

NOTICE OF INTENT

DRIVEWAY for a SINGLE FAMILY HOME

Submitted To:

Town Of Granville Conservation Commission

c/o Leon Ripley, Chairperson

Town Hall

707 Main Road

PO Box 247

Granville, MA 01034

Project Location:

199 Barnard Road

Granville, MA

Prepared For:

Jacob Schultz

100 Devon Terrace

Westfield, MA 01085

SALVINI ASSOCIATES LLC

Land Surveyors

Wetland Scientists

Land Use Consultants

Office Locations:

585 Route 20
P. O. Box 742
Chester, MA 01011
(413) 354-1032

www.SALVINIassociates.com

September 6, 2023

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199 Barnard Road, Granville MA

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Section 1 - Cover Letter

SALVINI Associates

Land Surveyors and Land Use Consultants

Surveying Western Massachusetts Since 1995

September 6, 2023

Granville Conservation Commission
707 Main Road
Granville, MA 01034

**RE: Notice of Intent, Completion of a Driveway for a Single-Family House
199 Barnard Road, Granville, MA**

Dear Chairperson, Leon Ripley:

On behalf of Jacob Schultz, Salvini Associates, LLC is submitting this Notice of Intent for the completion of a driveway for a single-family house located at 199 Barnard Road in Granville, MA (Granville tax map 17 parcel 62-1). The driveway was started by the previous landowner in January 2009 (DEP File No. 166-0042).

This NOI is for the completion of the remainder of the driveway and for the Wetland Mitigation for the wetland impacts for the already completed wetland crossing. The wetland portion of the project was completed by the previous landowner. The remainder of the driveway is located within the wetland buffer zone and uplands. Please see the attached Project Narrative and Mitigation Plan, Photographs and Site Layout Plans.

We appreciate the Commissions review of this project. Please see the attached Notice of Intent. If the commission has any questions regarding this application or would like to schedule a site visit, please do not hesitate to contact me by email: jeffs@salviniassociates.com or call 413-354-1032.

Respectfully,



Jeffrey K. Smith, PWS
Field Scientist

Office Locations

CHESTER

585 Route 20 ~ P. O. Box 742 ~ Chester, MA 01011

(413) 354-1032

Email: steves@SALVINIassociates.com

Website: www.SALVINIassociates.com

Section 2 — Notice of Intent



WPA Form 3 – Notice of Intent

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

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
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):

<u>199 Barnard Road</u>	<u>Granville</u>	<u>01034</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	<u>42.05977N</u>	<u>72.89327W</u>
	d. Latitude	e. Longitude
<u>MAP 17</u>	<u>LOT 62-1</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Jacob</u>	<u>Schultz</u>	
a. First Name	b. Last Name	
<u></u>	<u></u>	
c. Organization		
<u>100 Devon Terrace</u>		
d. Street Address		
<u>Westfield</u>	<u>MA</u>	<u>01085</u>
e. City/Town	f. State	g. Zip Code
<u>413-579-4827</u>	<u>23jacob23@comcast.net</u>	
h. Phone Number	i. Fax Number	j. Email Address

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

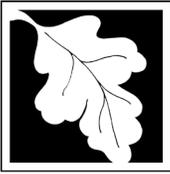
<u>NA</u>	<u>NA</u>	
a. First Name	b. Last Name	
<u>NA</u>	<u></u>	
c. Organization		
<u>NA</u>	<u></u>	
d. Street Address		
<u>NA</u>	<u>NA</u>	<u>NA</u>
e. City/Town	f. State	g. Zip Code
<u>NA</u>	<u>NA</u>	<u>NA</u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Jeff</u>	<u>Smith</u>	
a. First Name	b. Last Name	
<u>Salvini Associates, LLC</u>	<u></u>	
c. Company		
<u>585 Route 20 ~ P O Box 742</u>	<u></u>	
d. Street Address		
<u>Chester</u>	<u>MA</u>	<u>01011</u>
e. City/Town	f. State	g. Zip Code
<u>413-354-1032</u>	<u>413-354-6545</u>	<u>jeffs@salviniassociates.com</u>
h. Phone Number	i. Fax Number	j. Email address

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

<u>\$500.00</u>	<u>\$237.50</u>	<u>\$262.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



WPA Form 3 - Notice of Intent

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

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A. General Information (continued)

6. General Project Description:

Completion of a driveway with a wetland crossing for a single family house. The wetland crossing portion of the driveway was completed by the previous land owner under a Notice of Intent (File No. 166-0042). Finish grading and the wetland mitigation site need to be completed. Also the upland remainder of the driveway needs finishing.

7a. Project Type Checklist:

- 1. [X] Single Family Home
2. [] Residential Subdivision
3. [] Limited Project Driveway Crossing
4. [] Commercial/Industrial
5. [] Dock/Pier
6. [] Utilities
7. [] Coastal Engineering Structure
8. [] Agriculture (e.g., cranberries, forestry)
9. [] Transportation
10. [] Other

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

1. [] Yes [X] No If yes, describe which limited project applies to this project:

2. Limited Project

8. Property recorded at the Registry of Deeds for:

Hamden County

a. County

24986

c. Book

b. Certificate # (if registered land)

395

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. [X] 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.

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

Table with 3 columns: Resource Area, Size of Proposed Alteration, Proposed Replacement (if any). Rows include Bank, Bordering Vegetated Wetland, and Land Under Waterbodies and Waterways.



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

Resource Area, Size of Proposed Alteration, Proposed Replacement (if any)
d. [] Bordering Land Subject to Flooding
e. [] Isolated Land Subject to Flooding
f. [] Riverfront Area
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:
4. Proposed alteration of the Riverfront Area:
5. Has an alternatives analysis been done and is it attached to this NOI?
6. Was the lot where the activity is proposed created prior to August 1, 1996?

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

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.

Resource Area, Size of Proposed Alteration, Proposed Replacement (if any)
a. [] Designated Port Areas
b. [] Land Under the Ocean
c. [] Barrier Beach
d. [] Coastal Beaches
e. [] Coastal Dunes



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

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	<u>NA</u> 1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	<u>NA</u> 1. square feet	
h. <input type="checkbox"/> Salt Marshes	<u>NA</u> 1. square feet	<u>NA</u> 2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	<u>NA</u> 1. square feet	
	<u>NA</u> 2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	<u>NA</u> 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	
	<u>NA</u> 1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	<u>NA</u> 1. square feet	
4. <input type="checkbox"/> 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.	
	<u>NA</u> a. square feet of BVW	<u>NA</u> b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings	<u>NA</u> a. number of new stream crossings	<u>NA</u> b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

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://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/priority_habitat/online_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
100 Hartwell Street, Suite 200
West Boylston, MA 01583**

b. Date of map _____



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

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.1.d, 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).*

1. c. Submit Supplemental Information for Endangered Species Review*

- 1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area NA

percentage/acreage
 - (b) outside Resource Area NA

percentage/acreage
- 2. Assessor's Map or right-of-way plan of site
- 3. 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
 - (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

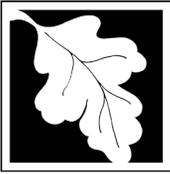
Projects altering 10 or more acres of land, also submit:
 - (d) Vegetation cover type map of site
 - (e) Project plans showing Priority & Estimated Habitat boundaries

d. 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 _____

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/dfwele/dfw/nhosp/nhosp.htm>, regulatory review tab). 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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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
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C. Other Applicable Standards and Requirements (cont'd)

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
2. 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 or hand delivery of NOI to either:
- | | |
|---|--|
| South Shore - Cohasset to Rhode Island, and the Cape & Islands: | North Shore - Hull to New Hampshire: |
| Division of Marine Fisheries - Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694 | Division of Marine Fisheries - North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930 |

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.

3. 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.
- NA
- b. ACEC
-
4. 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
5. 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
6. 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:
- Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 - A portion of the site constitutes redevelopment
 - Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
- Single-family house

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



WPA Form 3 – Notice of Intent

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

MassDEP File Number _____

Document Transaction Number _____

City/Town _____

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 | #121 | 3. Check date | 09-06-2023 |
| 4. State Check Number | #120 | 5. Check date | 09-06-2023 |
| 6. Payor name on check: First Name | JACOB | 7. Payor name on check: Last Name | SCHULTE |

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 | <i>Jacob Schulte</i> | 2. Date | September 6, 2023 |
| 3. Signature of Property Owner (if different) | _____ | 4. Date | _____ |
| 5. Signature of Representative (if any) | <i>Jeffrey K. Smith</i> | 6. Date | September 6, 2023 |

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:

199 Barnard Road	Granville, MA
a. Street Address	b. City/Town
120	\$237.50 State
c. Check number	d. Fee amount

2. Applicant Mailing Address:

Jacob	Schultz	
a. First Name	b. Last Name	
c. Organization		
100 Devon Terrace		
d. Mailing Address		
Westfield	MA	01085
e. City/Town	f. State	g. Zip Code
413-		
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

NA	NA	
a. First Name	b. Last Name	
c. Organization		
NA		
d. Mailing Address		
NA	NA	NA
e. City/Town	f. State	g. Zip Code
NA	NA	NA
h. Phone Number	i. Fax Number	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.

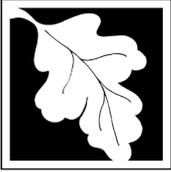
Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

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
CATEGORY 2f Driveway crossing	1	\$500.00	\$500.00
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			\$500.00
Step 6/Fee Payments:			
Total Project Fee:			\$500.00
State share of filing Fee:			\$237.50
City/Town share of filing Fee:			\$262.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee less \$12.50
			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.)

Abutters List for 199 Barnard Road, Granville, MA

Name	Street	Town, State	Zip code
Frank L. Miller	207 Barnard Road	Granville, MA	01034
Edward T. Bigos	189 Barnard Road	Granville, MA	01034
Dale Tuczinski	181 Barnard Road	Granville, MA	01034
Paul Mayer	123 Barnard Road	Granville, MA	01034
Hull Forest Land	101 Hampton Road	Pomfret Center, CT	06259
William Jarvis	231 South Lane	Granville, MA	01034
Kenneth A Hepburn	85 Smith Hill Road	Northfield, VT	05663
Michael P. Crawford	137 South Lane	Granville, MA	01034

SALVINI Associates, LLC

Land Surveyors-Wetland Scientists-Land Use Consultants

Surveying Western Massachusetts Since 1995

September 6, 2023

Notification to Abutters

*Under the Massachusetts Wetland Protection Act, 310 CMR 10
In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40,
you are hereby notified of the following:*

A Notice of Intent has been filed with the Town of Granville Conservation Commission under the Wetland Protection Act, for the completion of a driveway for a single-family home located at 199 Barnard Road in Granville MA. The proposed driveway was begun several years ago by a previous landowner.

Name of Applicant: **Jacob Shultz**
100 Devon Terrace
Westfield, MA 01085

Project Location: **199 Barnard Road, Granville MA**

Copies of the Notice of Intent may be examined and/or obtained at the:

Town of Granville Conservation Commission
Town Offices
707 Main Road
Granville, MA 01034

Notice of the public hearing, including its date, time and place, will be published at least five (5) days prior in either:

The Country Journal or The Westfield Evening News

Notice of the public meeting, listing all hearings, including the date, time and place will be posted in the Town Hall not less than forty-eight (48) hours in advance of the meeting.

Additional information regarding the hearing and/or application can be obtained at:

Department of Environmental Protection
Western Regional Office
Phone number: 413-784-1100.

Sincerely,

SALVINI Associates, LLC



Jeffrey K. Smith
Professional Wetland Scientist

Office Locations
CHESTER
(413) 354-1032

Website: www.SALVINIassociates.com

SALVINI Associates, LLC

Land Surveyors-Wetland Scientists-Land Use Consultants

Surveying Western Massachusetts Since 1995

September 6, 2023

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

I, Stephen A. Salvini, hereby certify under the pains and penalties of perjury that on or about September 5, 2023, I gave notification to abutters in compliance with the second paragraph of the Massachusetts General Laws, Chapter 131, Section 40, and the DEP Guide to Abutter Notification in connection with the following matter:

A Notice of Intent was filed under the Massachusetts Wetlands Protection Act by Salvini Associates, LLC on behalf of Jacob Schultz with the Town of Granville Conservation Commission on or about September 6, 2023, for the proposed completion of a driveway at the property located at 199 Barnard Road, Granville, MA

The form of notification and the list of abutters to whom it was sent, and their addresses are attached to this Affidavit of Service.

Sincerely,
SALVINI Associates



Stephen A. Salvini
Professional Land Surveyor

Office Locations

CHESTER

585 Route 20 ~ P. O. Box 742 ~ Chester, MA 01011

(413) 354-1032

Email: steves@SALVINIassociates.com

Website: www.SALVINIassociates.com

7019 0700 0001 5933 9563

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **Paul Mayer**

Street and Apt. No., or PO Box No. **123 Barnard Rd.**

City, State, ZIP+4® **Granville, MA 01034**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SEP - 7 2023
 Chester, MA
 Postmark Here

7019 0700 0001 5933 9600

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Sent To **William Jarvis**

Street and Apt. No., or PO Box No. **231 South Lane**

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Sent To: Michael P Crawford

Street and Apt. No., or PO Box No. 137 South Lane

City, State, ZIP+4® Granville MA 01034

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City, State, ZIP+4® Nashfield VT 05663

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Adult Signature Restricted Delivery \$ _____

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PROJECT NARRATIVE and WETLAND REPLICATION PLAN

199 BARNARD ROAD, GRANVILLE, MA

Introduction

As requested by Jacob Shultz, (the Applicant), Salvini Associates, LLC. Is submitting a Notice of Intent to complete a driveway at 199 Barnard Road in Granville MA. The subject property is 2.5 acres and is listed as 17-62-1 on the Town of Granville tax maps.

An NOI was submitted in January 2009 (DEP File No. 166- 0042) for the same project. The driveway was not completed, and the property was sold to the current owner, the applicant who is planning to complete the driveway and build a single-family home and detached garage in an upland area at the west end of the property. The wetland portion of the driveway was completed under the previous NOI. The mitigation for the wetland loss was started but not completed. This NOI is for completing replication to mitigate for the lost wetlands and complete the remainder of the driveway.

Salvini Associates, LLC completed a site assessment in May 2023 to determine if there are any additional resource areas subject to protection under Massachusetts Wetland Protection Act M.G.L. c. 131 § 40 and, or any municipal wetlands regulations. There are no additional resource areas located within the work area of the driveway route.

Using Mass Mapper, Natural Heritage Endangered Species Program, (NHESP) there are no Natural Communities, Estimated Habitats of Rare Wildlife, and Priority Habitat of Rare Species or Vernal pools located on the subject property.

Based on FEMA's GIS Flood Hazard mapping, none of the subject property is located within the 100 or 500-year flood zone. The wetlands mapped in the area are listed as having a Title 5 Buffer, there are no plans to locate a septic system within the Title 5 Buffer.

Property Overview

The property is Northern Hardwood Forest with a mix of Beech, Sugar Maple, in upland areas and Eastern Hemlock, Yellow Birch and Red Maple in lower areas. The topography of the property is mostly level with small undulations at the front and moderately steep uphill going west towards the back of the property. Upland portions of the property have been logged in the past. The logging road is being used as the route for the driveway. The wetlands are forested except for the area where the driveway crossing is located. The wetland is mapped as a wooded deciduous swamp on Mass Mapper. The wetland continues north and south onto adjacent properties.

Using USDA Web Soil Survey, the soils along the front of the property are mapped as Ashfield fine sandy loam 3 to 8% slopes. The middle portion and the north side of the property is mapped as Pillsbury 8 to 15% slope. The remainder of the property including the proposed building site is mapped as Westminster fine sandy loam 3 to 8% slopes. Ashfield soils are classified as moderately well drained formed on glacial uplands from schistose, gneiss and phyllite. The parent material is primarily micaceous schist and some siliceous limestone. Pillsbury soils are classified as poorly drained cobbly loam, also

formed on glacial lodgment till derived from granite, gneiss, and schist. These soils are found on nearly level to moderately steep convex and concave backslopes, foot slopes and toes. Westminster soils are classified as somewhat excessively well drained fine sandy loam formed on bedrock-controlled slopes. The parent material is predominantly schist.

The site was assessed in May 2023 to determine if there are any resource areas protected by the Wetlands Protection Act or any local wetlands bylaws. The previously delineated limits of the wetland are currently accurate and were not re-delineated for this NOI. The wetland portion of the driveway has been crossed and the remainder of the route is upland.

There is a small, isolated wetland located within the cleared driveway route. This wetland is approximately 800 square feet and is located in an upland area at the base of a hill and west of the original wetland. The wetland is in a shallow excavated depression in the center of the cleared route and does not connect directly to any resource areas. Hydrology is from runoff and precipitation. Vegetation is dominated by Sensitive fern (*Onoclea sensibilis*), Shallow sedge (*Carex lurida*), and Soft Rush (*Juncus effusus*). The margins are dominated by Meadowsweet, (*Spirea latifolia*) and Mountain laurel (*Kalmia latifolia*) seedlings.

Soil bores showed a two-inch Ao horizon of mineral muck overlaying a B horizon of sand and gravel with redoximorphic concentrations and some reduction in the matrix. The wetland is under the 1/4-acre foot capacity to qualify as Isolated Land Subject to Flooding per CMR: 10:57 (2) b. There are no additional wetlands within the driveway corridor. The depression is the result of unfinished grading from the original work.

Project Description

The proposed driveway follows an existing woods road that crosses a bordering vegetated wetland. The wetland crossing was completed under DEP File 166-0042. The driveway area was filled and graded, and an open bottom box culvert was installed to cross an intermittent stream. Finish grading and top dressing needs to be completed in some sections of the driveway. The remainder of driveway needs a gravel base installed and the entire driveway needs a compacted topcoat of gravel or trap rock dust. Impacts are approximately 3,900 square feet, this includes the box culvert, the base, shoulders, and finished driveway. Additional work adjacent to the wetlands includes removing the remains of timber mats and logs along the side of the driveway, finish grading the road shoulders along the driveway and top dressing with loam and seeding. Railings also will be installed on the box culvert.

The total work area within the Wetland was calculated at 3,886.5 square feet for the original NOI. We are proposing to replicate 4,068 square feet of upland to mitigate the loss of wetland area. The original mitigation plan was a single area located within an upland wooded area. We are proposing to use two partially cleared areas along the north and south sides of the driveway corridor for replication. This will reduce impacts to the

forested wetland and upland areas. Approximately 7,500 square feet of buffer zone will be impacted for the driveway and mitigation areas. Please see the replication plan and site plan in Section 6 of this report.

Impacts will be minimized using Best Management Practices for Erosion and Sediment controls as shown in Best Management Practices for Individual Homesites and Small Parcels, from Massachusetts Erosion and Sediment Guidelines for Urban and Suburban Areas MADEP Bureau of Resource Protection, 2003, Please see Section 7 of this report. Straw wattles, straw bales, or silt fence will be placed around the perimeter of the workspace to isolate the construction area from the remainder of the wetland. Straw mulch or jute fabric will be used to stabilize areas around the workspace to prevent any erosion or sedimentation to adjacent resource areas. Erosion control will remain in place throughout construction and until the site is stabilized with 75% vegetated cover.

Mitigation Plan

Wetland replications were planned with the previous NOI but have not been completed. We are proposing to mitigate 4,068 square feet for the lost wetland area with a replication located along each side of the driveway route. There is a partially cleared area along both sides of the driveway that are suitable for replication. Additional shrubs and saplings will be planted to achieve a density of one sapling per 100 square feet. Herbaceous vegetation should naturally grow in from the seed bank in the wetland soil. New England wetland seed mix will be used for ground cover. Soils will be amended with leaf litter to increase the organic material in the soils. The hydric soils from the crossing have been mixed with other soils and graded out along the clearing.

The replication work will be done concurrent with the driveway construction. It is expected that Sensitive Ferns, Ostrich Ferns, and Tussock sedge will be dominant ground cover. Eastern Hemlock Red Maple and Yellow Birch will dominate the understory and canopy. These are the dominant vegetation in the adjacent forested wetland.

The following is a list of suggested ground, shrub, and sapling plantings to be planted. This list is also on the replication site plan.

Tussock sedge (*Carex stricta*)

Sensitive Ferns (*Onoclea sensibilis*)

Ostrich Ferns (*Matteuccia struthiopteris*)

Soft Rush (*Juncus effusus*)

Common Spicebush (*Lindera benzoin*)

Highbush Blueberry (*Vaccinium corymbosum*)

Eastern Hemlock (*Tsuga canadensis*)

Red Maple (*Acer rubrum*)

Yellow Birch (*Betula lutea*)

Hydrology and revegetation will be monitored to be consistent with the adjacent wetland. It is expected that the site will likely be partially inundated with 3 to 6 inches of water some of the time and soil will be saturated to the surface the remainder of the growing season. The vegetated buffer and new plantings will be monitored seasonally for two growing seasons to insure at least 75% survival of plantings. In the event there is not adequate survival the property owner will add additional plantings to meet the requirement. Please see the Replication Plan in Section 8.

Prior to any replication work erosion and sediment control will be installed along the perimeter of the adjacent wetland to minimize impacts. The replication mitigation site will be excavated to a depth sufficient to allow groundwater to saturate the constructed wetland area. Wetland soils from the crossing area will be used in the replication area at least 6-inches deep and graded to equal the adjacent wetland elevation. Soils will be compacted to a loose or friable consistency and wetland plants will be planted as recommended in the Massachusetts Wetland Replication Guidelines, March 2002.

Alternatives Analysis

An alternatives analysis was not done since the project is so far along. The wetland and stream crossings were completed by the previous landowner. Mitigation for the lost wetland area and completing the driveway is the best plan to minimize any resource impacts. The existing driveway route utilizes a previously cleared woods road and is the most direct route to the building site. The wetland crosses the entire front of the property so there was no direct upland route to the building site. The remainder of the route is within uplands.

Resource Area Impacts and Performance Standards

There are no plans for any additional work within the wetland or intermittent stream except for the mitigation site that will be constructed adjacent to the existing wetland. Areas adjacent to the stream and wetland have revegetated and are stable. There should be no additional impacts to the wetlands or intermittent stream resulting from the completion of the driveway and wetland mitigation. The mitigation area will be at the same elevation as the adjacent wetland and will have unrestricted hydrologic connection with the wetland. The area of replacement is equal to or greater than the previously lost area.

Impacts for the mitigation work and the driveway will be minimized using Best Management Practices for Erosion and Sediment controls as shown in Best Management Practices for Individual Homesites and Small Parcels, from Massachusetts Erosion and Sediment Guidelines for Urban and Suburban Areas MADEP Bureau of Resource

Protection, 2003. Straw wattles, straw bales, or silt fence will be placed around the perimeter of the workspace to isolate the construction area from the wetland. Straw mulch or jute fabric will be used to stabilize areas along the edge of the driveway to prevent any erosion or sedimentation within the resource areas. Erosion control will remain in place throughout construction and until the site is stabilized with 75% vegetated cover.

Conclusion

We are proposing to replicate 4,068 square feet of upland located adjacent to the same wetland as the proposed driveway. The previously constructed driveway has impacted approximately 3,868.5 square feet of wetlands. Approximately 7,500 square feet of buffer zone will be impacted. This includes the mitigation sites and the driveway. The remainder of the driveway construction is located in uplands. Mitigation for the lost area of the wetlands will be done concurrent with the driveway construction.

The general location of the house is at the west end of the property at the highest part of the property. Construction of the house is planned for one to two years from now. The specific location of the house, well and septic system has yet to be decided but all will be located outside of any resource areas or buffer zones. The Commission will be notified prior to construction. A separate permit will be submitted if any future work takes place within a resource area or buffer zone.

Section 4 – Site Photos

**199 Barnard Road, Granville MA
Site Photographs**



View south along Barnard Road.



View north along Barnard Road.

**199 Barnard Road, Granville MA
Site Photographs**

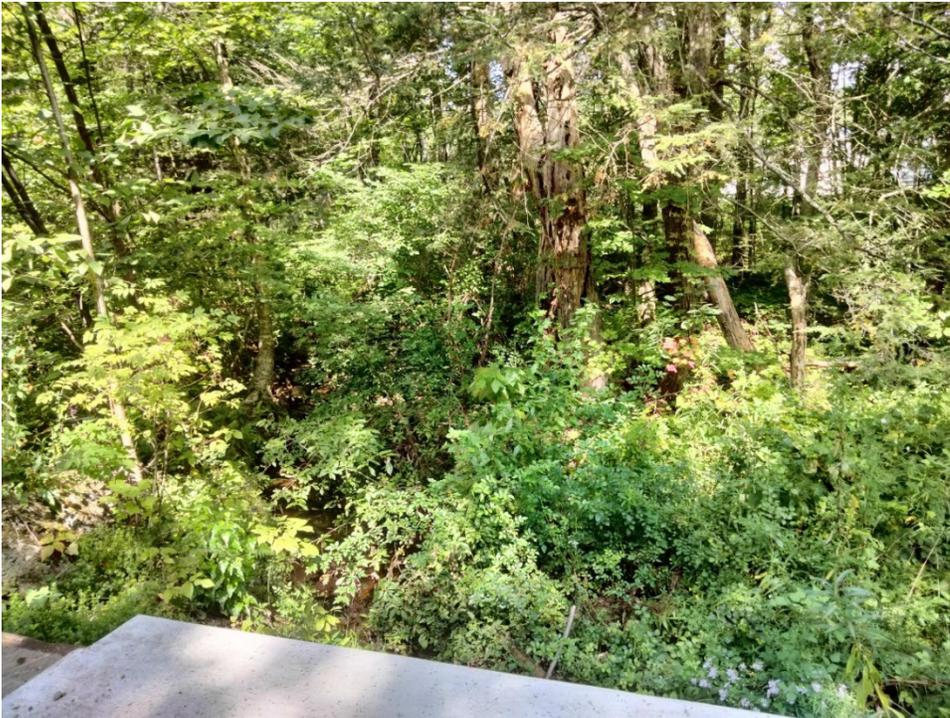


View west of the subject property showing the driveway from Barnard Road.



View west of the box culvert installed under the original NOI from 2009.

**199 Barnard Road, Granville MA
Site Photographs**



View south from the box culvert looking downstream.



View west from the box culvert crossing where the wetland was filled in 2009.

**199 Barnard Road, Granville MA
Site Photographs**



View east of small, isolated wetland in upland area west of the BVW.



View west of the isolated wetland

**199 Barnard Road, Granville MA
Site Photographs**



View north of the adjacent upland to be used as part of the mitigation plan.



View north of proposed mitigation site on the north side of the driveway.

**199 Barnard Road, Granville MA
Site Photographs**



View south of the proposed mitigation site from the driveway route

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

Applicant: David Shultz, Prepared by: Jeff Smith, Salvini Associates, LLC. Project location: 199 Barnard Road, Granville, 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: Isolated Wetland		Transect Number: 1	Date of Delineation: 26 April 2023
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*
Ground cover				
Shallow Sedge/ <i>Carex lurida</i>	20.5%	39.8%	Yes	OBL
Sensitive Fern/ <i>Onoclea sensibilis</i>	20.5%	39.8%	Yes	FACW
Soft Rush/ <i>Juncus effusus</i>	10.5%	20.3%	Yes	FACW
Shrub/Sapling				
Meadowsweet/ <i>Spirea latifolia</i>	10.5%	77.8%	Yes	FAC
Mountain laurel/ <i>Kalmia latifolia</i>	3.0%	22.2.0%	Yes	FACU

* 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: 4

Number of dominant non-wetland indicator plants: 1

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **yes** no

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** no
 title/date: Web Soil Survey
 map number:
 soil type mapped: Pillsbury 921C

hydric soil inclusions:

Are field observations consistent with soil survey? **yes** no
 Remarks:

. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
need soil data			
Ao Mineral Muck	0-2"	10YR3/2	
B sand, gravel	9-19"	10YR5/1	10YR/5/6 10%

Remarks:

3. Other:

Conclusion: Is soil hydric? **yes** no

Isolated Vegetated Wetland with no direct hydrologic connection to a resource area

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

- Site Inundated: _____
- X Depth to free water in observation hole: ___6"_____
- X Depth to soil saturation in observation hole: 3"_____
- 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):

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<u> x </u>	_____
Wetland hydrology present:		
Hydric soil present	<u> x </u>	_____
Other indicators of hydrology present	<u> x </u>	_____
Sample location is in a BVW	_____	<u> x </u>

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: David Shultz Prepared by: Jeff Smith, Salvini associates, LLC Project location: 199 Barnard Road, Granville, MA, 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: Upland		Transect Number: 1	Date of Delineation: 26 April 2023
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*
Ground cover				
Evergreen Woodfern/ <i>Dryopteris intermedia</i>	10.5%	34.0%	Yes	FACU
Mountain Laurel/ <i>Kalmia latifolia</i> seedlings	20.5%	66.4%	Yes	FACU
Sweet Birch/ <i>Betula lenta</i>	3.0%	9.7%	No	FACU
Shrub/Sapling				
Mountain Laurel/ <i>Kalmia latifolia</i>	38.0%	55.9%	Yes	FACU
Striped Maple/ <i>Acer pennsylvanicum</i>	10.5%	15.4%	No	FACU
Hobblebush/ <i>Viburnum lantanoides</i>	10.5%	15.4%	No	FACU
Sweet Birch/ <i>Betula lenta</i>	3.0%	4.4%	No	FACU
Tulip Tree/ <i>Liriodendron tulipifera</i>	3.0%	4.4%	No	FACU
American Beech / <i>Fagus grandifolia</i>	3.0%	4.4%	No	FACU
Canopy				
Eastern Hemlock/ <i>Tsuga canadensis</i>	38.0%	69.7%	Yes	FACU*
Red Maple/ <i>Acer rubrum</i>	10.5%	19.3%	No	FAC
Red Oak/ <i>Quercus rubra</i>	3.0%	5.5%	No	FACU
Sweet Birch/ <i>Betula lenta</i>	3.0%	5.5%	No	FACU

* 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: 1

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 no

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** no
 title/date: Web Soil Survey
 map number:
 soil type mapped: Pillsbury 921C Course Loam

hydric soil inclusions: Yes

Are field observations consistent with soil survey? **yes** no
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
Ao	0-4"	10YR2/1	
E FSL	4-5"	10YR4/1	
AB FSL	5-18"	10YR4/4	
B SL	18-24"	10YR5/3	10YR 5/6, 5%

Remarks:

3. Other:

Conclusion: Is soil hydric? yes **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	___	<u>X</u>
Wetland hydrology present:		
Hydric soil present	___	<u>X</u>
Other indicators of hydrology present	___	<u>X</u>
Sample location is in a BVW	___	<u>X</u>

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



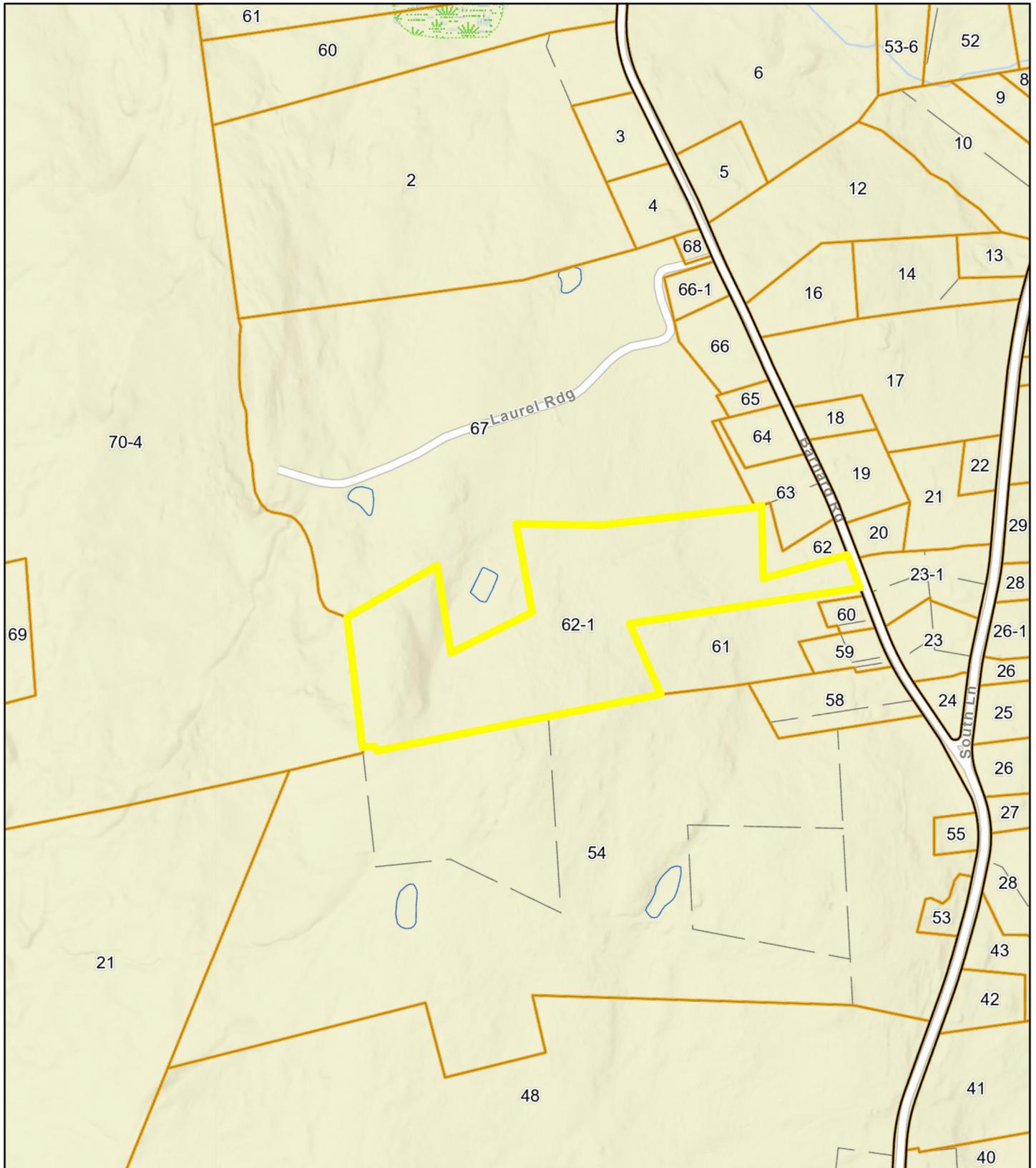
Town of Granville, MA

1 inch = 752 Feet

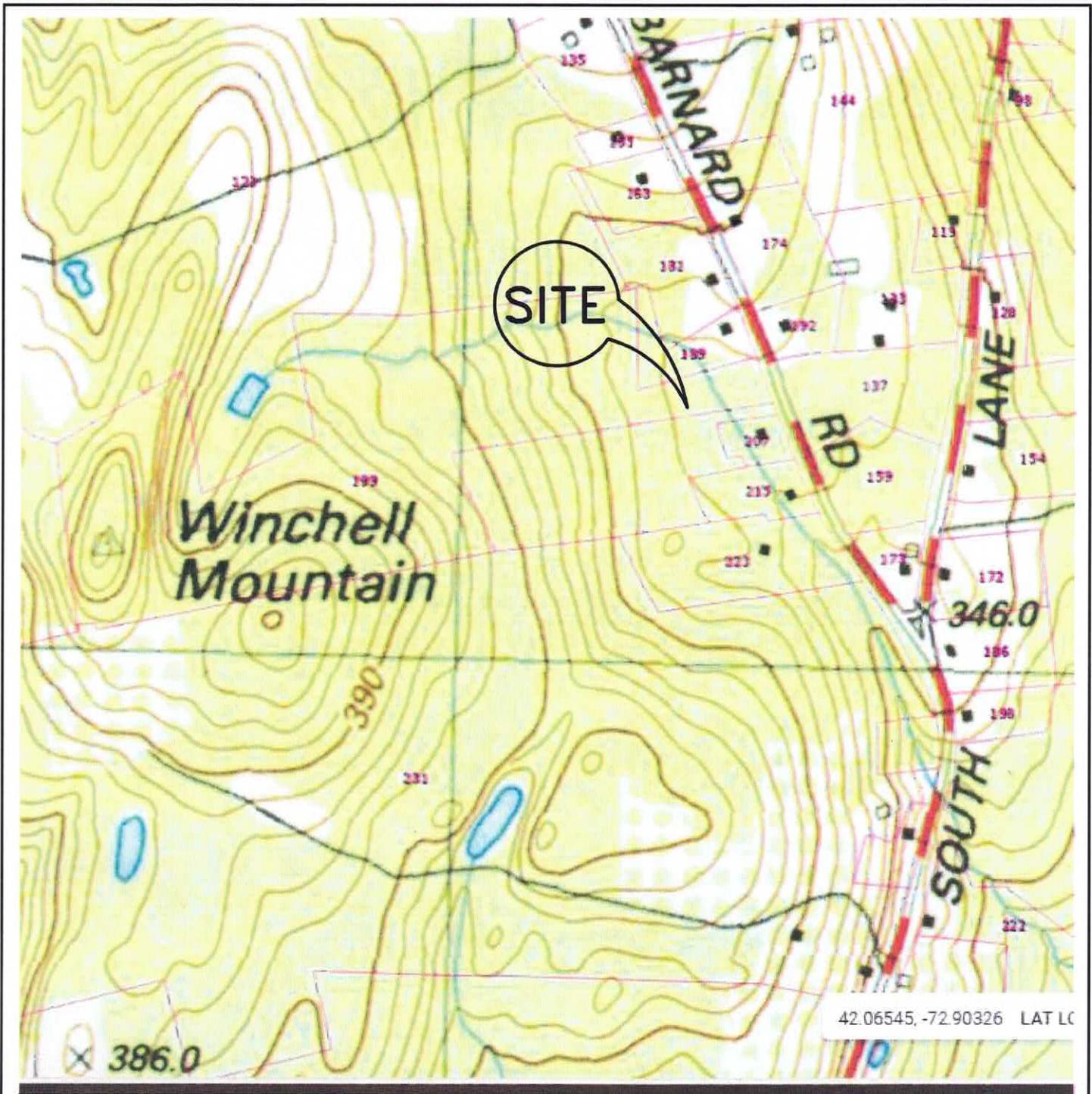


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September 7, 2023



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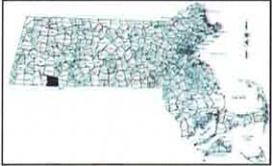


PROJECT NO: G112-23-036

SALVINI Associates, LLC
 Land Surveyors - Wetland Scientist - Land Use Consultants
 585 Route 20 - P. O. Box 742
 Chester, MA 01011 (413)-354-1032
 www.SALVINIAssociates.com

FIGURE NO. 2
 GIS/Topographic Map
 Map 17 Lot 62-1
 Barnard Road
 Ganville, MA

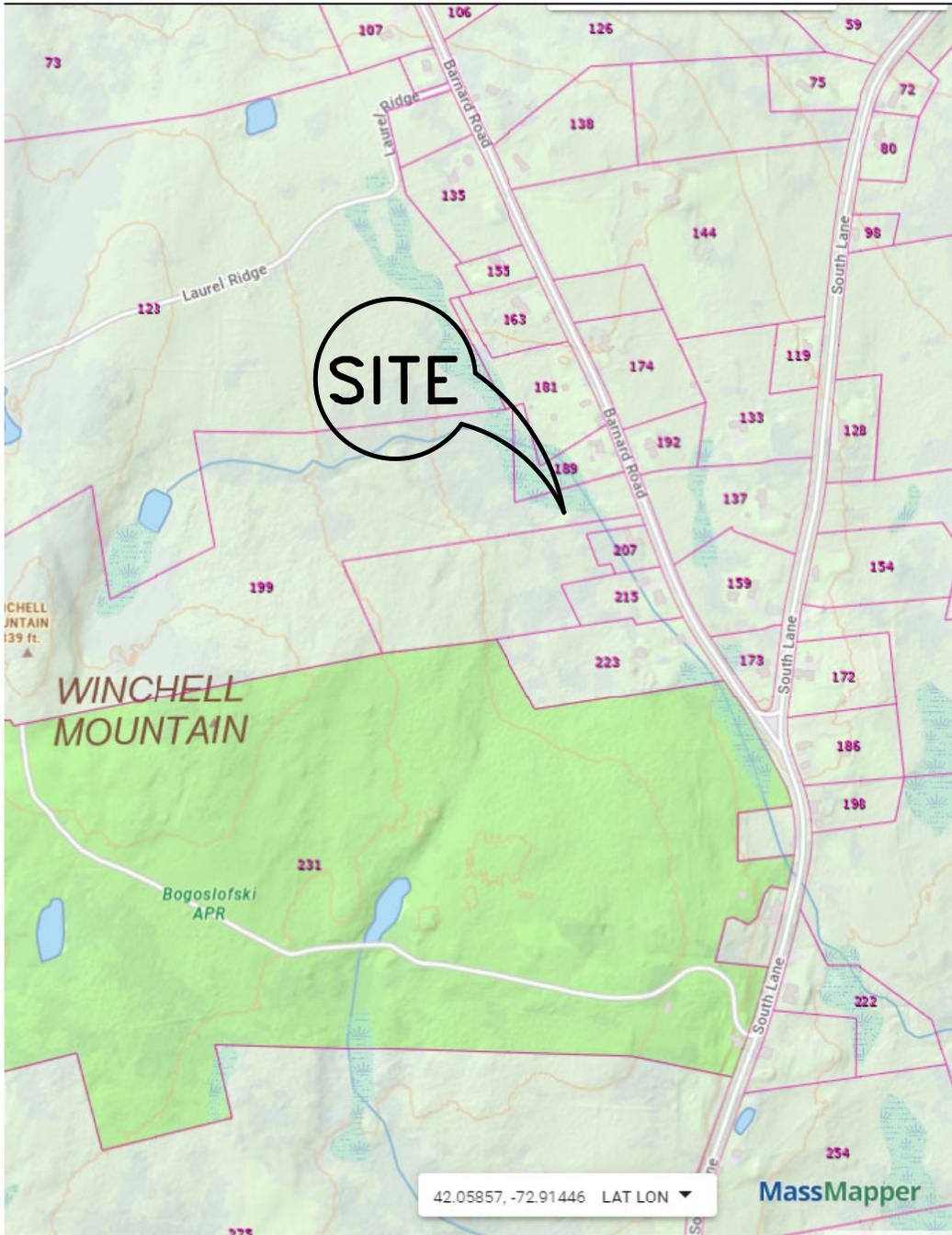
SCALE: N.T.S.



Latitude: N42.05977
 Longitude: W72.89327

September 6, 2023





- > Conservation / Recreation
 - > Cultural Resources
 - > Environmental Monitoring (testing/m
 - > Images
 - > Index (grids/tiling schemes for certai
 - > Infrastructure
 - > Physical Resources
 - > Political / Administrative Boundaries
 - ✓ Regulated Areas
 - > AUL Sites
 - > Aquifers
 - > DEP Integrated List of Waters
 - > DEP Tier Classified 21E Sites
 - > DEP BAW Major Facilities
 - > DEP Surface Water Quality Standar
 - ✓ FEMA Flood Data
 - ☐ FEMA National Flood Hazard La
 - ☐ Q3 Flood Zones (from Paper FIR
 - ☐ NFHL Unavailable)
 - > Ground Water Discharges
 - > Natural Heritage Data
 - > Solid Waste Diversion and Disposa
- [FEMA National Flood Hazard](#)
 1% Annual Chance Flood Hazard
 Regulatory Floodway
 Area of Undetermined Flood Hazard
 0.2% Annual Chance Flood Hazard
 Area with Reduced Risk Due to Leve
 Area Not Included
- [Property Tax Parcels](#)
 [USGS Topographic Maps](#)

PROJECT NO: G112-23-036

SALVINI Associates, LLC

Land Surveyors - Wetland Scientist -Land Use Consultants

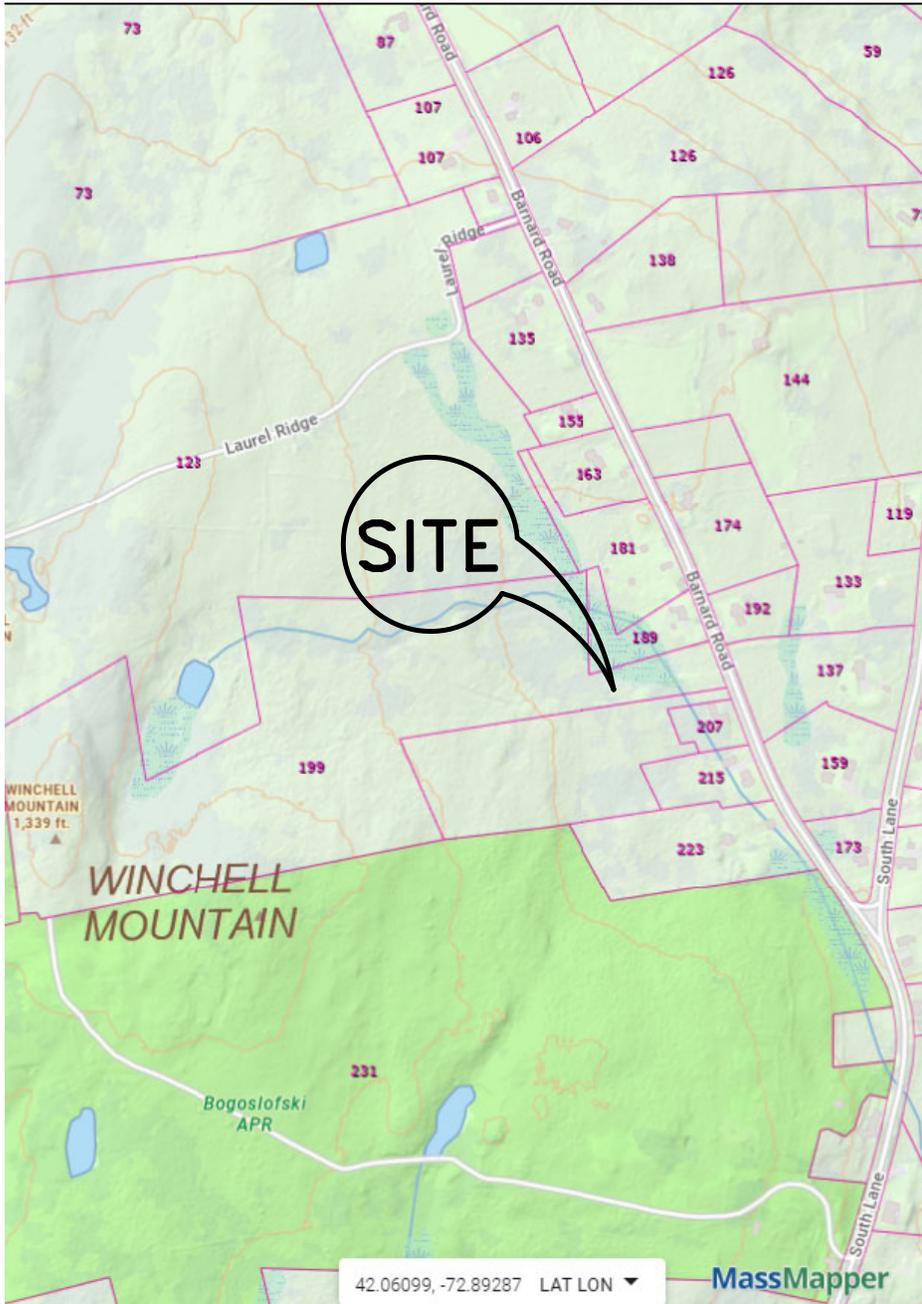
585 Route 20 - P. O. Box 742
 Chester, MA 01011 (413)-354-1032
 www.SALVINIAssociates.com

FIGURE NO. 3
 FEMA Flood Map
 Map 17 Lot 62-1
 Barnard Road
 Ganville, MA

SCALE: N.T.S.

Latitude: N42.05977
 Longitude: W72.89327

September 6, 2023



- > Political / Administrative Boundaries
- ✓ Regulated Areas
 - > AUL Sites
 - > Aquifers
 - > DEP Integrated List of Waters
 - > DEP Tier Classified 21E Sites
 - > DEP BAW Major Facilities
 - > DEP Surface Water Quality Standards
 - > FEMA Flood Data
 - > Ground Water Discharges
- ✓ Natural Heritage Data
 - ☐ NHESP Estimated Habitats of Rare Wildlife
 - ☐ NHESP Priority Habitats of Rare Species
- > Solid Waste Diversion and Disposal
- > Title 5 Buffers
- > Surface Water Protection Areas
- > Underground Storage Tanks
- > Wellhead Protection Areas
- > Status / Availability (maps showing where data available or date of data)
- > Tiled Layers

- ✓ [NHESP Certified Vernal Pools](#)
- ✓ NHESP Ecoregions
- ✓ [NHESP Priority Habitats of Rare Species](#)
- ✓ [Property Tax Parcels](#)

PROJECT NO: G112-23-036

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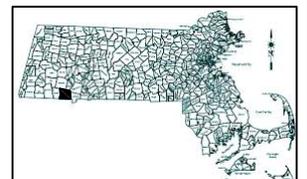
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FIGURE NO. 4
Natural Heritage Endangered Species Map

Map 17 Lot 62-1

Barnard Road
Ganville, MA



Latitude: N42.05977

Longitude: W72.89327

SCALE: N.T.S.

September 6, 2023



Notes:

Table prepared by R. DeVergilio, Natural Resources Conservation Service, Amherst MA. Adapted from NRCS data base 'Plants For BioEngineering, Uses, H. W. Everett, 11/95'. Native plant review by the Massachusetts Native Plant Advisory Committee.

Special Note..... 'Streamco' and 'Bankers' are not native to Massachusetts. It is recommended they only be used in combination with native species.

1/ Plant Material Types: 'All' includes Dormant Fascines, Stakes, Brush Mattresses, Layering, and Cuttings as well as Rooted Cuttings and Plants.

2/ Western Mass. includes Berkshire, Franklin, Hampshire, and Hampden Counties.

3/ Tree species, such as cottonwood, poplar and black willow, are recommended for riparian area plantings and are not recommended for establishment upon the streambank itself due to potential for windthrow at maturity, and subsequent damage to the streambank.

4/ *Viburnum opulus* is similar to *V.trilobum* and is often confused with it. *V. opulus* is introduced to Massachusetts.

Streambank Zones:

Lower is at or near the normal waterline to the upper limit of saturation due to capillary action.

Mid is the surface area above the upper limit of the lower zone to about 3 feet from the top of bank.

Upper is the surface area about 3 feet from the top of bank and extending into the riparian zone.

Erosion and Sediment Control Best Management Practices for Individual Homesites and Small Parcels

Construction on small developments can cause large amounts of sediment to be transported to receiving waters. The following are some of the damaging activities and conditions that may occur during development:

Exposed and unprotected soil is often left throughout the development. When runoff occurs, sediment is transported into the nearest stormwater facility or stream, eventually clogging it.

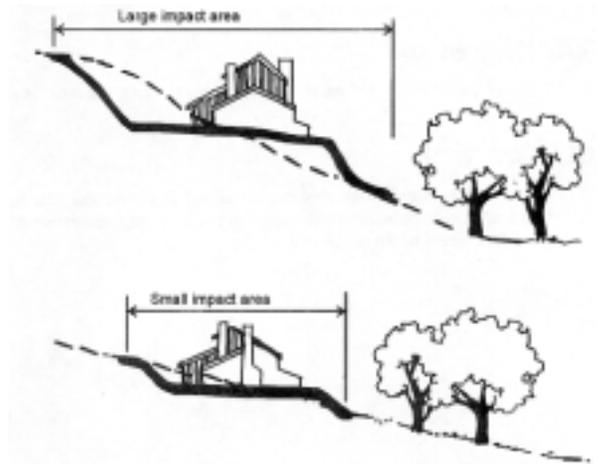
Vehicles and heavy equipment track soil from the development onto the street. Gullies formed by tire tracks become channels for runoff flow.

Vegetation bordering streams or lakes is often removed during construction. This increases the water temperature by removing shade. An increase in water temperature can contribute to algae blooms and may change the species composition of the lake or stream. Because the vegetation has been removed, there is no barrier to prevent sediment from entering the stream. This can clog spawning grounds and fish gills.

These problems may occur during work performed by subcontractors who are on-site for a very short time. Cooperation and communication between developers, builders, and subcontractors are essential to minimize erosion and damage to the environment.

Clearing and Grading

Plan and implement proper clearing and grading of the site. It is important to clear only the areas needed, thus keeping exposed areas to a minimum. Phase the clearing so that only those areas that are actively being worked are uncovered. Clearing limits should be flagged prior to the start of clearing work.



Excavated Basement Soil

Locate excavated basement soil a reasonable distance behind the curb, such as in the backyard or side yard area. This will increase the distance eroded soil must travel to reach the storm sewer system. Soil piles should be covered until the soil is either used or removed. Piles should be situated so that sediment does not run into the street or adjoining yards.

Backfilling

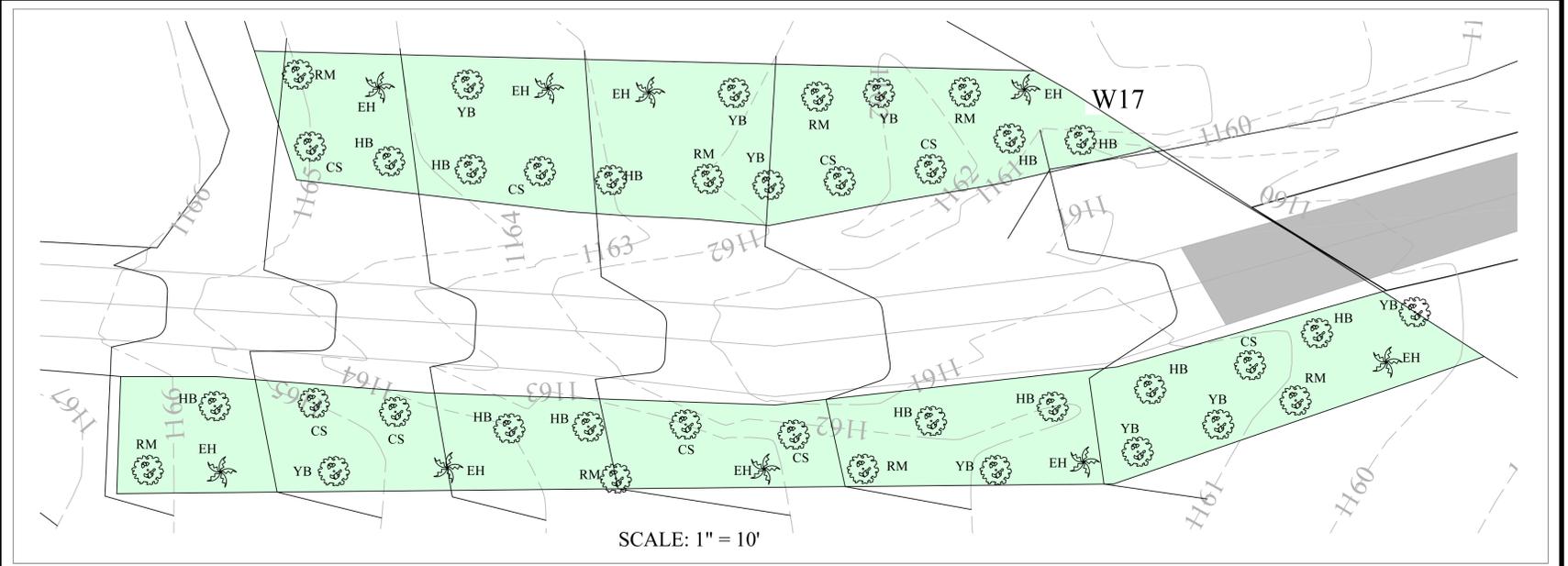
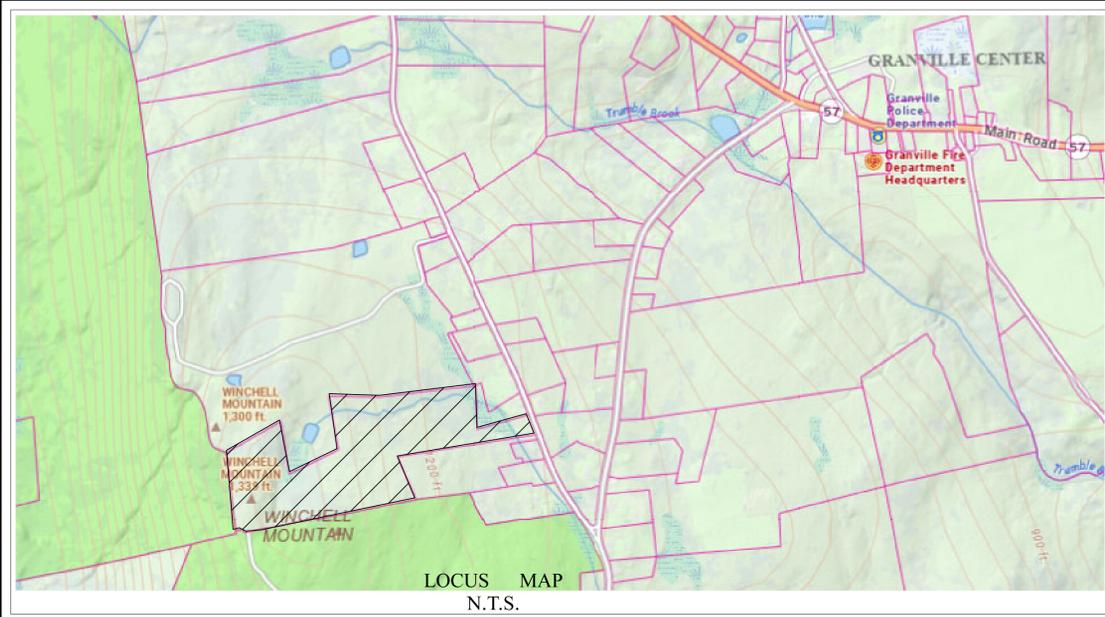
Backfill basement walls as soon as possible and rough grade the lot. This will eliminate large soil mounds which are highly erodible and prepares the lot for temporary cover which will further reduce erosion potential.

Removal of Excess Soil

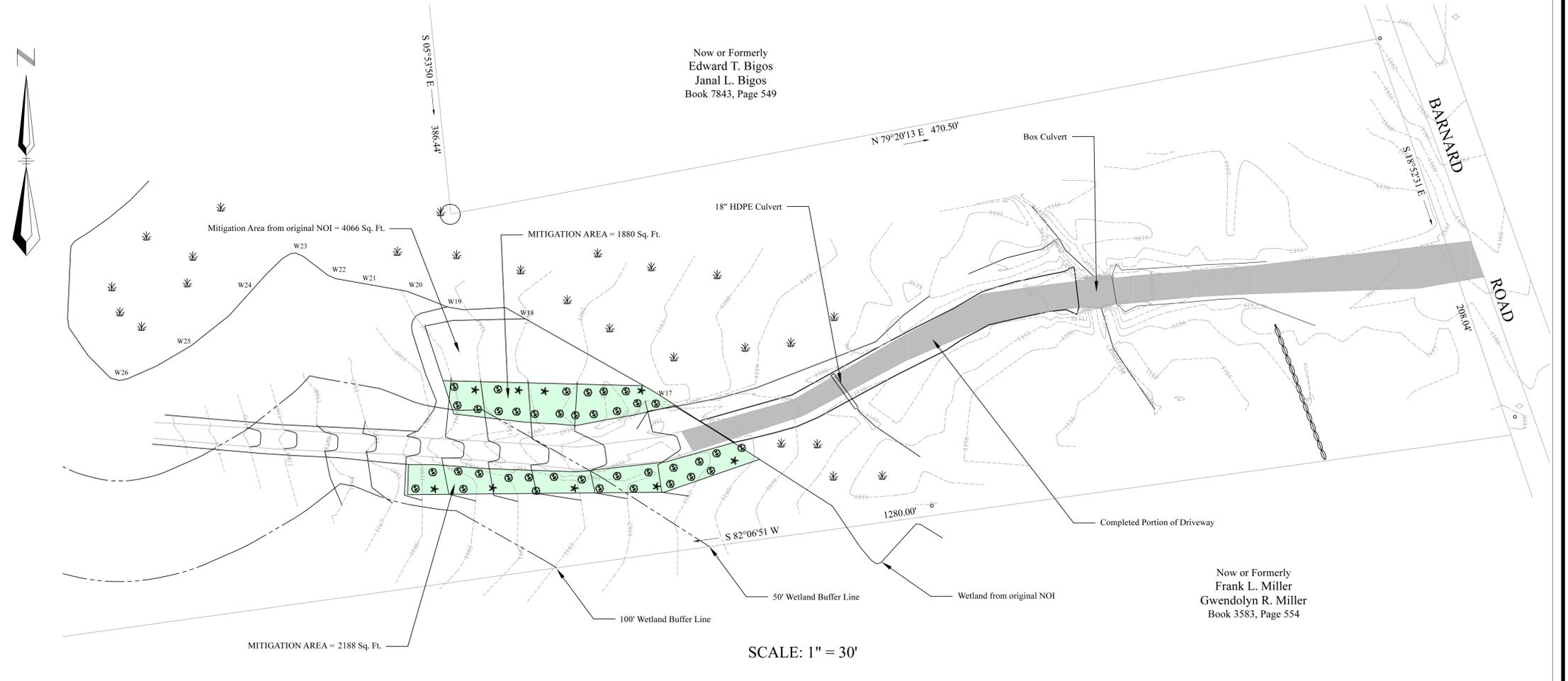
Remove excess soil from the site as soon as possible after backfilling. This will eliminate any sediment loss from surplus fill.

Management Of Soil Banks

If a lot has a soil bank higher than the curb, a trench or berm should be installed moving the bank several feet behind the curb. This will reduce the occurrence of gully and rill erosion while providing a storage and settling area for stormwater.



- General Notes:
- 1) Base plan prepared by Salvini Associates, LLC and dated: June 11, 2022
 - 2) Soils to be augmented with 10 to 12 inches of custom soil mix consisting of 1:1:1, sand:compost:loam.
 - 3) Replication area to be graded 1 foot below proposed grade and infill with custom soil mix to ensure saturation of planting media and contact with water table.
 - 4) Plants to be installed by a restoration specialist.
 - 5) Location of individual plants are approximate and subject to change based on site specific conditions at the time of planting.
 - 6) Plant symbols do not necessarily indicated single plants and may indicate groupings of plants.
 - 7) Installation of plantings are to be done by hand, but for larger ball and burlapped stock and trees. A small backhoe or mini-excavator may be used for this material.
 - 8) Irrigation shall be provided by owner, as needed, during the first two (2) growing seasons, or until plants have established.
- Jeffery K. Smith, PWS

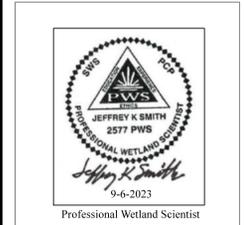
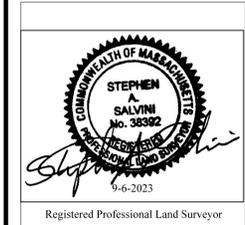


Wetland Replication Plant List

CS	Common Spicebush	(Lindera benzoin)
HB	Highbush Blueberry	(Vaccinium corymbosum)
EH	Eastern Hemlock	(Tusga canadensis)
RM	Red Maple	(Acer rubrum)
YB	Yellow Birch	(Betula lutea)

Total Mitigation Area = 4068 Sq. Ft.

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Plan To Accompany A Notice Of Intent

199 Barnard Road
Granville, Massachusetts

PLAN DATE: September 6, 2023
Project Number: G 112 - 23 - 036
Scale: 1" = 30'
0' 30' 60'
DRAWING # **NOI-1** REV. **0**

Prepared For:
Jacob Samuel Schultz
100 Devon Terrace
Westfield, Massachusetts