<u>Heather Comee</u> Wetland Consultant

NOTICE OF INTENT FORM 3 LOT 1 WEST STREET (3-D-1) GRANBY, MASSACHUSETTS

Applicant & Owner:

William E. Chapdelaine 404 River Road South Hadley, MA. 01075

NOI Prepared by: Heather Comee Wetland Consultant 572 East River Road Huntington, MA. 01050

Survey by: Smith Associates Surveying, Inc. 46B Baldwin Street P.O. Box 354 East Longmeadow, MA. 01028

Engineering by:

Innovative Engineering & Consulting, LLC. 308 Miller Street, Unit 40 Ludlow, MA. 01056

For Submission to: Granby Conservation Commission & Massachusetts Department of Environmental Protection

Job Number 20-003

January 19, 2021

<u>Heather Comee</u> Wetland Consultant

January 19, 2021

Granby Conservation Commission Senior Center Building 10-B West State Street 2nd Floor Granby, MA 01033

> Notice of Intent Lot 1 West Street (3-D-1) Granby, MA

Dear Commission Members:

Please find enclosed two (2) copies of a Notice of Intent (Form 3) as per the Massachusetts Wetland Protection Act, MGL c 131 s 40. An electronic copy of this submittal has also been emailed to the chair of the commission and can be forwarded to the commission members. This filing is being made on behalf of our client, Mr. William Chapdelaine of South Hadley, Massachusetts. Two (2) copies of the following plans have also been enclosed:

Plan of Land. Lot 1 West Street, Granby, MA. Owned By William E. Chapdelaine. Prepared by Smith Associates Surveyors, Inc. Dated 12/23/2020. Scale 1" = 40'.

Also, enclosed is a filing fee check in the amount of \$262.50, the Conservation Commission's share of the \$500.00 filing fee. In **Appendix A** is a copy of the transmittal form used to determine the filing fee.

One (1) complete copy of this submittal has been electronically submitted via eDEP to the Western Regional Office of the Massachusetts Department of Environmental Protection (DEP). Additionally, all site abutters within 100-feet have been notified via certificate of mailing of the Notice and informed where copies may be examined. See **Appendix B** for a list of site abutters, Affidavit and Notification to Abutters form, and the Certificate of Mailing FIRM Receipts.

Should you have any questions or comments regarding this submittal, please feel free to call the office at your convenience.

Sincerely, HEATHER COMEE WETLAND CONSULTANT *Heather M. Comee*

Heather M. Comee Wetland Scientist

c: Western Regional Office of Massachusetts DEP via eDEP Mr. William Chapdelaine

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

A. General Information

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 Granby 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.

Lot 1 West Street	Granby	01033
a. Street Address	b. City/Town	c. Zip Code
	42.25781N	72.52504W
Latitude and Longitude:	d. Latitude	e. Longitude
3-D	1	
f. Assessors Map/Plat Number	g. Parcel /Lot Nu	Imber
Applicant:		
William	Chapdelair	ne
a. First Name	b. Last Name	
c. Organization		
404 River Road		
d. Street Address		
South Hadley	MA	01075
e. City/Town	f. State	g. Zip Code
	bjchapde@comca	ast.net
h. Phone Number i. Fax I	Number j. Email Address	
Property owner (required if dif a. First Name	fferent from applicant): b. Last Name	ck if more than one owner
a. First Name		
a. First Name c. Organization		
a. First Name c. Organization d. Street Address e. City/Town	b. Last Name	3
a. First Name c. Organization d. Street Address e. City/Town	b. Last Name	3
a. First Name c. Organization d. Street Address e. City/Town h. Phone Number i. Fax I	b. Last Name	3
a. First Name c. Organization d. Street Address e. City/Town h. Phone Number i. Fax I Representative (if any):	b. Last Name f. State Number j. Email address	g. Zip Code
a. First Name c. Organization d. Street Address e. City/Town h. Phone Number i. Fax I Representative (if any): Heather	b. Last Name f. State j. Email address Comee b. Last Name	g. Zip Code
a. First Name c. Organization d. Street Address e. City/Town h. Phone Number i. Fax I Representative (if any): Heather a. First Name	b. Last Name f. State j. Email address Comee b. Last Name	g. Zip Code
a. First Name c. Organization d. Street Address e. City/Town h. Phone Number i. Fax I Representative (if any): Heather a. First Name Heather Comee Wetland Con	b. Last Name f. State j. Email address Comee b. Last Name	g. Zip Code
a. First Name c. Organization d. Street Address e. City/Town h. Phone Number i. Fax I Representative (if any): Heather a. First Name Heather Comee Wetland Con c. Company 572 East River Road d. Street Address	b. Last Name b. Last Name f. State Number j. Email address Omee b. Last Name	g. Zip Code
a. First Name c. Organization d. Street Address e. City/Town h. Phone Number i. Fax I Representative (if any): <u>Heather</u> a. First Name <u>Heather Comee Wetland Con</u> c. Company 572 East River Road	b. Last Name f. State j. Email address Comee b. Last Name	g. Zip Code
a. First Name c. Organization d. Street Address e. City/Town h. Phone Number i. Fax I Representative (if any): Heather a. First Name Heather Comee Wetland Con c. Company 572 East River Road d. Street Address Huntington	b. Last Name b. Last Name f. State Number j. Email address Comee b. Last Name	g. Zip Code

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

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4

A. General Information (continued)

6. General Project Description:

The construction of a single-family home and associated work is proposed within BVW buffer zone.

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

- 1. Single Family Home
 2. Residential Subdivision
- 3. Commercial/Industrial
- 5. 🗌 Utilities
- 7. Agriculture (e.g., cranberries, forestry)
- 9. 🗌 Other

1. 🗍

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)?

Vac	∕es ⊠ No	If yes, describe which limited project applies to this project. (See 310 CMR
163		10.24 and 10.53 for a complete list and description of limited project types)

4.

6.

Dock/Pier

8. Transportation

Coastal engineering Structure

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

Hampshire	
a. County	b. Certificate # (if registered land)
12984	158
c. Book	d. Page Number

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

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

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



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

	<u>Resour</u>	<u>ce Area</u>	Size of Proposed Alteration	Proposed Replacement (if any)
For all projects	a. 🗌	Bank	1. linear feet	2. linear feet
affecting other Resource Areas, please attach a narrative explaining how the resource	b. 📘	Bordering Vegetated Wetland	1. square feet	2. square feet
	c. 🗌	Land Under Waterbodies and	1. square feet	2. square feet
area was delineated.		Waterways	3. cubic yards dredged	
	<u>Resour</u>	ce Area	Size of Proposed Alteration	Proposed Replacement (if any)
	d. 🗌	Bordering Land Subject to Flooding	1. square feet	2. square feet
			3. cubic feet of flood storage lost	4. cubic feet replaced
	e. 🗌	Isolated Land Subject to Flooding	1. square feet	
			2. cubic feet of flood storage lost	3. cubic feet replaced
	f. 🗌	Riverfront Area	1. Name of Waterway (if available) - sp	pecify coastal or inland
	2.	Width of Riverfront Area	a (check one):	
		25 ft Designated	Densely Developed Areas only	
		🔲 100 ft New agricu	Itural projects only	
		200 ft All other pr	ojects	
	3.	Total area of Riverfront A	rea on the site of the proposed proj	ect: square feet
	4.	Proposed alteration of the	e Riverfront Area:	
	a.1	total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
	5.	Has an alternatives analy	sis been done and is it attached to	this NOI?
	6.	Was the lot where the act	ivity is proposed created prior to Au	ugust 1, 1996? □ Yes □ No
	3. 🗌 Coa	astal Resource Areas: (Se	ee 310 CMR 10.25-10.35)	
	Note:	for coastal riverfront area	s, please complete Section B.2.f. a	above.



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Bureau of Resource Protection - Wetlands

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Document Transaction Number Granby 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		<u>Resou</u>	rce Area	Size of Proposed	d Alteration	Proposed Replacement (if any)
transaction number		а. 🗌	Designated Port Areas	Indicate size ur	nder Land Under	the Ocean, below
(provided on your receipt page) with all		b. 🗌	Land Under the Ocean	1. square feet		
supplementary information you submit to the				2. cubic yards dredge	ed	
Department.		c. 🗌	Barrier Beach	Indicate size und	ler Coastal Beac	ches and/or Coastal Dunes below
		d. 🗌	Coastal Beaches	1. square feet		2. cubic yards beach nourishment
		e. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment
				Size of Proposed	d Alteration	Proposed Replacement (if any)
		f. 🗌	Coastal Banks	1. linear feet		
		g. 🗌	Rocky Intertidal Shores	1. square feet		
		h. 🗌	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation
		i. 🗌	Land Under Salt Ponds	1. square feet		
			Fonds	·		
		j. 🗌	Land Containing	2. cubic yards dredg	ea	
		_	Shellfish	1. square feet		
		k. 📃	Fish Runs			s, inland Bank, Land Under the rWaterbodies and Waterways,
		ı. 🗖	Land Subject to	1. cubic yards dredge	ed	
		_	Coastal Storm Flowage	1. square feet		
2	4.	If the p	footage that has been enter			esource area in addition to the ve, please enter the additional
		a. squar	e feet of BVW		b. square feet of S	alt Marsh
	5.	🗌 Pro	pject Involves Stream Cross	sings		
		a. numb	er of new stream crossings		b. number of repla	cement stream crossings



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C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

 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.

mup://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.ntm.

a. 🗌 Yes	\boxtimes	No	
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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. C Assessor's Map or right-of-way plan of site
- 2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

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

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



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

(c) MESA filing fee (fee information available at <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm</u>). 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, <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm;</u> 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.		
2.	Separate MESA review origoing.	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
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If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:	North Shore - Hull to New Hampshire border:
Division of Marine Fisheries -	Division of Marine Fisheries -

Southeast Marine Fisheries Station Attn: Environmental Reviewer 836 South Rodney French Blvd. New Bedford, MA 02744 Email: <u>DMF.EnvReview-South@state.ma.us</u> Division of Marine Fisheries -North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: <u>DMF.EnvReview-North@state.ma.us</u>

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.

	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		Provided by MassDEP: MassDEP File Number Document Transaction Number Granby		
			City/Town		
	C.	Other Applicable Standards and Requirements	(cont'd)		
	4.	Is any portion of the proposed project within an Area of Critical Environ	mental Concern (ACEC)?		
Online Users: Include your document		a. Yes No If yes, provide name of ACEC (see instructions Website for ACEC locations). Note: electronic			
transaction		b. ACEC			
number (provided on your receipt page) with all	5.	Is any portion of the proposed project within an area designated as an (ORW) as designated in the Massachusetts Surface Water Quality Star			
supplementary information you		a. 🗌 Yes 🖾 No			
submit to the Department.	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, § 10) 			
		a. 🗌 Yes 🛛 No			
	7.	Is this project subject to provisions of the MassDEP Stormwater Manag	ement Standards?		
		 a. Yes. Attach a copy of the Stormwater Report as required by the Standards per 310 CMR 10.05(6)(k)-(q) and check if: 1. Applying for Low Impact Development (LID) site design cress Stormwater Management Handbook Vol. 2, Chapter 3) 	dits (as described in		
		2. A portion of the site constitutes redevelopment			
		3. Proprietary BMPs are included in the Stormwater Manager	nent 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 singl or equal to 4 units in multi-family housing project) with no disc			
	D.	Additional Information			
		This is a proposal for an Ecological Restoration Limited Project. Skip S Appendix A: Ecological Restoration Notice of Intent – Minimum Require 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.



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D. Additional Information (cont'd)

- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. \boxtimes List the titles and dates for all plans and other materials submitted with this NOI.

Plan of Land. Lot 1 West Street, Granby	, MA. Owned by William E. Chapdelaine.
a. Plan Title	
Smith Associates Surveyors, Inc.	Michael Smith
b. Prepared By	c. Signed and Stamped by
12/23/20	1" = 40'
d. Final Revision Date	e. Scale

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:

1025	16 Jan 2021		
2. Municipal Check Number	3. Check date		
1026	16 Jan 2021		
4. State Check Number	5. Check date		
Heather M. Comee DBA	Heather Comee Wetland Consltnt		
6. Payor name on check: First Name	7. Payor name on check: Last Name		



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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. Sign Owner (if different), 0 5. Signature of Representative (if any)

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.

Addendum to Notice of Intent for Lot 1 West Street (assessors ID 3-D-1) Granby, MA

Introduction:

Heather Comee Wetland Consultant has been retained by Mr. William Chapdelaine to file separate (Form 3) Notice of Intents (NOI) for each of the two (2) homes proposed on a lot on the southerly side of West Street in Granby, MA. The 13.09 acre parent parcel will be subdivided into three (3) lots, two (2) of which are proposed to be built on. Within lot 1 exists Bordering Vegetated Wetland (BVW), and Bank resource of an intermittent stream both of which fall under the jurisdiction of the Massachusetts Wetland Protection Act (WPA).

Description of Property:

Lot 1 contains ± 1.04 -acres and is located within the northwest corner of the parent parcel, west of an intermittent stream with a BVW bordering its banks. The site is currently vegetated with white pine – *Pinus strobus*, multiflora rose – *Rosa multiflora*, and honeysuckle – *Lonicera sp.* shrubs and saplings. Residences exists to the north and west and portions of the parent parcel exist to the south and east. See **Figure 1** for the Site Locus and **Figure 2** for the 2016 Colored Aerial Photo.

Wetland Delineation:

Prior to conducting the wetland delineation, available soil, topographic, aerial, endangered species habitat and flood plain maps were reviewed. The delineations incorporated the fifty-percent or more of hydrophytic vegetation and indicators of hydrology criterion cited in the WPA. The methods cited in the manuals, *Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral & Northeast Region (version 2.0, January 2012)* were also employed. The BVW was delineated in the field with sequentially numbered blue flags, which have been depicted on the enclosed plan as W1–W12. The wetland resource area was delineated by vegetation, topography, hydric soils and hydrology.

Two (2) hand dug soil borings were conducted along the wetland line to substantiate the delineation. The soil samples and their profiles were analyzed for redoximorphic features and other indicators of hydrology utilizing the Munsell Soil Color Chart and the methods cited in the manual *Field Indicators for Identifying Hydric soils of New England Version 4, April 2019.* Pink flags labeled SB1 & SB2 were placed in the field and depicted on the plan to indicate where the Soil Borings were conducted. See **Appendix C** for data sheets.

Wetland Description

BVWs are areas that contain fifty-percent or more of hydrophytic vegetation and indicators of hydrology and are hydraulically connected to, or border on a Pond, Bank of a stream, or another BVW. The on-site wetland qualifies as BVW because it is hydraulically connected

to the Banks of an intermittent stream located east of or along the easterly property. The stream banks are located within the boundaries of the wetland and therefore were not separately delineated. BVWs are jurisdictional under the WPA and contain a 100-foot buffer zone.

W1–W12. The W-Series delineates the westerly boundary of a BVW bordering an intermittent stream. The BVW boundary was defined by a clear change in vegetation and soils which correlated well with a \pm 3-4 foot steep slope. The surficial soil within the BVW boring consisted of +20 inches of muck with a matrix color of 10yr 2/1. Free water was observed at 30 inches. The sandy loam soil within the upland boring contained a matrix color of 10yr 2/2 without redoximorphic features until 19 inches. There was no water within the boring or other indicators of hydrology.

The vegetation observed with the wetland consists primarily of Slippery Elm – *Ulmus rubra*, Red Maple – *Acer rubrum*, Winterberry – *Ilex verticillata*, Japanese barberry – *Berberbis thunbergii*, Multiflora Rose – *Rosa mulitiflora*, Cinnamon Fern – *Osmunda cinnamomea*, Skunk Cabbage – Symplocarpus foetidus, and unknown grasses. See **Appendix D** for site photographs.

Intermittent Stream

Pursuant to the criteria for identifying perennial streams under the WPA the on-site stream is depicted on the USGS map as intermittent and as measured using the measuring tool on GIS, it becomes perennial approximately 275 -feet southwest of the parent parcel. See **Figure 1**. Therefore the 200-foot Riverfront Area does not extend onto the parent parcel or the subject site.

Rivers Protection Act- Stream Criteria

In accordance with the Riverfront Area definitions, a stream shown as perennial on the USGS map is perennial unless it is documented that the stream does not flow for at least four (4) non-drought days. A stream shown on the USGS map as intermittent, or not shown at all, that has a watershed area greater than one square mile or a watershed area greater than one-half square mile with 75% stratified drift is perennial. A stream qualifies as intermittent if it is depicted as intermittent, and has a watershed area of less than one-half square mile.

StreamStats Watershed Area

According to the map based presumption criteria, the on-site stream is depicted on the USGS map as intermittent. To further document that the stream is intermittent the watershed area contributing to the stream on-site and the area 200-feet down-stream of the site was calculated using the MADEP approved USGS Watershed Analysis Program. The data indicates that the watershed area contributing to the on-site stream is 0.35 square miles, thus characterizing the stream as intermittent.

<u>Hydrology</u>:

Hydrology to the resource areas is provided by surficial runoff from surrounding land, the intermittent stream, precipitation, and presumably groundwater.

<u>Soils</u>:

The soils on-site were described by the U.S. Soil Conservation Service, Soil Survey for Hampshire County, Central Part, Massachusetts (see below) as depicted on Oliver's GIS Soil Survey map (See Figure 2) The site is comprised of the following soils:

Scarboro Muck - This soil is deep, nearly level, and very poorly drained. It is in low areas and depressions. The permeability of this Scarboro soil is rapid or very rapid throughout the soil. Available water capacity is moderate. The root zone is restricted by a high water table that is at or near the surface during most of the year.

MeA – Merrimac sandy loam, 0 to 3 percent slopes.

MeB – Merrimac sandy loam, 3 to 8 percent slopes. These soils are deep and somewhat excessively drained. The permeability of these Merrimac soils is moderately rapid in the subsoil and rapid or very rapid in the substratum. Available water capacity is moderate.

Topography:

The site topography is fairly level to gently rolling in the developable portion of the lot, which moderately to steeply descends to the wetland area.

Endangered Species:

According to Oliver's MA GIS Data layers for the Massachusetts Natural Heritage and Endangered Species Program (NHESP) the site does not fall within estimated and priority habitat. **Figure 1** shows the estimated and priority habitat layers overlain on a USGS topographical map of the area.

Flood Plain:

The developable portion of the site is outside of both the 100 and 500 year flood plain areas. The 500 year flood plain exists along the stream and wetland area, however does not qualify as Bordering Land Subject to Flooding. See **Figure 4**.

Proposed Activity:

The applicant proposes to construct a single-family home, and associated driveway, deck, septic system, drinking water well, utilities, and lawn area. Work is proposed within the 100-foot BVW buffer zone. No activity is proposed within BVW. The proposed work including the siltation fencing erosion controls and permanent limit of work line, marked with permanent monuments has been depicted on the enclosed plan. See **Appendix F.**

Compliance with the Wetland Protection Act Performance Standards:

Bank 310 CMR 10.54

No Bank alteration is proposed thereby meeting the criteria cited in CMR 10.54 (4).

Bordering Vegetated Wetland 310 CMR 10.55

No BVW alteration is proposed thereby meeting the criteria cited in CMR 10.55 (4).

Erosion Control:

Potential erosion and sedimentation are important concerns based on the proximity of the wetland resource area to the proposed work. Erosion control barriers consisting of entrenched siltation fencing along the entire limit of work line (LOW) and a layer straw wattles at critical points of the LOW line will remain in place until approval from the Commission to remove them has been obtained. All soil temporarily stockpiled on-site will be surrounded with erosion controls and placed as far from the resource areas as possible within the limit of work line.

General Project Construction Sequence:

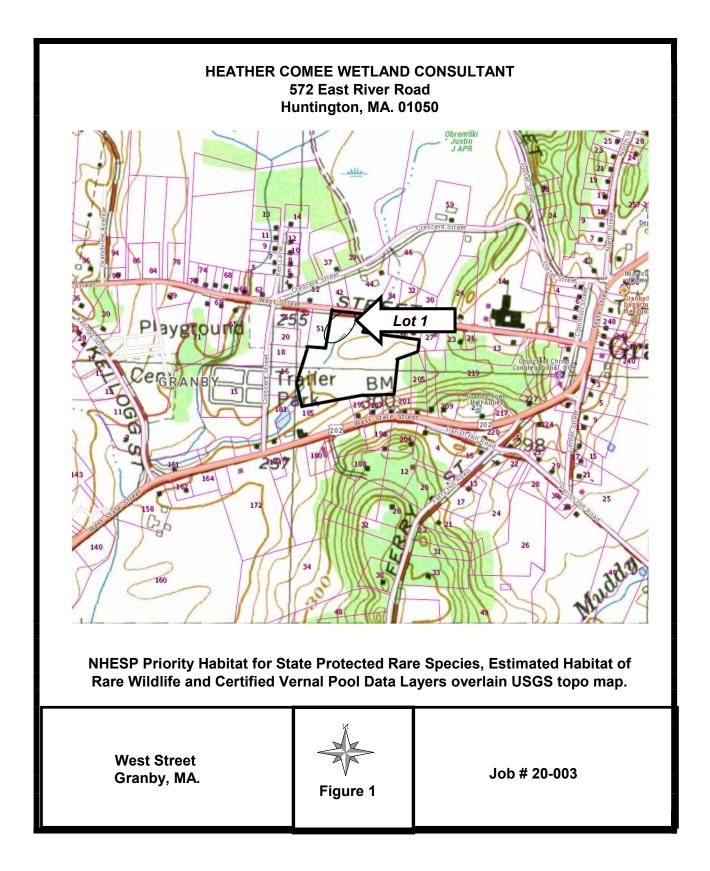
- 1. Record the Order of Conditions at the Registry of Deeds and comply with Conditions.
- 2. The edge of the BVW shall be clearly marked.
- 3. Stake by survey the location of the limit of work line/erosion control line.
- 4. The erosion control barriers shall be installed along the limit of work line. Minimum clearing and hand installation of the erosion control barrier is preferred. At the end of each workday it will be the contractor's responsibility to verify the integrity of the siltation fence.
- 5. Conduct rough grading of the site.
- 6. Construct driveway and residence.
- 7. Install septic system, and well.
- 8. Finish driveway and grading of site.
- 9. Install permanent monuments.
- 10. A vegetative cover shall be established on exposed soil, immediately upon completion of grading.
- 11. Apply for a Certificate of Compliance.

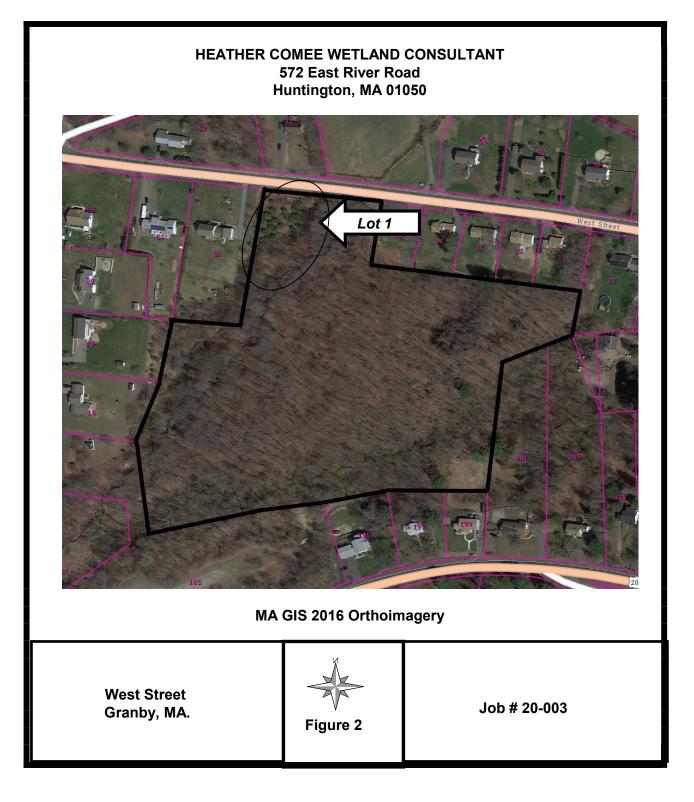
General Construction Performance Standards:

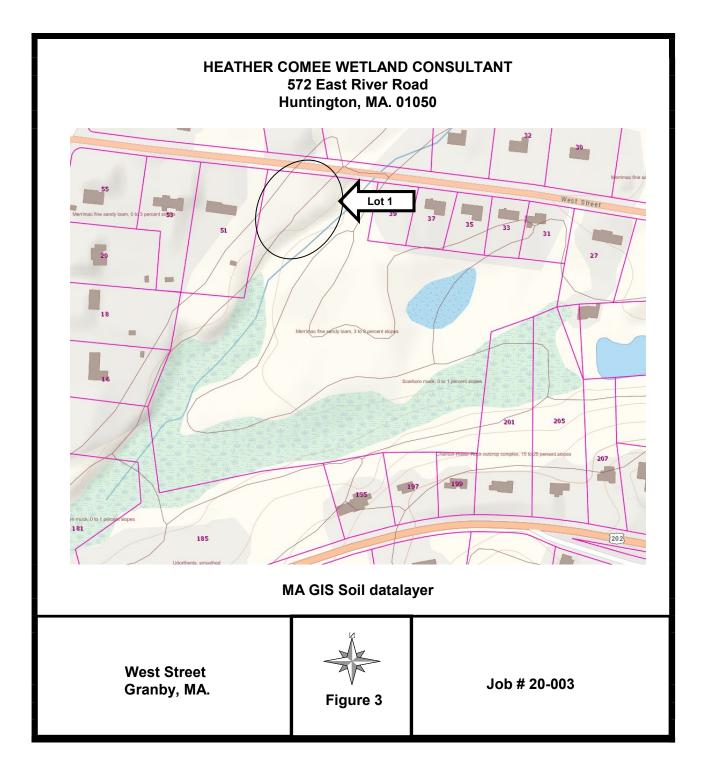
The following performance standards shall serve as limits for revisions, which will not require Conservation Commission review.

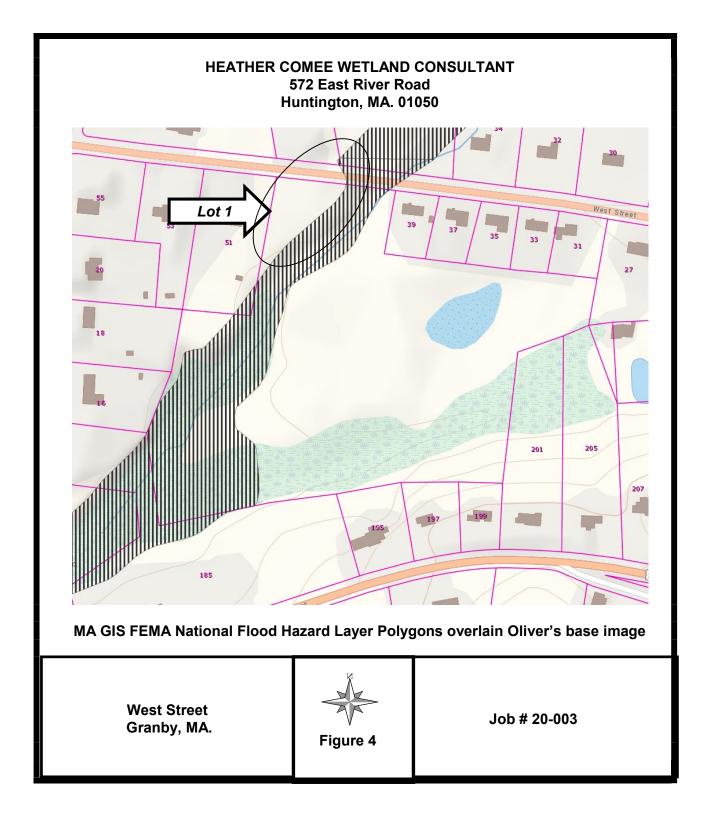
- 1. No additional alteration shall occur.
- 2. All approved activity shall employ at a minimum the erosions control precautions shown on the plans. The on-site contractor shall employ additional erosion controls as required to prevent sedimentation.
- 3. The on-site supervisor shall be authorized to request additional erosion control measures as he or she deems necessary to ensure the protection of all identified resource areas.

FIGURES









APPENDIX A

WETLAND FEE TRANSMITTAL FORMS



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
kev.

A. Applicant Information

ər, b	1.	Location of Project:			
ur		3-D-1 West Street (Lot 1)	Granby	
		a. Street Address		b. City/Town	
		1026		\$237.50	
		c. Check number		d. Fee amount	
	2.	Applicant Mailing A	ddress:		
		William		Chapdelaine	
		a. First Name		b. Last Name	
		c. Organization			
		404 River Road			
		d. Mailing Address			
		South Hadley		МА	01075
		e. City/Town		f. State	g. Zip Code
				bjchapde@comcast.net	
		h. Phone Number	i. Fax Number	j. Email Address	
	3.	Property Owner (if o	different):		
		a. First Name		b. Last Name	
		c. Organization			
		d. Mailing Address			
		e. City/Town		f. State	g. Zip Code

n. Phone Number	I. Fax Number	j. Email Address	
h. Phone Number	i. Fax Number	i Emeil Address	
e. City/Town		f. State	g. Zip Code

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

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.



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
single-family home (category 2a)	<u>1</u>	<u>\$500.00</u>	\$500.00
		otal Project Fee: Fee Payments:	\$500.00
		ee rayments.	\$500.00
	Total	Project Fee:	a. Total Fee from Step 5
	State share	of filing Fee:	\$237.50 b. 1/2 Total Fee less \$ 12.50
	City/Town share	e of filling Fee:	\$262.50 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.)

HEATHER M COMEE DBA HEATHER COMEE WETLAND CONSLINT S72 E RIVER RD HUNTINGTON, MA 01050 PAY TOTHE ORDER OF TOWN of Granby MUSTIFIELD BANK WESTFIELD BANK WESTFIELD BANK WESTFIELD BANK	1025 262.50 50/100 DATE 16 Jan 2021 \$ 262.50 Dollars Dollars Dollars
······································	1026
HEATHER M COMEE DBA HEATHER COMEE WETLAND CONSLITNT 572 E RIVER RD HUNTINGTON, MA 01050 PAY TO THE ORDER OF COMMONWEALTH of MA Two hundred thirty-seven and	DATE 6 Jan 2021 53-7160/2118 50/100 50/100 DOLLARS
FOR Westfield BANK Westfield, MA 01086 FOR West St LOT - NOI	Chatherth Come

APPENDIX B

ABUTTERS LIST AND NOTIFICATION

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

<u>Heather Comee Wetland Consultant</u>, hereby certifies under the pains and penalties of perjury that on <u>January 19, 2021</u> notification to abutters was given in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following manner:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by <u>Mr. William Chapdelaine</u>, with the <u>Granby</u> Conservation Commission on <u>January 19, 2021</u> for the property located at <u>West Street (assessors ID 3-D-1)</u>

The form of the notification is attached to this Affidavit of Service.

Name: Heather M. Comee

19 Jan 2021

 Date:

 For HEATHER COMEE WETLAND CONSULTANT

Notification to Abutters Under the Massachusetts Wetlands Protection Act

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following.

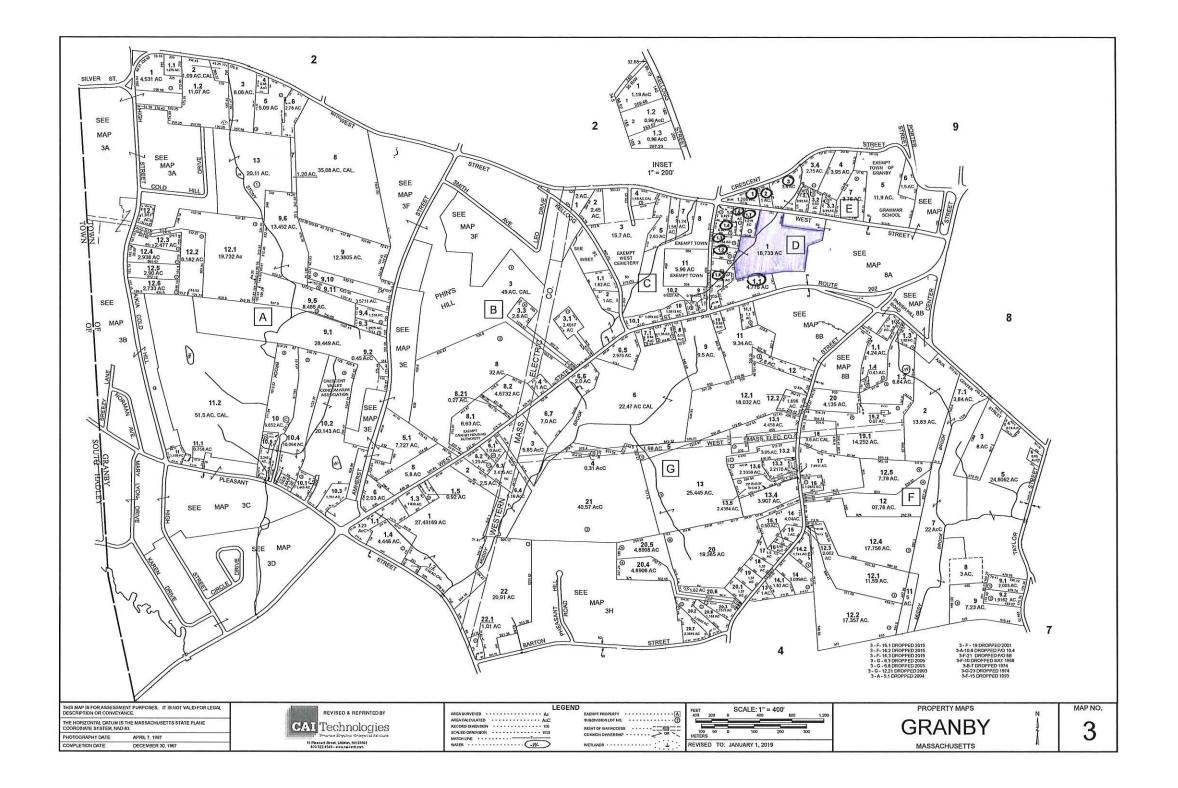
- A. Two (2) Notice of Intents (NOI) have been filed with the MA Department of Environmental Protection (DEP) and the Granby Conservation Commission: Each for construction of a single family home and associated driveway, well, septic system, utilities, and lawn area within the 100-foot buffer zone of a Bordering Vegetated Wetland.
- B. The address of the lot where the resource areas were delineated: (assessors ID 3-D-1) West Street
- C. The name of the applicant is: Mr. William Chapdelaine
- D. Copies of the NOI's may be examined at: The Senior Center Building (10-B West State Street 2nd Floor, Granby, MA) in the Conservation Commission Office, by appointment. For more information call: (413) 467-7177
- E. Copies of the NOI's may be obtained for a fee from: the applicant's representative by calling (413) 623-7100 Mon Fri between the hours of 8:00 4:30.
- F. Information regarding the date, time, and place of the public hearing may be obtained by calling (413) 467-7177 during Conservation Commission office hours listed above or on the town's website.

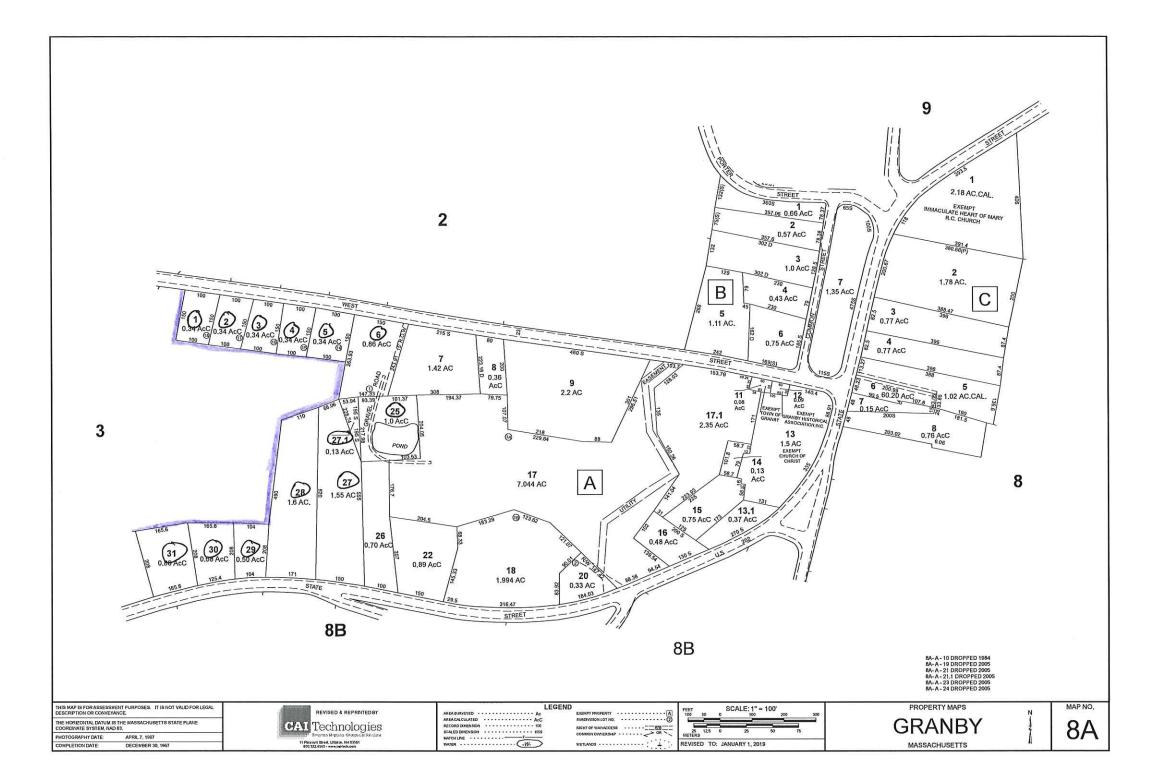
NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days prior in <u>a local newspaper</u>.

NOTE: Notice of the public meeting, including its date, time, and place, may be posted in the Town Hall not less than forty-eight (48) hours in advance of the meeting date.

NOTE: You also may contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call:

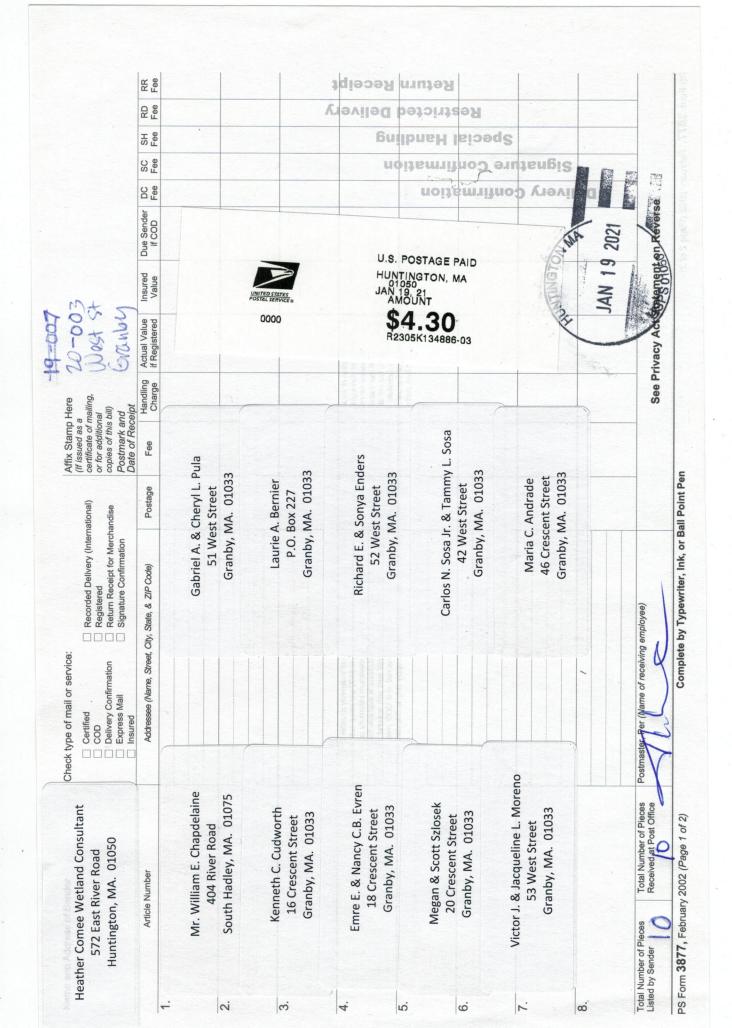
Central Region: (508) 792-7650	Northeast Region: (617) 935-2160
Southeast Region: (508) 946-2800	Western Region: (413) 784-1100

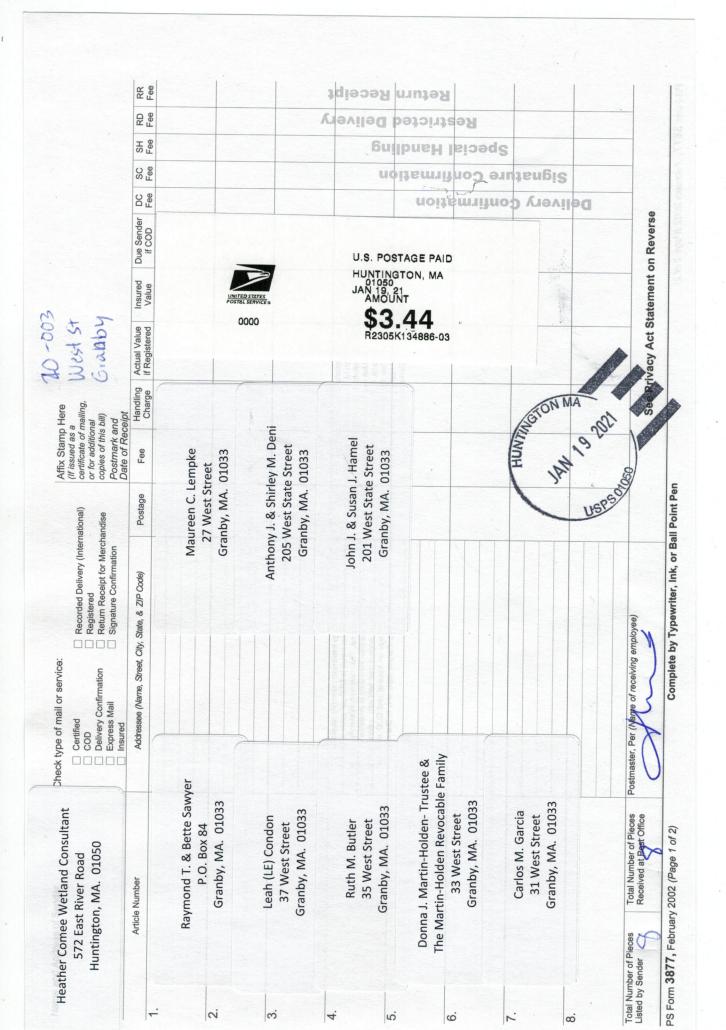




Мар	Bloc	k Lot Unit	Owner~s Name	Co_Owner~s Name	Address	City	ST Zip	Parcel Location
3	D	1- 1	CHAPDELAINE WILLIAM E		404 RIVER RD	SO HADLEY	MA 01075	185 WEST STATE ST
3	D	1-2	CUDWORTH KENNETH C		16 CRESCENT ST	GRANBY	MA 01033	16 CRESCENT ST
3	D	1- 3	EVREN E EMRE &	EVREN NANCY C B	18 CRESCENT ST	GRANBY	MA 01033	18 CRESCENT ST
3	D	1- 4	SZLOSEK MEGAN &	SZLOSEK SCOTT	20 CRESCENT ST	GRANBY	MA 01033	20 CRESCENT ST
3	D	1- 6	MORENO VICTOR J &	MORENO JACQUELINE L	53 WEST ST	GRANBY	MA 01033	53 WEST ST
3	D	1- 7	PULA GABRIEL A &	PULA CHERYL L	51 WEST ST	GRANBY	MA 01033	51 WEST ST
3	D	1- 8	BERNIER LAURIE A		PO BOX 227	GRANBY	MA 01033	181 WEST STATE ST
3	E	1	ENDERS RICHARD E &	ENDERS SONYA	52 WEST ST	GRANBY	MA 01033	52 WEST ST
3	E	2	SOSA CARLOS N JR &	SOSA TAMMY L	42 WEST ST	GRANBY	MA 01033	42 WEST ST
3	E	3	ANDRADE MARIA C		46 CRESCENT ST	GRANBY	MA 01033	44 CRESCENT ST
8 A	A	1	SAWYER RAYMOND T &	SAWYER BETTE	PO BOX 84	GRANBY	MA 01033	39 WEST ST
8 A	A	2	CONDON LEAH(LE)		37 WEST ST	GRANBY	MA 01033	37 WEST ST
8 A	A	3	BUTLER RUTH M		35 WEST ST	GRANBY	MA 01033	35 WEST ST
8 A	A	4	MARTIN-HOLDEN DONNA J - TRUSTEE	THE MARTIN-HOLDEN REVOCABLE FAMILY	33 WEST ST	GRANBY	MA 01033	33 WEST ST
8 A	A	5	GARCIA CARLOS M		31 WEST ST	GRANBY	MA 01033	31 WEST ST
8 A	A	6	LEMPKE MAUREEN C		27 WEST ST	GRANBY	MA 01033	27 WEST ST
8 A	A	25	LEMPKE MAUREEN C		27 WEST ST	GRANBY	MA 01033	WEST ST
8 A	A	27	DENI ANTHONY J &	DENI SHIRLEY M	205 WEST STATE ST	GRANBY	MA 01033	205 WEST STATE ST
8 A	A	28	HAMEL JOHN J &	HAMEL SUSAN J	201 WEST STATE ST	GRANBY	MA 01033	201 WEST STATE ST
8 A	A	29	LEMELIN DENISE K		199 WEST STATE ST	GRANBY	MA 01033	199 WEST STATE ST
8 A	A	30	ALEXANDER REBECCA K		197 WEST STATE ST	GRANBY	MA 01033	197 WEST STATE ST
8 A	A	31	KWISNEK LOUIS F JR &	KWISNEK KRISTEN L	195 WEST STATE ST	GRANBY	MA 01033	195 WEST STATE ST
8 A	A	27- 1	LEMPKE MAUREEN C		27 WEST ST	GRANBY	MA 01033	WEST ST

4/29/2020







APPENDIX C

SOIL BORINGS

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe)				
West Street, Granby, MA.	Site inundated:				
March 18, 2020Hydric Soil InterpretationSB1 below W5 ½	X Depth to free water in observation hole: 28"				
	Depth to soil saturation in observation hole:				
1. Soil Survey	Water marks:				
Is there a published soil survey for this site? Yes X No Title/date: MA GIS	Drift lines:				
Map number:	Sediment deposits:				
Soil type mapped:Scarboro muckHydric soil inclusions:Yes	Drainage patterns in BVW:				
	Oxidized rhizospheres:				
Are field observations consistent with soil survey? Yes X No Remarks:	Water-stained leaves:				
2. Soil Description	Recorded data (stream, lake, or tidal gauge; aerial photo; other):				
Horizon Depth Matrix Color Texture Redox					
O $0 - 20$ " $10yr 2/1$ muck $1\% 10yr 2/2$ Oe $20 - 28$ " $10yr 2/2$ hemic	Other:				
	Vegetation and Hydrology Conclusion				
	Yes No				
Remarks:	Number of wetland indicator plants \geq numberXof non-wetland indicator plants				
Vegetation observed within the area consisted primarily of skunk cabbage, burning bush, Japanese barberry, red maple, and unk. shrub.	Wetland hydrology present: hydric soil present				
This soil boring meets the A1 hydric soil profile of NEIWPCC's 2019 Field Indicators for Identifying Hydric Soils in New England.	other indicators of hydrology present X				
	Sample location is in a BVW				
Other	Submit this form with the Request for Determination of Applicability or Notice of Intent.				
Conclusion: Is soil hydric? Yes X No	Submit this joint with the Request for Determination of Appreciating of Police of Intent.				

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe)
West Street, Granby, MA. March 18, 2020	Site inundated:
Hydric Soil Interpretation SB2 above W5 ½	Depth to free water in observation hole:
	Depth to soil saturation in observation hole:
3. Soil Survey	Water marks:
Is there a published soil survey for this site? Yes X No Title/date: MA GIS	Drift lines:
Map number:	Sediment deposits:
Soil type mapped:Merrimac sandy loamHydric soil inclusions:No	Drainage patterns in BVW:
	Oxidized rhizospheres:
Are field observations consistent with soil survey? Yes No X Remarks:	Water-stained leaves:
4. Soil DescriptionHorizonDepthMatrix ColorTextureRedoxA $0-23$ " $10yr 2/2$ sl $19-21$ " 1% 10yr 3/3 $21-23$ " 5% 10yr 3/4	Recorded data (stream, lake, or tidal gauge; aerial photo; other): Other:
sl sandy loam	Vegetation and Hydrology Conclusion Yes No
Remarks:	Number of wetland indicator plants \geq numberXof non-wetland indicator plants
Vegetation observed within the area consisted primarily of slippery elm, silky dogwood, bittersweet, burning bush, Japanese barberry, and black cherry.	Wetland hydrology present: hydric soil present
This soil boring does not meet any of the hydric soil profiles of NEIWPCC's 2019 Field Indicators for Identifying Hydric Soils in New England.	other indicators of hydrology present X Sample location is in a BVW X
Other	Submit this form with the Request for Determination of Applicability or Notice of Intent.
Conclusion: Is soil hydric? Yes No X	

Other Indicators of Hvdrology: (check all that apply and describe)

____ _____

_____ _____ _____ **APPENDIX D**

SITE PHOTOGRAPHS

Site Photos – West St, Granby, MA



SB1 - Hydric



Northeasterly view of stream



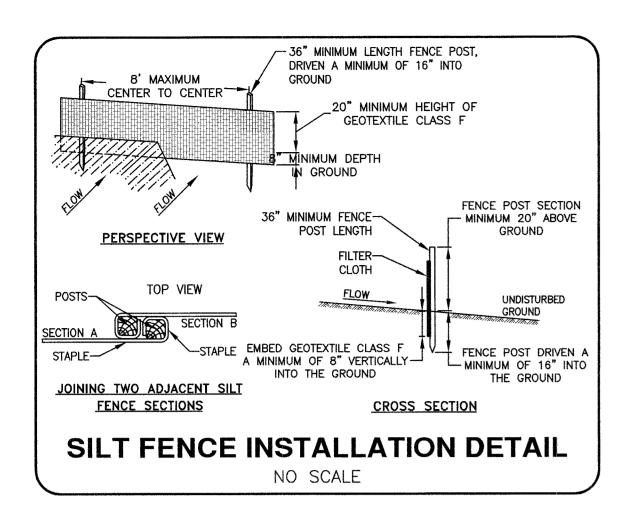
SB2 – Non-hydric



Northwesterly view of buildable area from wetland

APPENDIX E

SITE PLANS



EROSION & SEDIMENT CONTROL NOTES

MANAGEMENT STRATEGIES

- 1. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE.
- 2. CONSTRUCTION SEQUENCE SHALL BE PHASED TO AVOID LEAVING LARGE AREAS EXPOSED FOR LONG PERIODS OF TIME.
- 3. TEMPORARY SEED AND MULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING. SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED CONTINUOUSLY, ESPECIALLY
- FOLLOWING STORM EVENTS TO LOCATE FAILING CONTROL MEASURES AND CONDUCT ROUTINE MAINTENANCE OPERATIONS.
- 5. THE CONSTRUCTION SUPERINTENDENT SHALL INFORM ALL ON-SITE WORKERS OF THE SEDIMENTATION CONTROL PROGRAM.

VEGETATIVE CONTROL PRACTICES

- 1. TOPSOIL STOCKPILING: TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE DISTURBED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE APPROVED BY THE OWNER AND ENGINEER AND BE WITHIN LIMIT OF WORK
- TEMPORARY SEEDING: THE TEMPORARY SEDIMENT BASIN, TOPSOIL STOCKPILE AND ROUGH GRADED AREAS SHALL BE SEEDED WITH WINTER RYE AT A RATE OF 30 LBS. PER ACRE ANY SOILS THAT ARE LEFT EXPOSED AND UNDISTURBED FOR MORE THAN 30 DAYS SHALL BE TEMPORARILY SEEDED.
- A. SITE PREPARATION
- COMPLETE ALL ROUGH GRADING ACTIVITIES • REMOVE ALL ROCKS AND DEBRIS LARGER THAN 3" IN DIAMETER FROM AREAS TO BE
- TEMPORARILY SEEDED. EVENLY APPLY LIME TO ACHIEVE A PH VALUE OF 6.0. • EVENLY APPLY 14 LBS. OF 5-10-10 ANALYSIS FERTILIZER TO A DEPTH OF 4" USING SUITABLE
- EQUIPMENT.
- SEEDBED IS TO BE LEFT IN FIRM AND SMOOTH CONDITION. • THE LAST TILLAGE OPERATION SHALL BE PERFORMED ACROSS THE SLOPE.
- B. ESTABLISHMENT
- EVENLY APPLY SEED IN ACCORDANCE WITH THE SPECIES AND RATE INDICATED ABOVE BY MEANS OF BROADCASTING OR HYDROSEEDING.
- UNLESS HYDROSEEDED, COVER SEED WITH 1/4" TO 1/2" OF TOPSOIL
- APPLY MULCH OR EROSION CONTROL BLANKET IMMEDIATELY FOLLOWING SEEDING.
- VERIFY SEEDING DATES WITH ENGINEER/LANDSCAPE ARCHITECT. IF ENGINEER/LANDSCAPE ARCHITECT DETERMINES THAT SEED CANNOT BE APPLIED DUE TO CLIMATE, TOPSOIL SHALL NOT BE SPREAD AND MULCHING SHALL BE APPLIED TO THE EXPOSED SURFACE TO STABILIZE SOILS UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- PERMANENT SEEDING SHALL BE APPLIED BETWEEN APRIL 15 AND SEPTEMBER 30. TEMPORARY SEEDING SHALL BE APPLIED TO ALL DISTURBED AREAS OUTSIDE THIS TIME FRAME, UPON APPROVAL BY THE ENGINEER/LANDSCAPE ARCHITECT.

C. MAINTENANCE

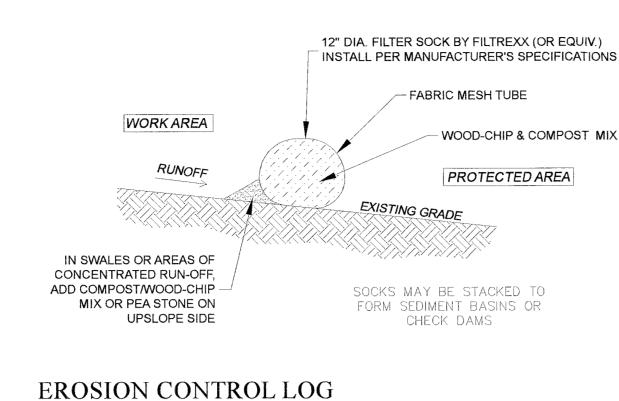
 ALL SEEDED/MULCHED AREAS SHALL BE INSPECTED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.

NONSTRUCTURAL CONTROL PRACTICES

- 1. SCARIFICATION: EXPOSED SLOPES EXCEEDING 4:1 SHALL BE SCARIFIED AT RIGHT ANGLES TO THE SLOPE. PROVIDE PERIODIC UPGRADING OF SERRATIONS DURING EXPOSED PERIOD UNTIL VEGETATION IS ESTABLISHED. PROVIDE VEGETATIVE COVER AS SOON AS POSSIBLE.
- STRAW MULCH: STRAW MULCH SHALL BE APPLIED IN CONJUNCTION WITH TEMPORARY/PERMANENT SEEDING AND TO GRADED AREAS WHICH REMAIN EXPOSED OUTSIDE OF RECOMMENDED SEEDING DATES. MULCH SHALL BE APPLIED AT 90 LBS. PER 1000 S.F. CONTRACTOR SHALL PERIODICALLY INSPECT AND REAPPLY AS NECESSARY, PARTICULARLY FOLLOWING SIGNIFICANT STORM EVENTS.
- 3. TOPSOIL: DISTURBED AREAS SHALL BE TOPSOILED PRIOR TO SEED APPLICATION. APPLICATION STANDARDS: • REMOVE ALL ROCKS AND DEBRIS OVER 1"-1 1/2" IN DIAMETER.
 - SCARIFY SURFACE PRIOR TO SEED APPLICATION.
 - APPLY 6" DEPTH OF TOPSOIL.
- 4. SILT FENCE: SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE, AT CULVERT OUTLET LOCATIONS, OR AS INDICATED ON THE DRAWINGS. SILT FENCE SHALL BE INSPECTED AND REPAIRED ROUTINELY, ESPECIALLY FOLLOWING STORM EVENTS UNTIL THE SITE HAS BEEN STABILIZED (COVER > 70%) BY VEGETATION.

STRUCTURAL CONTROL PRACTICES

- RIP-RAP OUTLET PROTECTION: RIP-RAP SHALL BE PROVIDED AT ALL PIPE OUTLETS. MATERIAL SHALL BE HARD, DURABLE FIELD OR QUARRY STONE WHICH IS ANGULAR AND RESISTS BREAKING DOWN WHEN EXPOSED TO WATER OR WEATHERING.
- 2. CONSTRUCTION ENTRANCE: CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS.
- 3. DUST CONTROL: A WATER TRUCK SHOULD BE LOCATED ON-SITE FOR DUST CONTROL WHILE WORK IS PROCEEDING. MAINTENANCE SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT. THE FOLLOWING ITEMS SHALL BE CHECKED IN PARTICULAR:
 - A. RIP-RAP OUTLET PROTECTION SHALL BE CHECKED REGULARLY FOR SEDIMENT ACCUMULATION, IF SIGNIFICANT AMOUNTS OF SEDIMENT ACCUMULATE, RIP-RAP SHALL BE REMOVED AND REPLACED.
 - B. SILT FENCING SHALL BE INSPECTED REGULARLY FOR UNDERMINING AND DETERIORATION. REMOVE SEDIMENT FROM BEHIND FENCE WHEN IT BECOMES 6 INCHES DEEP. C. SEEDED/MULCHED AREAS SHALL BE INSPECTED REGULARLY TO SEE THAT A GOOD STAND
 - IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.



SILT FENCE INSTALLATION NOTES

NO SCALE

- 1. THIS SEDIMENT BARRIER UTILIZES MIRAFI ENVIROFENCE (100X) OR EQUAL. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.
- 2. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE). IDEALLY THE FILTER FENCE SHALL BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPE.
- WHEN JOINTS ARE NECESSARY, FILTER FABRICS SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT STAKES WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATION.
- STAKES SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). IN APPLICATIONS WHERE HEAVY FLOWS ARE EXPECTED SUCH AS IN-STREAM INSTALLATIONS STAKE SPACING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND/OR THE ENGINEERS RECOMMENDATIONS.
- 5. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF STAKES AND UPSLOPE FROM THE BARRIER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE PRE ASSEMBLED SILT FENCE SYSTEM SHALL BE UNROLLED, POSITION THE STAKES ON THE DOWNHILL SIDE OF THE TRENCH AND HAMMER THE STAKES AT LEAST 12 INCHES INTO THE GROUND.
- 7. THE BOTTOM SIX (6) INCHES OF THE FABRIC SHALL BE LAID INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUNOFF.
- 8. BACKFILL THE TRENCH OVER THE FILTER FABRIC AND COMPACT SUFFICIENTLY TO PREVENT THE RUNOFF FROM ERODING THE BACKFILL
- 9. THE FABRIC SHALL NOT EXTEND MORE THAT 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES OR SUPPORTS OTHER THAN THE STANDARD STAKES.
- 10. INSTALLED SILT FENCE BARRIERS SHALL BE MAINTAINED ON A REGULAR SCHEDULE WHICH MAY BE PRESCRIBED BY THE LOCAL, STATE OF FEDERAL REGULATORY AUTHORITY; BUT, AT MINIMUM SHALL BE CHECKED WEEKLY AS WELL AS AFTER EACH STORM EVENT. MAINTENANCE SHALL CONSIST OF AN INSPECTION OF THE ENTIRE LENGTH OF THE BARRIER TO DETERMINE IF IT IS FUNCTIONING AS INTENDED. ALL BREAKS, DETACHED FABRIC, SLUMPED FABRIC, CLOGGED FABRIC, AND UNDERMINED AREAS SHALL BE FIXED THE DAY THAT THEY ARE DISCOVERED.
- 11. WHEN A MAXIMUM OF SIX (6) INCHES OF SEDIMENT HAS ACCUMULATED BEHIND THE SILT FENCE THIS SEDIMENT SHALL BE REMOVED AND THE FENCE SHALL BE INSPECTED FOR TEARS, CLOGGING OF BREAKS. ALL DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY EITHER BY REPAIR OF REPLACEMENT OF THE SILT FENCE BARRIER AND/OR STAKES AS NEEDED.
- 12. SILT FENCE BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT



12" DIA. FILTER SOCK BY FILTREXX (OR EQUIV.)

FABRIC MESH TUBE

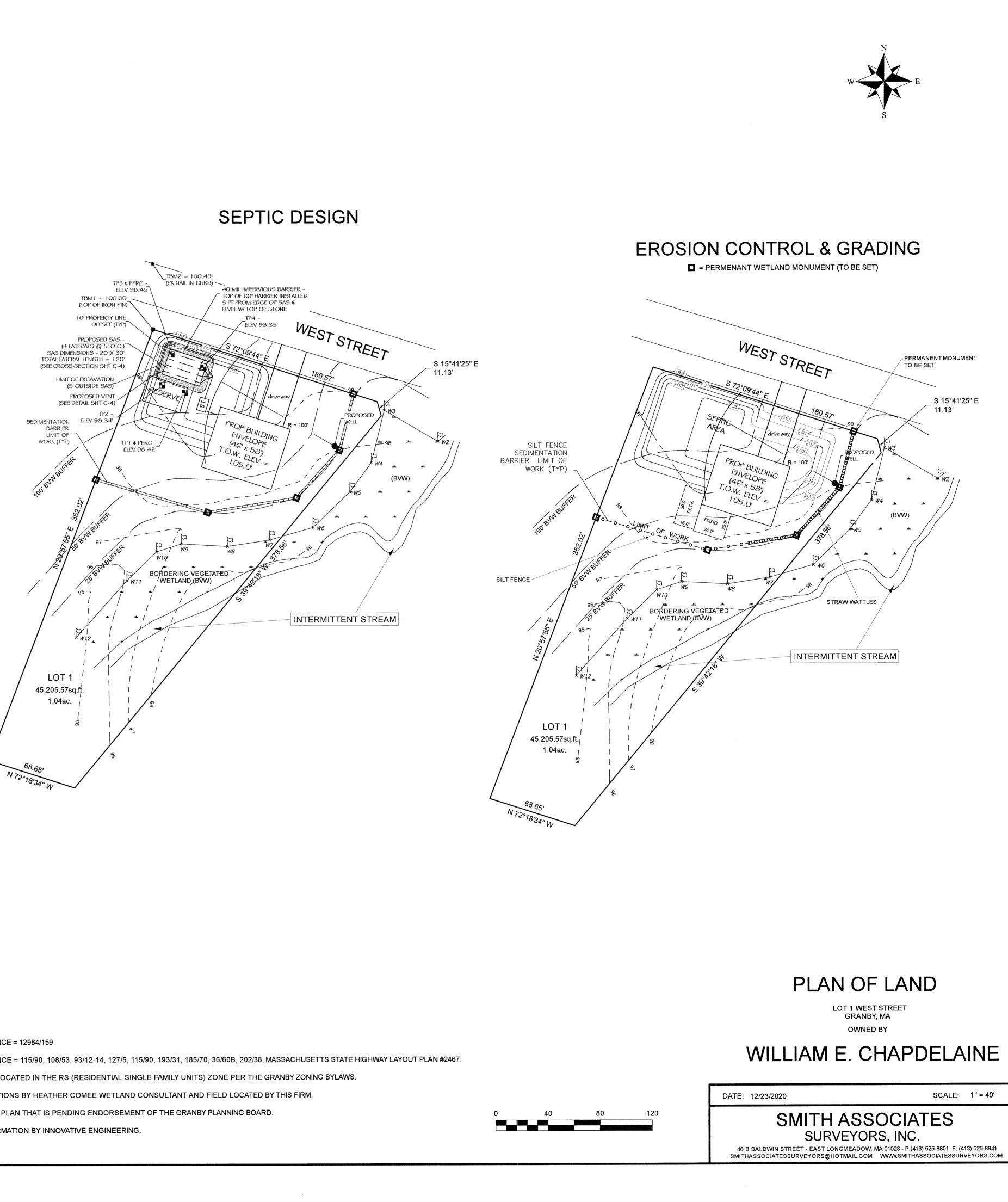
WOOD-CHIP & COMPOST MIX

PROTECTED AREA



NOT BEFORE THE UPSLOPE AREA HAS BEEN CLEANED OF SILT AND PERMANENTLY STABILIZED.





NOTES:

1) LOCUS DEED REFERENCE = 12984/159

2) LOCUS PLAN REFERENCE = 115/90, 108/53, 93/12-14, 127/5, 115/90, 193/31, 185/70, 36/60B, 202/38, MASSACHUSETTS STATE HIGHWAY LAYOUT PLAN #2467.

3) LOCUS PROPERTY IS LOCATED IN THE RS (RESIDENTIAL-SINGLE FAMILY UNITS) ZONE PER THE GRANBY ZONING BYLAWS.

4) WETLAND FLAG LOCATIONS BY HEATHER COMEE WETLAND CONSULTANT AND FIELD LOCATED BY THIS FIRM.

5) LOT 1 IS SHOWN ON A PLAN THAT IS PENDING ENDORSEMENT OF THE GRANBY PLANNING BOARD

6) SEPTIC DESIGN INFORMATION BY INNOVATIVE ENGINEERING.