

Notice of Intent

**76 Hartwell Avenue
Littleton, MA**

May 2025

Submitted to:

Town of Littleton
Conservation Commission
37 Shattuck Street
1st Floor, B100
Littleton, MA 01460

Applicant:

Marc Nathanson
76 Hartwell Avenue
Littleton, MA 01460

Prepared by:

Goldsmith, Prest & Ringwall, Inc.
39 Main Street, Suite 301
Ayer, MA 01432





Civil Engineering • Land Planning • Land Surveying

Engineering Solutions
for Land & Structures

May 12, 2025

Town of Littleton Conservation Commission
c/o Tim Pearson, Conservation Agent
37 Shattuck Street
1st Floor, B100
Littleton, MA 01460

Via: Hand Delivery and Email: tpearson@littletonma.org

Reference: Notice of Intent
76 Hartwell Avenue
Littleton, MA 01460

Dear Commissioners:

On behalf of the Applicant, Marc and Terri Nathanson, Goldsmith, Prest & Ringwall, Inc (GPR) is pleased to submit this Notice of Intent (NOI) for work within the 100-foot Buffer zone of the Bordering Vegetated Wetlands (BVW). The proposed work includes expansion and remodeling of the garage and widening of the driveway.

This NOI has been prepared in accordance with the Massachusetts Wetland Protection Act (MGL c.131 § 40) and its implementing Regulations (310 CMR 10.00) and the Littleton Wetlands Protection Bylaw and Regulations.

Enclosed are two complete copies of the NOI submission package, full-size Site Plans, and a check payable to the Town of Littleton: \$122.50 NOI filing fees required by the Wetland Protection Act and the Littleton Wetland Protection Regulations. An electronic copy of the application will also be submitted to the Conservation Commission via email.

As required, a copy of this filing has been provided to the Central Regional Office of the Department of Environmental Protection (MassDEP). A separate check for \$42.50 has been sent to the MassDEP Lock Box. In accordance with the Act and the Littleton Wetland Protection Regulations, abutters within 100 feet of the property have been notified via certified mail on the same date as this submission.

Goldsmith, Prest & Ringwall, Inc.

39 Main Street, Suite 301, Ayer, MA 01432 • (978) 772-1590 • Fax (978) 772-1591
info@gpr-inc.com • www.gpr-inc.com

For any questions or additional information, please contact us at (978) 772-1590 or by email at: bringwall@gpr-inc.com. Thank you for considering this Notice of Intent. We look forward to meeting with the Commission at the next public hearing.

Sincerely,

Goldsmith, Prest & Ringwall, Inc

A handwritten signature in dark ink, appearing to read "B.D. Ringwall", with a stylized flourish at the end.

Bruce Ringwall, President

cc: MassDEP (CERO) Division of Wetlands and Waterways
Via: Mail and Email: cero_noi@mass.gov
Marc Nathanson Via Mail and Email: marterr@aol.com



Contents

1. Notice of Intent Forms
2. Project Narrative
 - 2.1. Project Summary
 - 2.2. Wetland Resource Areas
 - 2.2.1. Activities within Bordering Vegetated Wetlands (BVW) 100-Foot Wetland Buffer Limit
 - 2.3. Protective Measures
 - 2.3.1. Protection of Public and Private Water Supply and Protection of Ground Water Supply
 - 2.3.2. Flood Control and Storm Damage Prevention
 - 2.3.3. Prevention of Pollution
 - 2.3.4. Protection of Land Containing Shellfish, Fisheries and Wildlife Habitat
 - 2.4. Conclusion
3. Sequence of Construction

Appendices

- Appendix A: Exhibits
- Appendix B: Abutter Notification Information
- Appendix C: Letter of Agent Authorization
- Appendix D: Wetland Field Data Forms
- Appendix E: Site Plans



1. Notice of Intent Forms

WPA Form 3 – Notice of Intent
NOI Wetland Fee Transmittal Form



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& The Town of Littleton Wetland Protection Regulations

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Littleton

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):

76 Hartwell Avenue

a. Street Address

Littleton

b. City/Town

01460

c. Zip Code

Latitude and Longitude:

42°32'56.44"N

d. Latitude

71°29'50.45"W

e. Longitude

R17

f. Assessors Map/Plat Number

7-D

g. Parcel /Lot Number

2. Applicant:

Marc

a. First Name

Nathanson

b. Last Name

--

c. Organization

76 Hartwell Avenue

d. Street Address

Littleton

e. City/Town

MA

f. State

01460

g. Zip Code

978-501-1034

h. Phone Number

--

i. Fax Number

marterr@aol.com

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):

Bruce

a. First Name

Ringwall

b. Last Name

Goldsmith, Prest & Ringwall, Inc.

c. Company

39 Main Street, Suite 301

d. Street Address

Ayer

e. City/Town

MA

f. State

01432

g. Zip Code

T978-772-1590

h. Phone Number

978-772-1591

i. Fax Number

BRingwall@gpr-inc.com

j. Email address

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

\$110.00

a. Total Fee Paid

\$42.50

b. State Fee Paid

\$67.50

c. City/Town Fee Paid



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& The Town of Littleton Wetland Protection Regulations

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Littleton

City/Town

A. General Information (continued)

6. General Project Description:

The project proposes the construction of a garage addition within the 100-foot buffer limit.

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

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Commercial/Industrial | 4. <input type="checkbox"/> Dock/Pier |
| 5. <input type="checkbox"/> Utilities | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation |
| 9. <input checked="" type="checkbox"/> 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)

--

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(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:

Middlesex South Registry of Deeds

a. County

77763

c. Book

--

b. Certificate # (if registered land)

320

d. Page Number

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

- ☒ 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.
- ☐ 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.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& The Town of Littleton Wetland Protection Regulations

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Littleton

City/Town

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.

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
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.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& The Town of Littleton Wetland Protection Regulations

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Littleton

City/Town

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>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



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& The Town of Littleton Wetland Protection Regulations

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Littleton

City/Town

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**

--

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

--

percentage/acreage

(b) outside Resource Area

--

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 <https://www.mass.gov/mas-endangered-species-act-mesa-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.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& The Town of Littleton Wetland Protection Regulations

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Littleton

City/Town

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

- (c) ☐ MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

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, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; 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 - Bourne to Rhode Island border, and
the Cape & Islands:

North Shore - Plymouth to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

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.

- c. ☐ Is this an aquaculture project?

- d. ☐ Yes ☐ No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& The Town of Littleton Wetland Protection Regulations

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Littleton

City/Town

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

Online Users:

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

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.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& The Town of Littleton Wetland Protection Regulations

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Littleton

City/Town

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.
- "Residential Development - Notice of Intent Site Plan for 76 Hartwell, Avenue, Littleton,
- | | |
|--------------------------------------|--------------------------|
| a. Plan Title | MA" |
| Jonas A. A. Bellini | Limhuot Tiv, P.E. |
| b. Prepared By | c. Signed and Stamped by |
| -- | 1" = 20' |
| d. Final Revision Date | e. Scale |
| -- | May, 2025 |
| 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:

3217	5/12/2025
2. Municipal Check Number	3. Check date
3218	5/12/2025
4. State Check Number	5. Check date
GOLDMSITH, PREST & RINGWALL, INC.	--
6. Payor name on check: First Name	7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& The Town of Littleton Wetland Protection Regulations

Provided by MassDEP:

MassDEP File Number

Document Transaction Number



Littleton

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.

 1. Signature of Applicant (GPR as Agent for Applicant)	5/12/2025 2. Date
3. Signature of Property Owner (if different)	4. Date
 5. Signature of Representative (if any)	5/12/2025 6. Date

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:

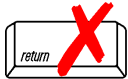
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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



A. Applicant Information

1. Location of Project:

76 Hartwell Avenue

a. Street Address

3218

c. Check number

Littleton

b. City/Town

\$42.50

d. Fee amount

2. Applicant Mailing Address:

Marc

a. First Name

--

c. Organization

76 Hartwell Avenue

d. Mailing Address

Littleton

e. City/Town

978-501-1034

h. Phone Number

--

i. Fax Number

Nathanson

b. Last Name

MA

f. State

01460

g. Zip Code

marterr@aol.com

j. Email Address

3. Property Owner (if different):

--

a. First Name

--

c. Organization

d. Mailing Address

--

e. City/Town

--

h. Phone Number

--

b. Last Name

--

f. State

--

g. Zip Code

--

j. Email Address

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.

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



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
1.a.	1	\$110.00	\$110.00\$
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--
Step 5/Total Project Fee:			\$110.00

Step 6/Fee Payments:

Total Project Fee:	\$110.00
	a. Total Fee from Step 5
State share of filing Fee:	\$42.50
	b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:	\$67.50
	c. 1/2 Total Fee plus \$12.50

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.)



2. Project Narrative

2.1. Project Summary

The property located at 76 Hartwell Ave, Littleton, MA (Assessor's Map R17, Parcel 7D) and is approximately 42,012± SF. It has 150 feet of frontage along Hartwell Ave and extends roughly 280± feet back from the road in a rectangular shape.

There is a Bordering Vegetated Wetland (BVW) located that starts in the middle of the lot and extends south- southeast along the swale. The existing dwelling pool and much of the landscaped yard falls within both the 100-foot and 50-foot no disturb wetland buffer limits.

The project involves the expansion of the existing garage to add an additional garage bay and extend the living space above. All of the proposed work is outside of the 50-buffer zone and within existing hardscapes and landscaped portions of the yard.

2.2. Wetland Resource Areas

The on-site resource area is the BVW associated with a swale east of the hill behind the property. A portion of the swale was piped and buried many years ago.

The BVW was delineated by Matthew S. Marrow Environmental Consulting . Wetland flags series WF-1 to WF-6 on May 7, 2025. Flags were located by on-the ground survey by GPR Inc. on March 12, 2025.

2.2.1. Activities within Bordering Vegetated Wetlands (BVW) 100-Foot Wetland Buffer Limit

The Project does not propose any expansion of structures or impervious areas within the 50 FT No Disturb Buffer Limit.

The garage and living space above will add 420± SF of impervious surface in the outer portion of the 100-foot buffer zone. The area of disturbance has all been previously disturbed with both hard landscape surfaces and plantings.

Erosion and sediment control barriers are proposed to prevent the migration of construction related sediment into the into the 50-foot buffer zone. This request aligns with the interests of the Wetlands Protection Act and the local bylaw.

2.3. Protective Measures

The following is a discussion of the relationship of the Project to the interests of the Act as defined by 310 CMR 10.01(2):

2.3.1. Protection of Public and Private Water Supply and Protection of Ground Water Supply

The public and private water supply and groundwater supply protection interests of the Act and Bylaw will be upheld. The Project Site is not located within recharge areas for public water supplies as defined in 310 CMR 22.02 (Zone Is, Zone IIs and Interim Wellhead Protection Areas for groundwater sources and Zone As for surface water sources).

2.3.2. Flood Control and Storm Damage Prevention

The flood control and storm damage prevention interests of the Act and Bylaw will be maintained. The Flood Insurance Rate Map (Appendix A FIRMETTE) indicates that the project is outside all FEMA-designated flood zones.

The project entails the construction of a dwelling addition but does not include stormwater discharge to a critical area. Per 310 CMR 10.05(6)(I.2) the 2008 MassDEP Stormwater Handbook standards shall not apply to housing development and redevelopment projects comprised of detached single-family dwellings on four or fewer lots, provided that there are no stormwater discharges that may potentially affect a critical area.

2.3.3. Prevention of Pollution

The pollution interests of the Act and Bylaw will be upheld. The Project has been designed to reduce the overall scope of work within undisturbed Buffer Limits attendant to the BVWs. Additionally, sedimentation control barriers will be installed prior to construction as depicted on the Site Plan and will be maintained in working order throughout the duration of the Project.

2.3.4. Protection of Land Containing Shellfish, Fisheries and Wildlife Habitat

The Project site is not within the jurisdiction of an Area of Environmental Concern (ACEC) nor any Natural Heritage and Endangered Species Program's (NHESP) Priority Habitat of Rare Species and Estimated Habitat of Rare Wildlife.

The fisheries and shellfisheries interests of the Act and Bylaw will be upheld. There are no certified vernal pools, fisheries, or shellfish growing areas on-site. The Site is not within any Outstanding Resource Waters (ORW) as well.

Refer to the Assessor's Map and MassMapper in Appendix A for graphical representation of areas of interest to (MGL c.131 § 40) and implementing Regulations (310 CMR 10.00).

2.4. Conclusion

The Applicant seeks approval from the Littleton Conservation Commission to construct the Project. Planned activities will be limited to work within the 100 FT Wetland Buffer Limits to the BVW and are anticipated to have no negative impacts on resource areas. The Applicant respectfully requests the issuance of an Order of Conditions for this work.



3. Sequence of Construction



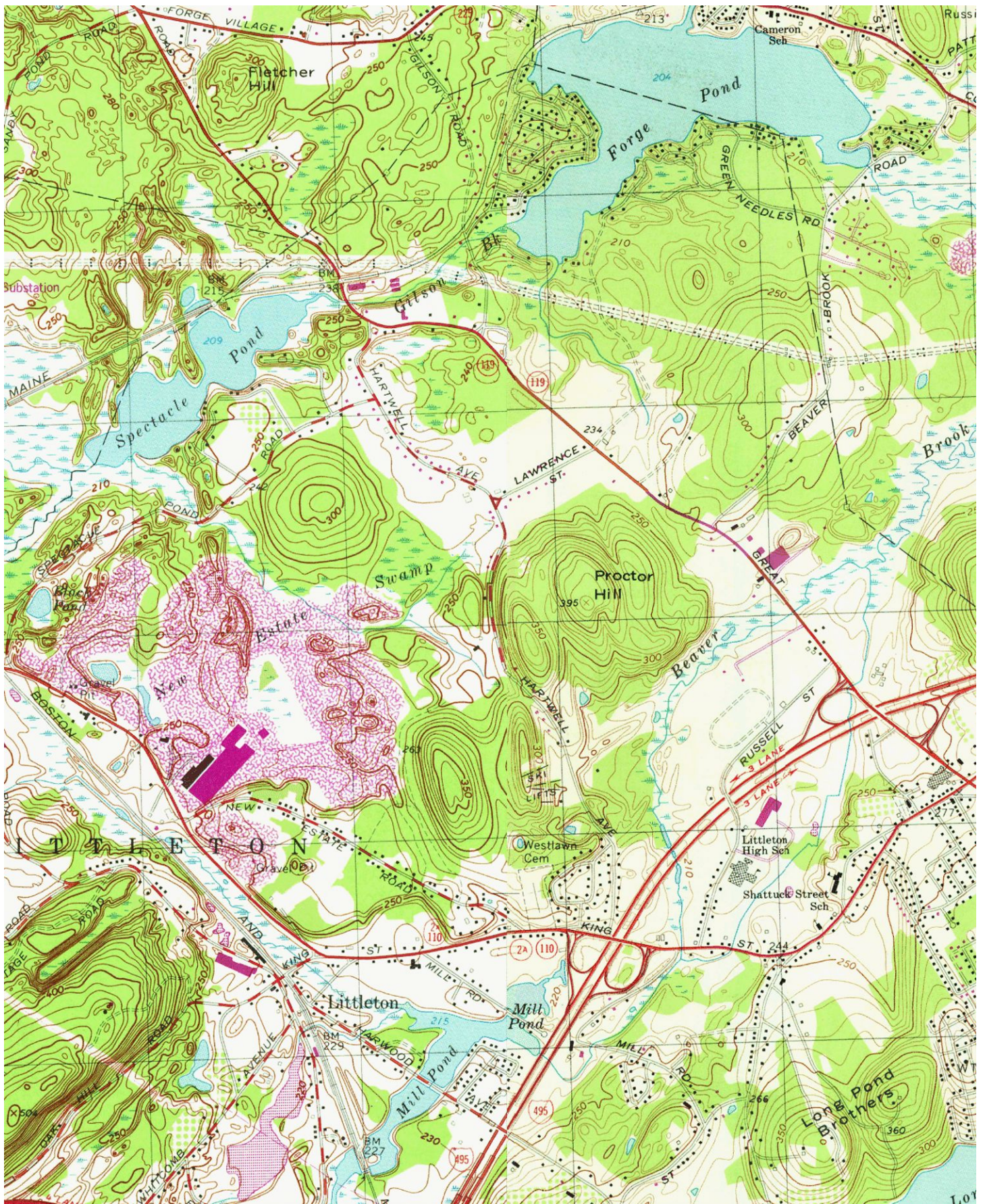
Sequence of Construction for 76 Hartwell Avenue, Littleton, MA

For all phases construction shall generally be sequenced:

1. Stake limit of construction. Inform workers that no activity is allowed beyond the limit.
2. Clear vegetation and leave wood chips for stabilization.
3. Install and maintain temporary erosion and sediment controls.
4. Grade site. Strip and stockpile topsoil stripping.
5. Construct temporary concrete washout areas.
6. Prepare pavement subgrade.
7. Construct garage and pave.
8. Stabilize areas where construction will cease for more than 7 days.
19. Remove sediment controls and stabilize areas: seed, landscape and monitor.

Appendix A: Exhibits

- USGS Locus Maps (1" = 2000')
- USGS Locus Maps (1" = 1000')
- Aerial Assessor's Locus Map
- MassMapper Areas of Regulation
- FEMA Firmette



Mercator Projection

WGS84

UTM Zone 19T

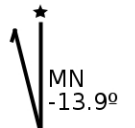


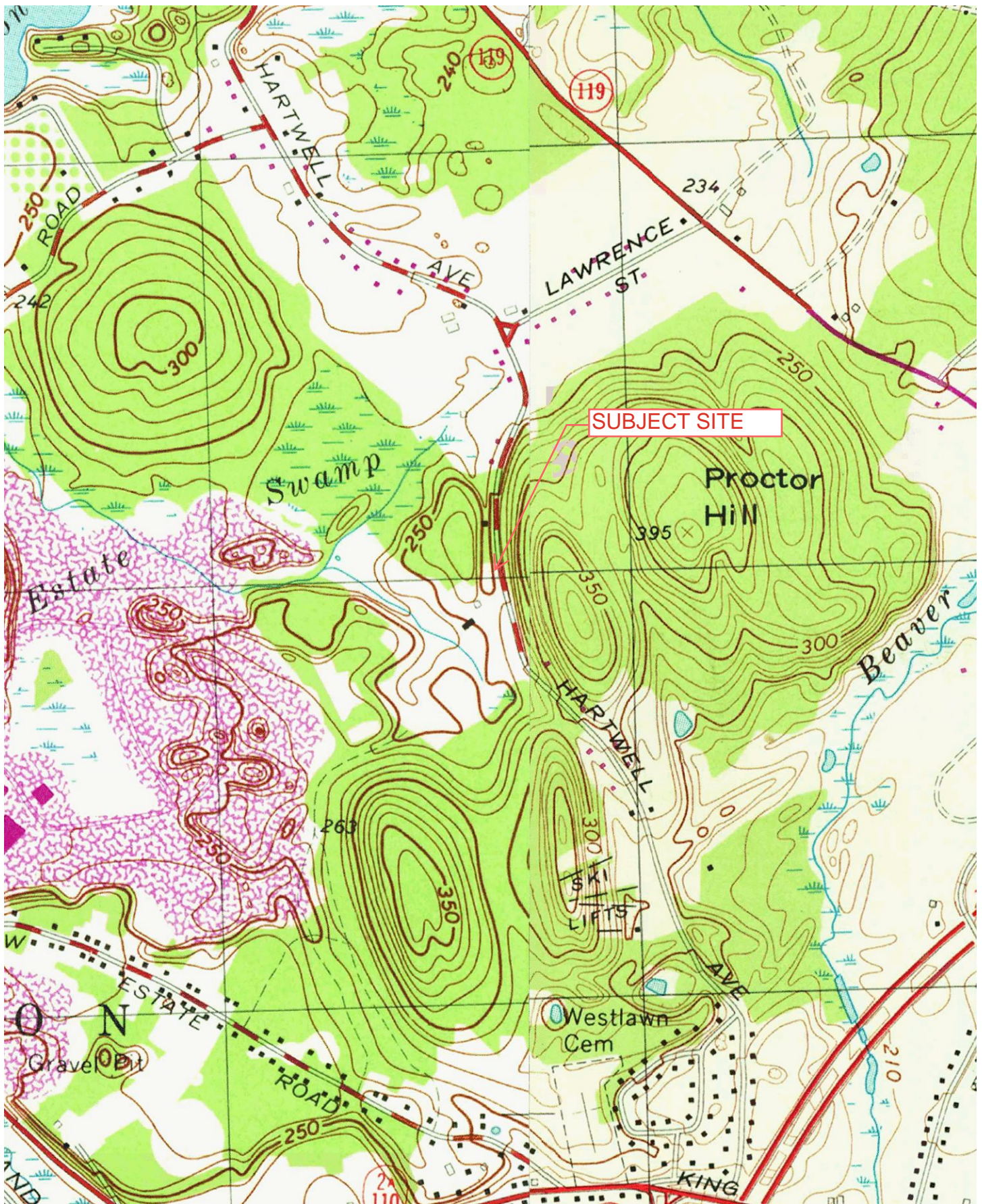
0.5 1.0 1.5 2.0 2.5 km



0.5 1.0 1.5 mi

Scale 1:24000 1 inch = 2000 feet





Mercator Projection

WGS84

UTM Zone 19T

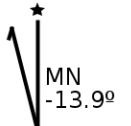


0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 km



0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 mi

Scale 1:12000 1 inch = 1000 feet





76 HARTWELL AVENUE

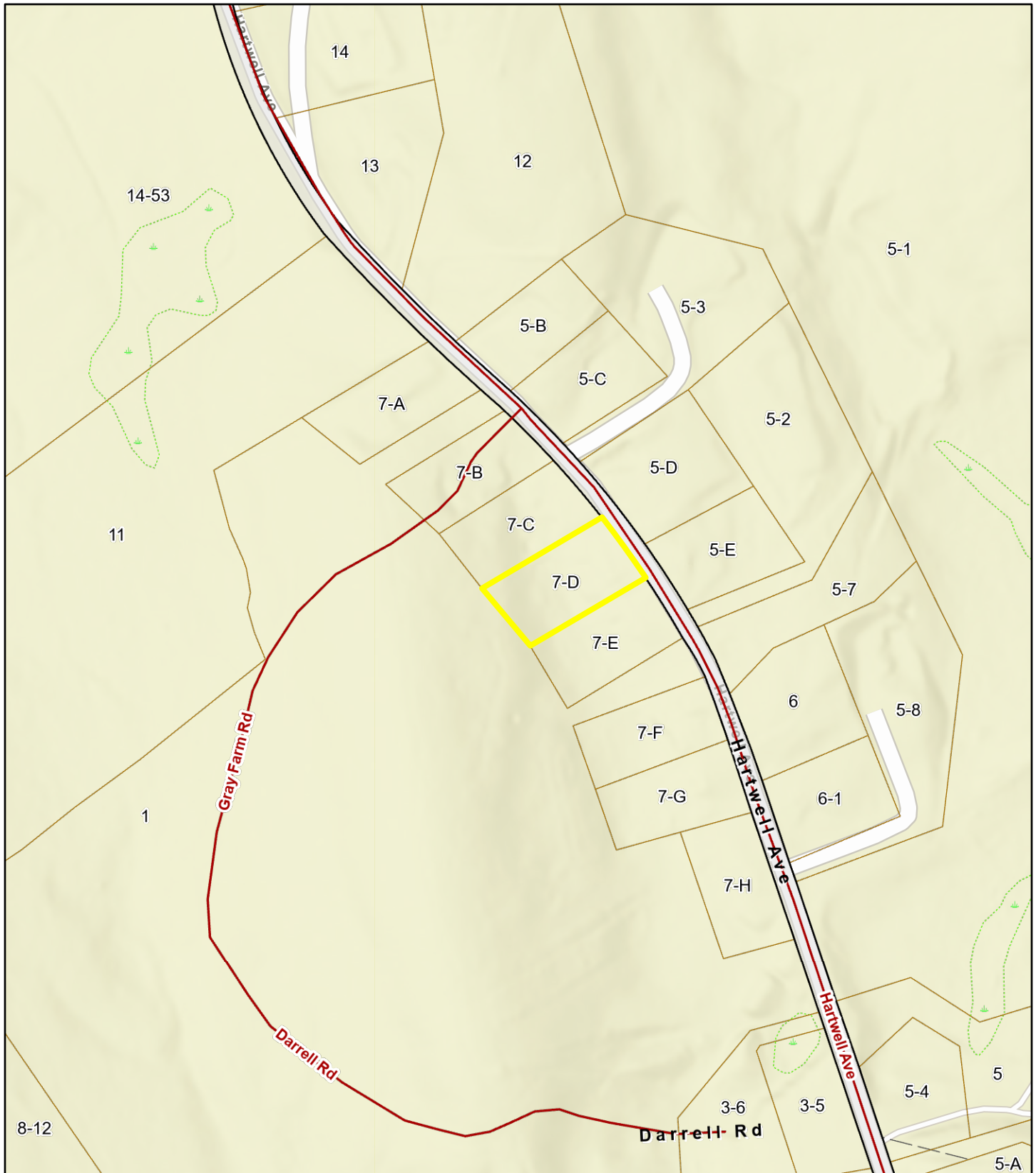
Littleton, MA

1 inch = 278 Feet



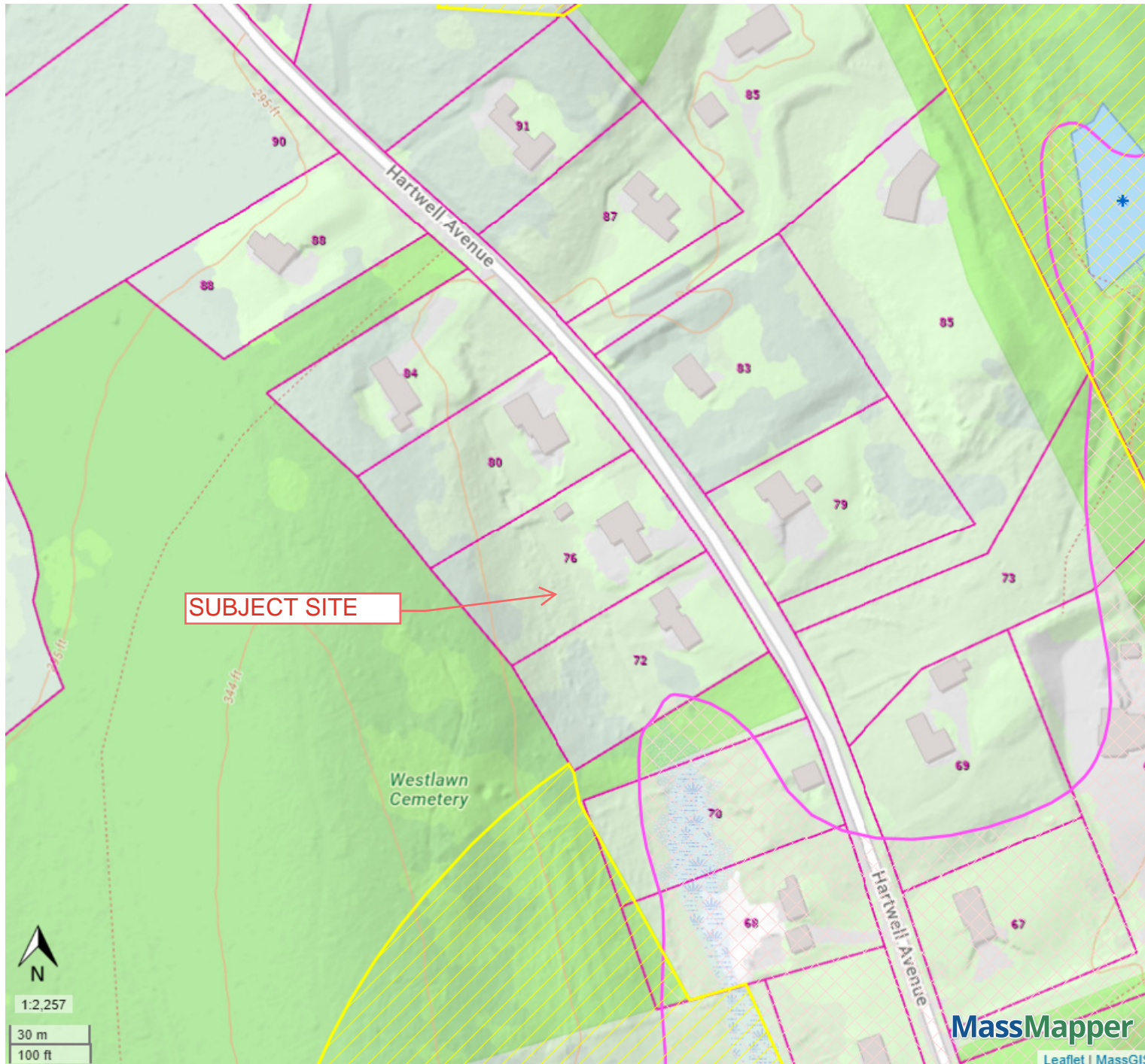
www.cai-tech.com

May 12, 2025



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

Conservation Constraints



NHESP Certified Vernal Pools



Areas of Critical Environmental Concern ACECs



NHESP Priority Habitats of Rare Species



NHESP Estimated Habitats of Rare Wildlife



Zone C



Zone B



Zone A



Zone IIs



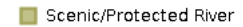
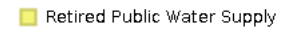
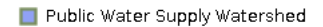
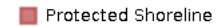
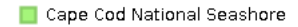
Zone Is



IWPAs



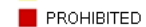
Outstanding Resource Waters



DFW Coldwater Fisheries Resources



Shellfish Growing Areas

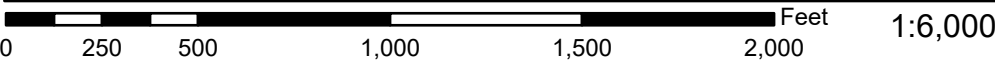
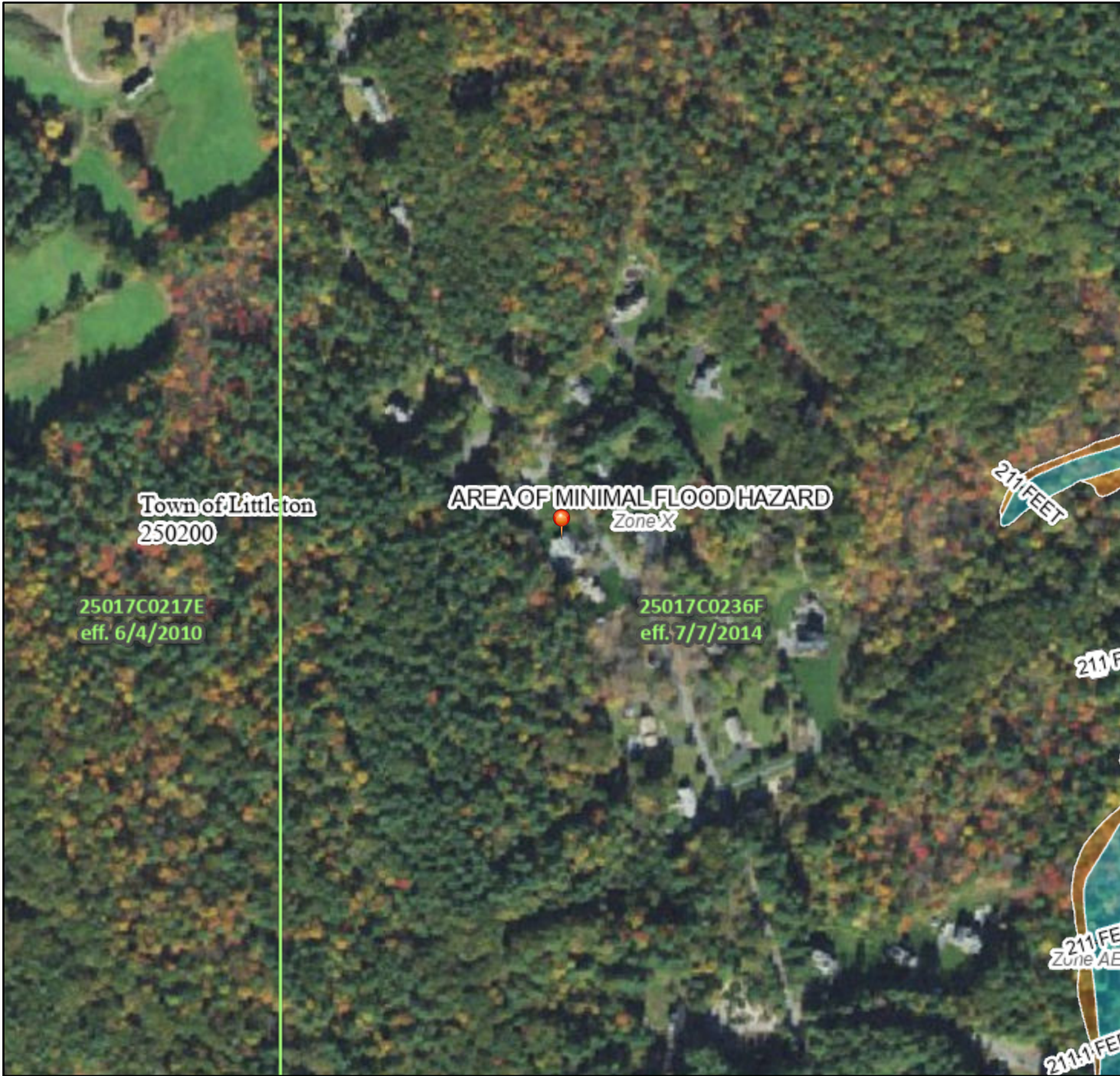


Property Tax Parcels

National Flood Hazard Layer FIRMMette



71°30'9"W 42°33'10"N



Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/8/2025 at 6:34 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Appendix B: Abutter Notification Information

Certified List of Abutters
Abutter Notification Form
Affidavit of Services



**TOWN OF LITTLETON
BOARD OF ASSESSORS**

P.O. BOX 1305
LITTLETON, MA 01460
(978) 540-2410
FAX: (978) 952-2321

Date: _____

Re: Certified List of Abutters Conservation Commission

Applicant: _____

Name of Firm: _____

Mailing Address: _____

Subject Parcel Location: _____

Subject Parcel No.: _____

Subject Owner Name: _____

M.G.L. Chapter 131: Section 40 "Any person filing a notice of intention with a conservation commission shall at the same time give written notification thereof, by delivery in hand or certified mail, return receipt requested, to all abutters within one hundred feet of the property line of the land where the activity is proposed, but not limited to, owners of land directly opposite said proposed activity on any public or private street or way, and in another municipality or across a body of water. When a notice of intent proposes activities on land under water bodies and waterways or on a tract of land greater than 50 acres, written notification shall be given to all abutters within 100 feet of the proposed project site. For the purposes of this action, "project site" shall mean lands where the following activities are proposed to take place: dredging, excavating, filling, grading, the erection, reconstruction or expansion of a building or structure, the driving of pilings, the construction or improvement of roads or other ways and the installation of drainage, sewerage and water systems, and "land under water bodies and waterways" shall mean the bottom of, or land under, the surface of the ocean or an estuary, creek, river stream, pond or lake. When a notice of intent proposes activity on a linear shaped project site longer than 1,000 feet in length, notification shall be given to all abutters within 1,000 feet of the proposed project site. If the linear project site takes place wholly within an easement through another person's land, notice shall also be given to the landowner. Said notification shall be at the applicant's expense, and shall state where copies of the notice of intention may be examined and obtained and where information regarding the date, time and place of the public hearing may be obtained. Proof of such notification, with a copy of the notice mailed or delivered, shall be filed with the conservation commission."

I hereby certify the attached list of abutter (s) as stated in the M.G.L. Chapter 131, Section 40.

Number of Abutter(s) ____ including the subject parcels ____ Applicant Requesting Abutter's List.

Certified by:  _____

Name: _____

Title: _____

83 HARTWELL AV	R17 5 D
	LUC: 101
BILLINGHAM MARC W	
BILLINGHAM KAREN J	
83 HARTWELL AV	
LITTLETON, MA 01460	
79 HARTWELL AV	R17 5 E
	LUC: 101
BRUTTO DAVID C	
79 HARTWELL AVE	
LITTLETON , MA 01460	
80 HARTWELL AV	R17 7 C
	LUC: 101
GRECO PAULA	
80 HARTWELL AVE	
LITTLETON, MA 01460	
76 HARTWELL AV	R17 7 D
	LUC: 101
MARC R AND TERRI J NATHANSON F	
NATHANSON MARC R, TRUSTEE	
76 HARTWELL AV	
LITTLETON, MA 01460	
72 HARTWELL AV	R17 7 E
	LUC: 101
GARSTKA, JOHN A	
GARSTKA, MARSHA L	
72 HARTWELL AV	
LITTLETON, MA 01460	
7 NEW ESTATE RD	U37 1 0
	LUC: 931
LITTLETON TOWN OF	
CEMETERY DEPT	
P.O. BOX 1305	
LITTLETON, MA 01460	

NOTIFICATION TO ABUTTERS

Pick one:

- ☒ Notice of Intent/Abbreviated NOI
- Abbreviated Notice of Resource Area Delineation
- Request for Determination of Applicability
- Request to Amend an Order of Conditions (MADEP File # 204)

Modification for Virtual Meetings

Under MA Wetlands Protection Act and Littleton Wetlands Protection ByLaw (Chapter 171), this form must be completed and mailed, certified mail return receipt requested, to all abutters at their mailing addresses shown on the most recent Town Assessor's records as well as the owner (if not applicant).

In accordance with the MA Wetlands Protection Act and Littleton Wetlands Protection ByLaw Chapter 171-2D, you are hereby notified of a public hearing on the matter described below:

- A. The applicant has filed a permit application with the Littleton Conservation Commission for work in an area subject to protection under the Massachusetts Wetlands Protection Act and Littleton Wetlands Protection ByLaw.
- B. The name of the applicant is Marc Nathanson
- C. The address of the land where the activity is proposed is 76 Hartwell Avenue, Littleton, MA
- D. The work proposed is Construction of a garage addition, expansion of paved driveway, and construction of replacement paved walkway.
- E. Copies of the filing may be examined at the Conservation Commission office at 37 Shattuck Street Monday through Thursday; 9:00 – 1:00 (please call first to ensure the Conservation Agent is available and not out on site visits). The office phone number is 978-540-2428.
- F. Copies of the filing may be obtained electronically from (check one) the applicant or ☒ the applicant's representative by calling 978 - 772 - 1590 during the following times:
9:00am - 5:00pm, Monday - Friday

- G. The public hearing/meeting will be held on TBD. Information regarding the date and time of the public hearing/meeting may be obtained from the Littleton Conservation Commission (see contact info at the end of this notice).
- H. Notice of the public hearing/meeting, including date and time will be published at least five business days in advance in a paper of local circulation. The agenda, noting times will be posted at Town Hall and at <https://ma-littleton.civicplus.com/AgendaCenter/Search/?term=&CIDs=13,&startDate=&endDate=&dateRange=&dateSelector=> at least 48 hours in advance of the meeting. It is currently anticipated that this meeting will be held entirely remotely, pursuant to “An Act Relative to Extending Certain State of Emergency Accommodations” (July 16, 2022) and the extension of that Act through March 21, 2025. If the meeting is held remotely, instructions for remote viewing of, and participation in, the meeting will be included in the agenda and may also be obtained from the Littleton Conservation Commission.

You may contact the Littleton Conservation Commission staff (Conservation@littletonma.org; 978-540-2428), or the Massachusetts Department of Environmental Protection/ Central Region (508-792-7650) at 8 New Bond Street, Worcester, MA 01606) for information about this application

9-14-2023

AFFIDAVIT OF SERVICE

Under Massachusetts Wetlands Protection Act and the Littleton Wetlands Protection ByLaw (Chapter 171), this form must be completed and submitted with the Notice of Intent, Abbreviated Notice of Resource Area Delineation or Request for Determination of Applicability.

I, Jonas Bellini (Goldsmith, Prest & Ringwall, Inc.) (name of applicant or representative) certify under the pains and penalties of perjury that on 5/12/2025 (date) I gave notification to abutters in compliance with the second paragraph of the Massachusetts General Laws Chapter 131, Section 40, DEP requirements for Abutter Notification and with the Littleton Wetlands ByLaw 171-2.D in connection with the following matter:

A (choose one of below)

☐ Abbreviated Notice of Resource Area Delineation

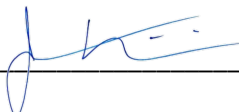
☐ Request for Determination of Applicability

☒ Notice of Intent / Abbreviated Notice of Intent

☐ Request for Amended Order of Conditions (MADEP File # 204-_____)

has been filed under the Massachusetts Wetlands Protection Act and Littleton Wetlands Protection ByLaw by Marc Nathanson (name of applicant) with the Littleton Conservation Commission on 5/12/2025 (date) for the property located at 76 Hartwell Avenue, Littleton, MA (address of land where work is proposed).

The list of abutters with their addresses and a copy of the Notification Abutter form as sent to the abutters is attached to this Affidavit of Service.



Name

5/12/2025

Date



Appendix C: Letter of Agent Authorization

May 8, 2025

Subject: 76 Hartwell Avenue, Littleton MA
Assessor Map R17, Parcel 7-D

To Whom It May Concern:

I hereby authorize Goldsmith, Prest & Ringwall, Inc., 39 Main Street, Suite 301, Ayer, MA, 978.772.1590, to act as my agent in administrative and civil engineering matters pertaining to the proposed project at the subject site. This authorization covers the execution of application forms, presentation of plans and designs, and communication with involved parties.

Respectfully,



Marc Nathanson
76 Hartwell Avenue
Littleton, MA 01460

Copy: Goldsmith, Prest & Ringwall, Inc.
File # 251011



Appendix D: Wetland Field Data Forms



Appendix E: Site Plans

Included Under Separate Cover:

- “Residential Development – Notice of Intent Site Plan for 76 Hartwell Avenue, Littleton, MA” Prepared for Marc Nathanson by Goldsmith, Prest & Ringwall, Inc. Dated May 2025.

MATTHEW S. MARRO ENVIRONMENTAL CONSULTING

45 Lisa Drive

Leominster, Ma

Phone (978) 314-7858

Fax (888) 435-5999

www.marro-consulting.com

Wetland Delineation Report

76 Hartwell Ave, Littleton MA

Matthew S. Marro | May 12, 2025

MATTHEW S. MARRO ENVIRONMENTAL CONSULTING

45 Lisa Drive
Leominster, Ma
Phone (978) 314-7858
Fax (888) 435-5999
www.marro-consulting.com

On March 7, 2025 Matthew S. Marro Environmental Consulting Completed a delineation at 76 Hartwell Avenue, Littleton, MA in accordance with MA DEP policy 95-1 and the Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands (BVW's) Second Edition, September 2022. (The delineation was completed prior to the updated publication, however the methodology used was the same.) The results of the delineation and further detail on methodology are outlined in the subsequent sections of this report. Please note the delineation occurred during the onset of the 2024 to 2025 drought. There was little to no snow on the ground.

The lot in question is a 0.96-acre partially developed residential lot.¹ The lot has a bordering vegetated wetland that is bisecting the property at the mid section of the property. Soils in this area were sampled and are outlined in the enclosed datum sheets. This wetland system is a bordering vegetated wetland (BVW) system bordering an intermittent stream.

Defined wetland edge:

Matthew S. Marro Environmental Consulting completed an in the field delineation of the bordering vegetated wetland resource. The flagging was completed with a series WF 1 to WF 6 consisting of pink flagging material with the words "wetland delineation" imprinted on the flagging material.

The following on page 2 outlines the mix of vegetation that was noted on the site:

(note: The flags by MEC were placed in the boundaries exhibiting subtle transition indicators which utilized soils for confirmation and a typical sample transect data sheet is enclosed with this report outlining a section of BVW that used soils in the analysis.)

¹ As per mass GIS 2025

Botanical Name	Common Name	Wetland Indicator Status ⁱ	Stratum layer
<i>Onoclea sensibilis</i>	Sensitive Fern	FACW	Herbaceous
<i>Osmundastrum cinnamomeum</i>	Cinnamon Fern	FACW	Herbaceous
<i>Carex Stricta</i>	Upright Sedge	OBL	Herbaceous
<i>Lycopodium obscurum</i>	Princess Pine	FACU	Herbaceous
<i>Alliaria petiolata</i>	Garlic Mustard	FACU	Herbaceous

Environmental Attributes

Mass GIS Overlay Evaluation:ⁱⁱ

Examination of the lot on the Commonwealth's MassGIS database revealed the following:

1. The lot is not within a priority and estimated habitat.
2. The lot is not within the limits of an ACEC.
3. There is no portion of the lot within the floodplain as noted in the enclosed FEMA FIRMette.
4. There are no certified vernal pools nor potential vernal pools that are located on the subject lot. The wetland on the property contains no attributes of such.
5. The USGS reveals there is no riverfront on this lot.

Thank you for the opportunity to participate in protecting our natural resources.

Sincerely,



Matthew S. Marro, PWS, PWTPO, CSI

Principal Consultant



Methodology:

The wetland, delineated by DEP policy 95-1, utilized the analysis of plants that had a 50% or greater dominance at the edge of the wetland as well as meeting the required ratio for the prevalence test. Hydrology (water, the presence of flow via sheet flow or channelized) and soils analysis as outlined in the summary section above. Below, on Page 5, is an insert provided by the USDA soils evaluation manual. Please note, for purposes of this delineation, the use of the A/B (surface/subsoil) layer is deemed sufficient within standard practice.

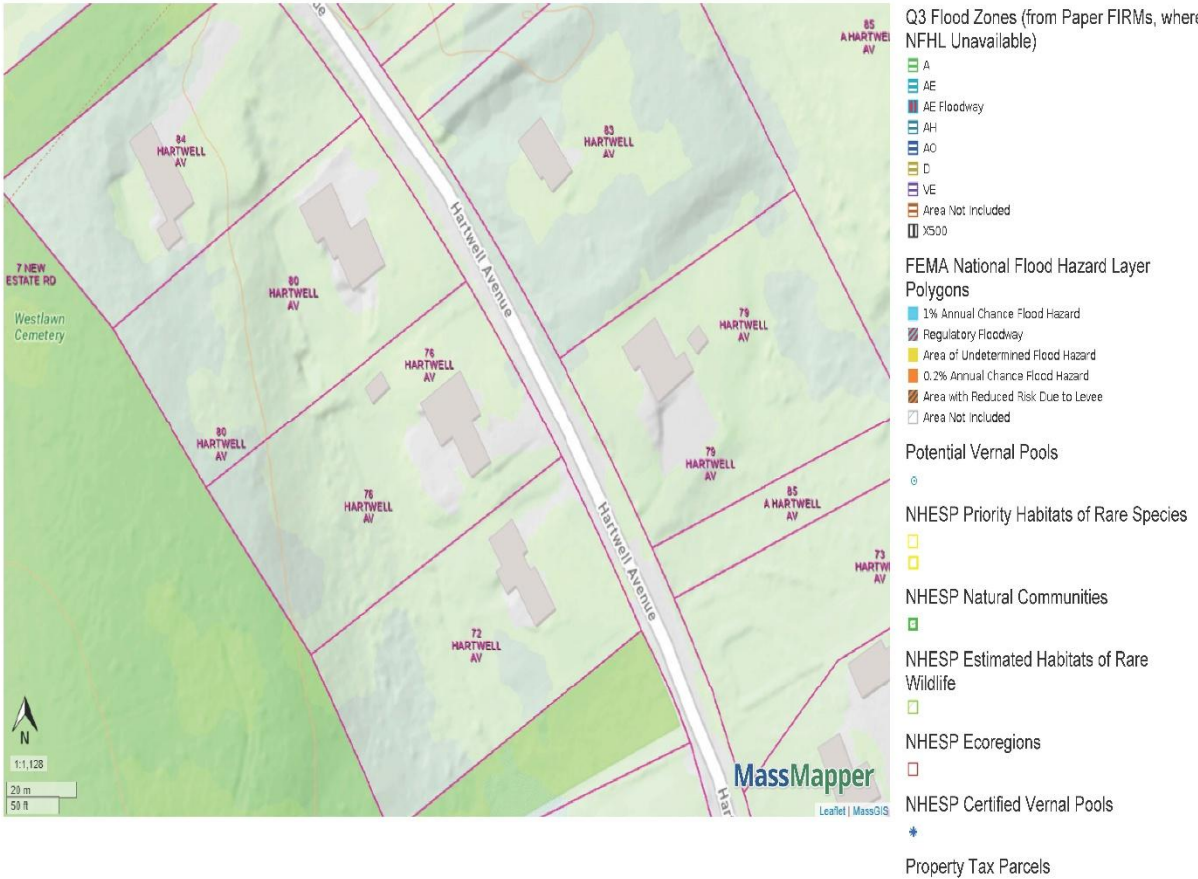
<div data-bbox="292 588 470 640"> <h2>Horizons</h2> </div> <div data-bbox="324 661 487 1281"> <p>O (Organic)</p> <p>A (Surface)</p> <p>B (Subsoil)</p> <p>C (Substratum)</p> <p>R (Bedrock)</p> </div> <div data-bbox="495 535 941 1333"> <p>The diagram illustrates a vertical cross-section of soil horizons. At the top is a layer of green grass. Below it is a thin, dark brown layer labeled 'O (Organic)'. This is followed by a thicker, light brown layer labeled 'A (Surface)', which contains many roots. Below the A horizon is a layer labeled 'B (Subsoil)', which is a lighter tan color and contains some roots and small orange spots. Below the B horizon is a layer labeled 'C (Substratum)', which is a light yellow color and contains several larger, irregular orange and white spots. At the bottom is a layer labeled 'R (Bedrock)', which is a dark grey, rocky surface.</p> </div>

ⁱ OBL= Obligate. FAC= Facultative. UPL = Upland
Notation: FACW = Facultative wetland species

ⁱⁱ Per Mass GIS online, April 2025

EXHIBITS MASS GIS OVERLAY AND USGS LOCUS

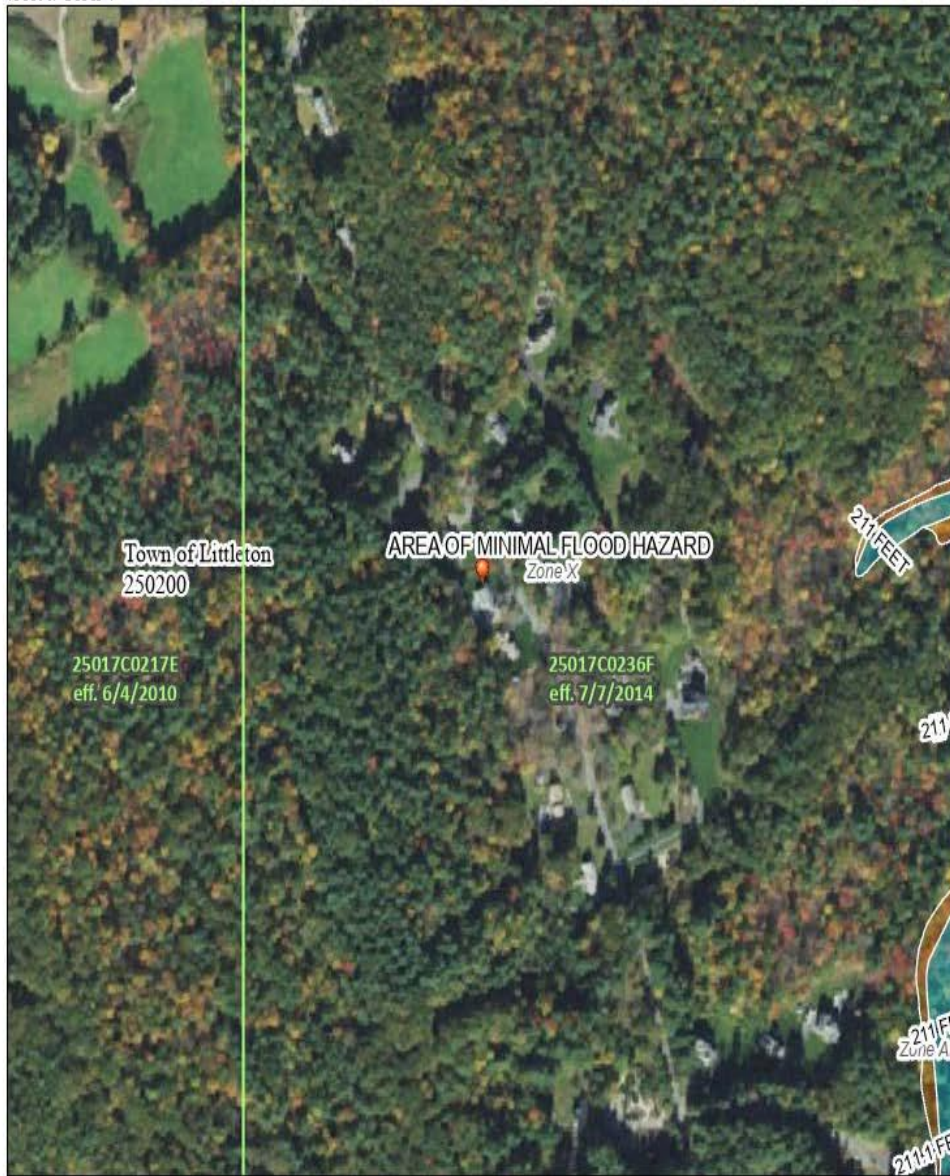
76 Hartwell Avenue



National Flood Hazard Layer FIRMette



71°30'9"W 42°53'10"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A50
	With BFE or Depth Zone AE, A1, A1, VE, AR
	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee. See Notes. Zone X
	Area with Flood Risk due to Levee Zone D
OTHER AREAS	Area of Minimal Flood Hazard Zone X
	Effective LOMRs
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
OTHER FEATURES	Cross Sections with 1% Annual Chance Water Surface Elevation
	Coastal Transect
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary
	Coastal Transect Baseline
MAP PANELS	Profile Baseline
	Hydrographic Feature
MAP PANELS	Digital Data Available
	No Digital Data Available
	Unmapped

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/13/2025 at 11:07 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



May 13, 2025

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

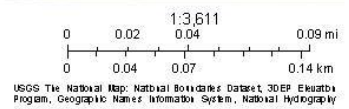
76 Hartwell Ave



5/13/2025

Layers

- Red: Band_1
- Green: Band_2
- Blue: Band_3



TRANSECT SHEETS

Please note that the following sample transects illustrate a portion of the delineation representative of the community as a whole. A sample is included to illustrate the basic technique utilized on the delineation. A field evaluation is always recommended.

WETLAND DETERMINATION FIELD DATA FORM

Project/Site: 76 Hartwell Ave City/County: Littleton/Middlesex Sampling Date: 3.7.2025
 Applicant/Owner: Goldsmith Prest and Ringwall State: Ma Sampling Point: 2 Wet
 Investigator(s): Matthew Marro Section, Township, Range: Littleton
 Landform (hillslope, terrace, etc.): mild slope Local relief (concave, convex, none): concave Slope (%): 2
 Subregion (LRR or MLRA): _____ Lat: 42.54884 Long: -71.49791 Datum: _____
 Soil Map Unit Name: Quonset NWI classification: Local Isolated...N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ✓ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ✓
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>✓</u> No _____ Hydric Soil Present? Yes <u>✓</u> No _____ Wetland Hydrology Present? Yes <u>✓</u> No _____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No _____
Remarks: Between flags 3 through flags 6- drought status	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Aquatic Fauna (B13) <u>✓</u> High Water Table (A2) _____ Marl Deposits (B15) (LRR U) <u>✓</u> Saturation (A3) <u>✓</u> Hydrogen Sulfide Odor (C1) <u>✓</u> Water Marks (B1) _____ Oxidized Rhizospheres along Living Roots (C3) <u>✓</u> Sediment Deposits (B2) <u>✓</u> Presence of Reduced Iron (C4) _____ Drift Deposits (B3) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Algal Mat or Crust (B4) _____ Thin Muck Surface (C7) _____ Iron Deposits (B5) _____ Other (Explain in Remarks) _____ Inundation Visible on Aerial Imagery (B7) _____ Water-Stained Leaves (B9)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Sparsely Vegetated Concave Surface (B8) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ FAC-Neutral Test (D5) <u>✓</u> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes <u>✓</u> No _____ Depth (inches): <u>6</u> Saturation Present? Yes <u>✓</u> No _____ Depth (inches): <u>6</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>✓</u> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No overstory..area is the part of yard area around stream		

VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: 2 Wet

Tree Stratum (Plot size: <u>30 foot radii 75 foot rect.</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
6. _____	_____			
0 _____ = Total Cover				
50% of total cover: _____ 20% of total cover: _____				
Sapling Stratum (Plot size: <u>30 foot radii</u>)				
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
6. _____	_____			
0 _____ = Total Cover				
50% of total cover: _____ 20% of total cover: _____				
Shrub Stratum (Plot size: <u>30 foot radii</u>)				
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
6. _____	_____			
0 _____ = Total Cover				
50% of total cover: <u>15</u> 20% of total cover: <u>6</u>				
Herb Stratum (Plot size: <u>30 foot radii</u>)				
1. Onoclea sensibilis	10	Yes	FACW	
2. Maianthemum canadense	10	Yes	FACU	
3. Osmundastrum cinnamomeum	10	Yes	FACW	
4. Alliaria petiolata	10	Yes	FACU	
5. Carex stricta	10	Yes	OBL	
6. _____	_____			
7. _____	_____			
8. _____	_____			
9. _____	_____			
10. _____	_____			
11. _____	_____			
50 _____ = Total Cover				
50% of total cover: <u>30</u> 20% of total cover: <u>12</u>				
Woody Vine Stratum (Plot size: <u>not inventoried</u>)				
1. _____	_____			
2. _____	_____			
3. _____	_____			
4. _____	_____			
5. _____	_____			
0 _____ = Total Cover				
50% of total cover: _____ 20% of total cover: _____				
Remarks: (If observed, list morphological adaptations below).				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>1</u>	x 1 = <u>1</u>
FACW species <u>1</u>	x 2 = <u>2</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>2</u>	x 4 = <u>8</u>
UPL species _____	x 5 = _____
Column Totals: <u>4</u> (A) <u>10</u> (B)	

Prevalence Index = B/A = 2.50

Hydrophytic Vegetation Indicators:

☐ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is >50%

☒ 3 - Prevalence Index is ≤3.0¹

☐ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Five Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

[illegible][illegible]

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.		² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U) <input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U) <input type="checkbox"/> Muck Presence (A8) (LRR U) <input type="checkbox"/> 1 cm Muck (A9) (LRR P, T) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A) <input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U) <input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Marl (F10) (LRR U) <input type="checkbox"/> Depleted Ochric (F11) (MLRA 151) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T) <input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U) <input type="checkbox"/> Delta Ochric (F17) (MLRA 151) <input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	<input type="checkbox"/> 1 cm Muck (A9) (LRR O) <input type="checkbox"/> 2 cm Muck (A10) (LRR S) <input type="checkbox"/> Reduced Vertic (F18) (outside MLRA 150A,B) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T) <input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 153B) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if observed): Type: _____ Depth (inches): _____		Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: No overstory..area is the part of yard area around stream			

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: No overstory..area is the part of yard area around stream	

Remarks: No overstory..area is the part of yard area around stream

No overstory..area is the part of yard area around stream

Reader Notes: