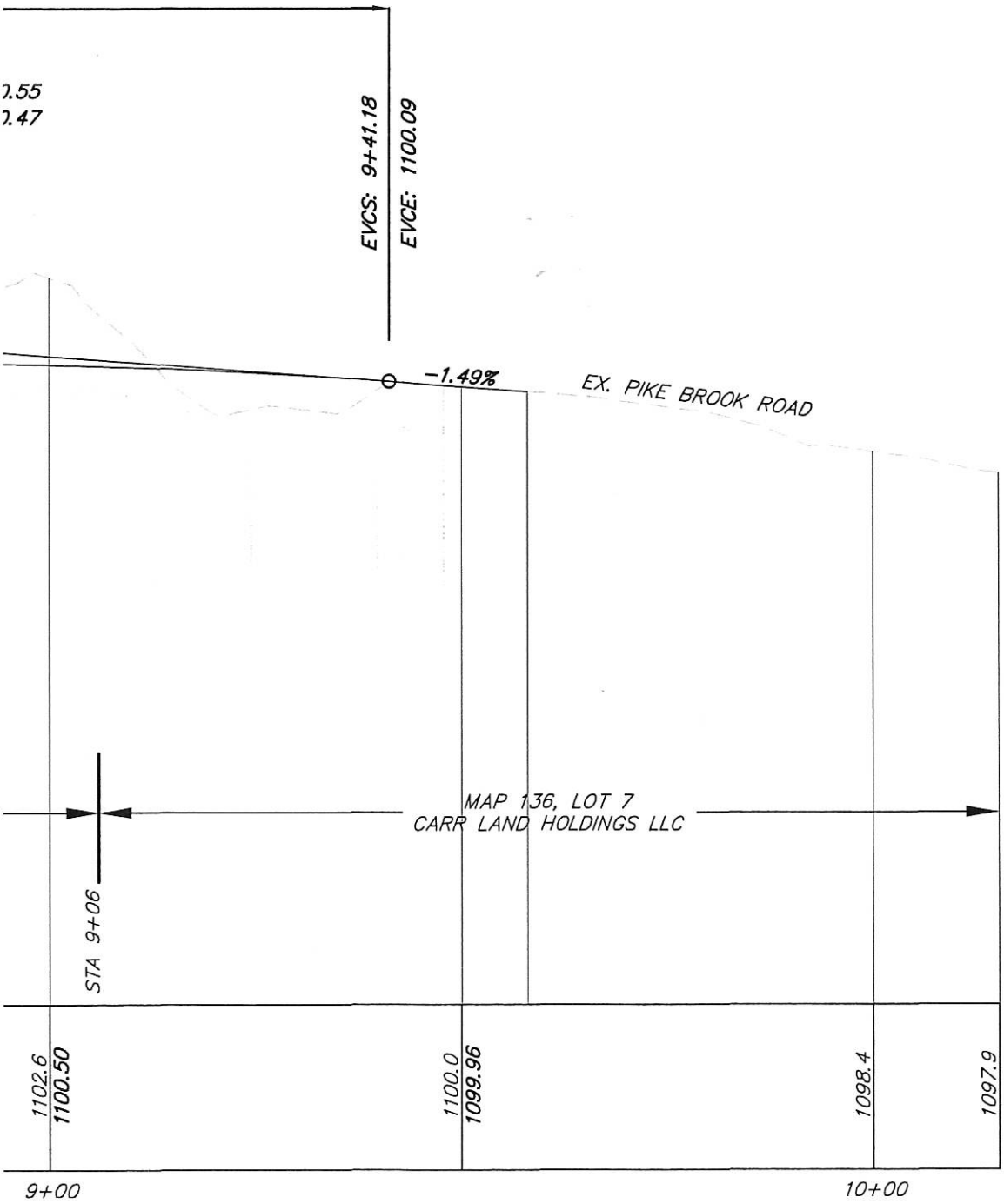
PROJECT NO. 215-015 DRAWING NO. 20EROS_MILLER

NEW LONDON, NEW HAMPSHIRE
JUNE 17, 2016

MAN ENGINEERING, INC.

P.O. BOX 4 ROUTE 114
SUTTON, NEW HAMPSHIRE 03260
(603) 927-4163

D2



PROJECT NO. 215-015 DRAWING NO. 20EROS_MILLER

TREATMENT IN THIS AREA

S LLC

Planting Notes:

- Plant size and types subject to avaiabilty at the time of planting. 'Native' or 'Improved Native' substitutions only, to be approved by Landscape Architect.

-Plant locations are approximate, plant locations my vary based on subsurface conditions and view cooridors. Final plant locations to be approved in field by Owner and/or Landscape Architect prior to installation.

Name	Botanical Name	Scheduled Size
	Abies balsamea	7-8' B&B / 10-12' B&B
mlock	Tsuga canadensis	8-10' B&B
e	Picea glauca	8-10' B&B
Hay-scented Fern	Dennstaedtia punctiloba	Palletized Sod
adowsweet	Spiraea latifolia	#3
untain Laurel	Kalmia latifolia 'Elf'	4-5'
ydrangea	Hydrangea arborescens 'Incrediball'	#7
ododendron	Rhododendron maximum	5-6' BB
et Clethra	Clethra alnifolia	#10
	Hamamelis virginiana	6-7' B&B
er Birch (R)	Betula nigra 'Heritage'	12-14' B&B
	Quercus rubra	3-3.5" C
Red Maple	Acer rubrum 'Red Sunset'	2.5-3" C
e Oak	Quercus bicolor	3-3.5" C

PAPE AS IN

LANDSCAPE ARCHITECTU
169 KEARSARGE MOUNTAIN ROAD

Project Miller Residence

Title Site / Landscape Restoration Plan

Job No.

Scale 1" = 10'

Date 21 Mar 16

Revised 23 Mar 16

Drawn by PAI

RP

Tax Map

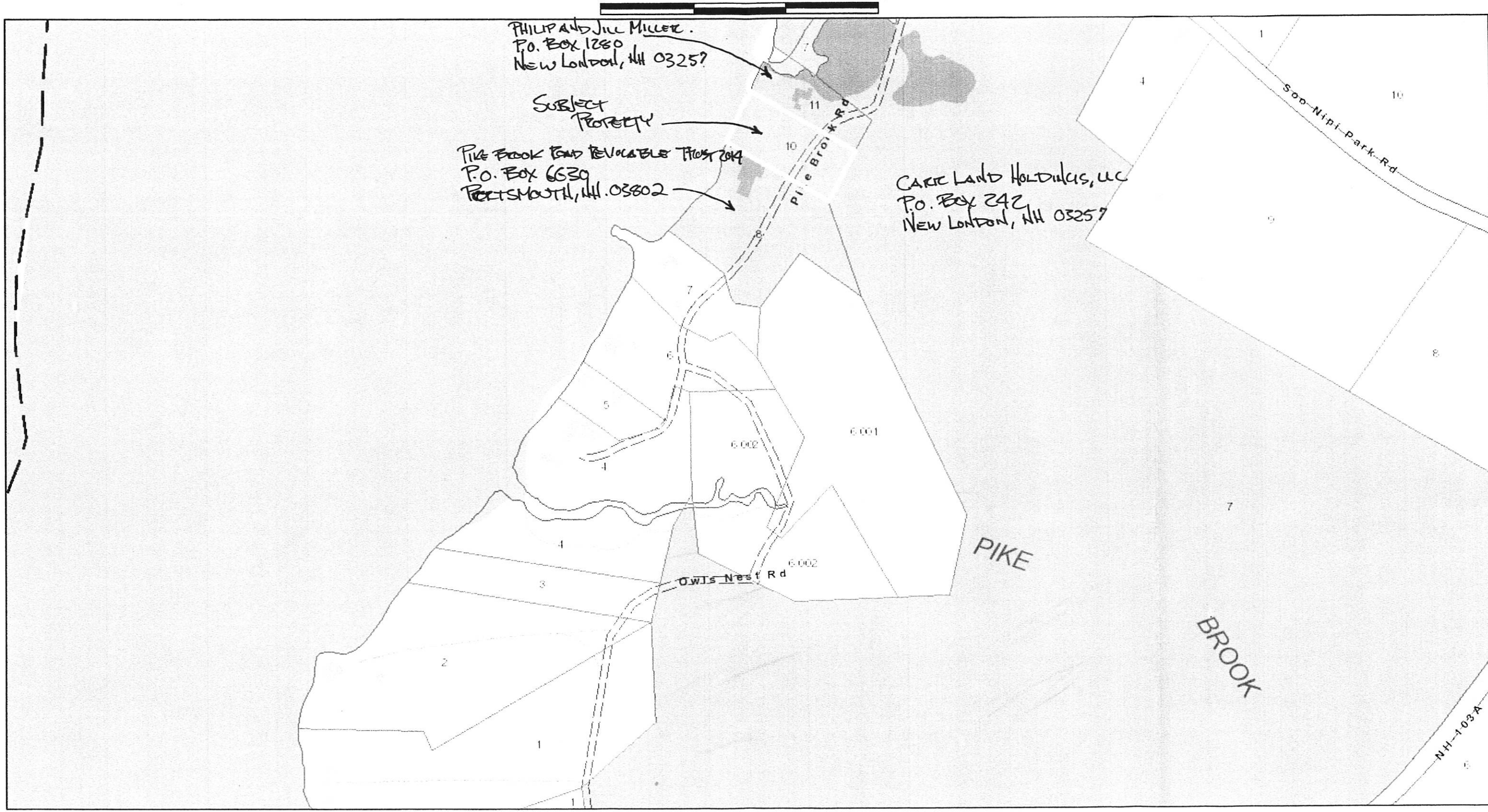
Tri Town, NH

1 inch = 268 Feet

0 268 536 804

August 29, 2016

www.cai-tech.com



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