



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

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):

Oak Grove Farm

a. Street Address

Millis, MA

b. City/Town

02054

c. Zip Code

Latitude and Longitude:

42.179630

d. Latitude

-71.395870

e. Longitude

f. Assessors Map/Plat Number

Assesspr Ma[16 Lot 4 Id 0016-0004-0000

g. Parcel /Lot Number

2. Applicant:

Town of Millis

a. First Name

Town of Millis

b. Last Name

Oak Grove Farm Commission

c. Organization

900 Main St

d. Street Address

Millis.

e. City/Town

MA

f. State

02054

g. Zip Code

508-376-7046

h. Phone Number

i. Fax Number

j. Email Address

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

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):

David

a. First Name

Werner

b. Last Name

c. Company

d. Street Address

91 Ridge St

e. City/Town

Millis

f. State

ma

g. Zip Code

508-904-5361

h. Phone Number

i. Fax Number

j. Email address

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

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:

Restoration of exiting trails, using geotextile fabric and aggregates, See attached Exhibit A, Narrative, and Exhibit B, Plans.

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

- | | |
|---|---|
| 1. <input 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 checked="" 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)

Linear project.

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

a. County

b. Certificate # (if registered land)

c. Book

d. Page Number

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

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

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



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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	5,987 sf 1. square feet	0 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. <input type="checkbox"/> Restoration/Enhancement		
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.		
a. square feet of BVW _____	b. square feet of Salt Marsh _____	
5. <input type="checkbox"/> Project Involves Stream Crossings		
a. number of new stream crossings _____	b. number of replacement stream crossings _____	



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C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

a. ☐ Yes ☒ No

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

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

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/ma-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 - 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@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).



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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.

Locus Map; Trail Restoration Areas 1 & 2; Trail Restoration Areas 3, 4, 5 & 5a; Trail Restoration Areas 6 & 6a; Trail Restoration Areas 7, 8 & 9.

Horace Aikman

Horace Aikman

b. Prepared By

c. Signed and Stamped by

2022-04-17

1"=50'

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:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name



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F. Signatures and Submittal Requirements

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

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

1. Signature of Applicant

2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

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

For MassDEP:

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

Other:

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

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



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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:

a. Street Address

b. City/Town

c. Check number

d. Fee amount

2. Applicant Mailing Address:

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

3. Property Owner (if different):

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

B. Fees

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

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

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

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

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

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

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

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



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B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee

Step 5/Total Project Fee: _____

Step 6/Fee Payments:

Total Project Fee: _____
a. Total Fee from Step 5

State share of filing Fee: _____
b. 1/2 Total Fee **less** \$12.50

City/Town share of filing Fee: _____
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.)

EXHIBIT A – PROJECT DESCRIPTION

TRAIL RESTORATION PROJECT OAK GROVE FARM MILLIS, MA 02054

Reference: Attached Plans (Exhibit B) includes:

Locus Plan
Trail Restoration Areas 1 & 2
Trail Restoration Areas 3, 4, 5 & 5a
Trail Restoration Areas 6 & 6a
Trail Restoration Areas 7, 8 & 9

Description of the Project:

The Oak Grove Farm Commission seeks approval for trail restoration and wetlands protection at the Oak Grove Farm in the Town of Millis, Massachusetts. The property is bounded by Ridge Street, Island Road, Exchange Street (MA 115), and Orchard Street. The overall property is 108 acres. The property serves the Millis community as a venue for youth sports (soccer and softball) cross country meets, five-kilometer races, historical events and individual outdoor activities. The active recreational zone is located at the southeast corner of the property at the intersection of Island Road and Exchange Street and also includes a playground. The active recreational zone is approximately 15 acres.

The property was in agricultural use until its purchase by the town for the use of the Citizens of Millis. The property is characterized by open, upland fields, a perennial stream that was channelized during its early agricultural period, and red maple swamps.

A network of historic trails crosses and circumnavigates the property, primarily in upland areas of open fields and wood lands, within buffer zones of bordering vegetated wetland, and to a small extent, across jurisdictional resource areas. Where the existing, historic trail system runs adjacent to or crosses wetland areas, the trails have become muddy and rutted, causing the borders to expand slowly but continually into resource areas. The silty, bottomland soils in some areas of Oak Grove Farm have become compacted or their soil structure damaged by repeated use in wet seasons. The trail restoration project seeks to stabilize the cross section of the trails by smoothing out the heavily rutted wetland soils, placing geo-textile fabric to reinforce the trail base, and spreading various gradations of crushed stone to create a stable trail surface wide enough to accommodate emergency and maintenance vehicles.

The trail restoration work will reduce pedestrian and vehicular trespass into protected wetland areas, improve stormwater runoff from adjacent roadways, and increase public

health and safety by stabilizing walking surfaces and accommodating emergency vehicle access.

The Notice of Intent stipulates all work of trail restoration and stabilization occurs within areas subject to review under the Wetlands Protection Act and the Rivers Protection Act.

The trail restoration project will stabilize approximately 1,525 linear feet of the existing trail system. The total area of the trail stabilization work will be approximately 12,200 square feet (0.28 acres).

Trails will be stabilized to a width of 7 to 8-feet to accommodate emergency and maintenance vehicle use, while accommodating passing of vehicles and pedestrian without conflict. The largest piece of Millis DPW maintenance equipment has a 69.2-inch wheelbase. The exception to this is at areas 6 and 6a, the existing cart path over the causeway. The existing causeway varies in width from 14 to 18 feet across its entire length. To better reduce long-term degradation of the causeway surfacing and sedimentation of the adjacent wetland resource areas, the width of the trail restoration across the causeway will be 12 feet wide.

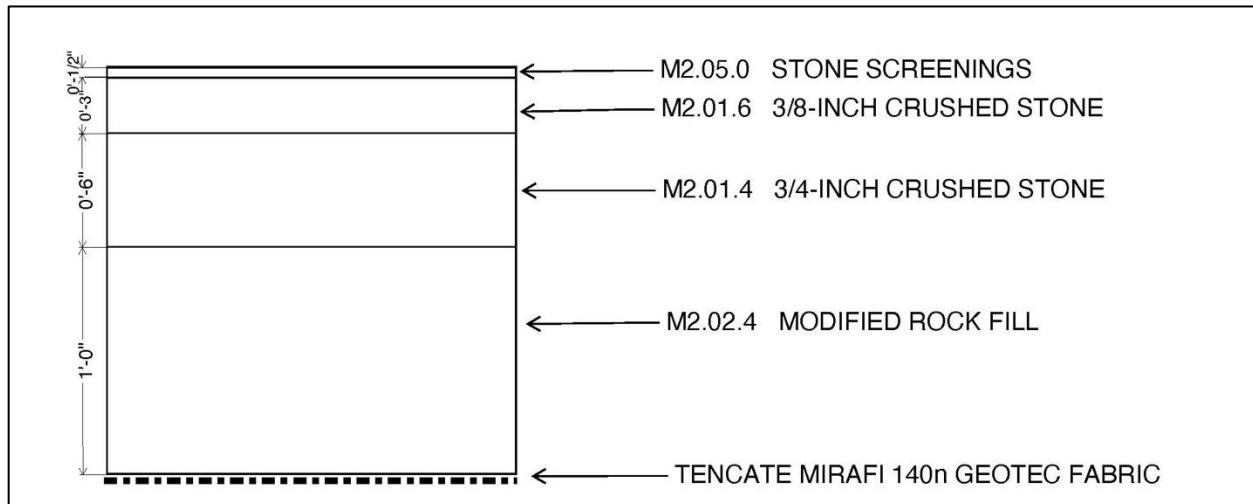
Eleven areas of trail restoration are identified on the attached plans. Each area is numbered on the plans and are described below. All eleven areas are subject to wetlands protection requirements.

Trail restoration will include the following:

1. Installation of compost filter socks, for temporary erosion and sedimentation controls along the edges of soil disturbance in all areas.
2. Rough grading the existing trails to smooth out and eliminate deep ruts and uneven topography of the existing soils.
3. Installation of a geotextile fabric separator over the smoothed out existing soil. The fabric will distribute vehicular loading and prevent the aggregate base material from settling into the underlying existing soils.
4. In areas where there is extensive runoff from adjacent public roadways across the trails, a deep layer of MassDOT M.2.02.4 Modified Rock Fill will be spread to facilitate lateral movement of stormwater under the pedestrian trail. Depth of sub-base M2.02.4 will be determined in the field by installer under direct supervision of DPW officials.
5. In all other areas where coarse aggregate sub-base is not required, MassDOT M2.01.4 3/4-inch crushed stone will be spread to a depth 6 inches to a finished width to meet field conditions. In areas where trail restoration is 7-feet wide, the angle of repose of the crushed stone will extend the base of the M2.01.4 material to a width sufficiently wide to accommodate the angle of repose of aggregate materials installed subsequently. Crushed stone will be consolidated to ensure there will be no further settlement.

6. Over the 3/4-inch crushed stone base will be spread MassDOT M2.01.6 3/8-inch crushed peastone.
7. A final walking surface consisting of M2.05.0 Stone Screenings will be spread and consolidated.

Project Specifications



Universal Cross Section – not to scale

M2.01.4. This is a commonly available 3/4-inch stone.

M2.01.6 This is an angular pea stone, 3/8-inch minus

M2.02.4 Modified Rockfill

M2.05.0 Stone Screenings, commonly called stone dust in New England, and decomposed granite elsewhere.

After consultation with Horace Aikman, Registered Landscape Architect, we believe this standard cross section of materials will improve the health of existing wetlands adjacent to the walking trails by reducing erosion and sedimentation and reducing soil compaction by pedestrian and maintenance vehicle use. The trail restoration work will provide pedestrian with stabilized walking surfaces.

Area 1, Island Road: Assumed BVW. DPW will repair or replace drainage structures to improve stormwater controls off the roadway. 68-foot trail restoration to a width of 7 feet, using Universal Cross Section with modified rock fill as directed by DPW based on stormwater management requirements. Total area of improvement – 476 sf.

Area 2, Island Road: Assumed BVW. 90-foot trail restoration using Universal Cross Section without modified rock fill. Total area of improvement – 630 sf.

Area 3, outfall of the small brook draining the 'Dingle Hole' through a concrete culvert and end wall. Assumed BVW and subject to the Rivers Protection Act. The stream is crossed by an existing footbridge. Trail restoration will include the Universal Cross Section with the Modified Rock Fill as determined in the field as directed. 94-feet total trail restoration, with 23-feet on the southwest end of the bridge. Total area of improvement – 658 sf.

Area 4 on Ridge Street: Assumed BVW. DPW will repair or replace drainage structures. Based upon field inspections at the time of installation, if a drainage structure and piping are required, the outfall of the drainage structure will be into M2.02.4 modified rock fill. 115-feet total trail restoration. Total area of improvement – 805 sf.

Area 5 on Ridge Street. Assumed BVW. 120-feet of trail restoration following the Universal Cross Section. Total area of improvement – 840 sf.

Area 5a on Ridge St: Assumed BVW. The Universal Cross Section will be installed to this relatively short area of trail restoration. Total area of improvement – 196 sf.

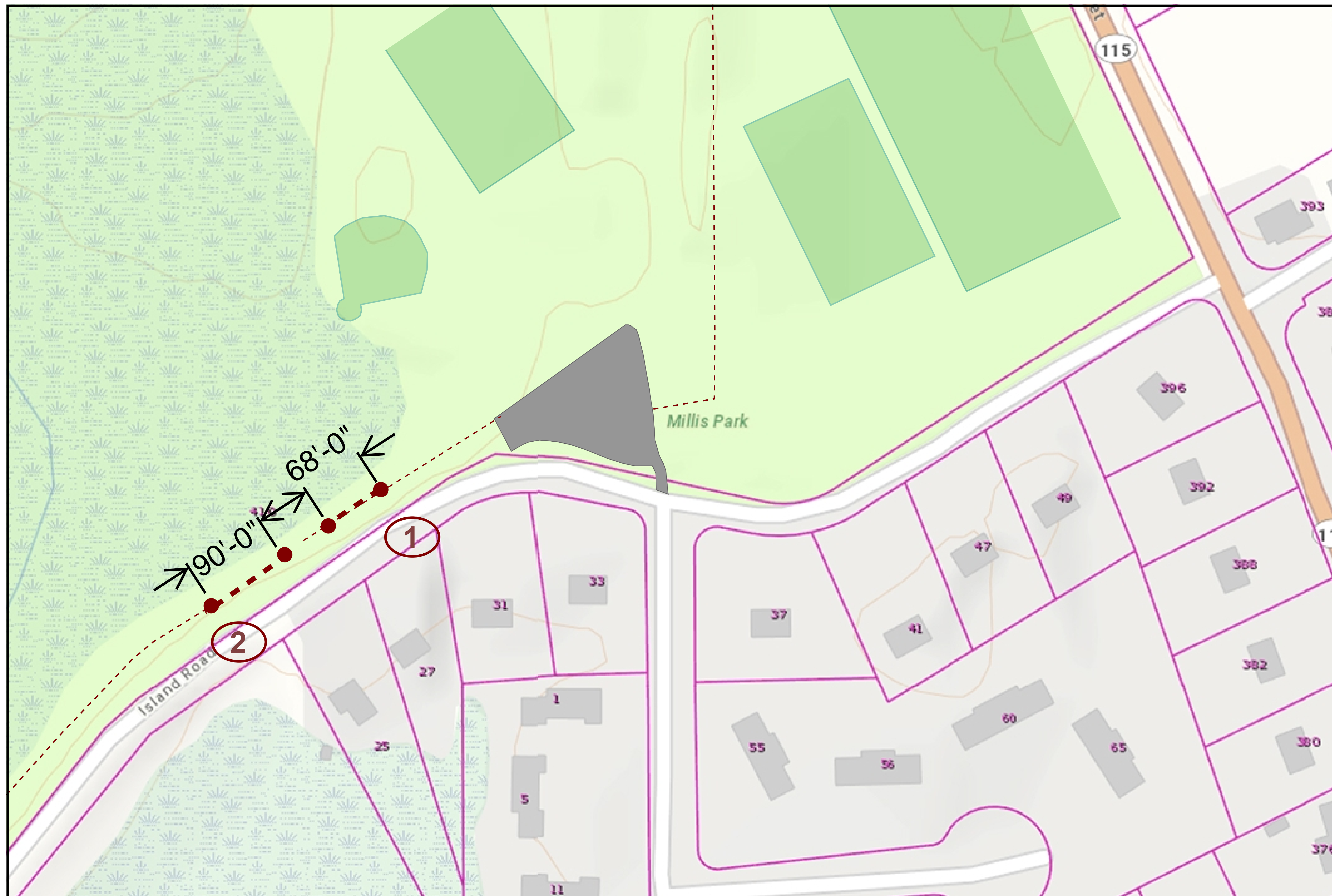
Area 6a, 105-feet of Universal Cross Section trail restoration. In area 6a, the width of the path will be approximately 12-feet. The Causeway's compacted soil surface will be loosened up and restored to a width of 12-feet. Item six is the sole exception to the 7-foot trail width. Total area of improvement – 1,260 sf.

Area 6, Causeway: 548 linear feet of Universal Cross Section will be installed at a width of 12-feet. Total area of improvement – 6,576 sf.

Area 7, Exchange Street. Assumed BVW. 115 linear feet of Universal Cross Section will be installed to a width of 7-feet. Total area of improvement – 805 sf.

Area 8, wet meadow. Assumed BVW. 142 linear feet of Universal Cross Section will be installed to a width of 7-feet. Total area of improvement – 994 sf.

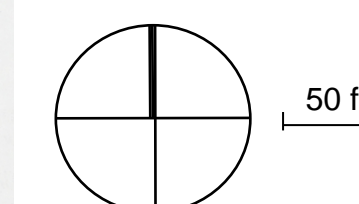
Area 9, parallel to Orchard St. Assumed BVW. Red maple swamp. 168 linear feet of Universal Cross Section will be installed to a width of 7-feet. Total area of improvement – 1,176 sf.



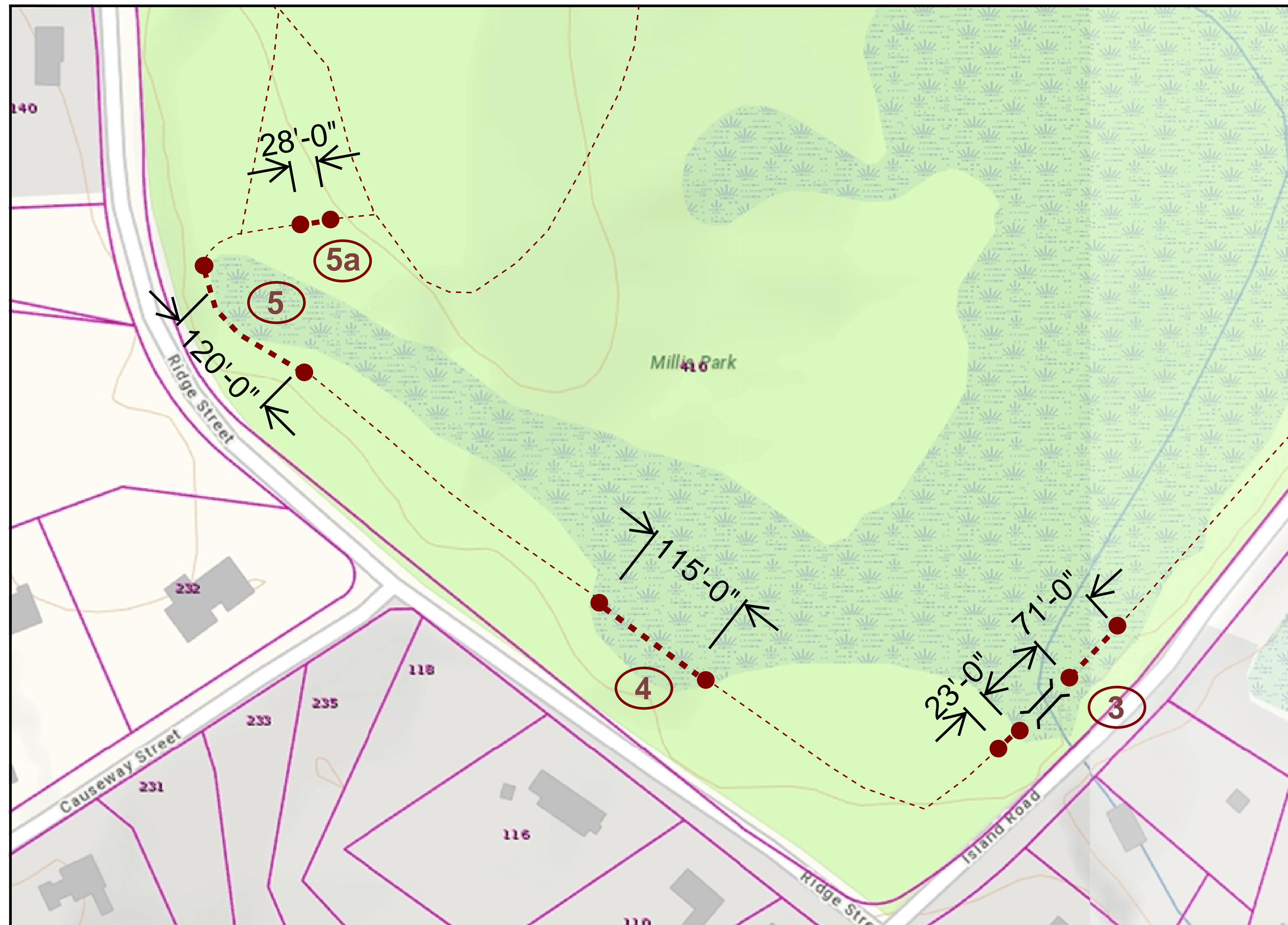
LEGEND

- PARKING LOTS
- TRAIL RESTORATION
- EXISTING TRAIL NETWORK
- EXISTING BRIDGE
- BORDERING VEGETATED WETLANDS

PLAN COMPILED FROM:
Formal field inspection: 2022-04-16
<https://maps.massgis.digital.mass.gov/MassMapper/MassMapper.html>
<https://www.alltrails.com>



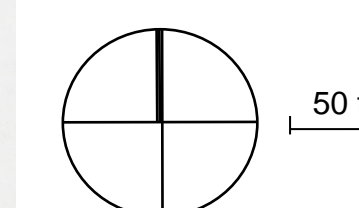
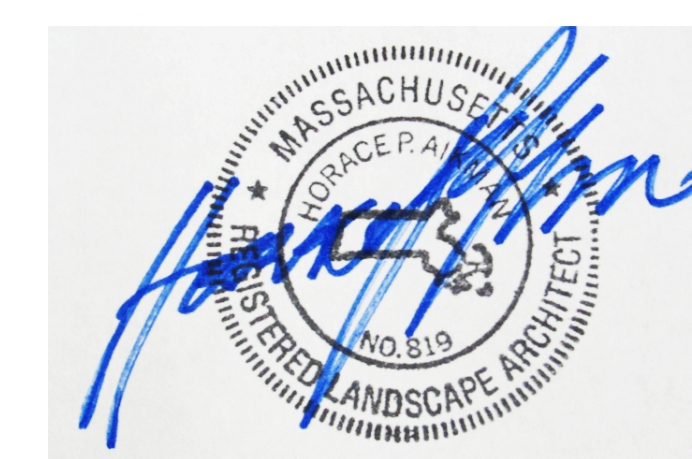
**TRAIL RESTORATION -
AREAS 1 & 2**
TRAIL RESTORATION PROJECT
OAK GROVE FARM
MILLIS, MA 02054



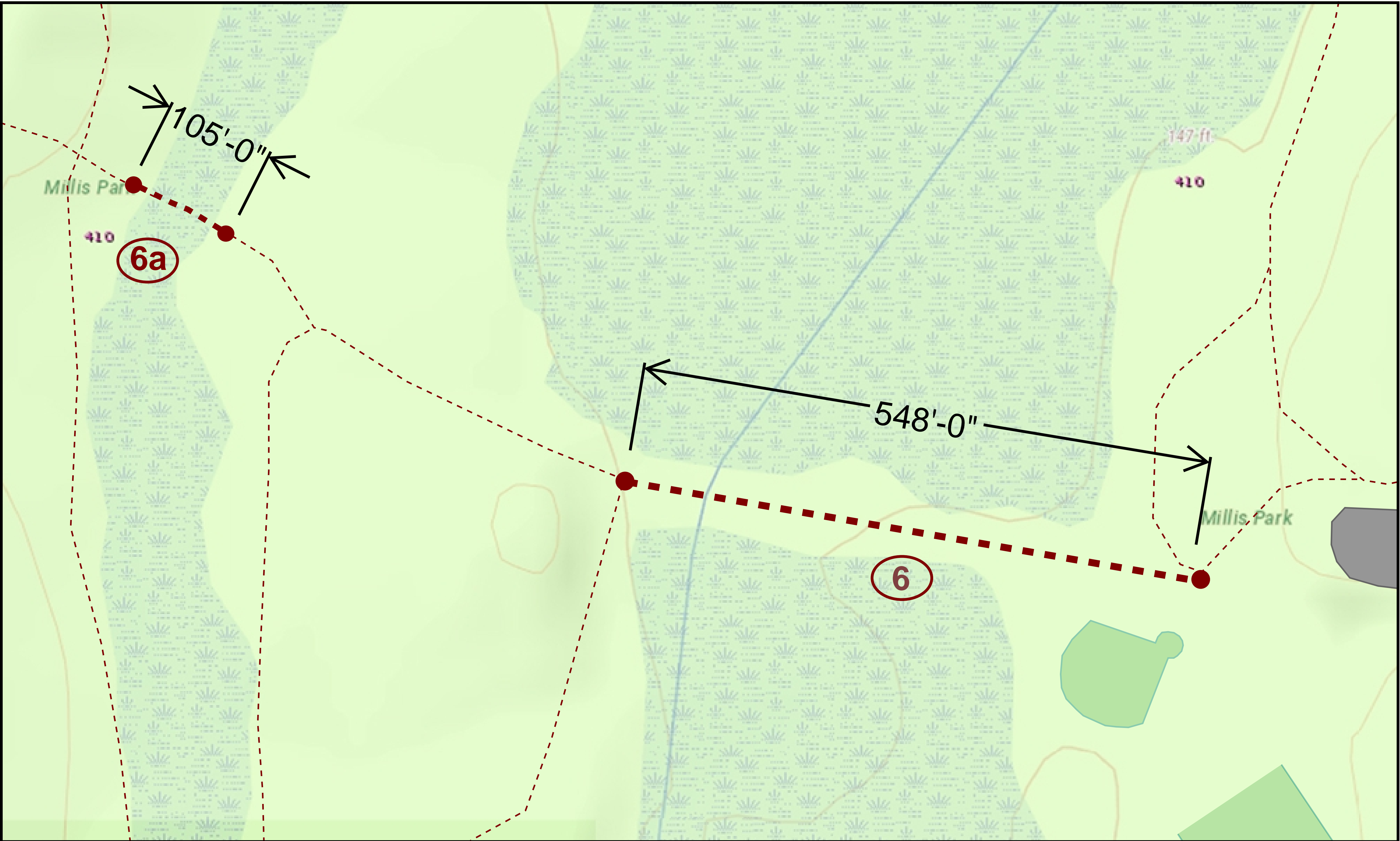
LEGEND

- PARKING LOTS
- TRAIL RESTORATION
- EXISTING TRAIL NETWORK
- EXISTING BRIDGE
- BORDERING VEGETATED WETLANDS




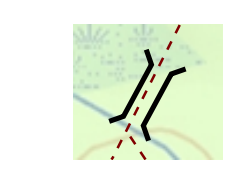

PLAN COMPILED FROM:
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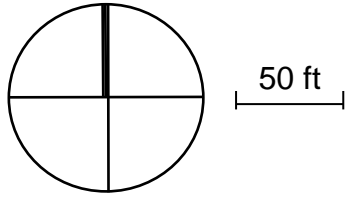
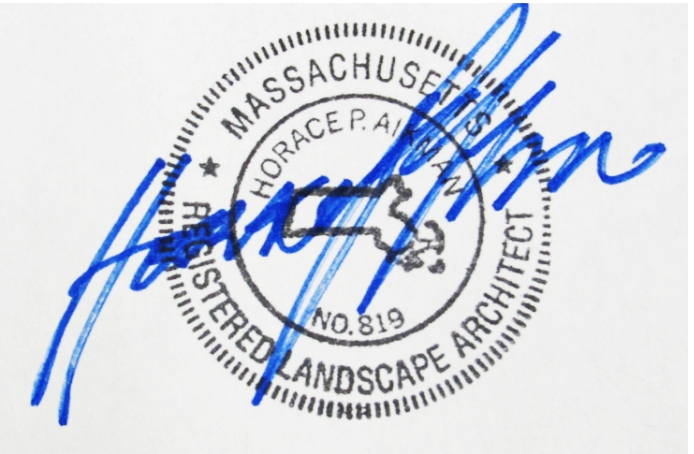
TRAIL RESTORATION -
AREAS 3, 4, 5, 5a
TRAIL RESTORATION PROJECT
OAK GROVE FARM
MILLIS, MA 02054



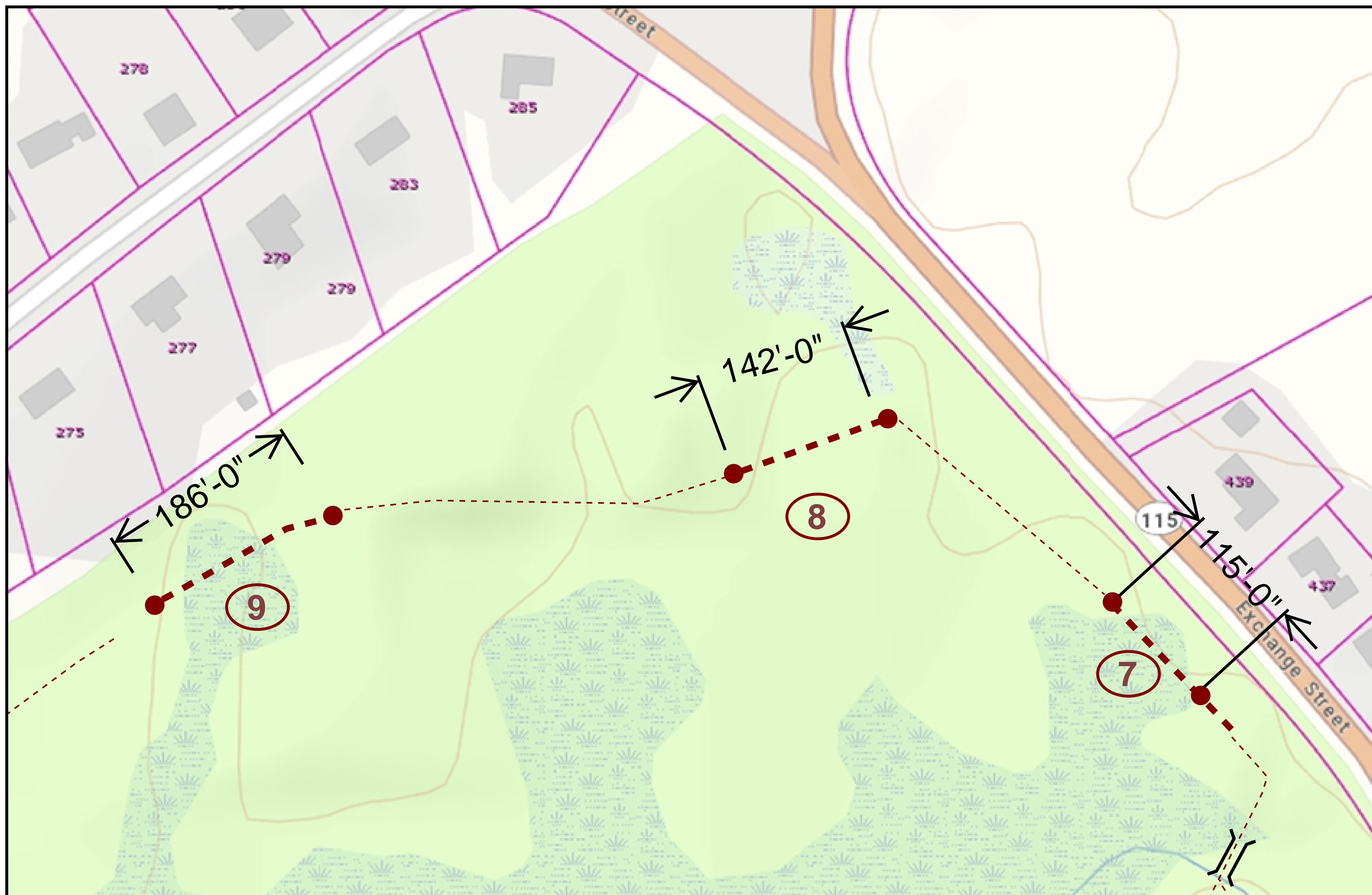
LEGEND

-  PARKING LOTS
-  TRAIL RESTORATION
-  EXISTING TRAIL NETWORK
-  EXISTING BRIDGE
-  BORDERING VEGETATED WETLANDS






PLAN COMPILED FROM:
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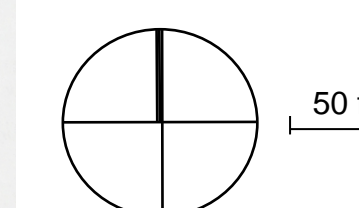
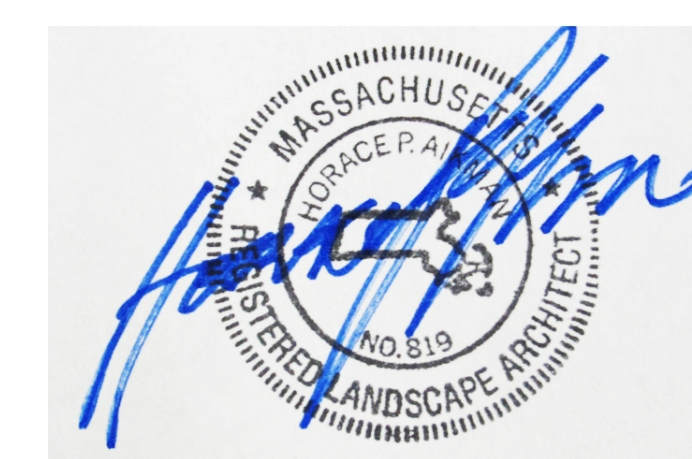
**TRAIL RESTORATION -
AREAS 6 & 6a**
TRAIL RESTORATION PROJECT
OAK GROVE FARM
MILLIS, MA 02054



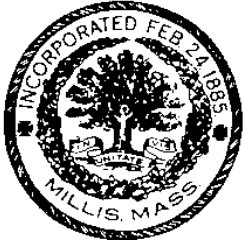
LEGEND

-  PARKING LOTS
-  TRAIL RESTORATION
-  EXISTING TRAIL NETWORK
-  EXISTING BRIDGE
-  BORDERING VEGETATED WETLANDS

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**TRAIL RESTORATION -
AREAS 7, 8, 9**
TRAIL RESTORATION PROJECT
OAK GROVE FARM
MILLIS, MA 02054



TOWN OF MILLIS

Dr. James A. Lederer, *Chair*
Carol Hayes, *Vice Chair*
Edward Chisholm
Christine Gavin
John Steadman
Scott McPhee
David Larsen

OFFICE OF THE CONSERVATION COMMISSION

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Phone: 508-376-7045

Fax: 508-376-7053

<https://www.millisma.gov/conservation-commission>

Camille Standley
Administrative Assistant
cstandley@millisma.gov

NOTICE OF PUBLIC HEARING

Pursuant to Mass Gen Law Ch. 131, s. 40, and in accordance with Article XIX, Town of Millis Wetlands Protection Bylaw, Section 5, a public hearing will be held on Monday, May 16, 2022, at 8:00 p.m. at the Veterans Memorial Building, Room 104, 900 Main St., Millis, MA, on a Notice of Intent, under the MA Wetlands Protection Act and the Millis Wetlands Protection Bylaw, filed by Oak Grove Farm Commission, Town of Millis, 900 Main St., Millis, MA, for proposed trail improvements for property located at 410 Exchange St., Millis, MA, Assessor Map 16, Parcel 4.

A copy of the application and plan is on the Commission's webpage:
<https://www.millisma.gov/conservation-commission>

All interested parties are urged to attend.

Dr. James Lederer, Chair

cc: Applicant/Engineer
Board of Selectmen
Building Dept.
Town Clerk
BOH
File