

EcoTec, Inc.
ENVIRONMENTAL CONSULTING SERVICES
102 Grove Street
Worcester, MA 01605-2629
508-752-9666 – Fax: 508-752-9494

March 25, 2024

Leicester Conservation Commission
3 Washburn Square,
Leicester, MA 01524

RE: 74 King Street, Leicester

Subject: Notice of Intent under the Massachusetts Wetlands Protection Act and Leicester Wetland Protection Bylaw: for the Proposed Construction of a Single-Family Home, Paved Driveway, Septic System, and Associated Site Work, located at 74 King Street, (Map: 37 Parcel: C12-0,) Leicester, Massachusetts; Applicant: Stephan Antanavica, Antanavica Construction

To the Commission:

Enclosed please find two (2) copies of the Notice of Intent filed under the Massachusetts Wetlands Protection Act and the Leicester local wetlands Bylaw for the above-referenced property. Also enclosed, please find a check in the amount of \$262.50 to cover the town share of the filing fee under the Act, and a check in the amount of \$175.00 to cover the Bylaw filing fee. Please note that EcoTec will pay for the Legal Advertisement promptly upon notification of the cost of the advertisement, at your direction, with information to be provided by the Commission. This filing comprises:

This filing is comprised of:

1. This cover letter;
2. WPA Form 3, Notice of Intent Form; with all required attachments and copies of WPA checks
3. Certified Abutters List, Form of Abutter Notice, see Affidavit of Service below;
4. Wetland Resource Evaluation report by EcoTec dated March 7, 2024, including:
 - a. USGS Map, with site indicated;
 - b. Flood Insurance Rate Map FIRMette, with site indicated;
 - c. NHESP Atlas, including Estimated Habitats of Rare Wetlands Wildlife and Certified Vernal Pools, from MassGIS Datalayer with site indicated; and
 - d. BVW delineation field forms.
5. Site Plan titled "Proposed Subsurface Sewage Disposal System" by Finlay Engineering Services dated February 8, 2024, signed, and stamped by John E. Finlay, II, PE.

One copy of this filing has been submitted by email to the Central Regional Office of the Department of Environmental Protection. A payment of \$237.50 has been sent to the DEP lockbox.

Affidavit of service to abutters: In compliance with the Act and Bylaw, all abutters to the site will be notified of this filing. The list of abutters, and the form by which the abutters were notified, are included in the filing. Proof of mailing will be provided to the Commission.

The applicant is seeking an Order of Conditions for the proposed construction of a single-family house, a paved driveway, a septic system, a well, a footing drain, grading, utilities, and associated site work. The work is proposed within the 100-foot Buffer Zone to a Bordering Vegetated Wetland at the site, but the limit of work is located outside of the 25-foot No-Disturbance Zone under the Leicester Wetland Protection Bylaw/Bylaw Regulations. The proposed work is also located outside of the 200-foot Riverfront Area to the perennial stream on the site. The septic system leach-field, the proposed driveway, proposed well, and the foundation to the house are all located greater than 50-feet from the wetland at the site. Erosion control barriers will be installed at the limit of work and will be maintained until final site stabilization and approval from the Leicester Conservation Commission.

The following is a general construction sequence that will be implemented for the house construction and final stabilization at the site.

1. Install silt fence and straw wattle erosion control and sediment barriers prior to commencement of earth work;
2. Excavate for foundation/slab and septic system. Immediately temporarily stabilize exposed soils where earth disturbing activities have/will cease for more than 14 days;
3. Form and pour foundation/slab, Install septic system;
4. Backfill foundation/slab and complete rough grading. Temporarily stabilize exposed soils as necessary with hydromulch (min. 2,200 lbs/acre), wood mulch, hay mulch (2 bales/1,000 sf), or similar;
5. Construct house, including framing, roofing, siding and interior;
6. Connect underground utilities;
7. Complete grading, pave driveway.
8. Conduct final cleanup of wood scraps, building materials, etc.;
9. Loam and seed lawn area. Use sod, seed and erosion control blanket, or bonded fiber matrix hydroseed applied at manufacturer's recommended rate for slopes in excess of 3:1.

We look forward to meeting with the Commission regarding this filing. If you have any questions, please feel free to contact me at any time.

Cordially,
ECOTEC, INC.



Kate O'Donnell, WPIT
Environmental Scientist

C: DEP-CERO
Applicant: Antanavica Construction



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):

King Street	Leicester	01524
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	42.215587,	-71.903437
	d. Latitude	e. Longitude
37	C12 0	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

Stephen	Antanavica	
a. First Name	b. Last Name	
Antanavica Construction		
c. Organization		
208 Pine Street		
d. Street Address		
Leicester	MA	01524
e. City/Town	f. State	g. Zip Code
508-892-8540	-	gwen@antanavica.net
h. Phone Number	i. Fax Number	j. Email Address

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

Judith	Antanavica	
a. First Name	b. Last Name	
-		
c. Organization		
208 Pine Street		
d. Street Address		
Leicester	MA	01524
e. City/Town	f. State	g. Zip Code
508-892-8540	-	gwen@antanavica.net
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

Kate	O'Donnell	
a. First Name	b. Last Name	
EcoTec, Inc.		
c. Company		
102 Grove Street		
d. Street Address		
Worcester	MA	01605
e. City/Town	f. State	g. Zip Code
508-752-9666 x228	-	kodonnell@ecotecinc.com
h. Phone Number	i. Fax Number	j. Email address

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

\$500.00	\$262.50	\$237.50
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:

Construction of a single-family house, a well, a paved driveway, a septic system, and associated site work within the 100-foot Buffer Zone to a Bordering Vegetated Wetland. The limit of work is located approximately 25-feet from the wetland. The septic system leachfield is located greater than 50-feet from the wetland. Erosion control barriers will be installed and maintained until final site stabilization.

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 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:

Worcester

a. County

52839,

c. Book

-

b. Certificate # (if registered land)

45

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 type="checkbox"/> Bordering Vegetated Wetland	- 1. square feet	- 2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	- 1. square feet - 3. cubic yards dredged	- 2. square feet

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

2. Width of Riverfront Area (check one):

- ☐ 25 ft. - Designated Densely Developed Areas only
- ☐ 100 ft. - New agricultural projects only
- ☐ 200 ft. - All other projects

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

4. Proposed alteration of the Riverfront Area:

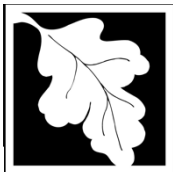
-	-	-
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

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

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

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

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



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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	

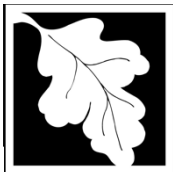
4. ☐ Restoration/Enhancement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

-	-
a. square feet of BVW	b. square feet of Salt Marsh

5. ☐ Project Involves Stream Crossings

-	-
a. number of new stream crossings	b. number of replacement stream crossings



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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

August 1, 2021

b. Date of map

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

- c. Submit Supplemental Information for Endangered Species Review*

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

(a) within wetland Resource Area

-

percentage/acreage

(b) outside Resource Area

-

percentage/acreage

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

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

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

(b) ☐ Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/mas-endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

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



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

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

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

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

- (d) ☐ Vegetation cover type map of site

- (e) ☐ Project plans showing Priority & Estimated Habitat boundaries

- (f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing. - a. NHESP Tracking # - b. Date submitted to NHESP

3. ☐ Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. ☒ Not applicable – project is in inland resource area only b. ☐ Yes ☐ No

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

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

North Shore - Plymouth to New Hampshire border:

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

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

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

- c. ☐ Is this an aquaculture project? d. ☐ Yes ☐ No

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



Massachusetts Department of Environmental Protection
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WPA Form 3 – Notice of Intent

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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.

"Proposed Subsurface Sewage Disposal System"

a. Plan Title

Finlay Engineering Services

John E. Finlay, II, PE

b. Prepared By

c. Signed and Stamped by

2/8/2024

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:

6096

3/20/2024

2. Municipal Check Number

3. Check date

6097

3/20/2024

4. State Check Number

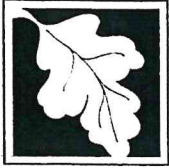
5. Check date

Antanavica Construction Co., Inc.

-

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
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Provided by MassDEP:

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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	3-20-24
2. Date	
3. Signature of Property Owner (if different)	3-20-24
4. Date	
5. Signature of Representative (if any)	3/25/2024
	6. Date

For Conservation Commission:

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

For MassDEP:

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

Other:

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

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



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

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



A. Applicant Information

1. Location of Project:

King Street

a. Street Address

State: 6097, Local: 6096

c. Check number

Leicester

b. City/Town

State: \$237.50, Total: \$500.00

d. Fee amount

2. Applicant Mailing Address:

Stephan

a. First Name

Antanavica Construction

c. Organization

208 Pine Street

d. Mailing Address

Leicester

e. City/Town

508-892-8540

h. Phone Number

-

i. Fax Number

MA

f. State

01524

g. Zip Code

gwen@ananavica.net

j. Email Address

3. Property Owner (if different):

Judith

a. First Name

-

c. Organization

208 Pine Street

d. Mailing Address

Leicester

e. City/Town

508-892-8540

h. Phone Number

-

i. Fax Number

MA

f. State

01524

g. Zip Code

gwen@ananavica.net

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).



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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2.a. Const. S/F house	1	\$500.00	\$500.00
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Step 5/Total Project Fee:			\$500.00

Step 6/Fee Payments:

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 filing Fee:	\$262.50
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
Box 4062
Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

SECURITY FEATURES INCLUDE TRUE WATERMARK PAPER, HEAT SENSITIVE ICON AND FOIL HOLOGRAM.



ANTANAVICA CONSTRUCTION CO., INC.
208 PINE ST
LEICESTER, MA 01524
508-892-8540

6097
53-7173/2113

DATE 3-20-24

PAY
TO THE
ORDER OF

Commonwealth of Massachusetts

Two Hundred Thirty Seven and 50/100

\$ 237.50

DOLLARS



CORNERSTONE BANK
MAIN ST
SPENCER, MA

S. Chana

FOR King St WPA Fee

SECURITY FEATURES INCLUDE TRUE WATERMARK PAPER, HEAT SENSITIVE ICON AND FOIL HOLOGRAM.



ANTANAVICA CONSTRUCTION CO., INC.
208 PINE ST
LEICESTER, MA 01524
508-892-8540

6096
53-7173/2113

DATE 3-20-24

PAY
TO THE
ORDER OF

Town of Leicester

Two Hundred Sixty Two and 50/100

\$ 262.50

DOLLARS



CORNERSTONE BANK
MAIN ST
SPENCER, MA

S. Chana

FOR King St WPA Fee

SECURITY FEATURES INCLUDE TRUE WATERMARK PAPER, HEAT SENSITIVE ICON AND FOIL HOLOGRAM.



ANTANAVICA CONSTRUCTION CO., INC.
208 PINE ST
LEICESTER, MA 01524
508-892-8540

6095
53-7173/2113

DATE 3-20-24

PAY
TO THE
ORDER OF

Town of Leicester

One Hundred Seventy Five and XX/100

\$ 175.00

DOLLARS



CORNERSTONE BANK
MAIN ST
SPENCER, MA

S. Chana

FOR Bylaw Fee King St.



Notification of Abutters Under the
Massachusetts Wetlands Protection Act and the Town of Leicester Wetlands Bylaw

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

- A. The name of the applicant is Antanavica Construction.
- B. The applicant has filed a Notice of Intent with the Conservation Commission for the municipality of Leicester seeking permission to construct a single-family house, paved driveway, septic system, and associated site work within the 100-foot Buffer Zone to an Area Subject to Protection Under the Wetlands Protection Act (General Laws Chapter 131, Section 40) and the Town of Leicester Wetlands Bylaw.
- C. The address where the planned activity will take place is King Street, Leicester.
- D. Copies of the Notice of Intent may be examined and obtained by making an appointment at EcoTec, Inc., 102 Grove Street, Worcester, MA, during regular business hours.

For more information call or email Kate O'Donnell of EcoTec at (508) 752-9666 x228 or kodonnell@ecotecinc.com to make an appointment to review the filing materials. This is the applicant's representative.

- E. Information regarding the date, time and place of the public hearing may be obtained from EcoTec, Inc., by calling this telephone number (508) 752-9666 during regular business hours, or by calling the Leicester Conservation Commission at: (508) 892-7007.

NOTE: Notice of the public hearing, including the date, time and place will be published at least five (5) days in advance in the Worcester Telegram & Gazette or other local newspaper.

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

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

Central Region: 508-792-7650



300 feet Abutters List Report

Leicester, MA
March 13, 2024

Subject Property:

Parcel Number: 37-C12-0
CAMA Number: 37-C12-0
Property Address: KING ST

Mailing Address: ANTANAVICA THEODORE P
208 PINE ST
LEICESTER, MA 01524

Abutters:

Parcel Number: 31-A5-0
CAMA Number: 31-A5-0
Property Address: PETER SALEM RD

Mailing Address: GIGUERE LENOERA M TRUSTEE VAN
HOOK IRREVOCABLE TRUST
360 HENSHAW ST
LEICESTER, MA 01524-1251

Parcel Number: 37A-A16-0
CAMA Number: 37A-A16-0
Property Address: 65 KING ST

Mailing Address: SMYTH JR GREGORY J SMYTH DENISE
J
65 KING ST
LEICESTER, MA 01524

Parcel Number: 37A-A17-0
CAMA Number: 37A-A17-0
Property Address: 67 KING ST

Mailing Address: HARRIS ROBERT M JR HARRIS JANE
M
67 KING ST
LEICESTER, MA 01524-1258

Parcel Number: 37-B1.1-0
CAMA Number: 37-B1.1-0
Property Address: 69 KING ST

Mailing Address: LAUDER ROBERT LAUDER ROBIN
BOX 96
ROCHDALE, MA 01542-0096

Parcel Number: 37-B1.3-0
CAMA Number: 37-B1.3-0
Property Address: 71 KING ST

Mailing Address: SULLIVAN KEVIN D SULLIVAN MARTHA
71 KING ST
LEICESTER, MA 01524

Parcel Number: 37-B1-0
CAMA Number: 37-B1-0
Property Address: KING ST

Mailing Address: DICENTES JAMES P
1 GOLDEN ROAD
LEICESTER, MA 01524

Parcel Number: 37-C1.1-0
CAMA Number: 37-C1.1-0
Property Address: 68 KING ST

Mailing Address: STEPHENS JAMES P STEPHENS
CELESTE
68 KING ST
LEICESTER, MA 01524

Parcel Number: 37-C1.2-0
CAMA Number: 37-C1.2-0
Property Address: 66 KING ST

Mailing Address: DEANDRADE LETICIA LOPEZ KEVIN
66 KING ST
LEICESTER, MA 01524

Parcel Number: 37-C1.3-0
CAMA Number: 37-C1.3-0
Property Address: 64 KING ST

Mailing Address: SWEENEY DAVID A BARRETT ELLEN M
64 KING ST
LEICESTER, MA 01524

Parcel Number: 37-C1.6-0
CAMA Number: 37-C1.6-0
Property Address: 66 A KING ST

Mailing Address: STUART JR ROBERT R
66A KING STREET
LEICESTER, MA 01524



www.cai-tech.com

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



300 feet Abutters List Report

Leicester, MA
March 13, 2024

Parcel Number: 37-C10-0
CAMA Number: 37-C10-0
Property Address: 231 CLARK ST

Mailing Address: PROVO BRUCE F PROVO GAIL M
231 CLARK STREET
ROCHDALE, MA 01542

Parcel Number: 37-C13.1-0
CAMA Number: 37-C13.1-0
Property Address: 78 KING ST

Mailing Address: LAFAYETTE PAUL K LAFAYETTE
SHANNON K
78 KING STREET
LEICESTER, MA 01524

Parcel Number: 37-C13.4-0
CAMA Number: 37-C13.4-0
Property Address: 247 CLARK ST

Mailing Address: RICHARDS JOHN H
247 CLARK ST
ROCHDALE, MA 01542

Parcel Number: 37-C13.5-0
CAMA Number: 37-C13.5-0
Property Address: 245 CLARK ST

Mailing Address: BERARD WAYNE C BERARD DEBORAH
L
245 CLARK ST
ROCHDALE, MA 01542

Parcel Number: 37-C13-0
CAMA Number: 37-C13-0
Property Address: 76 KING ST

Mailing Address: BUCKLEY THOMAS E BUCKLEY LINDA J
76 KING ST
LEICESTER, MA 01524

Parcel Number: 37-D4-0
CAMA Number: 37-D4-0
Property Address: 240 CLARK ST

Mailing Address: GUSTAFSON PAUL L
240 CLARK ST
ROCHDALE, MA 01542

Parcel Number: 37-D5-0
CAMA Number: 37-D5-0
Property Address: CLARK ST

Mailing Address: FITZGERALD ANITA E AIJALA MARIA E,
RONALD M
48 TROLLEY CROSSING LN
MIDDLETOWN, CT 06456

Parcel Number: 37-D6.7-0
CAMA Number: 37-D6.7-0
Property Address: CLARK ST

Mailing Address: G&C REAL ESTATE LLC
25 WATERTOWN LANE
SHREWSBURY, MA 01545

Above is a certified list of abutters and abutters to abutters within 300 feet of subject.

Subject property: Assessors Map 37-C12-0 Deed Ref. 52839/45

Subject owner(s): Theodore P Antanavica

Prepared by: John Stencil, Department Assistant



www.cai-tech.com

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3/13/2024

Page 2 of 2

EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street
Worcester, MA 01605-2629
508-752-9666 – Fax: 508-752-9494

March 7, 2024

Steve Antanavica
Antanavica Construction
208 Pine Street
Leicester, MA 01524

RE: Wetland Resource Evaluation, 74 King Street, Leicester, Massachusetts

Dear Mr. Tivnan:

On January 3, 2018, EcoTec, Inc. inspected the above-referenced property for the presence of wetland resources as defined by: (1) the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40; the “Act”) and its implementing regulations (310 CMR 10.00 *et seq.*; the “Regulations”); (2) the U.S. Clean Water Act (i.e., Section 404 and 401 wetlands); and (3) the Town of Leicester Wetlands Protection Bylaw. Scott Morrison, RPSS conducted the 2018 inspection.

On March 6, 2024, EcoTec re-inspected the delineated wetland resource area boundaries in proximity to the proposed limit of work as shown on the “Proposed Subsurface Sewage Disposal System Prepared for Antanavica Construction Co., Inc.” by Finlay Engineering Services dated February 8, 2024. Kate O’Donnell, WPIT and Art Allen, CWS, CPSS, conducted the inspection. On the date of the inspection in 2024, the perennial stream at the site was flooded due to recent rain and EcoTec was unable to reflag the stream. Therefore, we are deferring to the previously delineated stream location and associated Riverfront Area setbacks.

The subject site consists of an 8-acre parcel located to the south of King Street and east of Grindstone Brook. The upland portions of the site consist of undeveloped forest. Plant species observed include northern red oak (*Quercus rubra*), white oak (*Quercus alba*), eastern white pine (*Pinus strobus*), black cherry (*Prunus serotina*), red maple (*Acer rubrum*), white ash (*Fraxinus americana*), black birch (*Betula lenta*), and sassafras (*Sassafras albidum*) trees and/or saplings; poison ivy (*Toxicodendron radicans*) climbing woody vines; American witch-hazel (*Hamamelis virginiana*), highbush blueberry (*Vaccinium corymbosum*), mountain laurel (*Kalmia latifolia*), eastern red cedar (*Juniperus virginiana*), American hazel-nut (*Corylus americana*), black huckleberry (*Gaylussacia baccata*), and maple-leaf viburnum (*Viburnum acerifolium*) shrubs; and sheep-laurel (*Kalmia angustifolia*), lowbush blueberry (*Vaccinium angustifolium*), wild sarsaparilla (*Aralia nudicaulis*), tree clubmoss (*Lycopodium obscurum*), trailing clubmoss (*Lycopodium complanatum*), bracken fern (*Pteridium aquilinum*), hayscented fern (*Dennstaedtia punctilobula*) and wild-lily-of-the-valley (*Maianthemum canadense*) ground cover. The wetland resources observed on the site are described below.

Methodology

The site was inspected, and areas suspected to qualify as wetland resources were identified. The boundary of Bordering Vegetated Wetlands was delineated in the field in accordance with the definition set forth in the regulations at 310 CMR 10.55(2)(c). Section 10.55(2)(c) states that “The boundary of Bordering Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist.” The methodology used to delineate Bordering Vegetated Wetlands is further described in the Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands, Second Edition, produced by the Massachusetts Department of Environmental Protection, dated September 2022. The plant taxonomy used in this report is based on the *National List of Plant Species that Occur in Wetlands: Massachusetts* (Fish and Wildlife Service, U.S. Department of the Interior, 1988). Federal wetlands were presumed to have boundaries conterminous with the delineated Bordering Vegetated Wetlands. One set of DEP Bordering Vegetated Wetland Delineation Field Data Forms completed for observation plots located in the wetlands and uplands near flag A-47 is attached. The table below provides the Flag Numbers, Flag Type, and Wetland Types and Locations for the delineated wetland resources.

Flag Numbers	Flag Type	Wetland Types and Locations
Start A1 to A67 Stop	Blue Flags	Boundary of Bordering Vegetated Wetlands located in the central portion of the site that is associated with Grindstone Brook.
Start B1 to B18 Stop	Blue Flags	Boundary of Bordering Vegetated Wetlands located in the central portion of the site that is associated with Grindstone Brook.
Start R1 to R24 Connect to culvert	Red Flags	Mean Annual High-water Line (MAHWL) of Grindstone Brook located in the western portion of the site.

Findings

Wetland A and B (i.e., flags A1 to A67 and B1 to B18) consists of a forested swamp located in the western and southern portions of the site that is associated with a perennial stream. Plant species observed include red maple (*Acer rubrum*), yellow birch (*Betula alleghaniensis*), gray birch (*Betula populifolia*), and American elm (*Ulmus americana*) trees and/or saplings; poison ivy (*Toxicodendron radicans*) and common greenbrier (*Smilax rotundifolia*) climbing woody vines; highbush blueberry (*Vaccinium corymbosum*), common winterberry (*Ilex verticillata*), arrow-wood (*Viburnum dentatum*), withe-rod (*Viburnum cassinoides*), northern spicebush (*Lindera benzoin*), swamp rose (*Rosa palustris*), speckled alder (*Alnus rugosa*), silky dogwood (*Cornus amomum*), maleberry (*Lyonia ligustrina*), fetter-bush (*Leucothoe racemosa*), glossy buckthorn (*Rhamnus frangula*), sweet pepper-bush (*Clethra alnifolia*), swamp azalea (*Rhododendron viscosum*), and American elderberry (*Sambucus canadensis*) shrubs; and sheep-laurel (*Kalmia angustifolia*), bristly blackberry (*Rubus hispidus*), cinnamon fern (*Osmunda cinnamomea*), royal fern (*Osmunda regalis*), sensitive fern (*Onoclea sensibilis*), spotted touch-me-not (*Impatiens capensis*), and sphagnum moss (*Sphagnum sp.*) ground cover. Evidence of

wetland hydrology, including hydric soils, high groundwater, saturated soils, and evidence of flooding, was observed within the delineated wetland. This vegetated wetland borders a perennial stream; accordingly, the vegetated wetlands would be regulated as Bordering Vegetated Wetlands and the perennial stream would be regulated as Bank and Land Under Water Bodies and Waterways under the Act and Bylaw. A 100-foot Buffer Zone extends horizontally outward from the edge of Bordering Vegetated Wetlands under the Act and Bylaw.

Bordering Land Subject to Flooding is an area that floods due to a rise in floodwaters from a bordering waterway or water body. Where flood studies have been completed, the boundary of Bordering Land Subject to Flooding is based upon flood profile data prepared by the National Flood Insurance Program. Section 10.57(2)(a)3. states that “The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm.” Based upon a review of the Flood Insurance Rate Map, Worcester County, Massachusetts, Map Number 25027C0784F, Effective Date June 21, 2023, there is a mapped Zone A (i.e., 100-year floodplain with an unspecified flood elevation) located throughout a portion of the site. The project engineer should evaluate the most recent National Flood Insurance Program flood profile data to determine if Bordering Land Subject to Flooding occurs on the site. Bordering Land Subject to Flooding would occur in areas where the 100-year flood elevation is located outside of or upgradient of the delineated Bordering Vegetated Wetlands boundary. Bordering Land Subject to Flooding does not have a Buffer Zone under the Act.

The Massachusetts Rivers Protection Act amended the Act to establish an additional wetland resource area: Riverfront Area. Based upon a review of the current USGS Map (i.e., Worcester South Quadrangle, dated 1983, attached), a stream (Grindstone Brook) that is shown as perennial is located in the western portion of the site. Streams that are shown as perennial on the current USGS map are designated perennial under the Massachusetts Wetlands Protection Act regulations. Unless this perennial designation is overcome, Riverfront Area is presumed to extend 200 feet horizontally upgradient from the mean annual high-water line of the stream. Section 10.58(2)(a)2. states that the “Mean annual high-water line of a river is the line that is apparent from visible markings or changes in the character of soils or vegetation due to prolonged presence of water and that distinguishes between predominantly aquatic and predominantly terrestrial land. Field indicators of bankfull conditions shall be used to determine the mean annual high-water line. Bankfull field indicators include but are not limited to: changes in slope, changes in vegetation, stain lines, top of pointbars, changes in bank materials, or bank undercuts.” Section 10.58(2)(a)2.a. states that “In most rivers, the first observable break in slope is coincident with bankfull conditions and the mean annual high-water line.” The mean annual high-water line of the stream was delineated in the field with flags R1 to R24 based upon the above-referenced regulation. Furthermore, based upon a review of the current USGS Map and observations made during the site inspection, there are no other mapped or unmapped streams located within 200 feet of the site. Accordingly, except as noted above, Riverfront Area would not occur on the site. Riverfront Area does not have a Buffer Zone under the Act, but may overlap other wetland resources and their Buffer Zones.

The Regulations require that no project may be permitted that will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures set forth at 310 CMR 10.59. Based upon a review of the *Massachusetts Natural Heritage Atlas*, 15th edition, Priority Habitats and Estimated Habitats, valid from August 1, 2021, there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq.*)], Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; “MESA”) and MESA Regulations (321 CMR 10.00 *et seq.*)], or Certified Vernal Pools on or in the immediate vicinity of the site. A copy of this map is attached.

The reader should be aware that the regulatory authority for determining wetland jurisdiction rests with local, state, and federal authorities. A brief description of my experience and qualifications is attached. If you have any questions, please feel free to contact me at any time.

Cordially,
ECOTEC, INC.

A handwritten signature in cursive script that reads "Kate O'Donnell".

Kate O'Donnell, WPIT
Environmental Scientist

Attachments (12 pages)

KO/E/P/LeicesterKingSt74_WetlandReport

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 74 King Street City/Town: Leicester Sampling Date: 1/3/2018
 Applicant/Owner: _____ Sampling Point or Zone: A47 -UPLAND
 Investigator(s): Scott Morrison, EcoTec, Inc. Latitude / Longitude: _____
 Soil Map Unit Name: _____ NWI or DEP Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks)
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? (If yes, explain in Remarks)
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetlands hydrology present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:			

HYDROLOGY

Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
<input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	<input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size <u>30</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name						
1. red oak	Quercus rubra	FACU	40.0	Yes	No		
2. white oak	Quercus alba	FACU	30.0	Yes	No		
3. red maple	Acer rubrum	FAC	20.0	Yes	Yes		
4.							
5.							
6.							
7.							
8.							
9.							
				<u>90.0</u> = Total Cover			
<u>Shrub/Sapling Stratum</u>		Plot size <u>15</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name						
1. witch hazel	Hamamelis virginiana	FAC	40.0	Yes	No		
2. mountain laurel	Kalmia latifolia	FACU	30.0	Yes	No		
3. highbush blueberry	Vaccinium corymbosum	FACW	20.0	No	Yes		
4. white oak	Quercus alba	FACU	20.0	No	No		
5. red maple	Acer rubrum	FAC	20.0	No	Yes		
6.							
7.							
8.							
9.							
				<u>130.0</u> = Total Cover			
<u>Herb Stratum</u>		Plot size <u>5</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name						
1. white pine	Pinus strobus	FACU	20.0	Yes	No		
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
				<u>20.0</u> = Total Cover			

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>30</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1.					
2.					
3.					
4.					
<u>0.0</u> = Total Cover					

Rapid Test: Do all dominant species have an indicator status of OBL or FACW? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up $\geq 50\%$ of dominant plant species? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	6	1		
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species	0	X 1	= 0.00
	FACW species	20	X 2	= 40.00
	FAC species	80	X 3	= 240.00
	FACU species	140	X 4	= 560.00
	UPL species	0	X 5	= 0.00
	Column Totals	(A) 240		(B) 840
Prevalence Index		B/A = 3.50		Is the Prevalence Index ≤ 3.0 ? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland vegetation criterion met? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				

Definitions of Vegetation Strata

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

4

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 74 King Street City/Town: Leicester Sampling Date: 1/3/2018
 Applicant/Owner: n/a Sampling Point or Zone: A47 - WET
 Investigator(s): Scott Morrison, EcoTec, Inc. Latitude / Longitude: _____
 Soil Map Unit Name: _____ NWI or DEP Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks)
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? (If yes, explain in Remarks)
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soils criterion met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Wetlands hydrology present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:			

HYDROLOGY

Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches) _____
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
<input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	<input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u> Plot size <u>30</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. red maple	Acer rubrum	FAC	40.0	Yes	Yes
2. white pine	Pinus strobus	FACU	20.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			60.0 = Total Cover		
<u>Shrub/Sapling Stratum</u> Plot size <u>15</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. red maple	Acer rubrum	FAC	30.0	Yes	Yes
2. sweet pepperbush	Clethra alnifolia	FAC	30.0	Yes	Yes
3. highbush blueberry	Vaccinium corymbosum	FACW	30.0	Yes	Yes
4.					
5.					
6.					
7.					
8.					
9.					
			90.0 = Total Cover		
<u>Herb Stratum</u> Plot size <u>5</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1. cinnamon fern	Osmunda cinnamomea	FACW	60.0	Yes	Yes
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			60.0 = Total Cover		

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>30</u>			
		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name	Scientific name				
1.					
2.					
3.					
4.					
<u>0.0</u> = Total Cover					

Rapid Test: Do all dominant species have an indicator status of OBL or FACW? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	6	5		
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species	0	X 1	= 0.00
	FACW species	90	X 2	= 180.00
	FAC species	100	X 3	= 300.00
	FACU species	20	X 4	= 80.00
	UPL species	0	X 5	= 0.00
	Column Totals	(A) 210		(B) 560
Prevalence Index		B/A = 2.67		Is the Prevalence Index ≤ 3.0? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland vegetation criterion met? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

Definitions of Vegetation Strata

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

SOIL

[illegible]

National Flood Hazard Layer FIRMette



71°54'32"W 42°13'10"N



1:6,000

71°53'54"W 42°12'43"N

Basemap Imagery Source: USGS National Map 2023

Legend

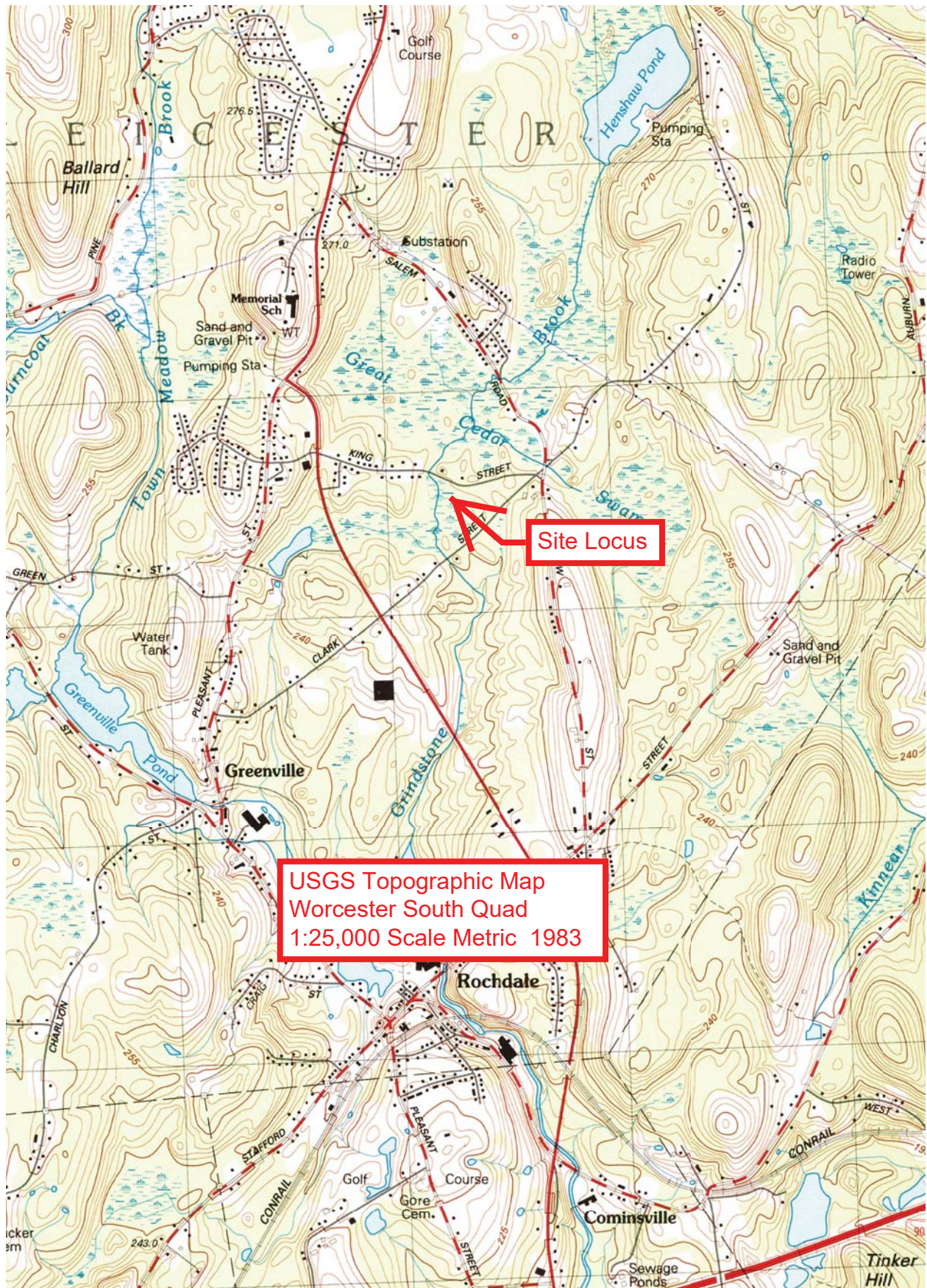
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		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
		Profile 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.

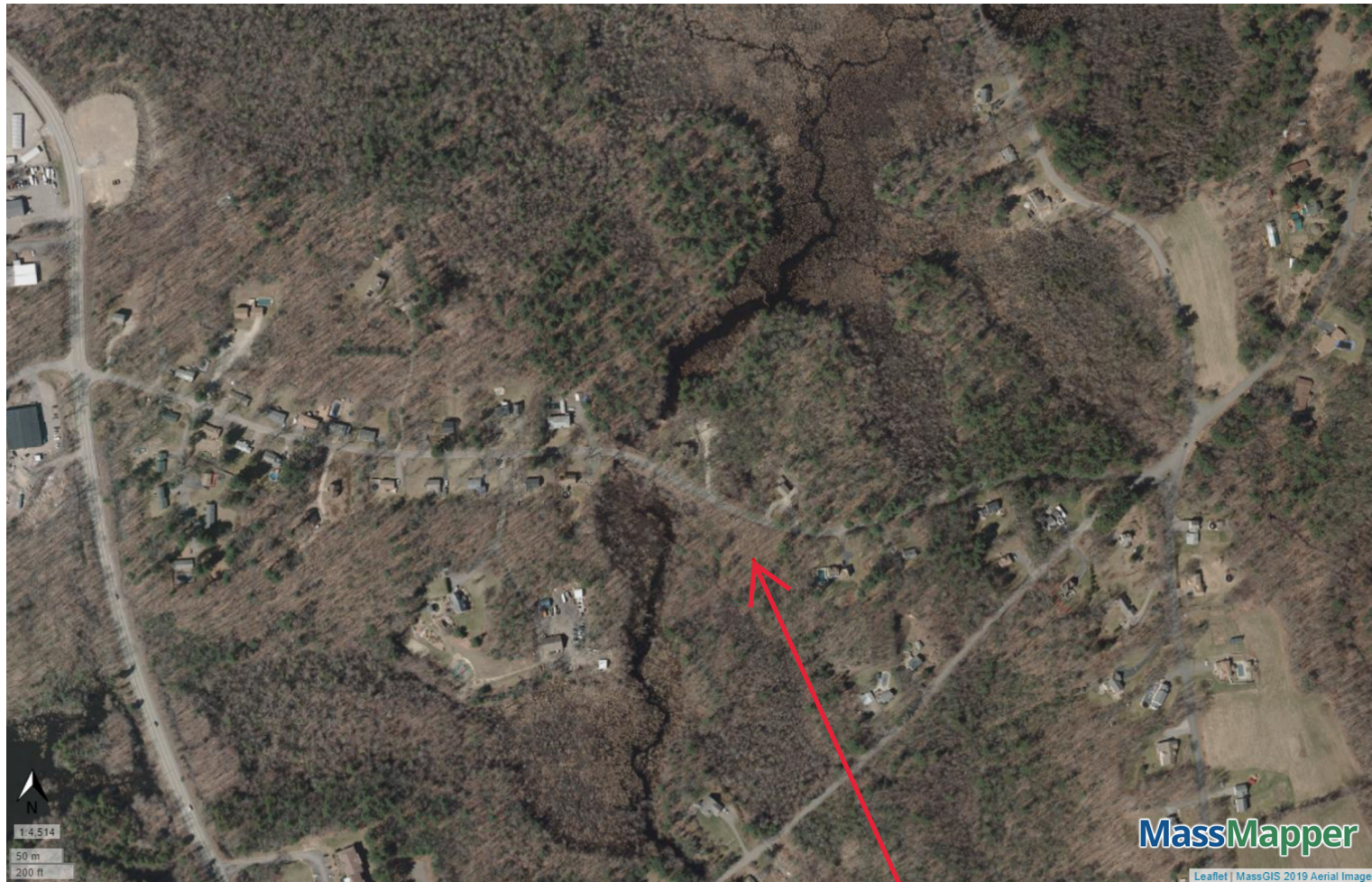
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **3/6/2024 at 12:26 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.



74 King Street Leicester - NHESP



NHESP Estimated Habitats of Rare Wildlife



NHESP Priority Habitats of Rare Species



NHESP Certified Vernal Pools



Natural Heritage Atlas Online
Data Viewer, 15th edition,
valid August 1, 2021
created: 3/6/2024
74 King Street, Leicester

Approximate site
locus

EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street
Worcester, MA 01605-2629
508-752-9666 – Fax: 508-752-9494

Kate O'Donnell, WPIT Environmental Scientist

Kate O'Donnell is an Environmental Scientist at EcoTec, Inc. Since joining EcoTec in June of 2021, her project experience includes wetland resource evaluation and delineation, as well as environmental permitting at the local, state, and federal level. She received certification as a Wetland Professional In Training (WPIT) from the International Society of Wetland Scientists (SWS) in September of 2021. Additionally, Ms. O'Donnell has experience in turbidity and erosion control monitoring, salinity sampling, wildlife habitat evaluation, stream evaluation, vernal pool evaluation and certification, preconstruction sweeps for rare species including the eastern box turtle, Stormwater Pollution Prevention Plan (SWPPP) preparation, Turtle Protection Plan preparation, Massachusetts Endangered Species Act (MESA) Project Review Checklists, and Massachusetts Environmental Policy Act (MEPA) documentation. Prior to starting at EcoTec, Ms. O'Donnell was a student at the College of the Holy Cross, where she received degrees in Biology and Environmental Studies. Her educational background includes with extensive coursework in ecology and environmental science, as well as courses in geoscience, biology, chemistry, and environmental law. During her time at Holy Cross, she conducted hydrologic and water quality research to investigate the impacts of road salt on the salinity of the Middle River in Worcester, MA.

Education:

Bachelor of Arts in Biology (Ecology emphasis) and Bachelor of Arts in Environmental Studies, College of the Holy Cross, 2021

Professional Affiliations:

Society of Wetland Scientists
Massachusetts Association of Conservation Commissioners

Certifications:

Society of Wetland Scientists Wetland Professional In Training
EPA Construction General Permit Site Inspector Certification



LOCUS MAP
NO SCALE

DEEP HOLE 1	DATE: 12/12/23	ELEV. = 195.2±
DEEP OBSERVATION HOLE LOG		
DEPTH FROM SURFACE (FEET)	SOIL REMARKS (COLOR)	SOIL CLASS (COLOR)
0'-4"	Ap	S.L.
4'-24"	Bw	S.L.
24'-84"	C	S.L.

* MINIMUM OF TWO HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA
PARENT MATERIAL (GEOLOGIC) GLACIAL TILL DEPTH TO BEDROCK: N.O.
DEPTH TO GROUNDWATER: STANDING WATER IN HOLE: .50' WEeping FROM PIT FACE: .50'
ESTIMATED SEASONAL HIGH GROUND WATER: .50'

DEEP HOLE 2	DATE: 12/12/23	ELEV. = 195.3±
DEEP OBSERVATION HOLE LOG		
DEPTH FROM SURFACE (FEET)	SOIL REMARKS (COLOR)	SOIL CLASS (COLOR)
0'-4"	Ap	S.L.
4'-24"	Bw	S.L.
24'-96"	C	S.L.

* MINIMUM OF TWO HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA
PARENT MATERIAL (GEOLOGIC) GLACIAL TILL DEPTH TO BEDROCK: N.O.
DEPTH TO GROUNDWATER: STANDING WATER IN HOLE: .50' WEeping FROM PIT FACE: .50'
ESTIMATED SEASONAL HIGH GROUND WATER: .50'

DEEP HOLE 3	DATE: 12/12/23	ELEV. = 196.4±
DEEP OBSERVATION HOLE LOG		
DEPTH FROM SURFACE (FEET)	SOIL REMARKS (COLOR)	SOIL CLASS (COLOR)
0'-4"	Ap	S.L.
4'-36"	Bw	S.L.
36'-96"	C	S.L.

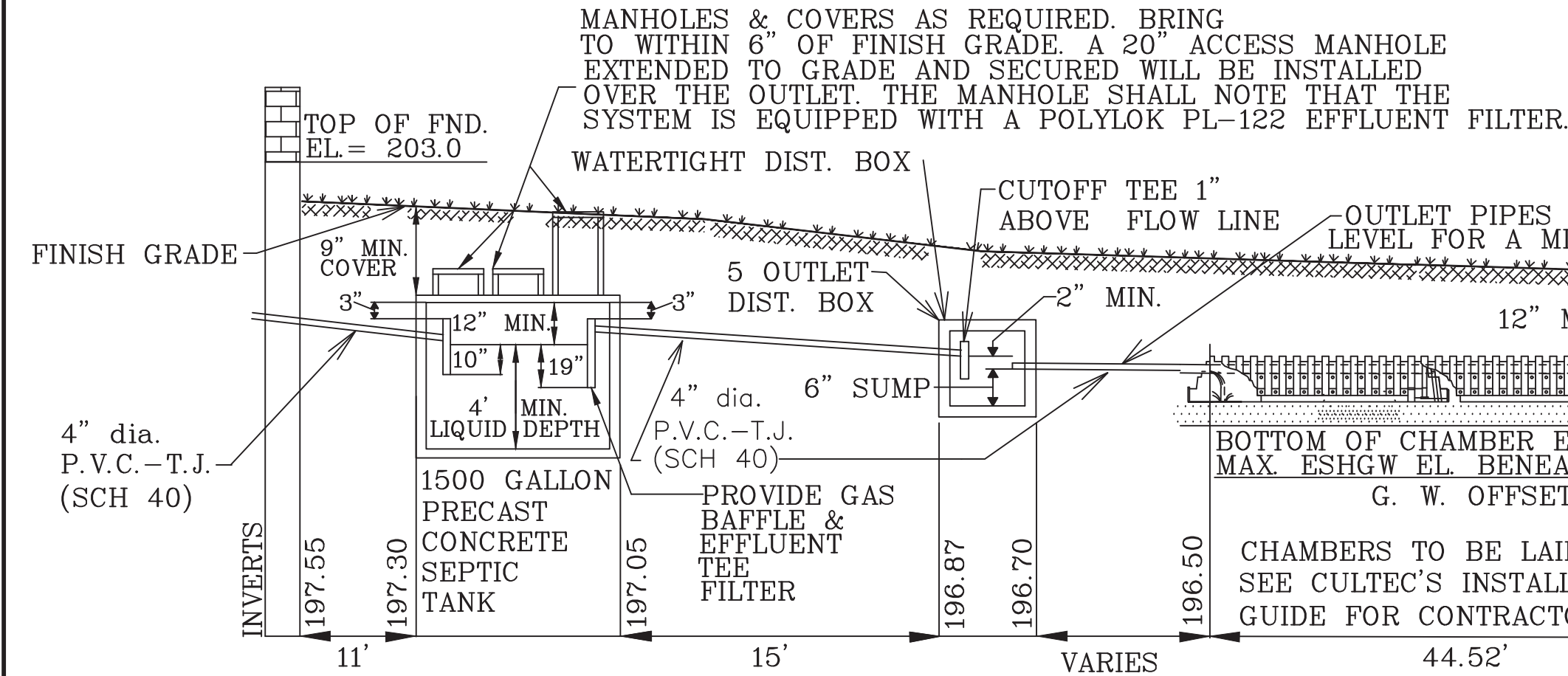
* MINIMUM OF TWO HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA
PARENT MATERIAL (GEOLOGIC) GLACIAL TILL DEPTH TO BEDROCK: N.O.
DEPTH TO GROUNDWATER: STANDING WATER IN HOLE: .50' WEeping FROM PIT FACE: .50'
ESTIMATED SEASONAL HIGH GROUND WATER: .50'

DEEP HOLE 4	DATE: 12/12/23	ELEV. = 197.2±
DEEP OBSERVATION HOLE LOG		
DEPTH FROM SURFACE (FEET)	SOIL REMARKS (COLOR)	SOIL CLASS (COLOR)
0'-4"	Ap	S.L.
4'-36"	Bw	S.L.
36'-108"	C	S.L.

* MINIMUM OF TWO HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA
PARENT MATERIAL (GEOLOGIC) GLACIAL TILL DEPTH TO BEDROCK: N.O.
DEPTH TO GROUNDWATER: STANDING WATER IN HOLE: .50' WEeping FROM PIT FACE: .50'
ESTIMATED SEASONAL HIGH GROUND WATER: .50'

DEEP HOLE 5	DATE: 2/7/24	ELEV. = 194.5±
DEEP OBSERVATION HOLE LOG		
DEPTH FROM SURFACE (FEET)	SOIL REMARKS (COLOR)	SOIL CLASS (COLOR)
0'-4"	Ap	S.L.
4'-24"	Bw	S.L.
24'-84"	C	S.L.

* MINIMUM OF TWO HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA
PARENT MATERIAL (GEOLOGIC) GLACIAL TILL DEPTH TO BEDROCK: N.O.
DEPTH TO GROUNDWATER: STANDING WATER IN HOLE: .50' WEeping FROM PIT FACE: .50'
ESTIMATED SEASONAL HIGH GROUND WATER: .50'



NOTE: OUTLET GAS BAFFLE & EFFLUENT TEE FILTER TO BE A POLYLOCK PL-122.

PROFILE
NO SCALE

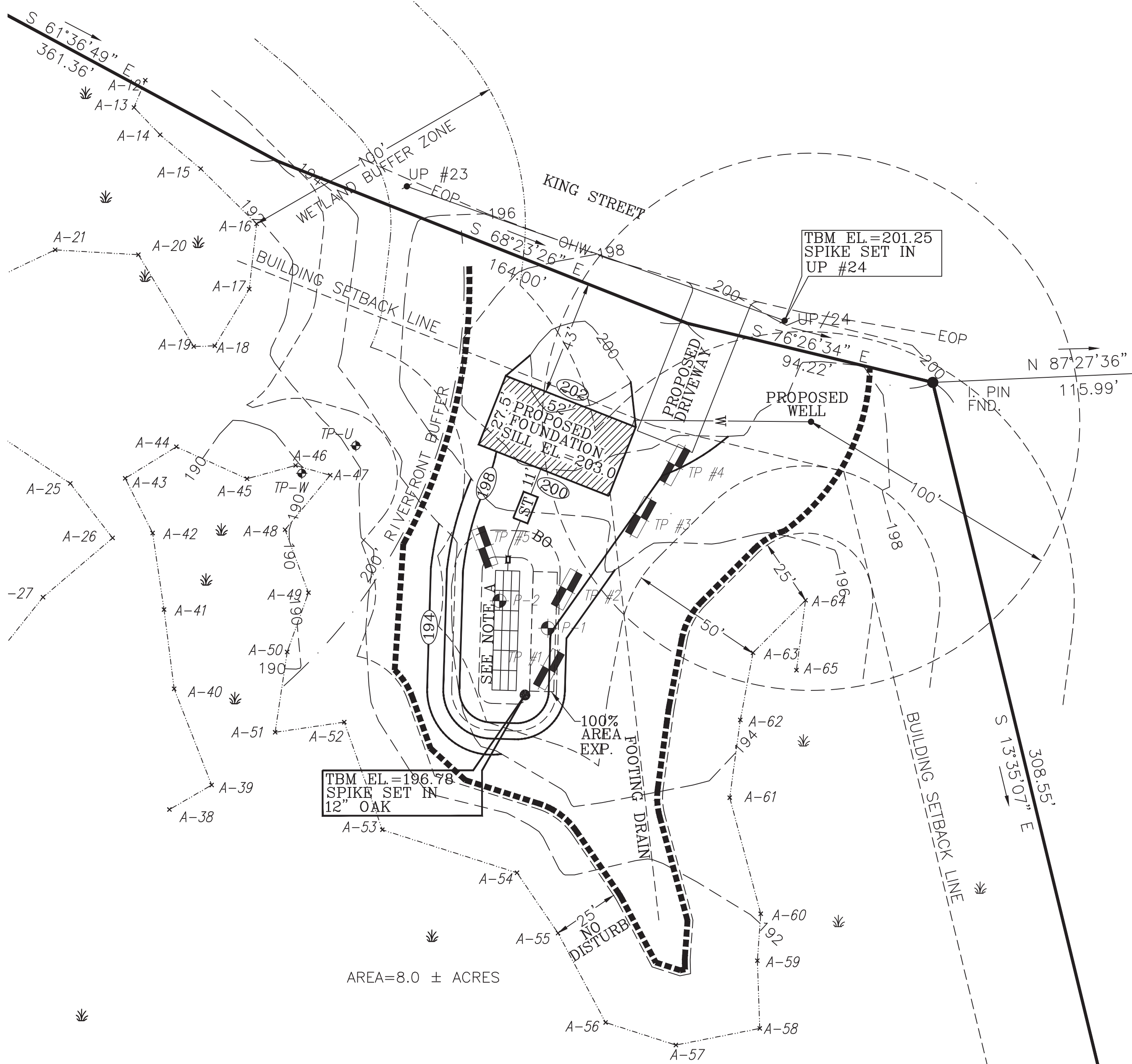
BREAKOUT CALCULATIONS

BREAKOUT EL= 197.04
DISTANCE =15' MIN.

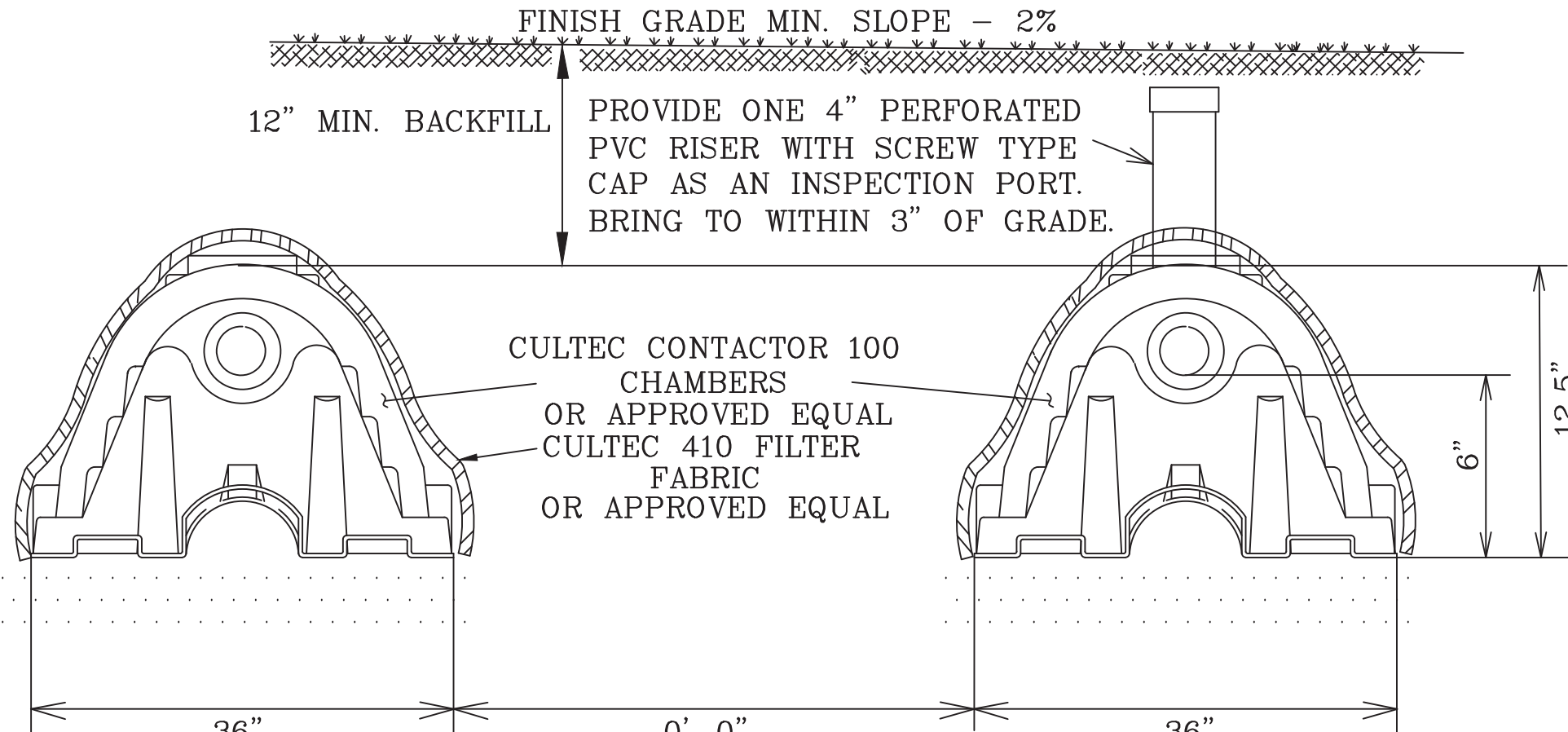
I CERTIFY THAT ON JUNE 1995 I HAVE PASSED THE SOIL EVALUATOR EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS WAS PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017.

SIGNATURE *John E. Finlay II* DATE 02/15/24

NOTE A: ALL TOPSOIL, SUBSOIL, AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE LEACHING AREA AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING AREA. EXCAVATE DOWN TO 3 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL, BACKFILL AS REQUIRED WITH A CLEAN GRAVEL OR SAND FILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATERIAL, AND LARGE BOULDERS, HAVING A PERCOLATION RATE IN ITS ORIGINAL LOCATION AND AFTER PLACEMENT OF TWO MINUTES PER INCH OR FASTER. CONSTRUCT LEACHING BED IN THIS MATERIAL, SEE 310 CMR 15.255(3) AND ASTM C-93 FOR MATERIAL SPECIFICATION.



PLAN WET
SCALE: 1"=30'



TYPICAL LEACH BED SECTION
NO SCALE

OWNER OF RECORD:
THEODORE ANTANAVICA
DEED BK. 52839 PG. 45
ASSESSOR'S MAP 37 PARCEL C12

GENERAL NOTES

- 1.) THE EXISTING TOPOGRAPHY WAS PERFORMED BY FINLAY ENGINEERING SERVICES. THE EXISTING PROPERTY LINE WAS PERFORMED BY HS&T GROUP, INC. AND SUPPLIED BY THE CLIENT.
- 2.) ALL CONSTRUCTION TO CONFORM TO TITLE 5 OF THE MASSACHUSETTS STATE ENVIRONMENTAL CODE AND THE BOARD OF HEALTH REQUIREMENTS FOR THE TOWN OF LEICESTER, MASSACHUSETTS.
- 3.) TIGHT JOINT PIPING TO CONSIST OF POLYVINYL CHLORIDE PIPE (P.V.C.), SCHEDULE 40 , UNLESS OTHERWISE NOTED.
- 4.) HEAVY MACHINERY NOT PERMITTED TO PASS OVER PIPE LEACHING AREA.
- 5.) UNDERGROUND UTILITY INFORMATION IS PLOTTED FROM VISIBLE FIELD LOCATIONS AND AVAILABLE RECORDS. THE LOCATIONS ARE APPROXIMATE ONLY AND VERIFICATION MUST BE MADE IN THE FIELD.
- 6.) NO GARBAGE DISPOSAL IS ALLOWED WITH THIS DESIGN.
- 7.) THERE ARE NO STREAMS OR WETLANDS LOCATED WITHIN 50 FEET OF THIS SYSTEM. THERE ARE NO CATCH BASINS LOCATED WITHIN 50 FEET OF THIS SYSTEM.
- 8.) NO FOOTING DRAINS OR DRY WELLS ARE TO BE LOCATED WITHIN 20 FEET OF THE LEACHING SYSTEM OR THE EXPANSION AREA OR WITHIN 10 FEET OF THE SEPTIC TANK.
- 9.) THIS PLAN IS FOR THE DESIGN AND CONSTRUCTION OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM ONLY .
- 10.) NO CHANGE SHALL BE MADE TO THIS PLAN WITHOUT THE APPROVAL OF THE DESIGN ENGINEER AND THE BOARD OF HEALTH.
- 11.) A COPY OF THIS PLAN MUST BE FURNISHED TO THE CONTRACTOR CONSTRUCTING THE SYSTEM AND A COPY MUST BE KEPT ONSITE DURING CONSTRUCTION .
- 12.) ELEVATION DATUM IS ASSUMED .
- 13.) FOR PROPER PERFORMANCE SEPTIC TANK SHOULD BE INSPECTED AT LEAST ONCE A YEAR AND WHEN THE TOTAL DEPTH OF SCUM AND SOLIDS EXCEEDS 1/3 THE LIQUID DEPTH OF THE TANK THE TANK SHOULD BE PUMPED (USUALLY TWO YEARS).
- 14.) MAGNETIC TAPE SHALL BE INSTALLED ON ALL SYSTEM COMPONENTS.
- 15.) THERE ARE NO KNOWN PRIVATE WATER SUPPLY WELLS WITHIN 100 FEET OF THE PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM.
- 16.) THE PROJECT DOES NOT FALL WITHIN A FLOOD HAZARD AREA (ZONE X) ACCORDING TO FEMA MAP 25027C0595F DATED JUNE 21, 2023.
- 17.) THE BORDERING VEGATED WETLAND WAS DELINEATED BY ECOTEC INC.
- 18.) THIS PLAN REQUIRES APPROVAL OF THE LEICESTER CONSERVATION COMMISSION.

LEGEND

- 100 — INDICATES EXISTING CONTOUR
- 100 INDICATES PROPOSED CONTOUR
- T.P. 1 INDICATES TEST PIT LOCATION AND NUMBER
- P-1 INDICATES PERC TEST LOCATION & NUMBER

PERCOLATION TEST DATA

PERC: 1 2
DEPTH: 36" 48"
RATE: 16 M.P.I. 17 M.P.I.
DATE: 12/12/23 2/7/24
TEST PERFORMED BY : JOHN E. FINLAY II, PE
TEST WITNESSED BY: MACKENZIE FAULKER, M.P.H., T/O Leicester B.O.H.
SOIL EVALUATION BY: JOHN E. FINLAY II, PE

DESIGN DATA

- 1.) ESTIMATED HYDRAULIC LOADING :
3 BEDROOMS AT 110 GALLONS/DAY/BEDROOM = 330 GALS./DAY
- 2.) SEPTIC TANK SIZE: 1500 GALLONS
- 3.) LEACHING AREA BASED ON A PERCOLATION RATE OF 20 M.P.I.
18 UNITS X 7.42 L.F./UNIT = 133.56' OF CHAMBER (PROVIDED)
EFFECTIVE LEACHING AREA : 18 UNITS X 7.42 L.F./UNIT X 5.00 S.F./L.F.= 667.8 S.F.
667.8 S.F. X 0.53 GALS./S.F. = 354 G.P.D. (PROVIDED)
ACTUAL HYDRAULIC LOADING = 330 G.P.D. (REQUIRED)

ZONING DISTRICT: SUBURBAN AGRICULTURAL

DATE	ISSUE	REVISION	DESCRIPTION	APP.
			PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM	
			PREPARED FOR	
			ANTANAVICA CONSTRUCTION CO., INC.	
			74 KING STREET	
			LEICESTER, MASSACHUSETTS	
			FINLAY ENGINEERING SERVICES	
			DES. JEF DWN. PPF CHK. JEF	
			SCALE 1"=20' DATE: 02/08/24	
			PLAN NUMBER 240004	
			SHEET 1 OF 1	