



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

LEICESTER

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):

FELIX STREET LOT A-19

a. Street Address

LEICESTER

b. City/Town

01524

c. Zip Code

Latitude and Longitude:

42° 18' 38" N

d. Latitude

71° 29' 21" W

e. Longitude

19

f. Assessors Map/Plat Number

A 19

g. Parcel /Lot Number

2. Applicant:

STEVEN

a. First Name

BRIGHAM

b. Last Name

S W BRIGHAM CONSTRUCTION CO. INC.

c. Organization

6 VALLEY FORGE CIRCLE

d. Street Address

WEST BOYLSTON

e. City/Town

MA

f. State

01583

g. Zip Code

508-579-7227

h. Phone Number

508-839-5914

i. Fax Number

CDX204211@YAHOO.COM

j. Email Address

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

SAME

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

ROBERT G. MURPHY

a. First Name

b. Last Name

ROBERT G. MURPHY & ASSOCIATES, INC., ENVIRONMENTAL CONSULTANTS

c. Company

214 WORCESTER STREET

d. Street Address

NORTH GRAFTON

e. City/Town

MA

f. State

01536

g. Zip Code

508-839-0310

h. Phone Number

508-839-5914

i. Fax Number

RGMENVIRON@VERIZON.NET

j. Email address

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

500.00

a. Total Fee Paid

237.50

b. State Fee Paid

262.50

c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

CONSTRUCT A SINGLE FAMILY HOUSE, PAVED DRIVEWAY, SEWER AND ASSOCIATED LANDSCAPING WITHIN THE 100 FOOT BUFFER ZONE. THE DRIVEWAY WILL REQUIRE CROSSING A ROADSIDE SWALE AND FILLING 120 SF OF BVW. REFER TO THE PLAN.

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

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

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

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

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

WORCESTER

a. County

59665

c. Book

b. Certificate # (if registered land)

71

d. Page Number

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

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

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



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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	120 1. square feet	500 2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	1. square feet (FIRM ZONE A) 950 3. cubic feet of flood storage lost	2. square feet 1,100 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced

f. ☐ Riverfront Area

1. Name of Waterway (if available) - **specify coastal or inland**

2. Width of Riverfront Area (check one):

☐ 25 ft. - Designated Densely Developed Areas only

☐ 100 ft. - New agricultural projects only

☐ 200 ft. - All other projects

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

4. Proposed alteration of the Riverfront Area:

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

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

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

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

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



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

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet _____ 2. cubic yards dredged _____	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet _____	2. cubic yards beach nourishment _____
e. <input type="checkbox"/> Coastal Dunes	1. square feet _____	2. cubic yards dune nourishment _____
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet _____	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet _____	
h. <input type="checkbox"/> Salt Marshes	1. square feet _____	2. sq ft restoration, rehab., creation _____
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet _____	
	2. cubic yards dredged _____	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet _____	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged _____	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet _____	
4. <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.	
	a. square feet of BVW _____	b. square feet of Salt Marsh _____
5. <input type="checkbox"/> Project Involves Stream Crossings		
	a. number of new stream crossings _____	b. number of replacement stream crossings _____



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C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

- a. ☐ Yes ☒ No **If yes, include proof of mailing or hand delivery of NOI to:**

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

1-28-2019

b. Date of map

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

- c. Submit Supplemental Information for Endangered Species Review*

1. ☐ Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

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

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

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

(b) ☐ Photographs representative of the site

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

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



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

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

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

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

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

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

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

North Shore - Hull to New Hampshire border:

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

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



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

Online Users:

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

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

D. Additional Information

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

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

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

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



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D. Additional Information (cont'd)

3. ☒ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. ☒ List the titles and dates for all plans and other materials submitted with this NOI.

SITE PLAN - STEVEN BRIGHAM, LOT A-19 FELIX STREET

a. Plan Title

ROBERT G. MURPHY

NORMAN G. HILL, PE

b. Prepared By

c. Signed and Stamped by

1-14-2019

1" = 20'

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:

5197

2. Municipal Check Number

2/1/2019

3. Check date

5198

4. State Check Number

2/1/2019

5. Check date

ROBERT

MURPHY

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. Signature of Applicant	2/1/2019
	2. Date
3. Signature of Property Owner (if different)	4. Date
	2/1/2019
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.



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A. Applicant Information

1. Location of Project:

LOT A-19 FELIX STREET

a. Street Address

5197

c. Check number

LEICESTER

b. City/Town

237.50

d. Fee amount

2. Applicant Mailing Address:

STEVEN

a. First Name

BRIGHAM

b. Last Name

S W BRIGHAM CONSTRUCTION CO. INC.

c. Organization

6 VALLEY FORGE CIRCLE

d. Mailing Address

WEST BOYLSTON

e. City/Town

MA

f. State

01583

g. Zip Code

508-579-7227

h. Phone Number

508-839-5914

i. Fax Number

CDX204211@YAHOO.COM

j. Email Address

3. Property Owner (if different):

SAME

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

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).



Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
SINGLE FAMILY HOUSE	1	500.00	500.00
Step 5/Total Project Fee:			500.00

Total Project Fee:	500.00
	a. Total Fee from Step 5
State share of filing Fee:	237.50
	b. 1/2 Total Fee less \$12.50
City/Town share of filling Fee:	262.50
	c. 1/2 Total Fee plus \$12.50

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.

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.

noifeetf.doc • Wetland Fee Transmittal Form • rev. 10/11



ROBERT G. MURPHY & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

214 Worcester Street
No. Grafton, Massachusetts 01536

508-839-0310

rgmenviron@verizon.net

PROJECT DESCRIPTION
LOT 9A FELIX STREET
LEICESTER, MA

The applicant, Steven Brigham proposes to build a Single Family Residence, Driveway and associated Landscaping on lot 9A, Felix Street as shown on the submitted site plan. The project is located along the eastern slope of the glaciated uplands west of Sargent Pond. The sloped upland portion of the property consists of Woodbridge Fine Sandy Loan with a large number of boulders at the surface. The Woodbridge soil is moderately well drained with a deep water table. The lower bordering vegetated wetland (BVW) along the eastern slope is a level area with deep deposits of Freetown Muck. An intermittent stream passes through this resource area southward toward Route 9 and Town Meadow Brook. The proposed driveway is to be located within the existing excavated roadside swale adjacent to Felix Street. This previously excavated channel is located within Zone A of the Flood Plain (FIRM) . The elevation of the flood plain follows the blue line as shown on the FIRM map. This Project Description applies to the proposed construction, details and specifications as shown on the referenced site plan.

In order to access the upland portion of the property, the proposed driveway is to be located along the northern property line in an area where the drainage swale is narrowest. This allows proper access with the least amount of impacts to the BVW and the flood plain. The existing culvert is to remain within the open channel with a 10' separation gap to perform as an energy dissipater. The driveway will be constructed with stone headwalls and a new 12" HDPE culvert. As shown on the site plan, the total amount of wetlands to be filled will be 120 square feet of BVW and 960 cubic feet of flood plain. 1,100 cubic feet of flood plain compensatory storage is to be provided through the regrading of the land adjacent to the wetlands. This will also provide additional wetlands replication if required. The driveway is to be graded in a manner that will direct the surface drainage toward the shallow vegetated slopes. A temporary construction entrance is to limit construction related erosion from entering into the Felix Street Right of Way.

The remainder of construction is to be completed within the 100' buffer zone as shown. This will include the Single Family Residence, well, driveway, retaining walls and landscaping. A trench drain is to be constructed above the exposed slopes to redirect the excessive drainage emanating from the Leicester Country Club. This stone lined trench has been designed to reduce the existing impacts to the lower wetlands caused by the lack of proper stormwater management. This action, along with the proposed methods of slope stabilization will actually improve the protection of the wetland resource areas along the lower slopes. Mr. Brigham plans on working with the operators of the Leicester Country Club to insure that no additional volume of stormwater runoff is directed toward this property.

The following list of construction sequence notes are to be included with the anticipated Order of Conditions. A copy of these guidelines is to be readily available along with the sites plans at all times during the construction phases of this project.

CONSTRUCTION SEQUENCE – EROSION & SEDIMENTATION CONTROL

The following is a list of the proposed construction sequence and erosion controls for the development of the proposed single family residence at Lot 9A Felix Street, Leicester, MA.

1. The contractor and all sub-contractors are to be made aware of the Order of Conditions as issued by the Leicester Conservation Commission (LCC) and its regulations applicable to this project. A copy of this Permit is to be readily available on site at all times. The DEP file number is to be posted at the entrance to the site prior to commencement of construction.
2. Prior to the commencement of construction, the owner of the project is to conduct an onsite predevelopment meeting with all concerned parties. Present at this meeting shall be the owner and or their legal representatives, the project superintendent for the general contractor, the environmental consultant and sub-contractors responsible for the installation of the erosion and sedimentation controls. During this meeting, the limits of land clearing and perimeter of construction shall be clearly identified. The names and telephone numbers of these parties are to be supplied to the (LCC) and Department of Public Works in order to avoid time delays during emergency situations.
3. The driveway, grading and landscaped areas are to be constructed as a multiple phased project. For this reason, all of the erosion controls are to be in place and inspected prior to the commencement of construction. This includes the temporary construction entrance. Approved erosion controls are to be installed where shown on the site plans. The approved location of the erosion controls is to act as a limit of work and is to be maintained as such. The contractor is responsible for the daily maintenance of the erosion controls and to identify and correct all sources of erosion. Due to the possibility of high intensity rainfall during thunderstorms and hurricanes, a “proactive” approach to controlling erosion will be required during all of the construction phases.
4. All earth removal and clearing activities within the entire site are to be done with minimal amounts of scouring and removal of the existing topsoil to limit the potential for erosion. The staging areas for clearing activities are to be located well away from all wetland resource areas. Additional erosion controls may be required along the perimeter of the temporary staging areas. Construction materials are to be stockpiled well away from the roadway in a manner that will not impact the lower wetland resource areas.
5. In trenches where drainage runoff is encountered, special care is to be taken to avoid routing water through gullies toward the lower property. All utility trenches are to be filled on a daily basis. Under no circumstances are utility trenches to be left open for a period exceeding twenty-four hours. The contractor is to use proper judgment relative to construction practices during adverse weather conditions. No work is to be performed within 50 feet of the adjacent wetlands during periods of heavy rainfall. Staging areas for the fueling, maintenance and storage of construction equipment are to be located where they will not impact the wetland resource areas.
6. No construction equipment is allowed to operate within 20 feet of the wetland resource areas without written authorization from the Leicester Conservation Commission. All spillage of petroleum products is to be cleaned immediately and disposed of following DEP guidelines. All construction debris is to be stored in dumpster trailers and removed in a timely fashion.

7. In areas where the erosion control barriers have been damaged, they are to be repaired immediately. Extra straw wattles are to be stored on site for this purpose. All exposed slopes are to be stabilized as soon as possible. No slopes are to be left untreated for a period exceeding fifteen days. A heavy fiber "Hydroseed" mixture with a tackifier will limit the potential for erosion of fine sediments along graded slopes that are not yet completed. Special care is to be taken to limit drainage runoff from concentrating toward the paved driveway and channeling toward the Felix Street Right of Way.
8. Once the rough grading of the driveway and graded areas has been completed, the mobilization of various construction vehicles throughout the site will be possible. For this reason, the daily stabilization of the exposed cut and fill slopes should be a priority over all other construction activities from this point on. Vegetated areas should be planted and maintained in an immediate succession to the completion of underground utilities. Vegetated slopes greater than 3 to 1 are to be stabilized with a layer of organic matting to limit erosion and to quickly stabilize the vegetation. The installation of all underground utilities within the site will require a coordinated effort by the various subcontractors to assure the least amount of time that open trenches are exposed. In areas where exposed trenches may project outside of the stabilized slopes, it may be necessary to install temporary erosion control barriers to limit routing drainage toward the unstabilized soils.
9. During periods of heavy rainfall, there may be occurrences of erosion of the unstabilized slopes. Immediate attention to the maintenance of these eroded areas will further insure the successful stabilization of the down gradient slopes while limiting the impacts to the specific areas. Wood chips and stump grindings provide an excellent source for creating temporary check dams to control drainage runoff during high intensity storms. During the summer months it is crucial for the protection of all vegetated slopes that concentrated flows of runoff be directed away from recently stabilized areas. For this reason, the general contractor will be responsible to delegate authority to at least one individual who will be available at a moment's notice (7 days a week).
10. Periodic inspections of the entire construction site are to be performed by a competent representative who will insure the adherence to the regulations as set forth in the Wetlands protection Act and the Clean Water Act, as amended (33 USC 1251). An authorized agent of the Leicester Conservation Commission shall have the authority to conduct inspections of the jurisdictional areas and consult with the project engineer as necessary before, during and after the commencement of construction.
11. It is the responsibility of the owner to verify that all construction permits for this project are obtained and kept up to date. Once the project has been completed, the owner is to notify the Leicester Conservation Commission. An "As Built" plan and request for a Certificate of Compliance shall be provided to the Commission in a timely manner. The Certificate of Compliance is to be recorded at the South Worcester Registry of Deeds.

National Flood Hazard Layer FIRMette



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/25/2019 at 7:04:10 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

42°14'58.56"N

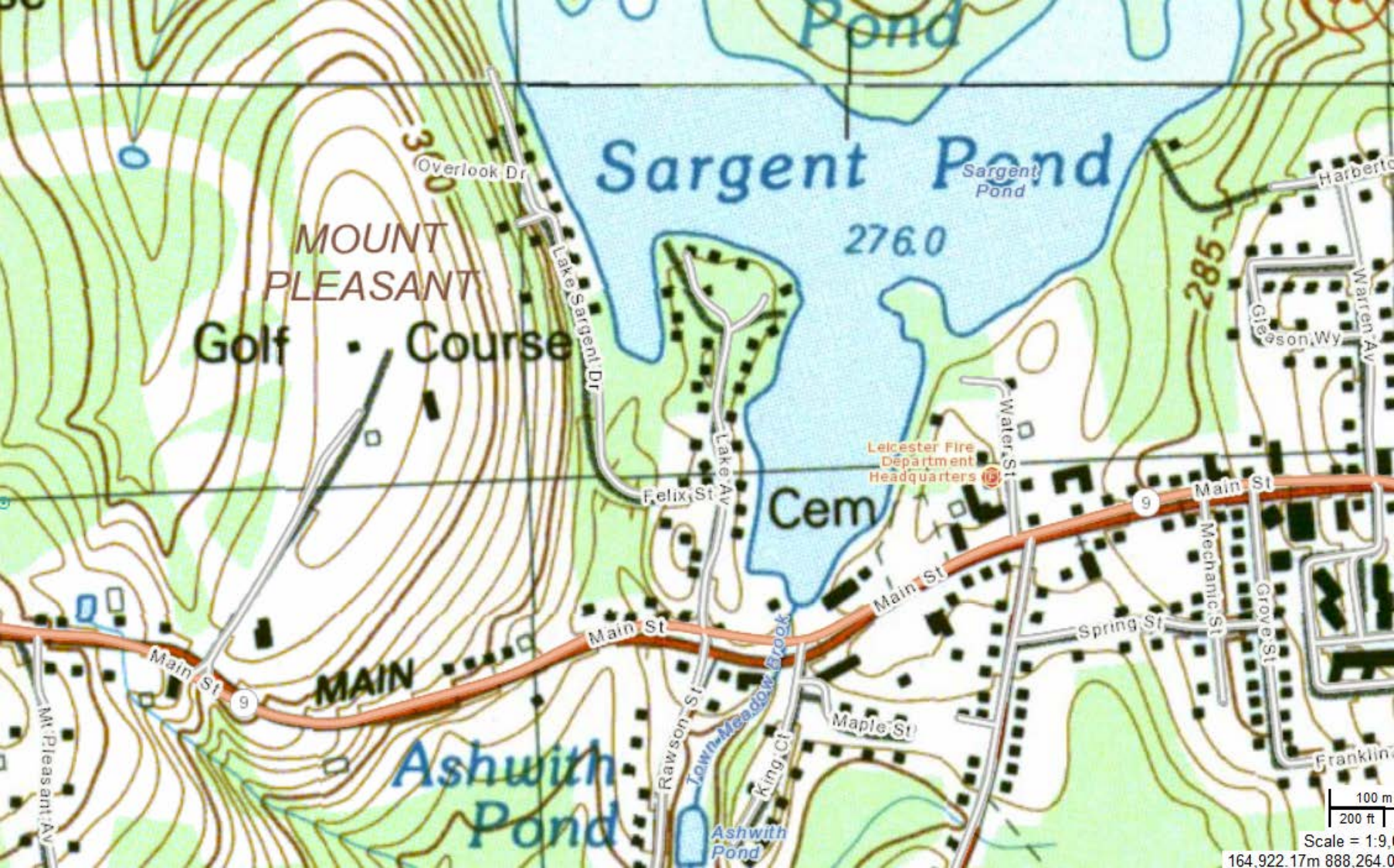


0 250 500 1,000 1,500 2,000 Feet 1:6,000

42°14'31.92"N

71°54'48.65"W

USGS The National Map: Orthoimagery. Data refreshed October, 2017.



Sargent Pond

MOUNT PLEASANT
Golf Course

276.0

285

Cem

Ashwith Pond

100 m
200 ft

Scale = 1:9

164.922.17m 888.264

CONSTRUCTION SEQUENCE & EROSION CONTROLS

LOT A-19 FELIX STREET, LEICESTER, MASSACHUSETTS

The following is a list of the proposed construction sequence and erosion controls for the Single Family Residence proposed by Steven Brigham Lot A-19, Leicester, Massachusetts DEP File #197-0

1. The contractor and all sub-contractors are to be made aware of the Order of Conditions as granted by the Leicester Conservation Commission and its regulations applicable to this project. A copy of this Order and the site plans are to be readily available on site at all times.

2. Staked Straw Wattles filled with bark mulch and silt fences are to be installed where shown on the site plans. The contractor and the owner are responsible for the proper maintenance of the filter socks and to identify and correct all sources of erosion.

3. Rough grading and stump removal are to be confined to areas as shown on the site plan for the development of the building, driveway and landscaped areas. Construction materials are to be stockpiled in an area outside the buffer zone where possible.

4. At no time should heavy equipment cross the erosion controls or operate within the bordering vegetated wetlands without authorization from the Leicester Conservation Commission. All fueling of construction equipment is to be done in the uplands outside of the buffer zone.

5. Temporary stabilization of disturbed areas is to limit erosion toward the wetland area to the west. All trenches are to be filled on a daily basis with special care taken to avoid routing rainfall through gullies toward the wetland areas.

6. The contractor is to use proper judgment relative to construction practices during adverse weather conditions or periods of high groundwater. No work is to be performed near the wetland areas during periods of heavy rainfall. Site inspections are required after heavy rainfall events.

7. Periodic maintenance of the erosion control structures is required in order to insure the proper protection of the resource areas.

8. All graded areas are to be loamed and seeded as soon as possible in order to insure the rapid stabilization of the erosion prone areas. A Conservation Seed Mixture of 20% Annual Ryegrass, 30% Creeping Red Fescue, 30% Chewings Fescue and 20% Perennial Ryegrass is recommended.

9. The staked erosion controls are to remain in place for at least one full growing season. Periodic inspections of these erosion control structures is to continue during this phase of vegetation stabilization. In areas where silt fences have been installed, they are to be removed once the slopes have been stabilized in order to promote migration of local amphibious species.

10. The contractor is to stabilize all slopes immediately upon completion of work within each phase to prevent erosion of soils into the resource areas or their associated buffer zones. During the grow-in period, temporary erosion controls (i.e. bark mulch or straw) is to be used to prevent erosion during periods of rainfall or snowmelt. If erosion of slopes should occur, immediate attention is to be given to stabilizing these areas to prevent impacts to resource areas and or their associated buffer zones.

11. Periodic inspections of the entire construction site are to be performed by a competent representative who will insure the adherence to the regulations as set forth in 310 CMR 10.00. The contractor is to allow unimpeded access to the jurisdictional areas by all members of the Leicester Conservation Commission in order that they may view the construction procedures. No unauthorized individuals are to enter the construction area without the expressed consent of the owner.

12. The Applicant is to notify the Leicester Conservation Commission once the jurisdictional work has been completed and the entire site has been properly stabilized. Upon approval of the work subject to the Order of Conditions, the applicant is to receive a Certificate of Compliance that is to be recorded at the Worcester Registry of Deeds.

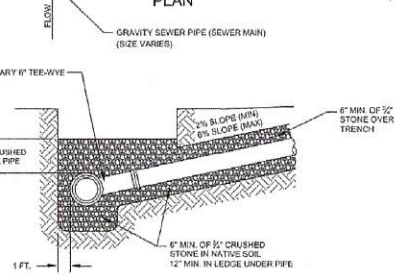
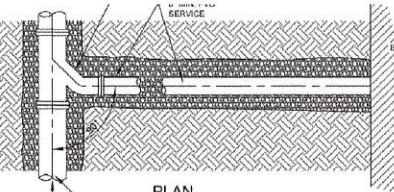
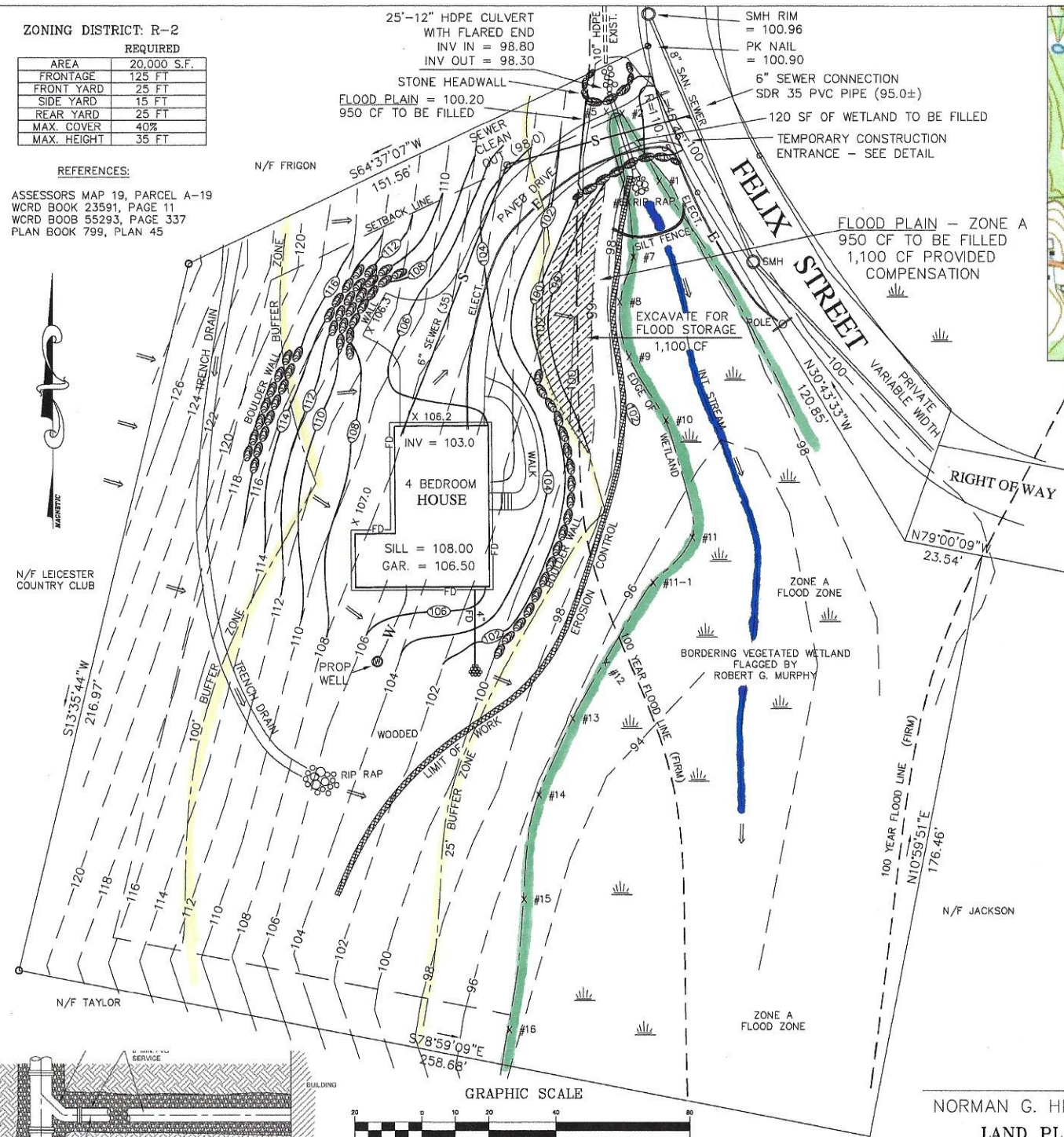
13. All buried utilities as shown are taken from available information and are to be considered as approximate only. Prior to commencement of construction, the contractor is to contact DIG SAFE at 1-888-DIG SAFE to have all buried utilities properly located.

ZONING DISTRICT: R-2

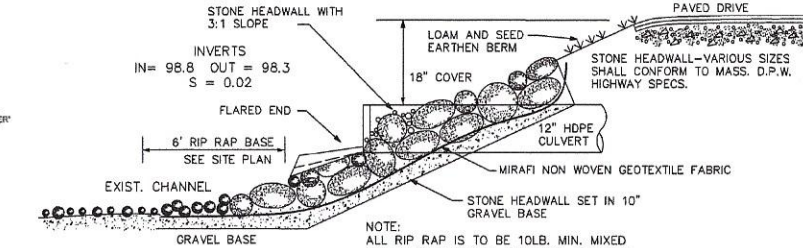
AREA	REQUIRED
FRONTAGE	125 FT
FRONT YARD	25 FT
SIDE YARD	15 FT
REAR YARD	25 FT
MAX. COVER	40%
MAX. HEIGHT	35 FT

REFERENCES:

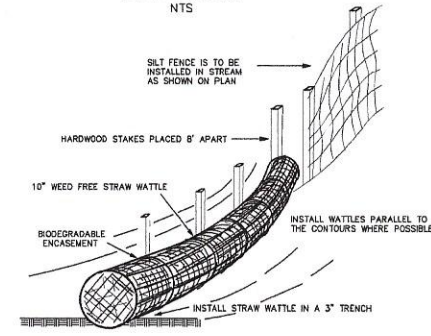
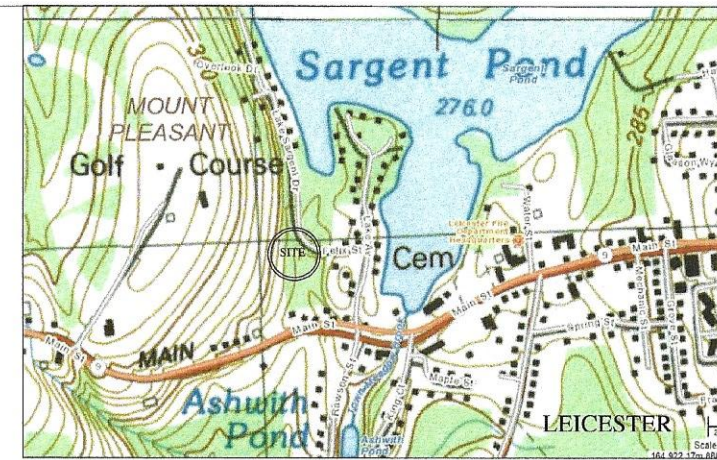
ASSESSORS MAP 19, PARCEL A-19
WCRD BOOK 23591, PAGE 11
WCRD BOOK 55293, PAGE 337
PLAN BOOK 799, PLAN 45



SEWER SERVICE DETAIL
NTS

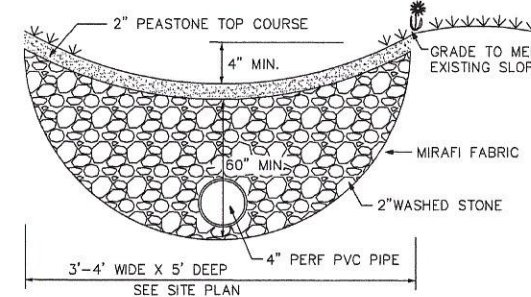


HDPE CULVERT- RIP RAP HEADWALL DETAIL N.T.S.



NOTE: USE 10" WATTLES WHERE SHOWN ON THE SITE PLAN.

TRENCH DRAIN N.T.S.



TRENCH DRAIN N.T.S.

NORMAN G. HILL, PE DATE

LAND PLANNING, INC.

214 Worcester Street
North Grafton, Massachusetts 01536

LEGEND	DRAINAGE FLOW
—100— EXISTING CONTOURS	—W— UTILITIES
—100— PROPOSED CONTOURS	

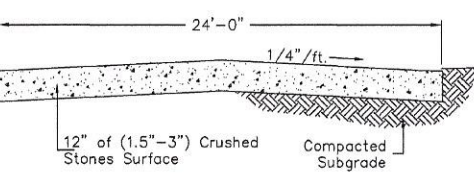
DESIGNED BY: R. G. Murphy	DRAWN BY: R. G. Murphy	DATE: JAN. 14, 2019
SCALE: 1" = 20'	PLAN NO.: S-18-33	SHEET: 1 OF 1

ROBERT G. MURPHY & ASSOC., INC.
ENVIRONMENTAL CONSULTANTS
214 Worcester Street
No. Grafton, Massachusetts 01536
(508) 839-0310
Fax: (508) 839-5914

RGMEVIRON@VERIZON.NET
RGMEVIRONMENTAL.COM

SITE PLAN
STEVEN BRIGHAM
LOT A-19 FELIX STREET MAP 19 PARCEL A-19
LEICESTER, MASSACHUSETTS

REVIS: SITE PLAN
DEP #197-0



Temporary 50' Construction Entrance
NTS



CONTRACTOR TO NOTIFY DIG SAFE
72 HOURS PRIOR TO ANY EXCAVATION
TELEPHONE NUMBER 1-888-344-7233
WWW.DIGSAFE.COM