

# Notice of Intent Application and Wetland Resource Area Analysis

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April 1, 2021

Subject Property

17 Burnett Street

Parcel ID: F7-0-51

Melrose, Massachusetts

Applicant and Property Owner

Salvatore Giliberto

17 Burnett Street

Melrose, MA 02176

**LEC Environmental Consultants, Inc.**

380 Lowell Street

Suite 101

Wakefield, MA 01880

781-245-2500

*[www.lecenvironmental.com](http://www.lecenvironmental.com)*



April 1, 2021

**Hand Delivery**

Melrose Conservation Commission  
Melrose City Hall  
526 Main Street  
Melrose, MA 02176

**Re: Notice of Intent Application and  
Wetland Resource Area Analysis  
17 Burnett Street  
Parcel ID: F7-0-51  
Melrose, Massachusetts**

[LEC File #: GILS\20-166.02]

Dear Members of the Conservation Commission:

On behalf of the Applicant and Property Owner, Salvatore Giliberto, LEC Environmental Consultants, Inc., (LEC) is filing the enclosed Notice of Intent (NOI) Application and *Wetland Resource Area Analysis* with the Melrose Conservation Commission for a proposed stormwater connection, and invasive species management and re-planting of an Isolated Vegetated Wetland (IVW) and Bordering Land Subject to Flooding (BLSF) at 17 Burnett Street in Melrose, Massachusetts.

LEC was retained to identify Wetland Resource Areas protectable under the *Massachusetts Wetlands Protection Act* (M.G.L. c. 131, s. 40, the *Act*), its implementing Regulations (310 CMR 10.00, the *Act Regulations*), the *City of Melrose Wetlands Protection Ordinance* (Chapter 231, the *Ordinance*), and to prepare this NOI Application. RJ O’Connell & Associates, Inc., has prepared the enclosed *17 Burnett Street, Melrose, MA 02176 - Grading and Drainage Plan* dated March 29, 2021 showing the existing and proposed conditions of the stormwater connection and construction details (Appendix D). LEC has prepared the *Invasive Species Management and Re-vegetation Plan* dated March 31, 2021 (Appendix C) depicting proposed invasive species management and re-vegetation efforts.

Enclosed please find two checks made payable to the City of Melrose in the amounts of Sixty-Seven Dollars and Fifty Cents (\$67.50) and Fifty Dollars (\$50.00) for the purpose of filing this Application under State and Local guidelines, respectively. The check payable to the Commonwealth of Massachusetts in the amount of Forty-Two Dollars and Fifty Cents (\$42.50) has been mailed to the DEP Lockbox with a copy of the NOI Wetland Fee Transmittal Form.

**LEC Environmental Consultants, Inc.**

[www.lectenvironmental.com](http://www.lectenvironmental.com)

12 Resnik Road  
Suite 1  
Plymouth, MA 02360  
508.746.9491

380 Lowell Street  
Suite 101  
Wakefield, MA 01880  
781.245.2500

100 Grove Street  
Suite 302  
Worcester, MA 01605  
508.753.3077

P.O. Box 590  
Rindge, NH 03461  
603.899.6726

680 Warren Avenue  
Suite 3  
East Providence, RI 02914  
401.685.3109

PLYMOUTH, MA

WAKEFIELD, MA

WORCESTER, MA

RINDGE, NH

EAST PROVIDENCE, RI



Thank you for your consideration of this Application. We look forward to meeting with you at the April 15, 2021 Public Hearing. Should you have any questions, please do not hesitate to contact me in our Wakefield office at 781-245-2500 or at [rkirby@lecenvironmental.com](mailto:rkirby@lecenvironmental.com).

Sincerely,

**LEC Environmental Consultants, Inc.**

A handwritten signature in black ink, appearing to read "Richard Kirby", is written over a horizontal line.

Richard A. Kirby  
Senior Wetland Scientist

cc: DEP, Northeast Region  
Salvatore Giliberto  
RJ O'Connell Associates, Inc.

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- i. WPA Form 3 – Notice of Intent
- ii. WPA Appendix B – Wetland Fee Transmittal Form
- iii. Affidavit of Service
- iv. Letter to Abutters
- v. Abutter Notification Form
- vi. Certified List of Abutters

**Wetland Resource Area Analysis and Report**

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**Appendix A**

Locus Maps

Figure 1: USGS Topographic Quadrangle

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Figure 2A: FEMA Letter of Map Revision, dated April 16, 2019

Figure 3: MassGIS Orthophoto & NHESP Estimated Habitat Map

**Appendix B**

*Revised Storage Area Plan* dated October 8, 2005 and revised through November 30, 2005, prepared by Anthony P. Salamanca, PE

**Appendix C**

*Invasive Species Management and Re-vegetation Plan* dated March 31, 2021 prepared by LEC Environmental Consultants, Inc.

**Appendix D**

*17 Burnett Street, Melrose, MA 02176 Grading and Drainage Plan*, dated October 5, 2020 and revised through March 22, 2021, prepared by RJ O'Connell & Associates, Inc.



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands

Provided by MassDEP:

MassDEP File Number
Document Transaction Number
Melrose
City/Town

**WPA Form 3 – Notice of Intent**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40  
 City of Melrose Wetlands Protection Ordinance (Chapter 231)

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



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

**A. General Information**

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

<u>17 Burnett Street</u>	<u>Melrose</u>	<u>02176</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>42.4544013272604 N</u>	<u>-71.048587118304 W</u>	
d. Latitude	e. Longitude	
<u>Parcel ID: F7-0-51</u>		
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Salvatore</u>	<u>Giliberto</u>	
a. First Name	b. Last Name	
<u>N/A</u>		
c. Organization		
<u>17 Burnett Street</u>		
d. Street Address		
<u>Melrose</u>	<u>MA</u>	<u>02176</u>
e. City/Town	f. State	g. Zip Code
<u>781-864-3041</u>	<u>N/A</u>	<u>salgiliberto13@gmail.com</u>
h. Phone Number	i. Fax Number	j. Email Address

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

Same as Applicant

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):

<u>Richard</u>	<u>Kirby</u>	
a. First Name	b. Last Name	
<u>LEC Environmental Consultants, Inc.</u>		
c. Company		
<u>380 Lowell Street, Suite 101</u>		
d. Street Address		
<u>Wakefield</u>	<u>MA</u>	<u>01880</u>
e. City/Town	f. State	g. Zip Code
<u>781-245-2500</u>	<u>781-245-6677</u>	<u>rkirby@lecenvironmental.com</u>
h. Phone Number	i. Fax Number	j. Email address

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

<u>\$110.00</u>	<u>\$42.50</u>	<u>\$67.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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**A. General Information** (continued)

6. General Project Description:

The Applicant proposes a stormwater connection, and invasive species management and re-planting of an Isolated Vegetated Wetland (IVW) and Bordering Land Subject to Flooding (BLSF) at 17 Burnett Street in Melrose, Massachusetts.

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

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

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

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

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.

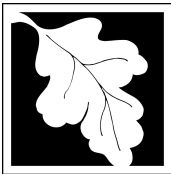
8. Property recorded at the Registry of Deeds for:

Southern Middlesex	N/A
a. County	b. Certificate # (if registered land)
01544	98
c. Book	d. Page Number

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

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

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



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City/Town	_____

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

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	3,000± _____	3,000± _____
	1. square feet _____	2. square feet _____
	0 _____	0 _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	3. cubic feet of flood storage lost _____	4. cubic feet replaced _____
	1. square feet _____	
f. <input type="checkbox"/> Riverfront Area	2. cubic feet of flood storage lost _____	3. cubic feet replaced _____
	2. Name of Waterway (if available) - <b>specify coastal or inland</b> _____	

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](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**

2017 \_\_\_\_\_  
b. Date of map

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

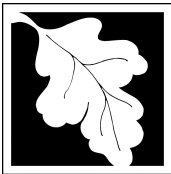
c. Submit Supplemental Information for Endangered Species Review\*

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

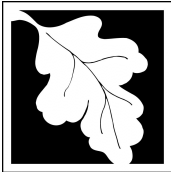
South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

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

Division of Marine Fisheries -  
North Shore Office  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930  
Email: [DMF.EnvReview-North@state.ma.us](mailto: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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**Online Users:**  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

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

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

**D. Additional Information**

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

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

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

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





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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.
 

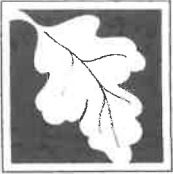
<u>17 Burnett Street, Melrose, MA 02176- Grading and Drainage Plan</u>	
a. Plan Title	
<u>R.J. O'Connell Associates, Inc.</u>	<u>Brian Timm</u>
b. Prepared By	c. Signed and Stamped by
<u>March 29, 2021</u>	<u>1 inch = 20 feet</u>
d. Final Revision Date	e. Scale
<u>Invasive Species Management and Re-vegetation Plan by LEC</u>	<u>3/31/2021</u>
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:

<u>660</u>	<u>3/26/2021</u>
2. Municipal Check Number	3. Check date
<u>661</u>	<u>3/26/2021</u>
4. State Check Number	5. Check date
<u>Salvatore A. &amp; Rosita P.</u>	<u>Giliberto</u>
6. Payor name on check: First Name	7. Payor name on check: Last Name



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City/Town

**F. Signatures and Submittal Requirements**

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

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

  
1. Signature of Applicant

  
2. Date

3. Signature of Property Owner (if different)

4. Date

  
5. Signature of Representative (if any)

3/26/2021

6. Date

**For Conservation Commission:**

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

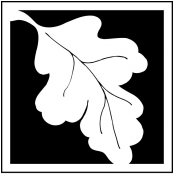
**For MassDEP:**

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

**Other:**

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

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



# Massachusetts Department of Environmental Protection

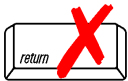
Bureau of Resource Protection - Wetlands

## NOI Wetland Fee Transmittal Form

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

City of Melrose Wetlands Protection Ordinance (Chapter 231)

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



### A. Applicant Information

1. Location of Project:

17 Burnett Street

a. Street Address

661

c. Check number

Melrose

b. City/Town

\$42.50

d. Fee amount

2. Applicant Mailing Address:

Salvatore

a. First Name

N/A

c. Organization

17 Burnett Street

d. Mailing Address

Melrose

e. City/Town

781-864-3041

h. Phone Number

N/A

i. Fax Number

Giliberto

b. Last Name

MA

f. State

02176

g. Zip Code

salgiliberto13@gmail.com

j. Email Address

3. Property Owner (if different):

Same as Applicant

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

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

### B. Fees

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

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

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

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

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

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

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



**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

City of Melrose Wetlands Protection Ordinance (Chapter 231)

**B. Fees** (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
1a) work associated with a single-family dwelling	1	\$110.00	\$110.00
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<b>Step 5/Total Project Fee:</b>			\$110.00

**Step 6/Fee Payments:**

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

## AFFIDAVIT OF SERVICE

Under the *Massachusetts Wetlands Protection Act*  
and the  
*City of Melrose Wetlands Protection Ordinance*  
(Chapter 231)

I, Sharon A. Sullivan, on behalf of Salvatore Giliberto, hereby certify under the pains and penalties of perjury that on April 1, 2021 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 and 310 CMR 10.05 (4) (a), and the *City of Melrose Wetlands Protection Ordinance* (Chapter 231) in connection with the following matter:

A Notice of Intent filed under the *Massachusetts Wetlands Protection Act* and the *City of Melrose Wetlands Protection Ordinance* (Chapter 231) by LEC Environmental Consultants, Inc., on behalf of the Applicant, Salvatore Giliberto, with the City of Melrose Conservation Commission on April 1, 2021 for property located at 17 Burnett Street (Assessor's Parcel ID: F7-0-51) in Melrose, Massachusetts.

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



Sharon A. Sullivan  
Permitting Technician

4/1/2021

Date

April 1, 2021

**CERTIFIED MAIL**

«Name»

«Name2»

«Address»

«City» «State» «Zip»

**Re:    Notice of Intent Application**  
**17 Burnett Street**  
**Assessor's Parcel ID: F7-0-51**  
**Melrose, Massachusetts**

[LEC File #: Gils\20-166.02]

Dear Abutter:

On behalf of the Applicant, Salvatore Giliberto, LEC Environmental Consultants, Inc., (LEC) has filed a Notice of Intent (NOI) Application with the Melrose Conservation Commission for a proposed stormwater connection, invasive species management, and re-planting of a Compensatory Flood Storage Area. Portions of the proposed activities are located within an Isolated Vegetated Wetland (IVW) and Bordering Land Subject to Flooding (BLSF), as protected under the *Massachusetts Wetlands Protection Act* (M.G.L., c. 131, s. 40), its implementing *Regulations* (310 CMR 10.00), and/or the *City of Melrose Wetlands Protection Ordinance* (Chapter 231).

The *NOI Application* and site plan are available for review by the public by contacting the Melrose Conservation Commission. The Public Hearing is scheduled for April 15, 2021 at 7:30 p.m. via remote platform, in accordance with the provisions of the *Massachusetts Wetlands Protection Act* (M.G.L. Ch. 131, s. 40, as amended), its implementing *Regulations* (310 CMR 10.00), and the *City of Melrose Wetlands Protection Ordinance* (Chapter 231). Further information regarding this application and the date and time of the public hearing will be published at least five (5) days in advance in the *Melrose Free Press*. Notice of the Public Hearing will also be posted at the Melrose City Hall at least 48 hours in advance.

Due to Governor Baker's Covid-19 State of Emergency and further direction from the CDC, the Governor has suspended certain provisions of the Massachusetts Open Meeting Law. Please check the Town/Conservation Commission website for information relative to remote viewing and/or participation in the public hearing process.

Please do not hesitate to review the materials and/or attend the public hearing should you have questions or concerns about the proposed project.

Sincerely,

**LEC Environmental Consultants, Inc.**


Richard A. Kirby  
 Senior Wetland Scientist

**LEC Environmental Consultants, Inc.****www.lecenvironmental.com**

12 Resnik Road  
 Suite 1  
 Plymouth, MA 02360  
 508.746.9491

380 Lowell Street  
 Suite 101  
 Wakefield, MA 01880  
 781.245.2500

100 Grove Street  
 Suite 302  
 Worcester, MA 01605  
 508.753.3077

P. O. Box 590  
 Rindge, NH 03461  
 603.899.6726

680 Warren Avenue  
 Suite 3  
 East Providence, RI 02914  
 401.685.3109

**PLYMOUTH, MA****WAKEFIELD, MA****WORCESTER, MA****RINDGE, NH****EAST PROVIDENCE, RI**

**Notification to Abutters Under the**  
*Massachusetts Wetlands Protection Act*  
and the  
*City of Melrose Wetlands Protection Ordinance*  
(Chapter 231)

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 and the City of Melrose Wetlands Protection Ordinance (Chapter 231), you are hereby notified of the following:

- A. The name of the Applicant is Salvatore Giliberto, 17 Burnett Street, Melrose, Massachusetts.
- B. The Applicant has filed a Notice of Intent with the Conservation Commission for the municipality of Melrose, Massachusetts seeking permission to remove, fill, dredge or alter an Area Subject to Protection Under the Wetlands Protection Act (General Laws Chapter 131, Section 40) and the City of Melrose Wetlands Protection Ordinance (Chapter 231).
- C. The address of the lot where the activity is proposed is 17 Burnett Street (Assessor's Parcel ID: F7-0-51), Melrose, Massachusetts.
- D. Copies of the Notice of Intent may be examined by contacting the Melrose Conservation Commission at (781) 979-4312.  
For more information, call: LEC Environmental Consultants, Inc. (the applicant's representative) at (781) 245-2500.
- E. Copies of the Notice of Intent may be obtained from LEC Environmental Consultants, Inc. (the applicant's representative) by calling (781) 245-2500 between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday. A fee may be charged for each copy requested.
- F. Information regarding the public hearing may be obtained from the Melrose Conservation Commission (the regulatory agency) by calling (781) 979-4312.

NOTE: Notice of the Public Hearing, including its date, time, and place, will be published at least five (5) days in advance in the Melrose Free Press.

NOTE: Notice of the public hearing will also be posted at the Melrose City Hall not less than 48 hours in advance.

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

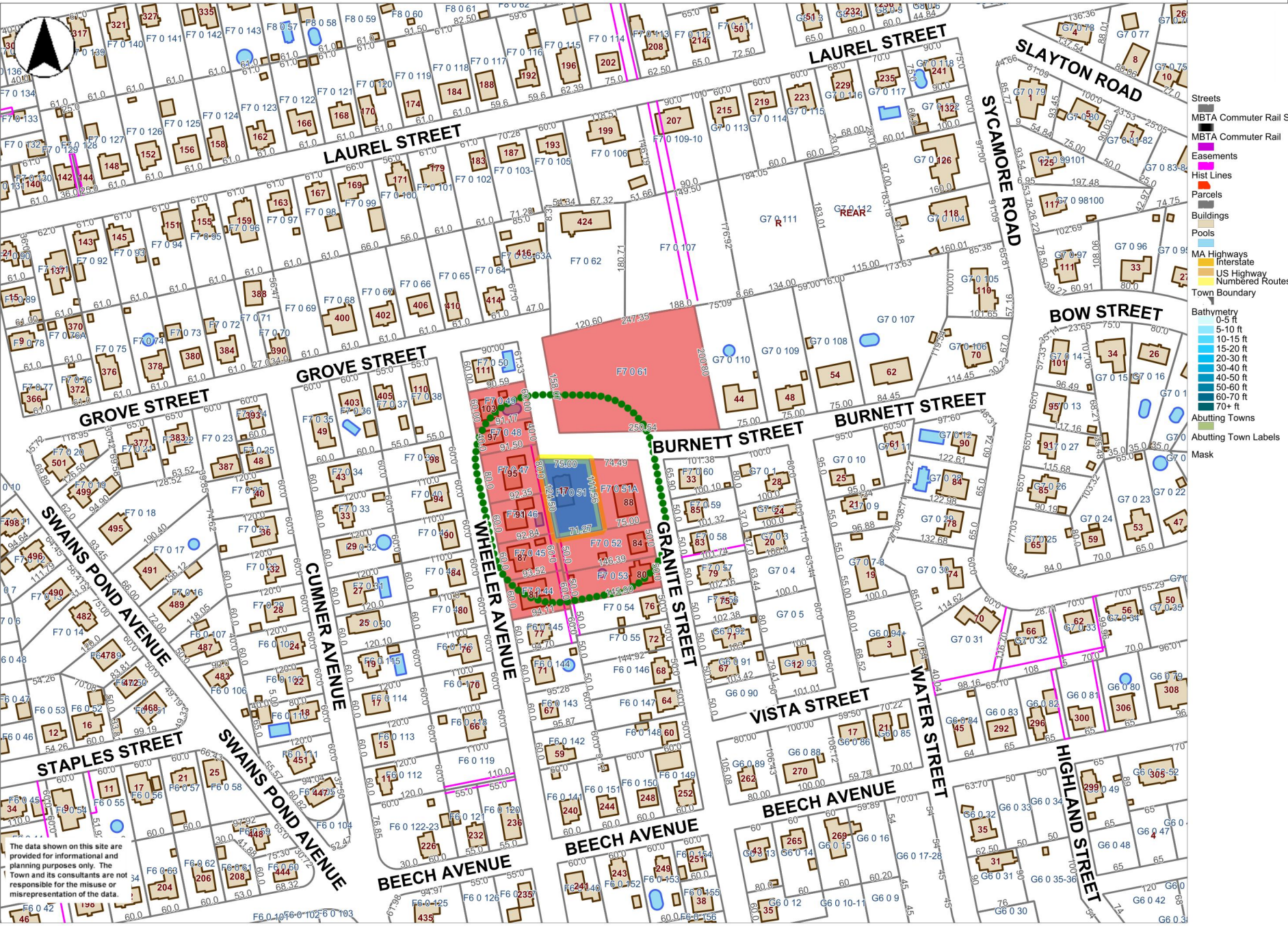
**Northeast Region: 978-694-3200**

abutters_id_field	abutters_owner1	abutters_owner2	abutters_address	abutters_address2	abutters_town	abutters_state	abutters_zip	abutters_bookpage	abutters_location
F7 0 44	LEVINE, DAVI B. AXINN		81 WHEELER AVE		MELROSE	MA	02176	1386-13	81 WHEELER AV
F7 0 45	DECROTEAU, MARK C	TAMMIE A DECROTEAU HWTE	87 WHEELER AVE		MELROSE	MA	02176	1168-150*	87 WHEELER AV
F7 0 46	PRIESTLEY, EDWARD J	LORRAINE PRIESTLEY HW TE	91 WHEELER AVE		MELROSE	MA	02176	1070-13	91 WHEELER AV
F7 0 47	LEONE, STEPHEN G	DEBRA A CRISAFULLI	95 WHEELER AVE		MELROSE	MA	02176	900-90	95 WHEELER AV
F7 0 48	SMITH, MICHAEL JOSEPH	JOYCE CHIEN TU, TC	97 WHEELER AV		MELROSE	MA	02176	74632-300	97 WHEELER AV
F7 0 49	AVERY, STEPHEN L.	ANNICK AVERY, HWTE	103 WHEELER AVE		MELROSE	MA	02176	71163-414	103 WHEELER AV
F7 0 51	GILIBERTO, SALVATORE A	CATHY A. DAIGLE, HWTE	17 BURNETT ST.		MELROSE	MA	02176	1544-98	17 BURNETT ST
F7 0 52	YOO, JEE SUN	TAESUNG KIM, TE	84 GRANITE STREET		MELROSE	MA	02176	1539-58	84 GRANITE ST
F7 0 53	VANDERHOOF, BYRAN	ERICA VANDERHOOF	80 GRANITE ST		MELROSE	MA	02176	1322-117	80 GRANITE ST
F7 0 61	CITY OF, MELROSE	(PARK)	BURNETT ST		MELROSE	MA	02176	9674-79	BURNETT ST
F7 0 51A	VENTURO, GABRIELE		88 GRANITE ST		MELROSE	MA	02176	1202-118	88 GRANITE ST

City of Melrose  
 Board of Assessors  
 Certified Abutters List

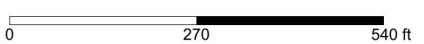
10/29/20





- Streets
- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Easements
- Hist Lines
- Parcels
- Buildings
- Pools
- MA Highways
- Interstate
- US Highway
- Numbered Routes
- Town Boundary
- Bathymetry
  - 0-5 ft
  - 5-10 ft
  - 10-15 ft
  - 15-20 ft
  - 20-30 ft
  - 30-40 ft
  - 40-50 ft
  - 50-60 ft
  - 60-70 ft
  - 70+ ft
- Abutting Towns
- Abutting Town Labels
- Mask

The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.



Printed on 10/29/2020 at 11:48 AM

# 17 BURNETT ST - ABUTTERS 100 FT



**Notice of Intent Application  
& Wetland Resource Area Analysis**

17 Burnett Street  
Assessor's Parcel ID: F7-0-51  
Melrose, Massachusetts

April 1, 2021

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## 1. Introduction

On behalf of the Applicant and Property Owner, Salvatore Giliberto, LEC Environmental Consultants, Inc., (LEC) is filing the enclosed Notice of Intent (NOI) Application and *Wetland Resource Area Analysis* with the Melrose Conservation Commission under the *Massachusetts Wetlands Protection Act* (M.G.L. c. 131, s. 40, the *Act*), its implementing Regulations (310 CMR 10.00, the *Act Regulations*), and the *City of Melrose Wetlands Protection Ordinance* (Chapter 231, the *Ordinance*). The Applicant is filing this NOI Application for a proposed stormwater connection, and invasive species management and re-planting of an Isolated Vegetated Wetland (IVW) and Bordering Land Subject to Flooding (BLSF) at 17 Burnett Street in Melrose, Massachusetts.

The existing conditions and proposed activities are depicted on enclosed *17 Burnett Street, Melrose, MA 02176- Grading and Drainage Plan* dated March 29, 2021, (*Site Plan*, Appendix D), prepared by RJ O’Connell & Associates, Inc. LEC has prepared the *Invasive Species Management and Re-vegetation Plan* dated March 31, 2021 (*Planting Plan*, Appendix C) depicting proposed invasive species management and re-vegetation efforts

### 1.1 Project Background

A NOI Application was filed in October of 2005 (DEP File #: 217-0153) to connect the IVW to the Burnett Street drainage system as depicted on a *Revised Storage Area Plan* dated October 8, 2005 and revised through November 30, 2005 prepared by Anthony P. Salamanca, PE (*Storage Plan*, 2 Sheets, Appendix B). The *Storage Plan* depicts a compensatory flood storage area located east and south of the dwelling, with an 8” perforated PVC pipe. This PVC pipe was to connect to a proposed catch basin within the Burnett Street Right-of-Way (see Sheet 2 of the *Storage Plan*). While it appears that the catch basin was installed, there does not appear to be a pipe connection from the Compensatory Flood Storage Area to the catch basin. As a result, the Compensatory Flood Storage Area and surrounding lawn areas, both on-site and off-site, regularly floods in response to storm events and periods of high groundwater and does not adequately drain as intended in the approved design. Further, the planting specifications for the Compensatory Flood Storage Area include 9 each of highbush blueberry (*Vaccinium corymbosum*), spicebush (*Lindera benzoin*) and elderberry (*Sambucus*



*canadensis*), 5 aster (*Aster* sp.), and 4 goldenrod (*Solidago* sp.). Of these, only individual elderberry was observed, and the linear portion of the Compensatory Flood Storage Area adjacent to the dwelling is dominated by common reed (*Phragmites* sp.), with several patches of Japanese knotweed (*Polygonum cuspidatum*) and multiflora rose (*Rosa multiflora*) along the edges. Accordingly, the Applicant is filing this NOI Application to effectively complete the work previously approved by the Commission (with minor modifications), manage the invasive species on the site, and re-vegetate the IVW and BLSF with a selection of native sapling trees, shrubs, and groundcover species.

Further details of the Existing Conditions are provided below in Section 2, the Proposed Project and replanting effort are described in Section 4, and associated regulatory requirements are provided in Section 5.

**2. General Site Description**



A southerly view of the eastern house façade and *Phragmites* within the Compensatory Flood Storage Area.

The 8,630± square foot property is located in an urban residential neighborhood south of Burnett Street, north of Beech Avenue, east of Granite Street, and west of Wheeler Avenue, within the southeast portion of Melrose. Residential development associated with the Burnett Street, Granite Street, and Wheeler

Avenue are located east, south, and west of the property, respectively. Forested wetlands are located north of the property within Burnett Park.

The property contains a split level, single-family dwelling located within its northwest portion. A paved driveway extends southerly from Burnett Street to an attached, ground-

level, two-car garage. A brick-paver walkway extends from the driveway around the eastern façade of the dwelling to concrete steps and a front entrance landing. Lawn areas surround the dwelling and driveway. The Compensatory Flood Storage Area (jurisdictional as an IVW and BLSF) is located along the eastern property boundary. Site topography generally descends easterly, with fill slopes descending easterly and southeasterly from the lawn surrounding the dwelling toward the Compensatory Flood Storage Area.

2.1 **Natural Heritage and Endangered Species Program Designation**

According to the 14<sup>th</sup> Edition of the *Massachusetts Natural Heritage Atlas* (effective August 1, 2017) published by the Natural Heritage & Endangered Species Program (NHESP), no areas of Estimated or Priority Habitat for Rare Wildlife, or Potential or Certified Vernal Pools exist on the site (Appendix A, Figure 3).

**3. Wetland Resource Areas**

Wetland Resource Areas associated with the site include IVW and BLSF. The entire property is located within BLSF.

3.1 **Isolated Vegetated Wetlands**

According to the *Ordinance* (Chapter 231-11), wetlands are defined as *any freshwater wetlands, marshes, wet meadows, bogs, swamps, vernal pools, banks, lakes, ponds of any size, rivers, streams (including intermittent streams), creeks, or lands subject to flooding or inundation by groundwater or surface water*. Furthermore, according to the *Ordinance* (Chapter 231-2), *resource areas protected by this chapter shall be protected whether or not they border surface waters*.

An IVW occurs along the eastern property boundary and has developed since the Compensatory Flood Storage Area was installed, and contains up to 2.5 feet of surface water under normal conditions.

Vegetation within the IVW includes a sparse canopy of individuals of eastern cottonwood (*Populus deltoides*), American elm (*Ulmus americana*), and box elder (*Acer negundo*). The understory includes individuals of sapling boxelder, silky dogwood (*Cornus amomum*), glossy buckthorn (*Frangula alnus*), multiflora rose (*Rosa multiflora*), northern

arrowwood (*Viburnum dentatum*), and elderberry (*Sambucus nigra*). The herbaceous layer is dominated by common reed (*Phragmites australis*), with individual patches of sensitive fern (*Onoclea sensibilis*), and individuals of jewelweed (*Impatiens capensis*), creeping buttercup (*Ranunculus repens*), selfheal (*Prunella vulgaris*), dock (*Rumex* sp.), purple loosestrife (*Lythrum salicaria*), poison ivy (*Toxicodendron radicans*), a variety of sedges and rushes, and Japanese knotweed (*Polygonum cuspidatum*) along the IVW boundary.

3.2

**Bordering Land Subject to Flooding**

According to the *Act Regulations* [310 CMR 10.57 (2) (a) 1], *Bordering Land Subject to Flooding (BLSF) is an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds or lakes. It extends from the banks of these waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetland.*

According to the *Ordinance* (Chapter 231-11), *Land Subject to Flooding is the area bounded by the estimated maximum lateral extent of floodwater which would result from the statistical one-hundred-year frequency storm. Said boundary shall be that determined by reference to the most recently available data prepared for the community under the National Flood Insurance Program (NFIP, currently administered by the Federal Emergency Management Agency, successor to the U.S. Department of Housing and Urban Development).*

According to the June 4, 2010 *Federal Emergency Management Agency Flood Insurance Rate Map* for Middlesex County, Massachusetts (Map No: 25017C0433E, Appendix A, Figure 2), and the April 16, 2019 *FEMA Letter of Map Revision Based on Fill Determination Document (Removal, Case No. 19-01-0455A, Appendix A, Figure 2a)* the property, with the exception of the existing structure, is located within Zone A: Special Flood Hazard Areas Subject to Inundation by the 1% Annual Chance Flood; No Base Flood Elevations Determined. The structure itself is located within Zone X (unshaded): Areas determined to be outside the 0.2% annual chance floodplain.

Accordingly, BLSF occurs on all land surfaces surrounding the structure on the property.

**4. Proposed Activities**

**4.1 Stormwater Connection**

The Applicant proposes to complete the stormwater connection from the IVW to the Burnett Street drainage system. However, instead of connecting the IVW to the catch basin immediately in front of 17 Burnett Street as previously proposed, the Applicant proposes to connect the IVW to a catch basin located on the adjacent property at 95 Wheeler Avenue. Both catch basins discharge to the same outfall pipe located east of Burnett Street.

Under existing conditions (refer to drainage patterns depicted in the lower right view of the *Site Plan*), stormwater runoff from Burnett Street enters one of several catch basins that all eventually discharge to the outfall pipe located east of Burnett Street. However, the rim elevation and invert elevation for the catch basin in front of 17 Burnett Street are the lowest of the group. Stormwater entering this catch basin needs to rise within the adjacent piping system to reach the invert elevation of the 95 Wheeler Avenue catch basin before positive drainage occurs toward the outfall pipe. Therefore, water entering the 17 Burnett Street catch basin is very slow to drain to the outfall pipe, and water often backs up onto the site and lawn areas on adjacent properties.

RJ O’Connell has developed an alternative drainage connection that will better drain excess surface water from 17 Burnett Street and surrounding land by connecting the IVW directly to the 95 Wheeler Avenue catch basin. This will be accomplished by constructing a small head wall at the northern edge of the IVW and installing an 8-inch pipe that connects to the 95 Wheeler Avenue catch basin. The invert elevation of the pipe inlet at 17 Burnett Street will occur at elevation 102 – the same invert elevation proposed in the 2005 design, and the connection at the 95 Wheeler Avenue catch basin will occur at elevation 101.4. This will allow for positive drainage from the site to the 95 Wheeler Avenue catch basin, and ultimately to the outfall pipe located east of Burnett Street. A 10-foot wide utility easement will be established on the 95 Burnett Street property to allow for this work to occur.

4.2

### **Invasive Species Management and Re-vegetation**

The Applicant proposes to manage the *Phragmites* that has overtaken the IVW (and several patches of Japanese knotweed and multiflora rose) and re-establish a native plant community, as specified on the *Planting Plan*, while maintaining the existing grades within the IVW and surrounding land to ensure the flood storage capacity on the site is maintained. All work will be supervised and directed by a qualified Wetland Scientist with experience with such invasive species management and re-vegetation projects. Specifically, the exposed invasive species biomass will be cut and removed from the site. The contractor will then use survey equipment to confirm existing grades within the IVW and surrounding land. Site photographs will be taken to document pre-management site conditions. Any dewatering required will implement best management practices, including a silt sack, sand bags, and/or pumps. Given the limited space on the site, the dewatering/excavation/topsoil replacement effort may need to be implemented in sections. Mechanical equipment will be used to excavate the existing soil by roughly 1 to 3 feet (anticipating an average depth of 2 feet), depending on the depth of observed invasive species' root systems. Organic topsoil will replace the removed soil to pre-excavation grades, which will be confirmed by the contractor using survey equipment. The organic topsoil will comprise of a mineral topsoil mixed with leaf compost to achieve 12-20% organic content. The exposed soils will then be seeded with the *Northeast Native Wetland Rush/Bullrush* seed mix available from Southern Tier Consulting, Inc., and planted with the native sapling trees (7)<sup>1</sup>, native shrubs (29), native ferns (5), and native perennial plugs (300 minimum) specified on the *Planting Plan*.

The intent of this effort is to create an IVW that is both aesthetically pleasing and better functioning with respect to the interests of the *Act* and *Ordinance*. LEC anticipates that continued efforts to manage *Phragmites* and other invasive plants will be required indefinitely, and the Applicant understands that continued management efforts will be required to promote the establishment and health of the intended native plant community.

---

<sup>1</sup> The 7 sapling trees are also intended to mitigate for the removal of a degraded *Poplar* tree removed from the site in the fall of 2020 per LEC Technical Memorandum dated December 3, 2020.



4.3 **Erosion and Sedimentation Control**

The Applicant proposes to implement an erosion control program to protect the adjacent Wetland Resource Areas and land from sedimentation during construction activities. The plan for the control of potential impacts to the adjacent Wetland Resource Areas is based on DEP guidelines and will be comprised of staked compost filter tubes along the Limit-of-Work line. All erosion control measures will remain in place until disturbed areas are stabilized by vegetation.

5. **Regulatory Performance Standards**

The *Act Regulations* provide specific performance standards for work within Bordering Land Subject to Flooding. Citations of the pertinent performance standards are provided below, along with a description of how the project meets these standards.

5.1 **Bordering Land Subject to Flooding Performance Standards**

The *Act Regulations* at 310 CMR 10.57 (4) state that *work within BLSF shall conform to the following criteria:*

(a) *Bordering Land Subject to Flooding*

- (1) *Compensatory storage shall be provided for all flood storage volume that will be lost as a result of the proposed work.*

No loss in flood storage will result from the proposed pipe connection, and while invasive species management is proposed for roughly 3,000 square feet of BLSF, the Applicant proposes to return all grades to existing conditions such that no loss in flood storage results.

- (2) *Work within BLSF...shall not restrict flows so as to cause an increase in flood stage or velocity.*

Proposed work in the floodplain will not restrict flows or cause an increase in flood stage or velocity.

- (3) *Work within those portions of Bordering Land Subject to Flooding found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions...a project or projects on a single*

*lot, for which Notice(s) of Intent is filed on or after November 1, 1987 that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in this resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions.*

The proposed project will improve wildlife habitat by removing invasive exotic species and establishing a native wetland plant community.

(b) Protection of Rare Wildlife Species

*(1) Notwithstanding the provisions of 310 CMR 10.57(4)(a) or (b), no project may be permitted which will have any adverse effect on specified wildlife habitat sites of rare vertebrate or invertebrate species.*

There are no specified wildlife habitat sites of rare vertebrate or invertebrate species located on the project site; therefore, the proposed project will have no adverse effect on any such sites.

**6. Summary**

On behalf of the Applicant and Property Owner, Salvatore Giliberto, LEC is filing the enclosed NOI Application and *Wetland Resource Area Analysis* with the Melrose Conservation Commission under the *Act*, the *Act Regulations*, and the *Ordinance* for a proposed stormwater connection, and invasive species management and re-planting of an Isolated Vegetated Wetland and Bordering Land Subject to Flooding at 17 Burnett Street in Melrose, Massachusetts. The stormwater connection work is intended to complete a previously-approved stormwater connection from a 2005 NOI Application; however, the connection will occur at a different catch basin resulting in an improved design.

The proposed project, including the proposed mitigating measures, meets the performance standards enumerated in the pertinent Statutes and Regulations. Accordingly, the Applicant requests that the Commission issue an Order of Conditions approving the project.

Massachusetts Department of Environmental Protection, Division of Wetlands and Waterways 1995. *Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act, A Handbook*. 89 pp.

Massachusetts Natural Heritage and Endangered Species Program Atlas of Estimated Habitat of State-listed Rare Wetlands Wildlife, Natural Heritage & Endangered Species Program, Massachusetts Division of Fisheries & Wildlife, Route 135, Westborough, MA 01581, [www.state.ma.us/dfwele/dfw](http://www.state.ma.us/dfwele/dfw)

Massachusetts Wetlands Protection Act (M.G.L. c. 131, §. 40), [www.state.ma.us/dep](http://www.state.ma.us/dep)  
Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00),  
[www.state.ma.us/dep](http://www.state.ma.us/dep)

Melrose Conservation Commission, *City of Melrose Wetlands Protection Ordinance* (Chapter 231) City of Melrose, Massachusetts.

National Flood Insurance Program, Federal Emergency Management Agency Flood Insurance Rate Map, Middlesex County, June 4, 2010.

New England Hydric Soils Technical Committee. 2018, 4<sup>th</sup> ed., *Field Indicators for Identifying Hydric Soils in New England*, New England Interstate Water Pollution Control Commission, Lowell, MA.

Reed, P.B. 1988. *National List of Plant Species that Occur in Wetlands: 1988 Massachusetts*. U.S. Department of the Interior, Fish and Wildlife Service. NERC-88/18.21

---

## Appendix A

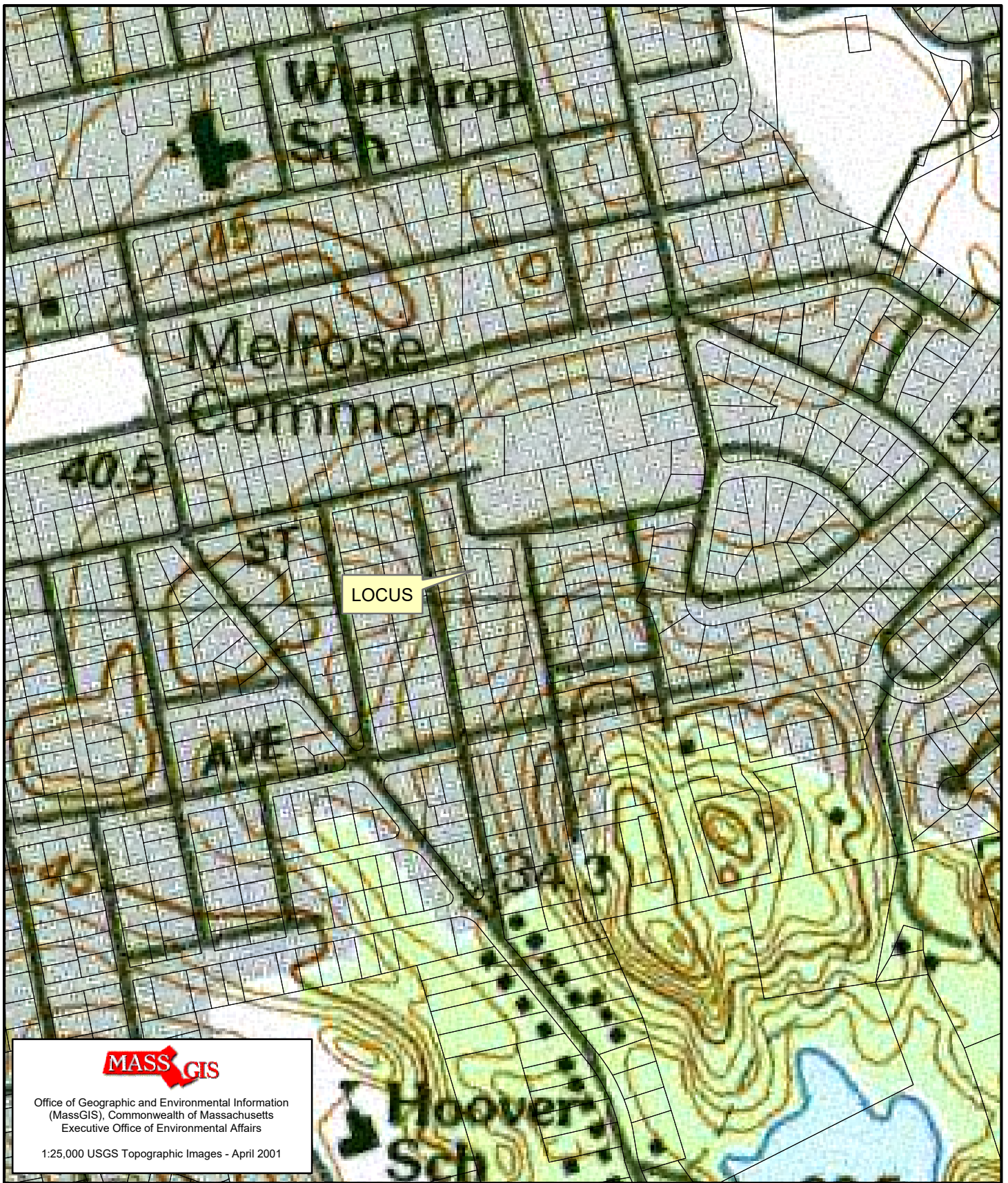
### Locus Maps

Figure 1: USGS Topographic Quadrangle

Figure 2: FEMA Flood Insurance Rate Map

Figure 2A: FEMA Letter of Map Revision, dated April 16, 2019

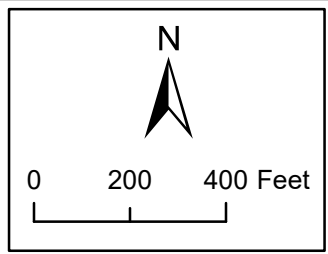
Figure 3: MassGIS Orthophoto & NHESP Estimated Habitat Map



**MASS GIS**  
Office of Geographic and Environmental Information  
(MassGIS), Commonwealth of Massachusetts  
Executive Office of Environmental Affairs  
1:25,000 USGS Topographic Images - April 2001

**LEC**  
Environmental Consultants, Inc.  
Wakefield, MA  
781.245.2500  
www.lecenvironmental.com

Figure 1: USGS Topographic Map  
17 Burnett Street  
Melrose, MA  
March 30, 2021







# LEGEND



**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

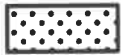
The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



**OTHER FLOOD AREAS**

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.



**OTHER AREAS**

- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.



**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**



**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.



1% annual chance floodplain boundary



0.2% annual chance floodplain boundary



Floodway boundary



Zone D boundary



CBRS and OPA boundary



Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.



513  
(EL 987)

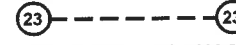
Base Flood Elevation line and value; elevation in feet\*

Base Flood Elevation value where uniform within zone; elevation in feet\*

\* Referenced to the North American Vertical Datum of 1988



Cross section line



Transect line

87°07'45", 32°22'30"

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere

2476<sup>000m</sup>N

1000-meter Universal Transverse Mercator grid values, zone 19

600000 FT

5000-foot grid values: Massachusetts State Plane coordinate system, Mainland zone (FIPZONE 2001), Lambert Conformal Conic projection

DX5510 x

Bench mark (see explanation in Notes to Users section of this FIRM panel)

● M1.5

River Mile

MAP REPOSITORY  
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE  
FLOOD INSURANCE RATE MAP  
June 4, 2010

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION BASED ON FILL DETERMINATION DOCUMENT (REMOVAL)

COMMUNITY AND MAP PANEL INFORMATION		LEGAL PROPERTY DESCRIPTION
COMMUNITY	CITY OF MELROSE, MIDDLESEX COUNTY, MASSACHUSETTS	Lot 11, as described in the Quitclaim Deed recorded as Document No. 2007 01451572, in Book 1342, Page 94, in the Office of the Register of Deeds, Middlesex County, Massachusetts
	COMMUNITY NO.: 250206	
AFFECTED MAP PANEL	NUMBER: 25017C0433E	
	DATE: 6/4/2010	
FLOODING SOURCE: LOCAL FLOODING		APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 42.454390, -71.048622 SOURCE OF LAT & LONG: LOMA LOGIC DATUM: NAD 83

### DETERMINATION

LOT	BLOCK/ SECTION	SUBDIVISION	STREET	OUTCOME WHAT IS REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (NAVD 88)	LOWEST ADJACENT GRADE ELEVATION (NAVD 88)	LOWEST LOT ELEVATION (NAVD 88)
11	--	--	17 Burnett Street	Structure	X (unshaded)	--	104.0 feet	--

**Special Flood Hazard Area (SFHA)** - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood).

ADDITIONAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional considerations listed below.)

PORTIONS REMAIN IN THE SFHA  
ZONE A

This document provides the Federal Emergency Management Agency's determination regarding a request for a Letter of Map Revision based on Fill for the property described above. Using the information submitted and the effective National Flood Insurance Program (NFIP) map, we have determined that the structure(s) on the property(ies) is/are not located in the SFHA, an area inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood). This document revises the effective NFIP map to remove the subject property from the SFHA located on the effective NFIP map; therefore, the Federal mandatory flood insurance requirement does not apply. However, the lender has the option to continue the flood insurance requirement to protect its financial risk on the loan. A Preferred Risk Policy (PRP) is available for buildings located outside the SFHA. Information about the PRP and how one can apply is enclosed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426.

Luis V. Rodriguez, P.E., Director  
Engineering and Modeling Division  
Federal Insurance and Mitigation Administration





# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION BASED ON FILL DETERMINATION DOCUMENT (REMOVAL)

ATTACHMENT 1 (ADDITIONAL CONSIDERATIONS)

### **PORTIONS OF THE PROPERTY REMAIN IN THE SFHA (This Additional Consideration applies to the preceding 1 Property.)**

Portions of this property, but not the subject of the Determination/Comment document, may remain in the Special Flood Hazard Area. Therefore, any future construction or substantial improvement on the property remains subject to Federal, State/Commonwealth, and local regulations for floodplain management.

### **ZONE A (This Additional Consideration applies to the preceding 1 Property.)**

The National Flood Insurance Program map affecting this property depicts a Special Flood Hazard Area that was determined using the best flood hazard data available to FEMA, but without performing a detailed engineering analysis. The flood elevation used to make this determination is based on approximate methods and has not been formalized through the standard process for establishing base flood elevations published in the Flood Insurance Study. This flood elevation is subject to change.

This attachment provides additional information regarding this request. If you have any questions about this attachment, please contact the FEMA Map Information eXchange (FMIX) toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426.

A handwritten signature in black ink, appearing to read "Luis V. Rodriguez".

Luis V. Rodriguez, P.E., Director  
Engineering and Modeling Division  
Federal Insurance and Mitigation Administration





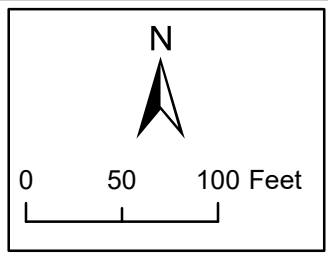
**Legend**

- \* NHESP Certified Vernal Pool
- \* NHESP Potential Vernal Pool
- NHESP Estimated Habitats of Rare Wildlife (2017)
- NHESP Priority Habitats of Rare Species (2017)

**LEC**  
 Environmental Consultants, Inc.  
 Wakefield, MA  
 781.245.2500  
 www.lecenvironmental.com

Figure 3: MassGIS Orthophoto & NHESP Map  
 17 Burnett Street  
 Melrose, MA

March 30, 2021





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**Appendix B**

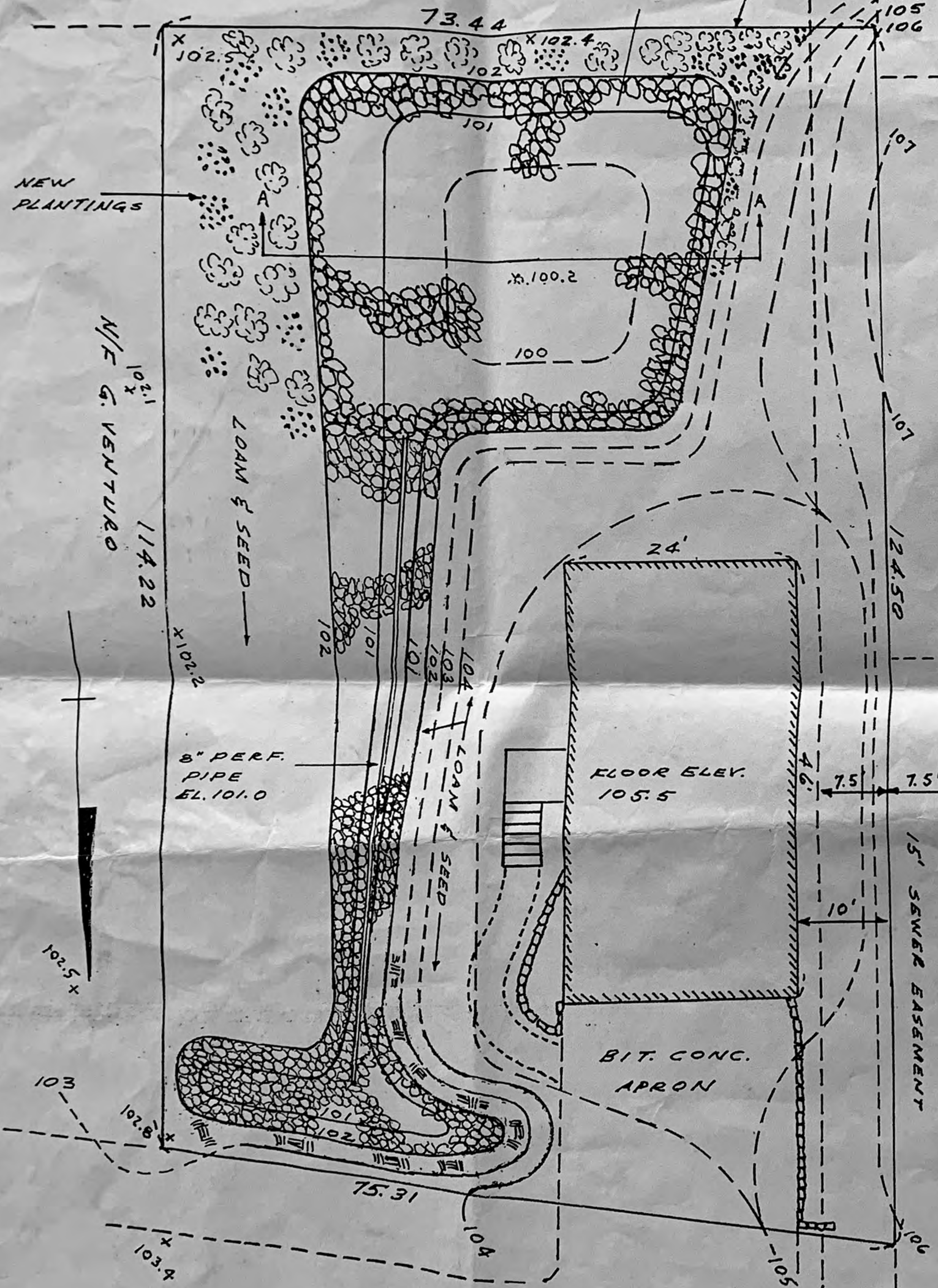
*Revised Storage Area Plan* dated October 8, 2005 and revised through November 30, 2005  
prepared by Anthony P. Salamanca, PE



N/F BAKER REALTY TRUST

N/F P.C. & L.R. TURA

EXISTING WETLAND SPECIES PLANTINGS



REVISED STORAGE CAPACITIES (C.F.)

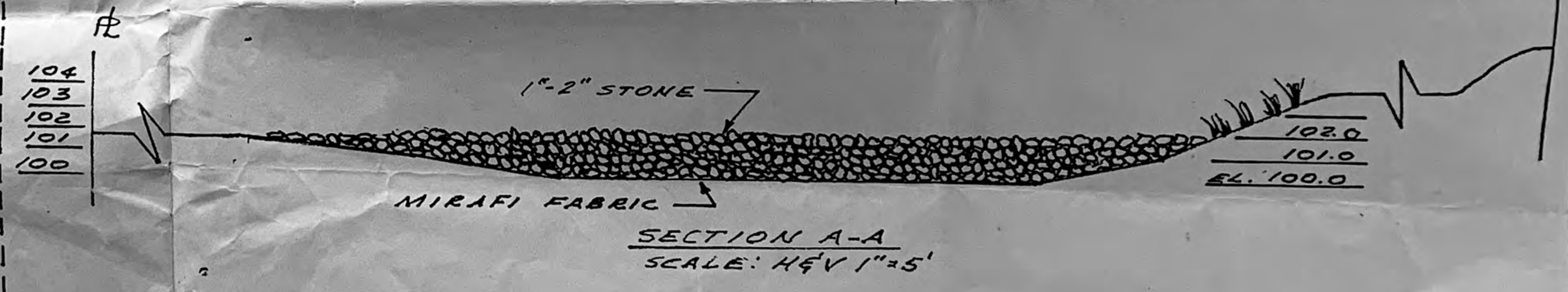
EXISTING			PROPOSED		
ELEV. 104.5	6104	3000	ELEV. 104.5	6104	3000
ELEV. 104.0	5894	5542	ELEV. 104.0	5894	5542
ELEV. 103.0	5190	3225	ELEV. 103.0	5190	3665
ELEV. 102.0	1260	630	ELEV. 102.0	2140	1685
ELEV. 101.0	0		ELEV. 101.0	1230	815
TOTALS:		12,397 CF	TOTALS:		14,707 CF
			LESS STONE VOL. (2500 CF X 75%)		1875
					12,832 CF

COMPARISONS:  
 PRE-CONSTR. VOLUMES - 11,491 CF  
 POST-CONSTR. VOLUMES - 12,397 CF  
 LATEST PROP. REVISION - 12,832 CF

N/F E.J. & L. PRIESTLY

N/F S.G. LEONE & D.A. CRISTAFULLI

- PLANTING SCHEDULE
- 9 - HIGHBUSH BLUEBERRY
  - 9 - SPICEBUSH
  - 9 - ELDERBERRY
- GROUND COVER:
- LOAM & SEED
  - 5 - ASTER
  - 4 - GOLDEN ROD



SECTION A-A  
SCALE: H&V 1"=3.5'

--- EXISTING CONTOUR  
 — PROPOSED CONTOUR  
 x EXISTING SPOT GRADE

BURNETT STREET

PLAN VIEW  
SCALE: 1"=10'

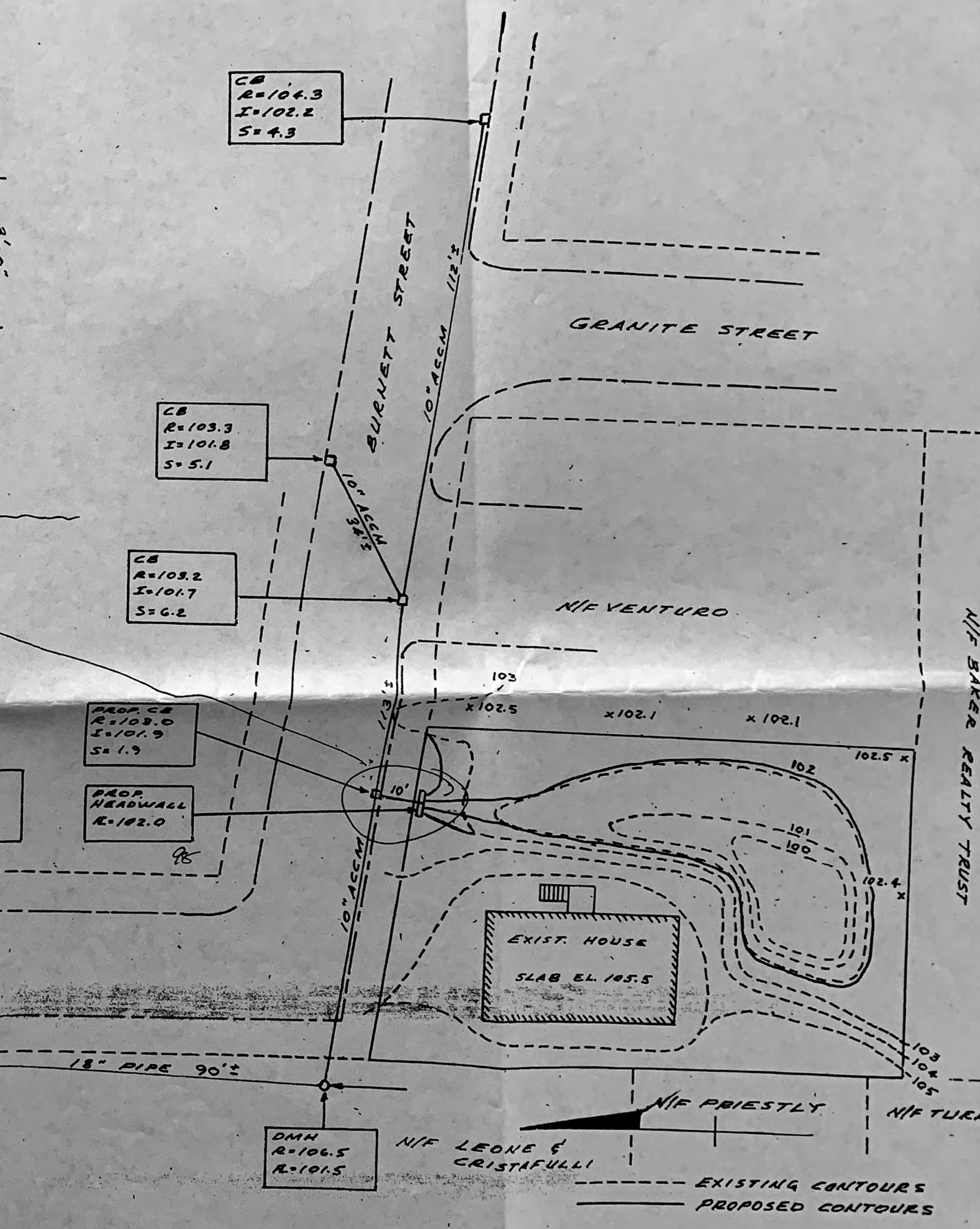
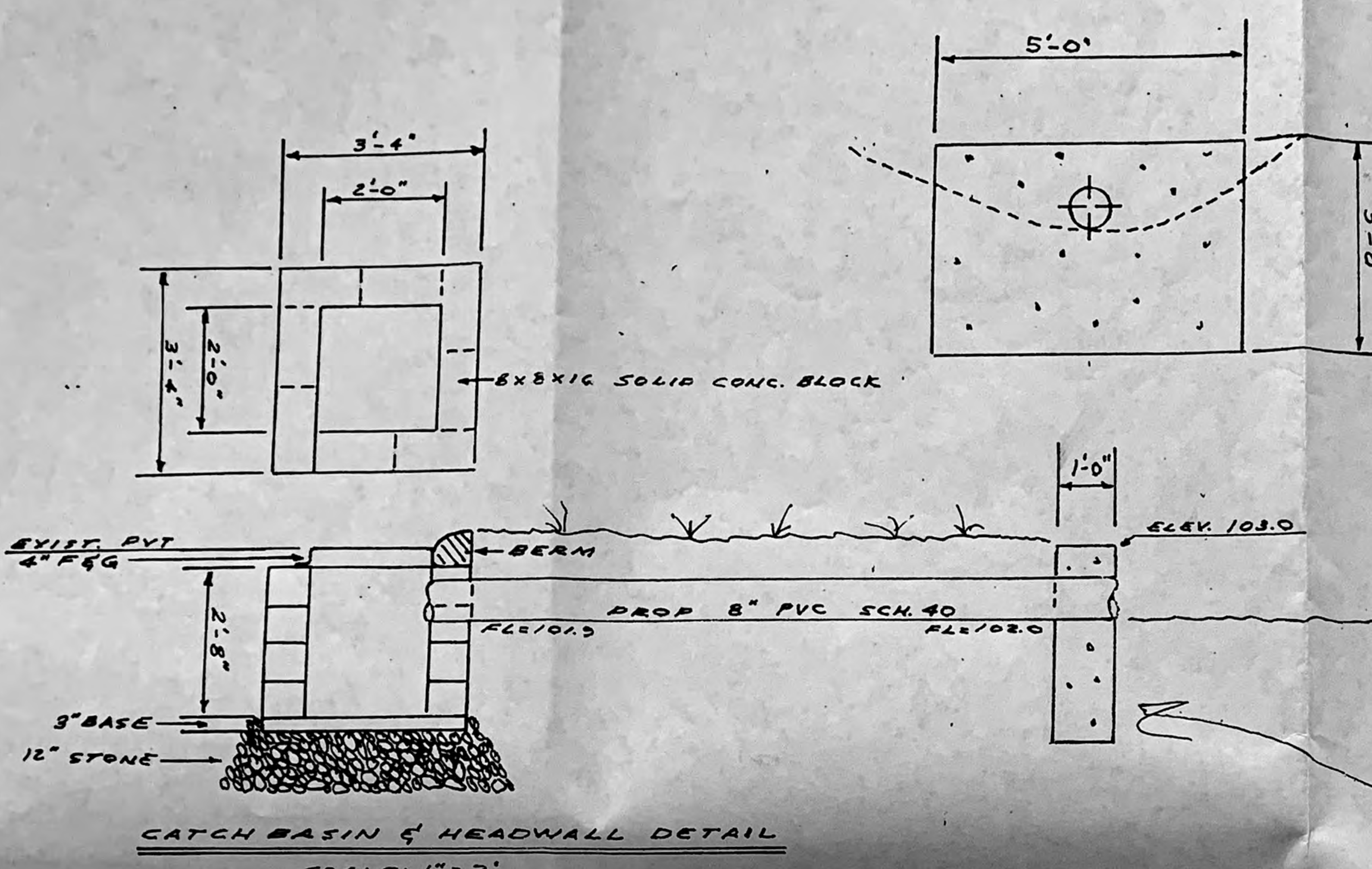


Anthony P. Salamanca, P.E.  
10/05  
11/05

REVISED STORAGE AREA  
 DEP#217-0128, LOT A, BURNETT ST. MEL.  
 SCALE: As Noted APPROVED BY: DRAWN BY: APS  
 DATE: 10-8-05 REVISED 11-30-05  
 GOLGEON R.E.I. CORP. LCC OWNER  
 60 YORK TERRACE, MELROSE, MA.  
 ANTHONY P. SALAMANCA, P.E.  
 MELROSE, MA. #29554 DRAWING NUMBER JA



BURNETT ST. DRAINAGE SYSTEM



PROP. C.B., HW, AND REVISED GRADING LOT A, (DEP # 217-0128), BURNETT STREET, MELROSE, MA.			
SCALE: As Noted	APPROVED BY:	DRAWN BY: APS	
DATE: 5-18-06		REVISED:	
GOUGEON R.E.I. CORP. LLC (OWNER) 60 YORK TERRACE, MELROSE, MASS.			
ANTHONY P. SALAMANCA, P.E. MELROSE, MA. #29550			DRAWING NUMBER: 1



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**Appendix C**

*Invasive Species Management and Re-vegetation Plan* dated March 31, 2021  
prepared by LEC Environmental Consultants, Inc.

**GENERAL NOTES**

ALL PLANTINGS SHALL BE NATIVE VARIETIES WITH NO LANDSCAPE CULTIVARS PROPOSED.

SPECIFIC PLACEMENT OF SHRUBS AND TREES WITHIN THE PLANTING AREA ARE APPROXIMATE AND SHALL BE SPECIFICALLY LOCATED IN THE FIELD BY THE WETLAND SCIENTIST TO ACCOMMODATE EXISTING CONDITIONS.

IF NECESSARY, ANY REQUIRED SUBSTITUTE OR SUPPLEMENTAL NATIVE PLANTS SHALL BE REVIEWED BY A WETLAND SCIENTIST PRIOR TO INSTALLATION.

A DEEP WATERING SHALL OCCUR AT THE TIME OF INSTALLATION, AS NECESSARY.

IMPLEMENTATION OF A WATERING SCHEDULE FOR THE PLANTINGS IS RECOMMENDED TO ENSURE ESTABLISHMENT.

EXISTING KNOTWEED & MULTIFLORA ROSE CLUSTERS WILL BE REMOVED TO THE EXTENT PRACTICAL. ANY PORTIONS OF KNOTWEED THAT CANT BE REMOVED OR RE-GROW, SHALL BE TREATED WITH CUT-STEM METHOD USING GLYPHOSATE, AND/OR CUT FLUSH TO GROUND SURFACE AND COVERED WITH SECURED 6MIL. BLACK PLASTIC FOR TWO YEARS.

ANY RE-GROWTH OF COMMON REED SHALL BE TREATED ANNUALLY WITH GLYPHOSATE USING THE CUT-STEM TREATMENT METHOD OR HAND REMOVED UNTIL COMPLETELY ERADICATED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING DIG SAFE AND CONFIRMING LOCATION OF UTILITIES. NOTE: A SEWER EASEMENT OCCURS ON THE SUBJECT LOT.

**PLANTING SPECIFICATIONS**

	COMMON NAME	GENUS/SPECIES	SIZE	PLANTING SPECIFICATIONS	NUMBER OF EACH SPECIES
<b>TREES</b>					
●	black willow	<i>Salix nigra</i>	4-6' min.	singles, spaced 10-25' on-center	1
●	Atlantic cedar	<i>Chamaecyparis thyoides</i>	4-6' min.	singles, spaced 10-25' on-center	3
●	black gum	<i>Nyssa sylvatica</i>	4-6' min.	singles, spaced 10-25' on-center	2
●	Black spruce	<i>Picea Mariana</i>	4-6' min.	singles, spaced 10-25' on-center	1
				<i>Trees Total</i>	7
<b>SHRUBS</b>					
●	spicebush	<i>Lindera benzoin</i>	2-3' min.	clusters of 3-7, spaced 4-6' on-center	3
●	Inkberry	<i>Ilex glabra</i>	2-3' min.	clusters of 3-7, spaced 4-6' on-center	10
●	swamp rose	<i>Rosa palustris</i>	2-3' min.	clusters of 3-7, spaced 4-6' on-center	1
●	highbush cranberry	<i>Viburnum trilobum</i>	2-3' min.	clusters of 3-7, spaced 4-6' on-center	3
●	winterberry	<i>Ilex verticillata</i>	2-3' min.	clusters of 3-7, spaced 4-6' on-center	6
●	red-twig dogwood	<i>Cornus alba</i>	2-3' min.	clusters of 3-7, spaced 4-6' on-center	6
				<i>Shrubs Total</i>	29
<b>FERNS</b>					
NA	Cinnamon fern	<i>Osmunda cinnamomea</i>	1 gal pot	spaced equally throughout	5
				<i>Total Plantings</i>	41

**CONSTRUCTION SEQUENCE**

PRIOR TO STARTING WORK ACTIVITY, THE LIMITS OF THE AREA TO BE EXCAVATED SHALL BE MARKED OUT BY THE MONITORING WETLAND SCIENTIST IN THE FIELD.

SURVEY EQUIPMENT SHALL BE USED BY THE CONTRACTOR TO CONFIRM EXISTING GRADES FOR EACH AREA OF EXCAVATION TO ENSURE RESTORED GRADES ARE THE SIMILAR TO EXISTING CONDITIONS AND MAINTAIN APPROXIMATE WATER DEPTHS DEPICTED ON THE PLANTING PLAN.

PHOTOGRAPHS SHALL BE TAKEN FROM MULTIPLE LOCATIONS TO DOCUMENT PRE-EXISTING CONDITIONS.

ANY NECESSARY DEWATERING DURING PLANTING WILL BE CARRIED OUT USING CONSTRUCTION BEST MANAGEMENT PRACTICES (E.G. SILT SAC).

MECHANICAL EQUIPMENT WILL BE USED TO EXCAVATE TO A SUB-GRADE ELEVATION APPROXIMATELY 2 FEET BELOW THE PROPOSED EXISTING ELEVATIONS. THE RANGE OF EXCAVATION DEPTH IS ANTICIPATED TO BE A MINIMUM OF 12 INCHES AND MAXIMUM OF 3 FEET TO ADEQUATELY REMOVE BELOW GROUND ROOT MASS.

ORGANIC TOP SOIL SHALL BE RE-ESTABLISHED THROUGHOUT AREAS OF EXCAVATION. THE PROPOSED TOPSOIL SHALL BE COMPRISED OF CLEAN LEAF COMPOST AND MINERAL SOIL MIXTURE, AND SHALL HAVE APPROXIMATELY 12-20% ORGANIC MATTER CONTENT. THE IMPORTED SOIL SHALL BE VISUALLY INSPECTED BY THE WETLAND SCIENTIST BEFORE PLACEMENT IN THE REPLICATION AREA.

EFFORT SHALL BE MADE TO MINIMIZE SOIL COMPACTION DURING CONSTRUCTION.

ANY SOIL STOCKPILES ASSOCIATED WITH THE WORK ACTIVITY WILL BE LOCATED OUTSIDE OF THE WETLANDS ON-SITE, AND SHALL BE ENCLOSED WITH EROSION CONTROLS. EFFORT SHALL BE MADE TO AVOID STOCKPILING, AND REMOVING SOILS DIRECTLY FROM THE SITE.

EXCAVATED SOIL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.

ANY DISTURBED AREAS WITHIN THE WETLAND LIMITS TO BE SEEDED WITH THE NORTHEAST WETLAND NATIVE RUSH/BULRUSH MIX. THE SEEDMIX SHALL BE APPLIED ACCORDING TO THE SUPPLIERS INSTRUCTIONS.

PLANTING OF PLUGS, SHRUBS AND TREES SHALL OCCUR UPON COMPLETION OF RESTORED GRADES.

ANY DISTURBED LAWN AREAS SHALL BE RESTORED TO PRE-EXISTING CONDITIONS.

THE SPECIFIC LOCATIONS OF THE PLANTINGS LISTED IN THE SHRUB AND TREE PLANT LIST SHALL BE OVERSEEN BY THE MONITORING WETLAND SCIENTIST TO ENSURE PROPER TARGET HYDROLOGY FOR EACH SPECIES.

PLUGS AND ANY PLANTINGS WITHIN SURFACE WATER TO BE SECURED WITH STAKES, LANDSCAPE STAPLES OR SMALL STONES TO PREVENT FLOATING WITHIN SURFACE WATER PRIOR TO ESTABLISHMENT. THE WETLAND SCIENTIST SHALL OVERSEE LOCATIONS FOR PLUGS BASED ON HYDROLOGICAL REQUIREMENTS.

**Invasive Species Management and Re-vegetation Plan**

17 Burnett Street  
Melrose, MA

March 31, 2021

PREPARED BY:

**LEC**  
Environmental Consultants, Inc.

12 Resnik Road  
Suite 1  
Plymouth, MA 02360  
508.746.9491  
508.746.9492 fax  
email: southlec@leceenvironmental.com

www.leceenvironmental.com



SCALE: 1" = 10'  
(11 x 17" Print Size)

LEC File: GIS\20-166.02

**Northeast Wetland Rush/  
Bulrush Mix or equivalent**

(Application Rate: 1 pound for 43,560 sq. ft. @ 230+ seeds per sq. ft.  
(Southern Tier Consulting, Inc.)

- |                     |                          |
|---------------------|--------------------------|
| Soft Rush           | Juncus effusus           |
| Green Bulrush       | Scirpus atrovirens       |
| Wool Grass          | Scirpus cyperinus        |
| Soft Stem Bulrush   | Scirpus tabernaemontanii |
| Common Three Square | Scirpus pungens          |

**SURFACE WATER/WETLAND EDGE PLUGS**

AREAS ON THE EDGE OF THE SURFACE WATER (0-3") TO BE PLANTED WITH A MINIMUM 100 2" PLUGS FROM THE FOLLOWING LIST:

- CARDINAL FLOWER (LOBELIA CARDINALIS)
- CRIMSEYED ROSEMALLOW (HIBISCUS MOSCHUETOS)
- BLUE FLAG IRIS (IRIS VERSICOLOR) (PONTEDERIA CORDATA)
- MARSH BLAZING STAR (LIATRIS SPICATA)
- GREAT BLUE LOBELIA (LOBELIA SIPHILITICA)

**HIGH MARSH PLUGS**

AREAS OF HIGH MARSH TO BE PLANTED WITH MINIMUM 100 2" PLUGS FROM THE BELOW LIST.

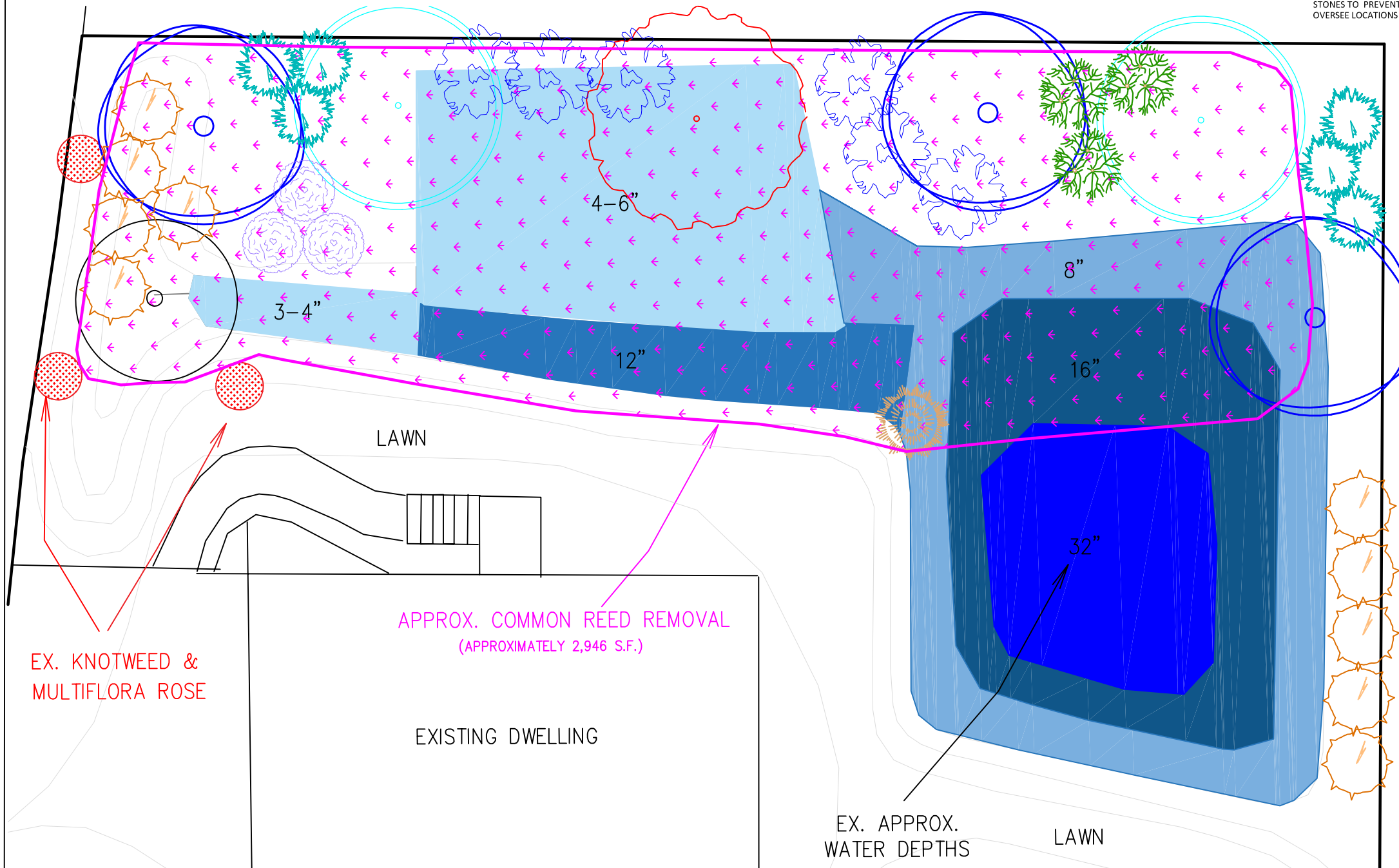
THESE PLUGS TO BE PLANTED THROUGHOUT PLANTING AREA AT VARIOUS ELEVATIONS WITH APPROXIMATELY 3-12" OF SURFACE WATER

- PELTANDRA VIRGINICA (ARROW ARUM)
- ACORUS AMERICANA (SWEETFLAG)
- PICKERELWEED (PONTEDERIA CORDATA)
- NORTHERN ARROWHEAD (SAGITTARIA LATIFOLIA)

**LOW MARSH PLUGS**

AREAS WITH APPROXIMATELY 6 INCHES TO 24" OF SURFACE WATER TO BE PLANTED WITH MINIMUM 100 2" PLUGS FROM THE BELOW LIST.

- SCHOENOPLECTUS ACUTUS (HARD-STEM BULRUSH)
- SCHOENOPLECTUS TABERNAEMONTANI (SOFT-STEM BULRUSH)



Plan adapted by:  
LEC Environmental Consultants, Inc.  
from plan entitled;

**REVISED STORAGE AREA**

Dated: November 30, 2005  
Prepared by:

**Anthony P. Salamanca P.E.**

---

**Appendix D**

*17 Burnett Street, Melrose, MA 02176 Grading and Drainage Plan*  
dated October 5, 2020 and revised through March 22, 2021, prepared by RJ O'Connell & Associates, Inc.



## NOTES

- UNDERGROUND UTILITIES SHOWN ARE FROM RECORDED SURFACE INDICATIONS, SUBSURFACE INDICATIONS, AND COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY, AS OF THE DATE OF THIS SURVEY. NO INFORMATION REGARDING RECORD UTILITIES HAS BEEN PROVIDED BY ELECTRIC AND GAS PROVIDERS. BEFORE CONSTRUCTION CALL "DIG SAFE" 811.
- THIS PLAN WAS PREPARED FROM AN ACTUAL SURVEY MADE ON THE GROUND BY R.J. O'CONNELL & ASSOCIATES, INC. USING TOTAL STATION METHODS ON 09/16/2020. PROPERTY LINES DEPICTED ON THIS PLAN ARE APPROXIMATE AND COMPILED FROM AVAILABLE RECORD PLANS.
- ELEVATIONS DEPICTED ON THIS PLAN ARE BASED UPON AN ASSUMED VERTICAL DATUM. THE ASSUMED VERTICAL DATUM IS CONSISTENT WITH THAT DEPICTED ON THE PLAN ENTITLED "PROP. C.B., HW, AND REVISED GRADING LOT A, (DEP # 217-0128)", BURNETT STREET, MELROSE, MA, AS PREPARED AND STAMPED BY ANTHONY P. SALAMANCA DATED 8/18/2006.
- THE POSITIONAL ACCURACY OF THE DATA AND PHYSICAL IMPROVEMENTS ON THIS PLAN MAY BE APPROXIMATE. ANY USE OF ELECTRONIC DATA CONTAINED IN AUTOCAD VERSIONS OF THIS PLAN TO GENERATE COORDINATES OR DIMENSIONS NOT SHOWN ON THE PLAN IS NOT AUTHORIZED.
- THE PARCEL SHOWN IS LOCATED IN ZONE A (NO BASE FLOOD ELEVATION DETERMINED), AS SHOWN ON "FLOOD INSURANCE RATE MAP, MIDDLESEX COUNTY, MA," PANEL 433 OF 656, MAP NUMBER 25017C0433E, EFFECTIVE DATE JUNE 04, 2010.

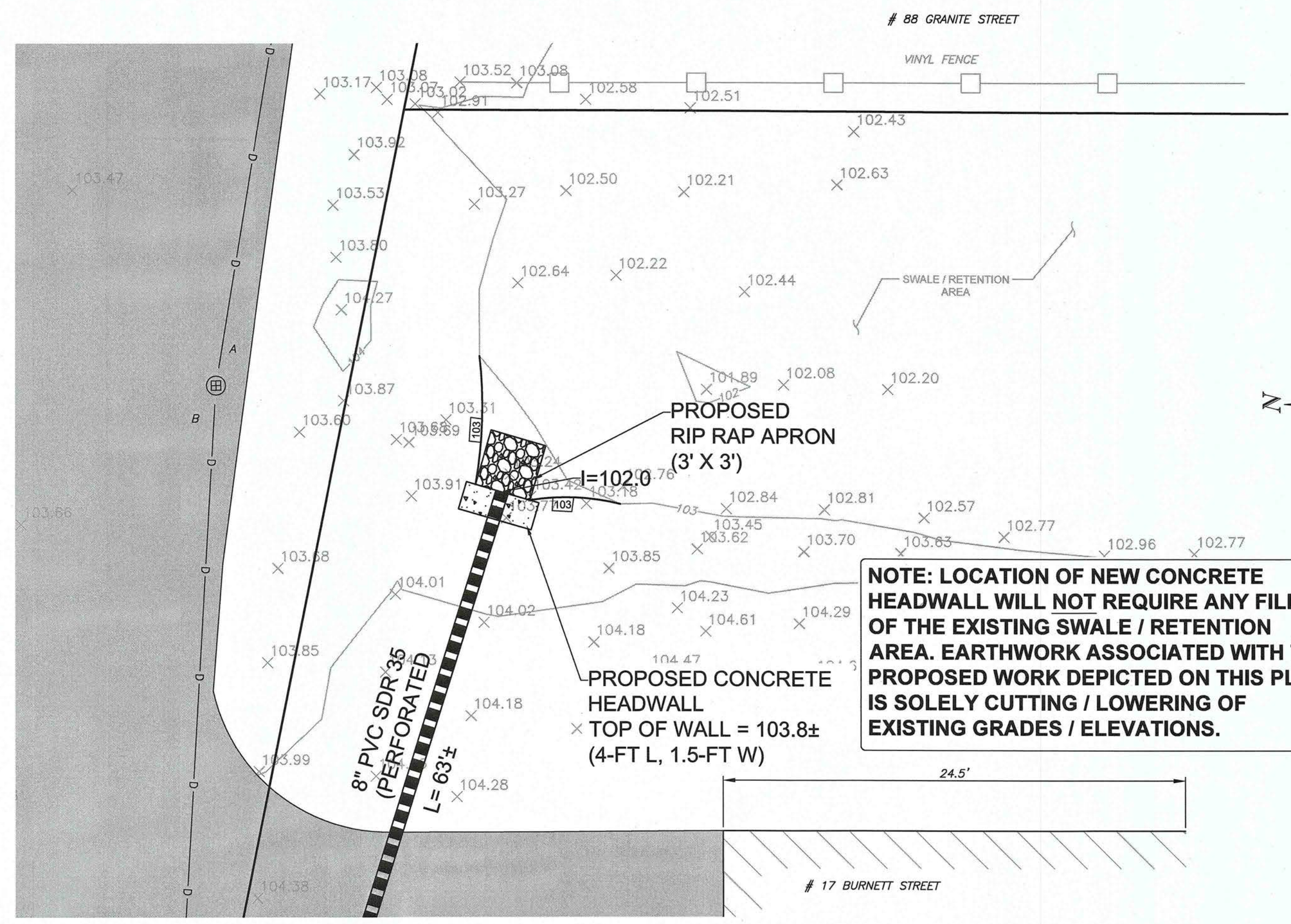
## LEGEND

(NOT ALL FEATURES CONTAINED IN THIS LEGEND APPEAR ON THE PLAN)

---	PROPERTY LINE	---	CONCRETE CURB
---	ABUTTING PROPERTY LINE	---	VERTICAL GRANITE CURB
---	EASEMENT LINE	---	BITUMINOUS CONCRETE CURB
---	SEWER SERVICE	---	HANDICAP
---	DRAIN SERVICE	---	HPDE
---	WATER SERVICE	---	HIGH DENSITY POLYETHYLENE
---	GAS LINE	---	CONC.
---	ELECTRIC LINE	---	CONCRETE
---	TELEPHONE LINE	---	LANDSCAPE AREA
---	OVERHEAD WIRES	---	DOOR
---	PROPOSED DRAIN LINE	---	SIGN
---	CHAIN LINK FENCE	---	DECIDUOUS TREE
---	STOCKADE FENCE	---	CONIFEROUS TREE
---	INDEX CONTOUR	---	FROM RECORD PLANS
---	INTERMEDIATE CONTOUR	---	PAVEMENT
---		---	DIRECTION OF FLOW WITHIN PIPE

UP	UTILITY POLE	CC	CONCRETE CURB
LP	LIGHT POLE	VCC	VERTICAL GRANITE CURB
EH	ELECTRIC HAND HOLE	BCB	BITUMINOUS CONCRETE CURB
CH	CABLE MANHOLE	HC	HANDICAP
SM	SEWER MANHOLE	HPDE	HIGH DENSITY POLYETHYLENE
DM	DRAIN MANHOLE	CONC.	CONCRETE
CB	CATCH BASIN	LSA	LANDSCAPE AREA
WV	WATER VALVE	---	DOOR
FD	FIRE HYDRANT	---	SIGN
SPR	SPRINKLER CONNECTION	---	DECIDUOUS TREE
PIV	POST INDICATOR VALVE	---	CONIFEROUS TREE
B	BOLLARD	---	FROM RECORD PLANS
GM	GAS METER	---	PAVEMENT
GV	GAS VALVE	---	DIRECTION OF FLOW WITHIN PIPE
RD	ROOF DRAIN	---	
AD	AREA DRAIN	---	
ICV	IRRIGATION CONTROL VALVE	---	
S114.7	SPOT GRADE	---	
ACCM	ASPHALT-COATED CORRUGATED METAL	---	



### BUOYANCY CALCULATION

**VOLUME OF HEAD WALL (ASSUMING 2.0' DEPTH BELOW INVERT (ELEV. = 100.0))**  
 4'(WIDE) X 1.5' (THICK) X 3.0' (ASSUMED DEPTH SUBMERGED)  
 = 18.0 CF

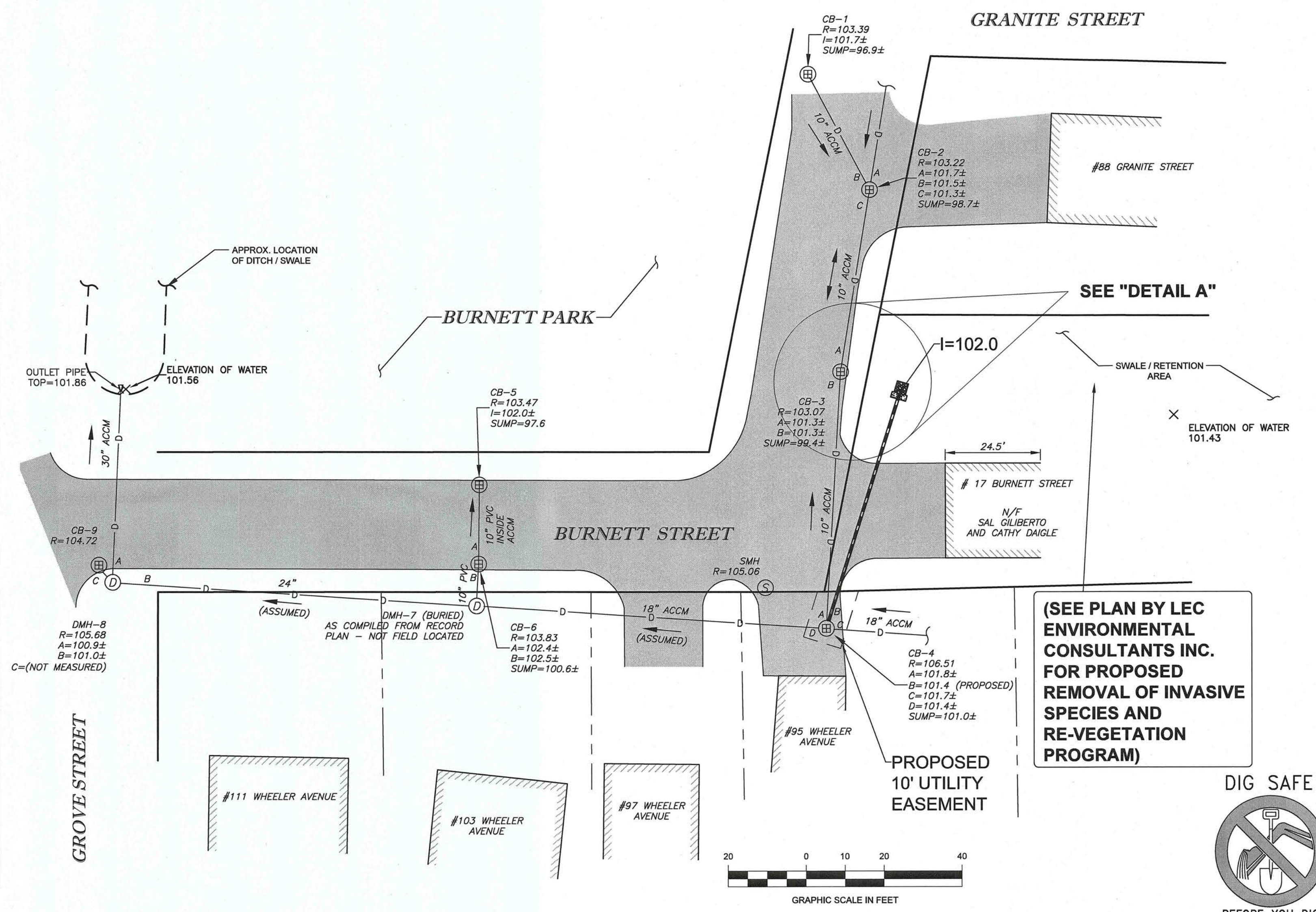
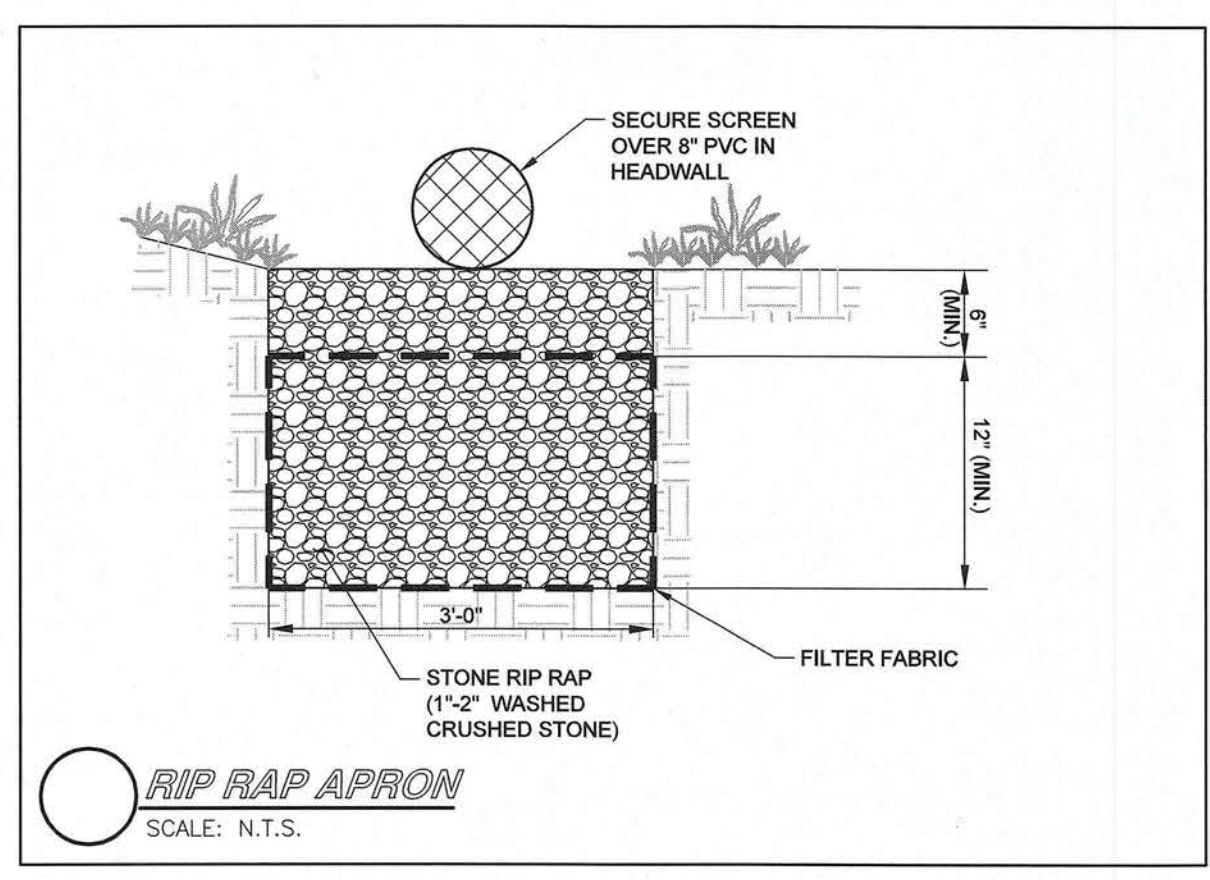
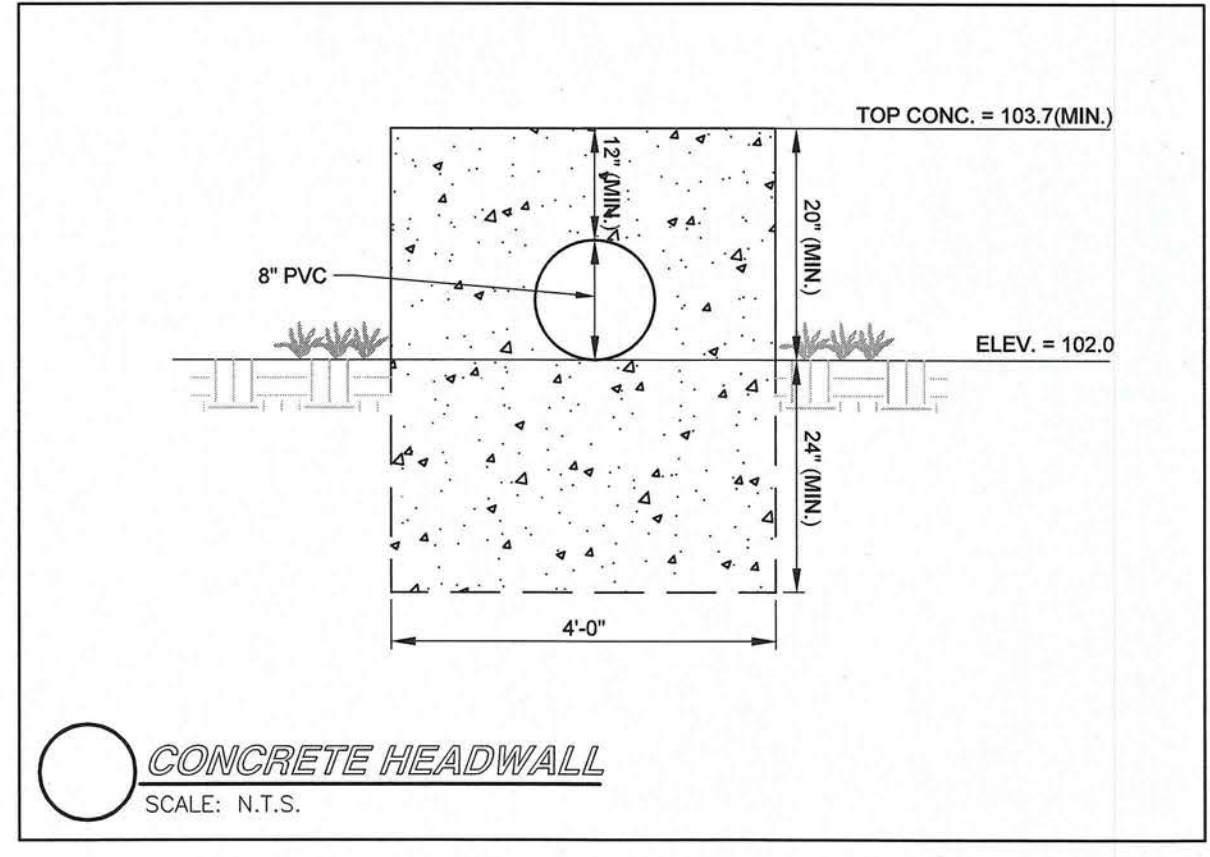
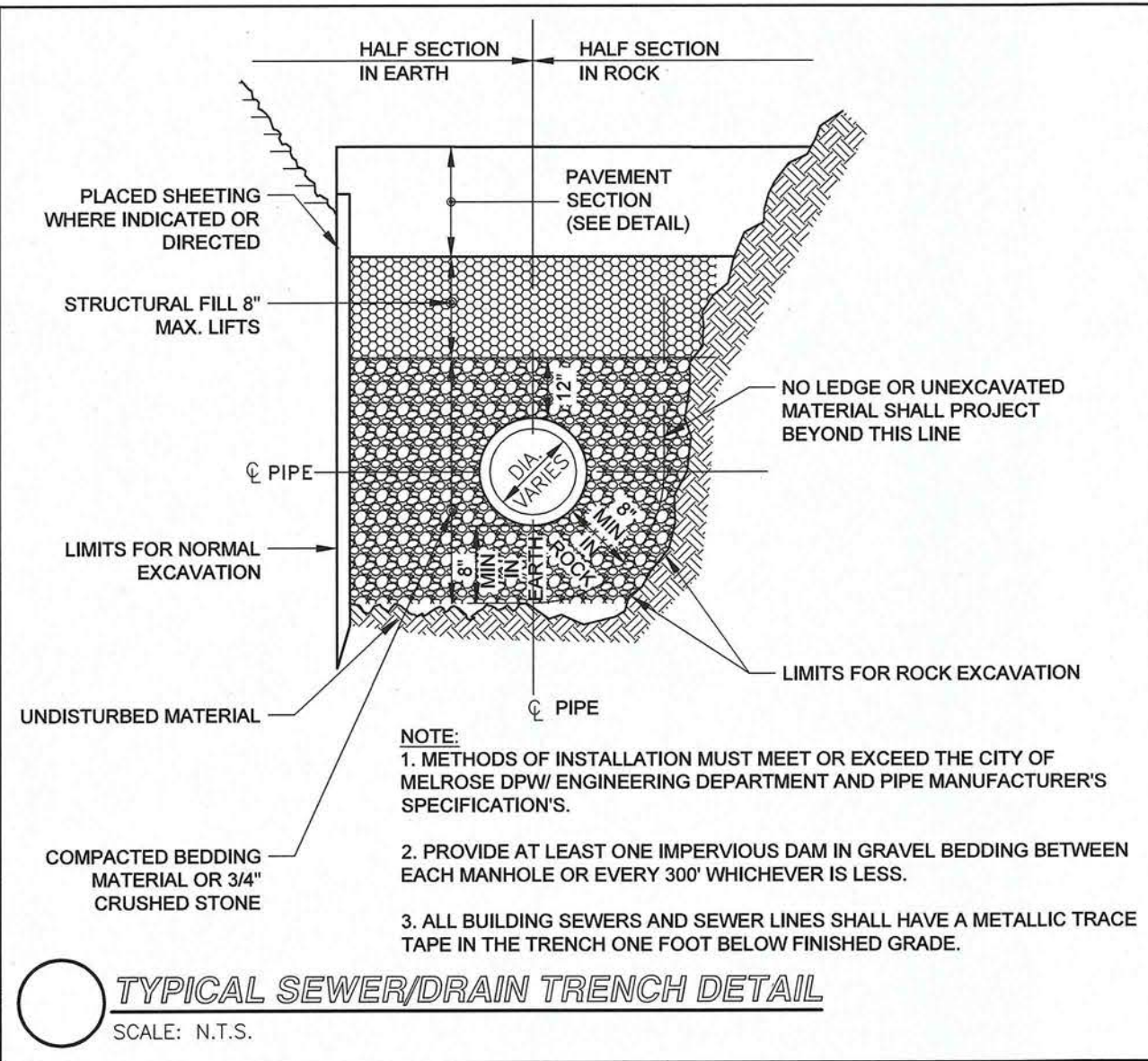
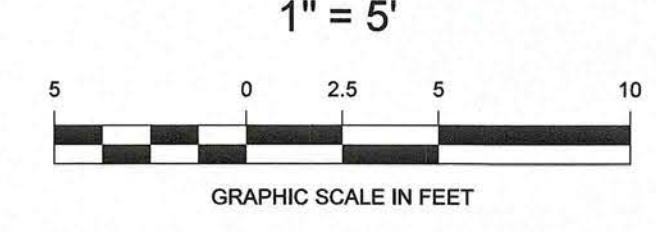
**WEIGHT OF CONCRETE HEADWALL (DOWNWARD FORCE)**  
 = (VOLUME OF HEADWALL (SUBMERGED)) X (UNIT WEIGHT OF CONCRETE)  
 = (18.0 CF) X (150 LBS/CF)  
 = 2,700 LBS

**UPWARD FORCE OF WATER**  
 = (VOLUME OF HEADWALL (SUBMERGED)) X (UNIT WEIGHT OF WATER)  
 = (18.0 CF) X (62.4 LBS/CF)  
 = 1,123 LBS

**FACTOR OF SAFETY**  
 = (DOWNWARD FORCE) / (UPWARD FORCE)  
 = (2,700 LBS) / (1,123 LBS)  
 = 2.40 FACTOR OF SAFETY

**NOTE: LOCATION OF NEW CONCRETE HEADWALL WILL NOT REQUIRE ANY FILLING OF THE EXISTING SWALE / RETENTION AREA. EARTHWORK ASSOCIATED WITH THE PROPOSED WORK DEPICTED ON THIS PLAN IS SOLELY CUTTING / LOWERING OF EXISTING GRADES / ELEVATIONS.**

### DETAIL A



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 17 BURNETT STREET  
 MELROSE, MA 02176

PROJECT NAME:  
**17 BURNETT STREET**  
 MELROSE, MA 02176

SEAL:  
  
 BRIAN W. TIMM  
 No. 48120  
 CIVIL ENGINEER  
 PROFESSIONAL ENGINEER  
 3/29/2021

DESIGNED BY: BWT  
 DRAWN BY: CMM/JBJ  
 REVIEWED BY: BWT  
 SCALE: AS NOTED  
 DATE: 03/29/2021  
 DRAWING NAME:

## GRADING AND DRAINAGE PLAN

DRAWING NUMBER:  
**C-1**

PROJECT NUMBER:  
 20060