



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File Number _____

Document Transaction Number _____

Boxford

City/Town

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
 Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

Lake Shore Road
 a. Street Address

Boxford
 b. City/Town

01921
 c. Zip Code

42.714661
 d. Latitude

-71.082802
 e. Longitude

9-1-28.1
 f. Assessors Map/Plat Number

g. Parcel /Lot Number

2. Applicant:

Alan
 a. First Name

Benson
 b. Last Name

Town of Boxford
 c. Organization

Town Hall - 7A Spofford Road
 d. Street Address

Boxford
 e. City/Town

MA
 f. State

01921
 g. Zip Code

9788876000
 h. Phone Number

9788875361
 i. Fax Number

abenson@town.boxford.ma.us
 j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Richard
 a. First Name

Tomczyk
 b. Last Name

BTA/BOLT
 c. Company

42 Depot Road
 d. Street Address

Boxford
 e. City/Town

MA
 f. State

01921
 g. Zip Code

9788876469
 h. Phone Number

i. Fax Number

richard.tomczyk@outlook.com
 j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

FEE EXEMPT/Municipality
 a. Total Fee Paid

Fee Exempt
 b. State Fee Paid

Fee Exempt
 c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

Construct 60 foot long elevated boardwalk over BVW and intermittent stream

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. Single Family Home
- 2. Residential Subdivision
- 3. Commercial/Industrial
- 4. Dock/Pier
- 5. Utilities
- 6. Coastal engineering Structure
- 7. Agriculture (e.g., cranberries, forestry)
- 8. Transportation
- 9. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

310 CMR 10.53(3)j, Catwalks, footbridges, etc.
2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Essex

a. County

33413

c. Book

b. Certificate # (if registered land)

523

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Bank	1. linear feet _____	2. linear feet _____
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	10 1. square feet _____	0 2. square feet _____
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet _____ 3. cubic yards dredged _____	2. square feet _____

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____ 3. cubic feet of flood storage lost _____	2. square feet _____ 4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____ 2. cubic feet of flood storage lost _____	3. cubic feet replaced _____
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland _____	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
 Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet _____ 2. cubic yards dredged _____	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet _____	2. cubic yards beach nourishment _____
e. <input type="checkbox"/> Coastal Dunes	1. square feet _____	2. cubic yards dune nourishment _____

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet _____	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet _____	
h. <input type="checkbox"/> Salt Marshes	1. square feet _____	2. sq ft restoration, rehab., creation _____
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet _____ 2. cubic yards dredged _____	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet _____	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above 1. cubic yards dredged _____	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet _____	

4. Restoration/Enhancement
 If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

a. square feet of BVW _____

b. square feet of Salt Marsh _____

5. Project Involves Stream Crossings

a. number of new stream crossings _____

b. number of replacement stream crossings _____



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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. Yes No

If yes, include proof of mailing or hand delivery of NOI to:

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

August 1, 2017

b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).

- c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:

(a) within wetland Resource Area less than 0.1 percent, boardwalk posts
percentage/acreage

(b) outside Resource Area less than 0.1 percent, boardwalk posts
percentage/acreage

2. Assessor's Map or right-of-way plan of site

2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) Photographs representative of the site

* Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

- (c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm).
Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following
1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)
 2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____
 3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?
- a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



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C. Other Applicable Standards and Requirements (cont'd)

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
1. Single-family house
 2. Emergency road repair
 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.



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D. Additional Information (cont'd)

- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.
 - Site Plan for a Footbridge at Nason's
 - a. Plan Title
 - Weatherell Design
 - b. Prepared By
 - September 28, 2018
 - c. Signed and Stamped by
 - 1" = 20'
 - d. Final Revision Date
 - e. Scale
 - Design for Nason Conservation Land Boardwalk Elevation and Section Drawings January 20, 2016
 - f. Additional Plan or Document Title
 - g. Date
- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.

E. Fees

- 1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name



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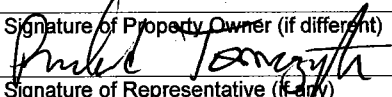
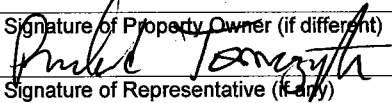
Boxford

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

<p> _____ 1. Signature of Applicant</p>	<p>TOWN ADMINISTRATOR _____ 2. Date</p>
<p> _____ 3. Signature of Property Owner (if different)</p>	<p>_____ 4. Date</p>
<p> _____ 5. Signature of Representative (if any)</p>	<p>10-24-18 _____ 6. Date</p>

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

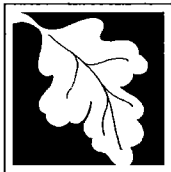
For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



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A. Applicant Information

1. Location of Project:

<u>Lake Shore Road</u>	<u>Boxford</u>
a. Street Address	b. City/Town
<u>Not Applicable - Fee Exempt</u>	<u>FEE EXEMPT</u>
c. Check number	d. Fee amount

2. Applicant Mailing Address:

<u>Alan</u>	<u>Benson</u>	
a. First Name	b. Last Name	
<u>Town of Boxford</u>		
c. Organization		
<u>7A Spofford Road</u>		
d. Mailing Address		
<u>Boxford</u>	<u>MA</u>	<u>01921</u>
e. City/Town	f. State	g. Zip Code
<u>9788876000 ext 502</u>	<u>9788875361</u>	<u>abenson@town.boxford.ma.us</u>
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

<u>Same</u>		
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Mailing Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email Address

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Fee should be calculated using the following process & worksheet. **Please see instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



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B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee

Step 5/Total Project Fee: _____

Step 6/Fee Payments:

Total Project Fee:	<u>N/A-Exempt - Town</u>
State share of filing Fee:	<u>a. Total Fee from Step 5</u>
City/Town share of filling Fee:	<u>N/A</u>
	<u>b. 1/2 Total Fee less \$12.50</u>
	<u>N/A</u>
	<u>c. 1/2 Total Fee plus \$12.50</u>

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and a copy of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

List of attachments for Nason Conservation Land Trail and Boardwalk NOI

- A. Project Description
- B. USGS Survey Locus Map
- C. Attachment C1 through C4 – BVW Delineation Data Forms
- D. Aerial Photograph of Estimated Habitat and project location
- E. USGS Map showing property boundaries and approximate project location
- F. Project location and adjacent protected open space lands
- G. Photos of project site existing conditions
- H. Abutting properties and hiking trails and aerial photo of project site
- I. Elevation and Section Drawings
- J. Assessor's Map of project site and abutting properties
- K. Donohoe Survey, Inc. Project Site Plan

Nason Conservation Land, Boxford, Trail, Footbridge/Boardwalk project description.

This project is the construction of a wooden elevated footbridge/boardwalk at the Nason Conservation Land, Boxford. The proposed elevated boardwalk will provide access to the trails on the Nason Conservation land. In addition, a trail will be created from the field off of Lake Shore Road to lead to the proposed footbridge/boardwalk. The Nason Conservation land is owned by the Town of Boxford.

The boardwalk will be constructed of marine grade ACQ pressure treated wood. It will be elevated over the wetland by approximately 30 inches.

The following is a description of the construction process as described by the builder: "The layout of the boardwalk will be established by setting stakes and strings across the Bordering Vegetated Wetland. Working in the wetland, boots and waders will keep us dry, and we expect to use saw horses and planks to make temporary staging for post setting. At each end of the boardwalk, on dry land, we will hand dig holes to a minimum of three feet of depth, or to an immovable stone. A length of straw-filled mesh erosion control tube can be used to surround each dig. Posts set in the wetland will be pointed at ends and hand driven using a two-man driver. It is a steel box, about 65 pounds, with capped end and "D" handles on two sides. We drive posts through the wetland soils, until we meet material we cannot move through. A staging area off of Lake Shore Road, in the mowed field is where we will store materials and do the cutting of boardwalk parts. Saw dust and wood scrap will be removed and taken to the G. Mello transfer station in Georgetown."

The alignment of the proposed boardwalk has been carefully considered and crosses the Bordering Vegetated Wetland at its narrowest point.

In addition, a trail will begin at the edge of the field adjacent to Lake Shore Road, go down a gently sloping grade to the boardwalk. Much of the trail will be located in Buffer Zone. Minimal clearing of vegetation will occur in the Buffer Zone, all work to be done by hand. The soil surface in the Buffer Zone will not be excavate or graded and some tree limbs and understory vegetation will be trimmed.

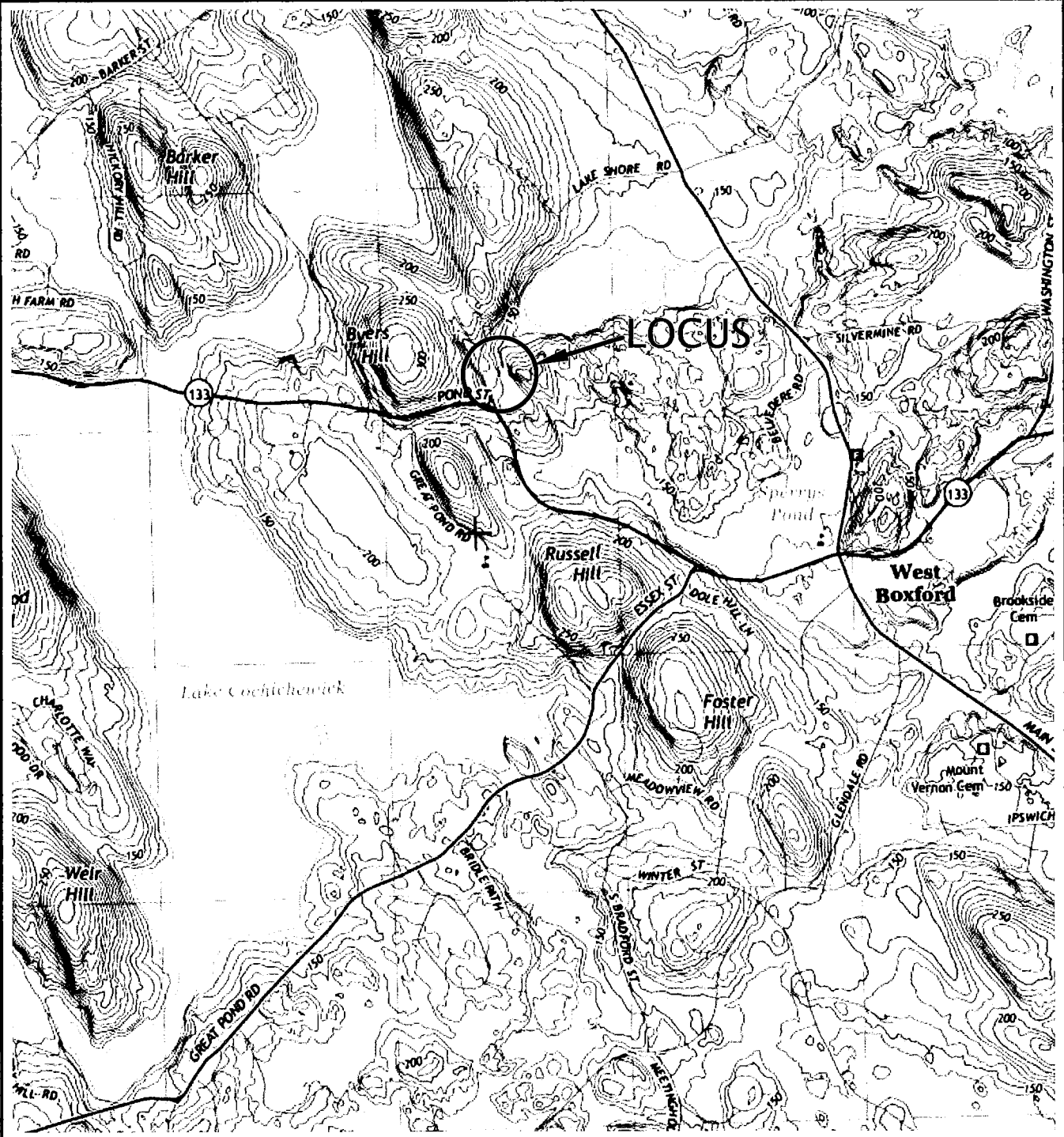
We have indicated on the NOI form that this project could qualify for a limited project per 310 CMR 10.53(3) j. catwalks, footbridges. To qualify for a limited project the Conservation Commission shall consider reasonable alternatives analysis is required for the limited project we offer the following:

In order to gain access to the town owned Nason Conservation land, the access from Lake Shore Road was identified as the best available access point. The boardwalk alignment will cross the wetland at its narrowest point. A crossing upstream or downstream of the selected location will require a much longer crossing and would be located further from the trail system. The boardwalk will be elevated to allow passage or any flowage in the intermittent stream and will allow adequate sunlight below the boardwalk to maintain vegetation. Alteration of the buffer zone and wetland resource area will be minimized by doing all the work by hand (no heavy equipment) to install the boardwalk support posts into the ground. The work will move in a progression from upland to the wetland and working from the boardwalk deck as it being constructed.

WILLIAMS & SPARAGES
CIVIL ENGINEERING &
LAND SURVEYORS



189 NORTH MAIN STREET
SUITE 101
MIDDLETON, MA 01949
PHONE: (978) 539-8088
FAX: (978) 539-8200



UNITED STATES GEOLOGIC SURVEY MAP
SOUTH GROVELAND, MASS QUAD
SCALE: 1:25,000 (metric contours)

LOCUS MAP
NASON LAND, LAKESHORE ROAD
BOXFORD, MA 01921



MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Boxford Prepared by: Greg Hochmuth Project location: Nason Land, Boxford, MA DEP File #: _____

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
 Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
 Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number: WFB3 Wet		Transect Number: WFB3 Wetland	Date of Delineation: 8/7/2018
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Trees				
Red Oak - <i>Quercus rubra</i>	50%	43%	YES	FACU-
Yellow Birch - <i>Betula alleghaniensis</i>	40%	34%	YES	FAC*
Beech - <i>Fagus grandifolia</i>	25%	21%	YES	FACU
Shrubs				
Sassafras - <i>Sassafras albidum</i>	40%	66%	YES	FAC+*
Witch Hazel - <i>Hamamelis virginiana</i>	20%	33%	YES	FAC-
Ground Cover				
Skunk Cabbage - <i>Symplocarpus foetidus</i>	20%	36%	YES	OBL*
Jewel weed - <i>Impatiens capensis</i>	15%	27%	YES	FACW*
Cinnamon Fern - <i>Osmunda cinnamomea</i>	20%	36%	YES	FACW*

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 5

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes
 title/date: NRCS Web Soil Survey
 map number:
 soil type mapped: 260B -- Sudbury fsl
 hydric soil inclusions: No

Are field observations consistent with soil survey? No
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
O	5-0	Organics	
C -- Med. Sand	0-12	2.5Y 5/4	-

Remarks: 4" to standing water and saturated at surface

3. Other:

Conclusion: Is soil hydric? Yes

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____ 4" _____
- Depth to soil saturation in observation hole: _____ 0" _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- Other: _____

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_X_	___
Wetland hydrology present:		
Hydric soil present	_X_	___
Other indicators of hydrology present	_X_	___
Sample location is in a BVW	_X_	___

Submit this form with the Request for Determination of Applicability or Notice of Intent.

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Town of Boxford Prepared by: Greg Hochmuth Project location: Nason Land, Boxford, MA DEP File #: _____

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Number: WFB3 Up		Transect Number: WFB3 Upland	Date of Delineation: 8/7/2018
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Trees				
Red Oak - <i>Quercus rubra</i>	50%	43%	YES	FACU-
Yellow Birch - <i>Betula alleghaniensis</i>	40%	34%	YES	FAC*
Beech - <i>Fagus grandifolia</i>	25%	21%	YES	FACU
Shrubs				
Sassafras - <i>Sassafras albidum</i>	40%	66%	YES	FAC+*
Witch Hazel - <i>Hamamelis virginiana</i>	20%	33%	YES	FAC-
Ground Cover				
Wild Sarsaparilla - <i>Aralia nudicaulis</i>	10%	33%	YES	FACU
Cinnamon Fern - <i>Osmunda cinnamomea</i>	20%	66%	YES	FACW*

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 4

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? Yes
 title/date: NRCS Web Soil Survey
 map number:
 soil type mapped: 260B – Sudbury fsl
 hydric soil inclusions: No

Are field observations consistent with soil survey? No
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-10	10YR3/2	
Bw – FSL	10-18	7.5YR5/6	

Remarks: None at this time.

3. Other:

Conclusion: Is soil hydric? No

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- Other: _____

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	___	__X__
Wetland hydrology present:		
Hydric soil present	___	__X__
Other indicators of hydrology present	___	__X__
Sample location is in a BVW	___	__X__

Submit this form with the Request for Determination of Applicability or Notice of Intent.



Hoveys Pond

Zoom to a town

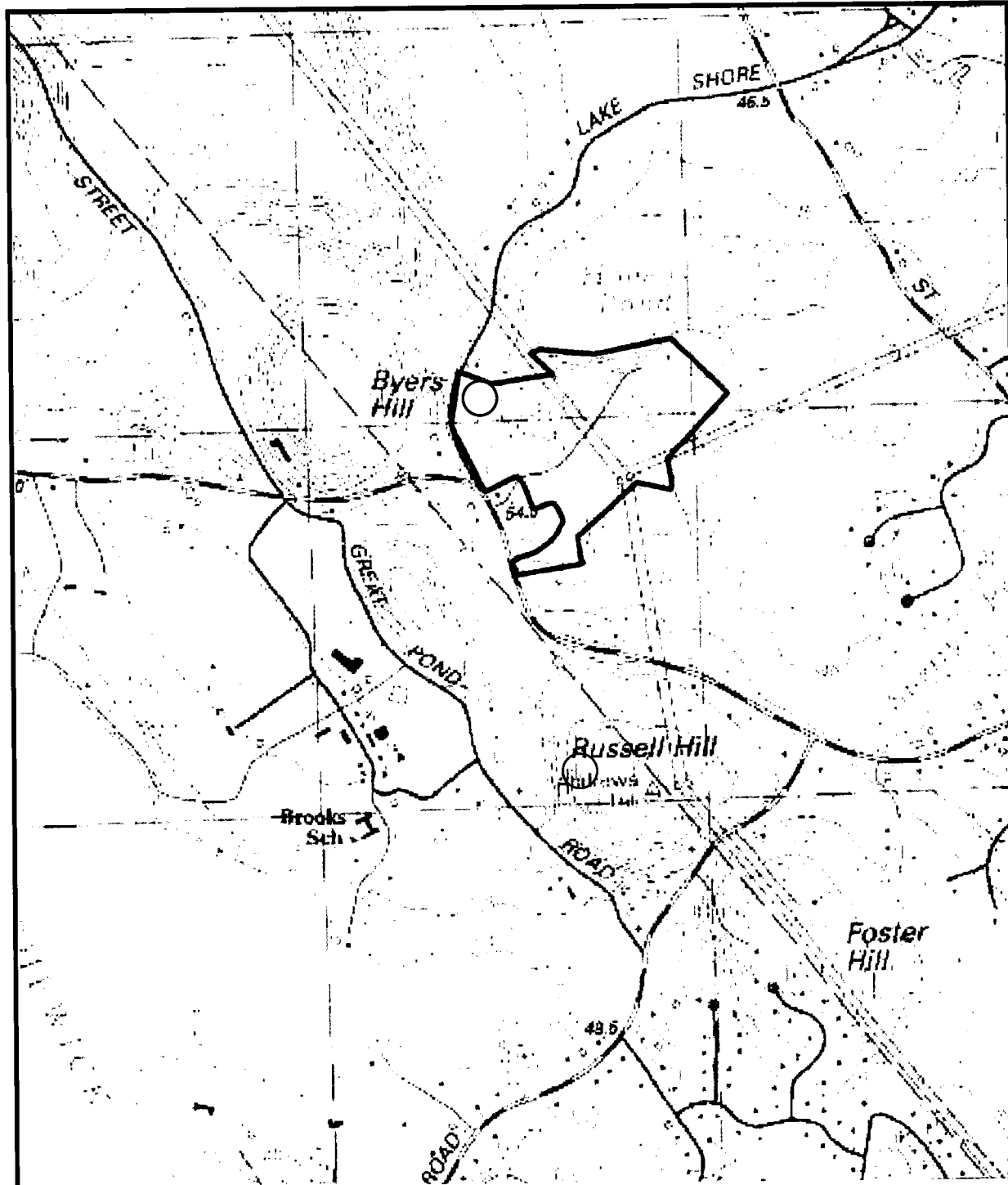


0 m

approximate location
of
decayed boardwalk

Recreational Trails Program
2017 Application - Nason Conservation Land Boardwalk

Attachment E



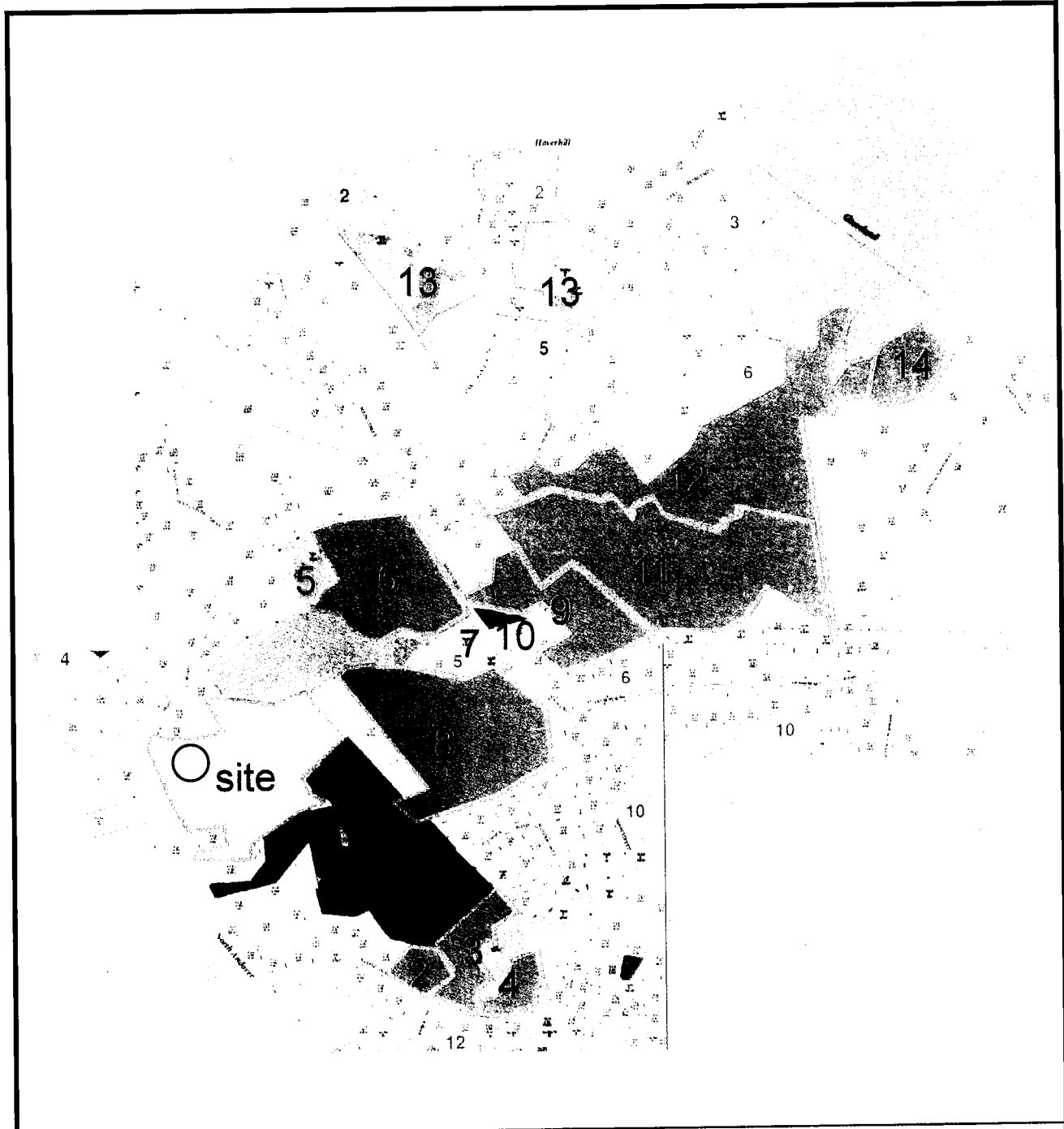
Nason - USGS Lawrence Quadrangle

Nason Conservation Land  Proposed Boardwalk Site 

Nason Conservation Land Boardwalk Grant Application Town of Boxford

Recreational Trails Program
2017 Application - Nason Conservation Land Boardwalk

Attachment F



Nason – Linked and Abutting Open Space Lands

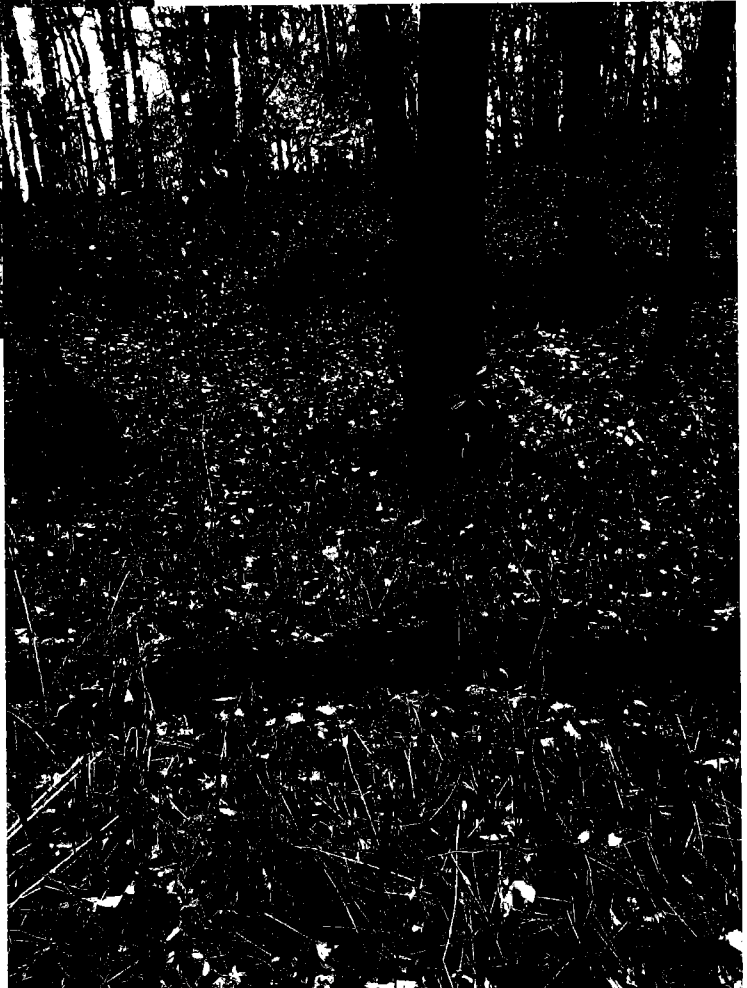
○ Proposed Boardwalk Site

Recreational Trails Program
2017 Application - Nason Conservation Land Boardwalk

Attachment G

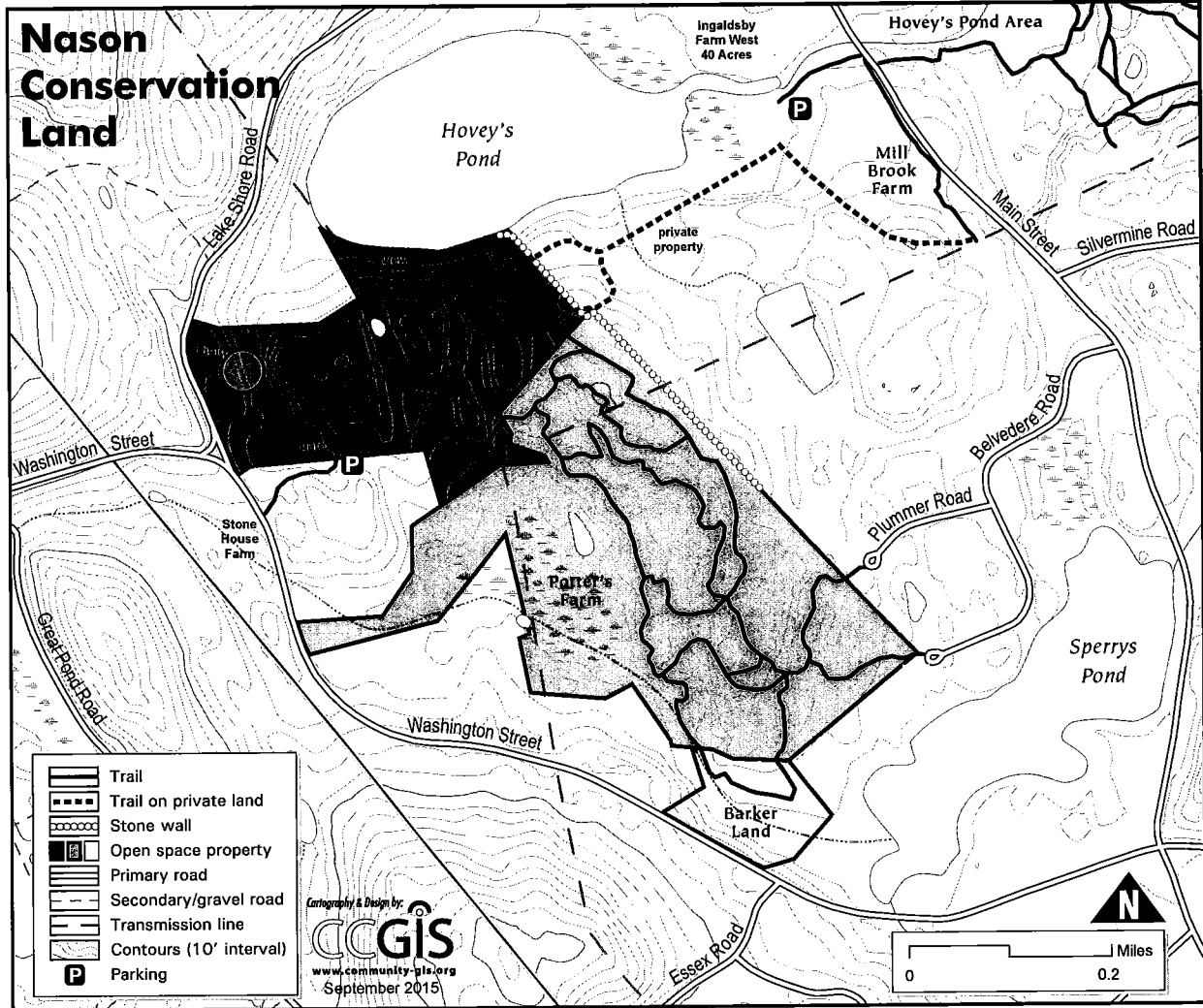


Stream and surrounding boggy area.



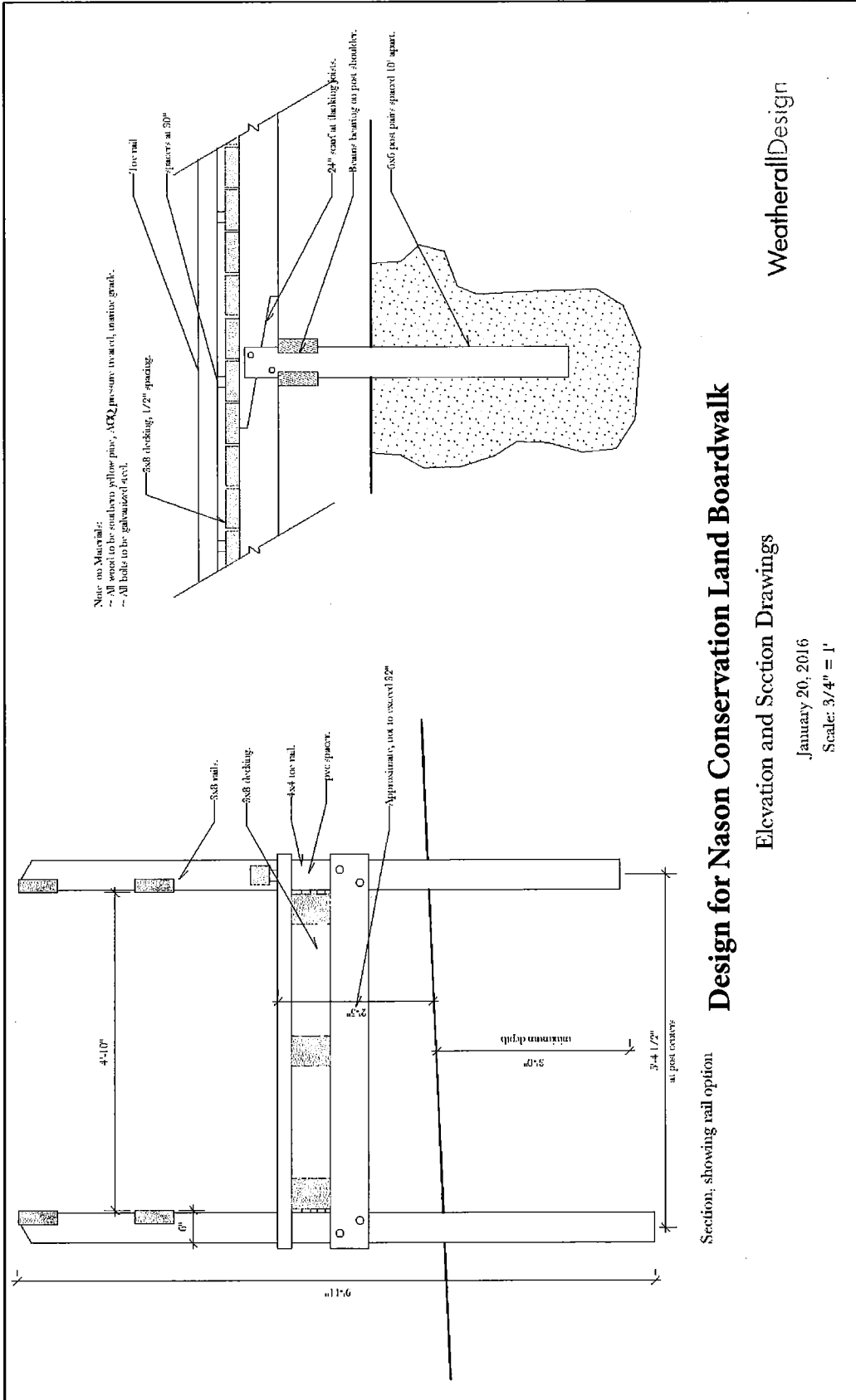
**Recreational Trails Program
2017 Application - Nason Conservation Land Boardwalk**

Attachment **H**



○ Proposed Boardwalk Site





Note on Materials:
 ~ All wood to be southern yellow pine, ACCQ pressure treated, marine grade.
 ~ All bolts to be galvanized steel.

Design for Nason Conservation Land Boardwalk

Elevation and Section Drawings

WeatherallDesign

January 20, 2016
 Scale: 3/4" = 1'

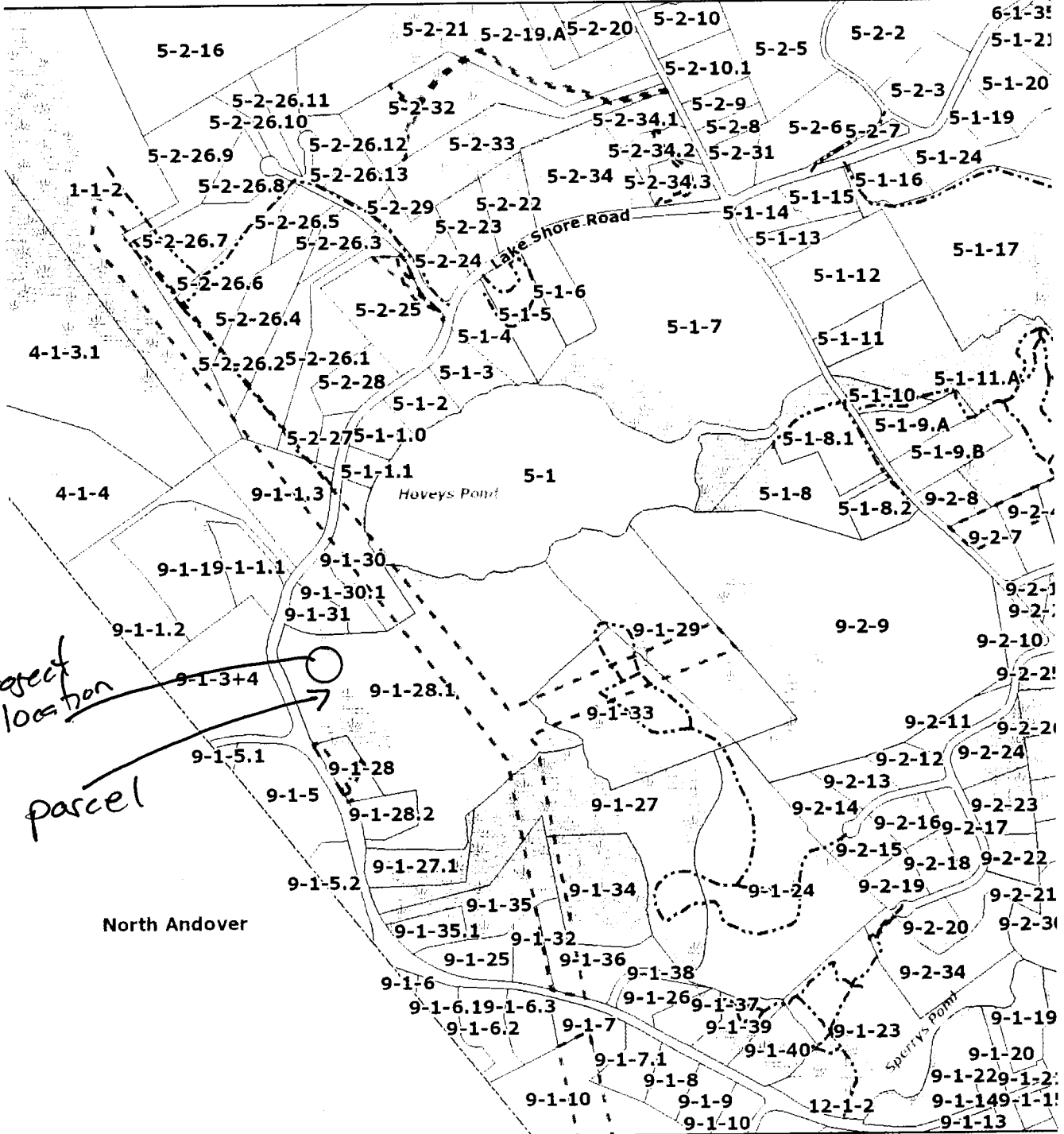
Recreational Trails Program
2017 Application - Nason Conservation Land Boardwalk

Assessor's Map

Attachment J

Boxford MIMAP

January 25, 2017

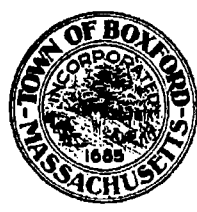


Protect location parcel

- Municipal
- Building Footprints
- Parcels
- Easements
- Trails
- Road Right of Way
- Hydrographic Features
- Streams
- Floodplain
 - 100-Year Floodplain
 - 500-Year Floodplain
- Wetlands
- Commercial and Industrial Land Use
 - Commercial Land Use
 - Industrial Land Use

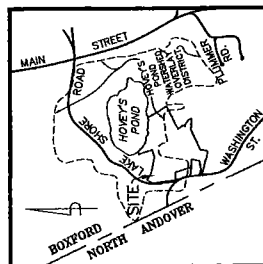
- Exempt Lands
 - State
 - County
 - Municipal
 - Private

1" = 875 ft



Horizontal Datum: MA Stateplane Coordinate System, Datum NAD83.
 Map Data Sources: The data for this map was produced by Merrimack Valley Planning Commission (MVPC) using data provided by the Town of Boxford. Additional data provided by the Executive Office of Environmental Affairs/MassGIS. The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition or regulatory interpretation. THE TOWN OF BOXFORD MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF THESE DATA. THE TOWN OF BOXFORD DOES NOT ASSUME ANY LIABILITY ASSOCIATED WITH THE USE OR MISUSE OF THIS INFORMATION.

Attachment K



LOCUS MAP
SCALE: 1" = 1500'

LEGEND & SYMBOLS

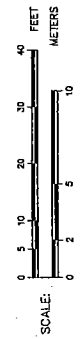
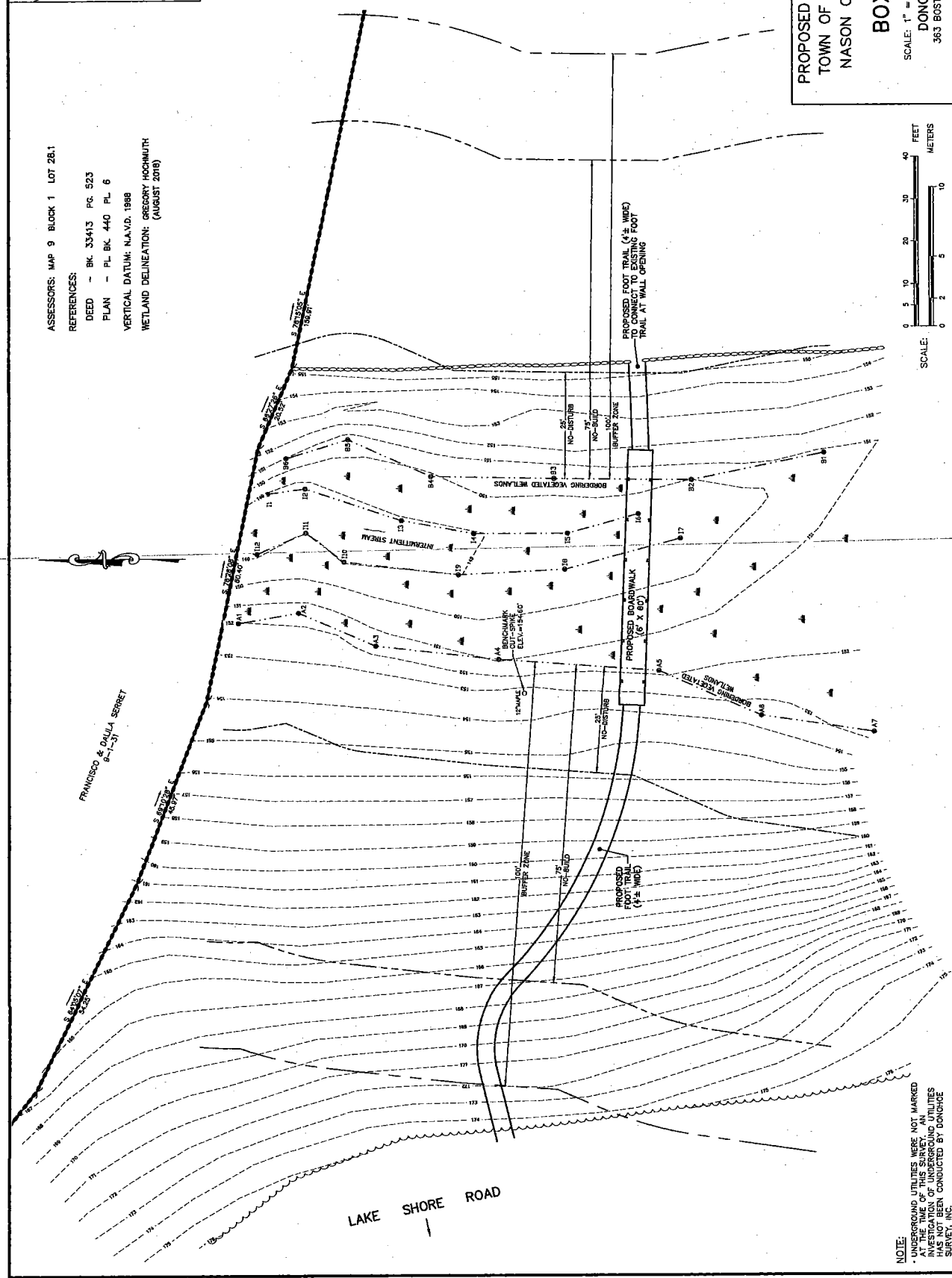
- ▲ WETLAND FLAG
- WETLAND FLAG
- INTERMITTENT STREAM
- WETLAND SYMBOL



PROPOSED TRAIL & BOARDWALK
TOWN OF BOXFORD PROPERTY
NASON CONSERVATION LAND
IN
BOXFORD, MA

SCALE: 1" = 10'
OCTOBER 11, 2018
DONOHOE SURVEY, INC.
353 BOSTON ST. TOPSFIELD, MA
(978) 887-8181

ASSESSORS: MAP 9 BLOCK 1 LOT 28.1
REFERENCES:
DEED - BK 33413 PG. 523
PLAN - PL BK 440 PL 6
VERTICAL DATUM: N.A.M.D. 1988
WETLAND DELINEATION: GREGORY HOCHMUTH (AUGUST 2018)



NOTE:
- UNDEGROUND UTILITIES WERE NOT MARKED AT THE TIME OF THIS SURVEY. AN INVESTIGATION OF UNDERGROUND UTILITIES HAS NOT BEEN CONDUCTED BY DONOHOE SURVEY, INC.