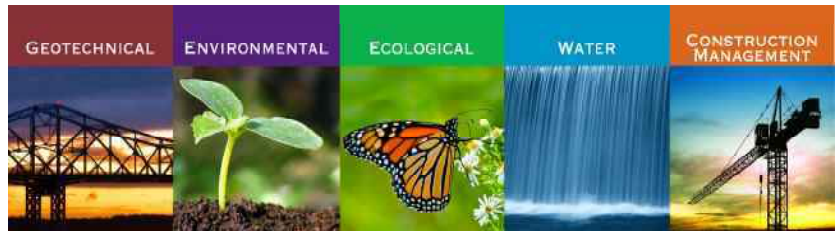




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## Notice of Intent Application

### Montague-Fairmont Structure Replacement Project Granby, Massachusetts

October 2020

File No. 15.0166637.09



#### **PREPARED FOR:**

Eversource Energy  
107 Selden Street  
Berlin, CT 06037

#### **GZA GeoEnvironmental, Inc.**

1350 Main Street, Suite 1400 | Springfield, MA 01103  
413-726-2100

Offices Nationwide  
[www.gza.com](http://www.gza.com)

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1350 Main Street  
Suite 1400  
Springfield, MA 01103  
T: 413.726.2100  
F: 413.732.1249  
www.gza.com



October 20, 2020  
GZA File No. 15.0166637.09

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

**RE: Notice of Intent Application  
Eversource Energy  
Montague-Fairmont Structure Replacement Project (MFRP)  
Granby, MA**

Dear Conservation Commission Members:

On behalf of NSTAR Electric Company dba Eversource (Eversource), GZA GeoEnvironmental, Inc. (GZA) is pleased to submit the enclosed Notice of Intent (NOI) Application for the Montague to Fairmont Structure Replacement Project in Granby, MA (the "Project").

Eversource is proposing to replace forty-seven (47) existing electrical transmission structures in Granby within the existing right-of-way (ROW) for Lines 1113/1134, (refer to locus and project maps in Appendix B). Work associated with seventeen (17) of the structures to be replaced and ancillary work areas are located within resource areas under the jurisdiction of the Massachusetts Wetlands Protection Act and accompanying regulations (WPA, 310 CMR 10.00).

Enclosed is a WPA Form 3-Notice of Intent application and supporting documentation for your review and anticipated approval. If you have any questions, please feel free to contact Mary Brittain at (413) 386-1431 or Steve Lecco at (860) 227-4212.

Very truly yours,  
GZA GeoEnvironmental, Inc.

Mary J. Brittain, LSP  
Senior Project Manager

Stephen L. Lecco, A.I.C.P., C.E.P.  
Associate Principal

Deborah M. Zarta Gier, CNRP  
Principal

CC with attachments:  
Jonathan Roberge, Eversource  
MassDEP – Western Regional Office  
Lauren Gloriosi, MA NHESP



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## 1.0 INTRODUCTION

As part of the Montague to Fairmont Structure Replacement Project (MFRP), Eversource is planning to replace existing electrical transmission line structures along lines 1113/1134, between Amherst substation in Amherst and Fairmont Substation in Chicopee. Within the town of Granby, the project includes the replacement of forty-seven (47) electrical transmission structures. Replacement of seventeen (17) of these structures (STRs) and ancillary work, including tree removals and construction of access roads and work pads, will be located in areas that are subject to review by the Town of Granby Conservation Commission (Commission) pursuant to the Massachusetts Wetlands Protection Act (WPA) and accompanying regulations (310 CMR 10.00). A WPA Form 3 – Notice of Intent application is provided in Appendix A.

In addition to replacement of the existing STRs, the project will also include replacement of the existing conductor wires and shield wires and STR appurtenances. The northern limits of work within Granby are south of Bay Road in Amherst and the southern limits are just north of East Street near the Granby-South Hadley town line (the Project). A Site Locus is provided on the Overview Sheet in Appendix B. The locations of proposed work activities are shown on the project maps in Appendix B.

The following table summarizes the proposed work subject to the WPA, which is further described in **Section 3.6**.

**Table 1: Jurisdiction of Proposed Work**

Work Description	Jurisdictional Resource Area			
	Bordering Vegetated Wetland (BVW)	Buffer Zone	Riverfront Area (RA)	Bordering Land Subject to Flooding (BLSF)
Placement of temporary matted work and wire pull pads	X	n/a	n/a	n/a
Placement of temporary matted access roads	X	n/a	n/a	n/a
Construction of gravel work and pull pads	n/a	X	n/a	n/a
Construction of gravel access roads	n/a	X	n/a	n/a
Replacement of Structures	X	n/a	X	X
Tree Removal	X	X	X	X

Planned work activities that are **not** subject to review under the WPA include:

- Work outside the 100-foot Buffer Zone and Resource Areas;
- Work in Isolated Vegetated Wetlands (IVWs) that do not meet the definition of an Isolated Land Subject to Flooding (ILSF) per 310 CMR 10.57(2)(b);
- Structure replacements per the WPA maintenance exemptions;
- Matting within Buffer Zones and RA per the WPA maintenance exemptions; and



- Portions of matting within BVW (Authorized under Section 401 WQC by File No. 00001357 (amended ACO #WE-176W001-NT), 6/25/18).

Eversource is seeking an Order of Conditions (OOC) from the Commission finding that the work described herein is consistent with the interests of the public and adequately protective of the interests of the WPA.

#### *Impact and Mitigation Summary*

Although occurring over a large distance within the ROW, the types of the work activities and impacts will generally be similar. Where possible, wooden construction mats will be used to establish temporary access roads and work pads to reduce permanent impacts to regulated areas. In some locations, grading and the addition of gravel will be necessary due to uneven topography or other factors. As transmission lines typically run cross-country rather than through developed areas, many of the work areas for this project are located in or near resource areas, and avoidance of all resources is not possible.

**Table 2: Summary of Impacts in Jurisdictional Areas<sup>1</sup>**

Work Description	Jurisdictional Resource Area			
	Bordering Vegetated Wetland (BVW)	Buffer Zone	Riverfront Area (RA)	Bordering Land Subject to Flooding (BLSF)
Placement of <b>temporary</b> matted work and wire pull pads	99,900 SF	n/a	n/a	n/a
Placement of <b>temporary</b> matted access roads	25,070 SF	n/a	n/a	n/a
Construction of gravel work and pull pads	n/a	49,445 SF	n/a	n/a
Construction of gravel access roads	n/a	6,360 SF	n/a	n/a
Replacement of Structures	-20 SF (gain)	n/a	-68 SF (gain)	0 SF / -10 CF (gain)
Tree Removal	16,400 SF	19,775 SF	7,675 SF	3,750 SF

1. Work subject to this NOI does not include activities which are exempt under the WPA and/or authorized under the ACO as described in Sections 3.1 and 3.2

- The majority of the work is associated with temporary matting in resource areas, which is not anticipated to result in permanent impacts.
- Permanent loss of BVW or RA is not proposed.



### 3.0 EXISTING CONDITIONS

#### 3.1 WETLAND RESOURCE AREA SUMMARY

GZA wetland scientists completed wetland delineations within the Project areas in April and June 2019. Wetland delineation was conducted consistent with the *Corps of Engineers Wetland Delineation Manual, Environmental Laboratory. Technical Report Y-87-1*. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS; *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, ed. J.S. Wakely, R.W. Lichvar, and C. C. Noble; *ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center (Version 2.0)*; and *Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act: A Handbook*, S. Jackson, K.W. Peterson, R.W. Golledge, Jr., and R. Tomczyk. Boston, MA. Massachusetts Department of Environmental Protection, Division of Wetlands and Waterways.

The project mapping in Appendix B depicts the delineated resource areas. Wetland field delineation forms are provided in Appendix C. Photographs of the wetland areas are included in Appendix D. The following table summarizes the wetlands where there are proposed permanent construction activities related to the replacement of structures.

**Table 3: Vegetated Wetland Resource Area Summary**

Wetland ID	WPA Resource Type	Cowardin Classification			Dominant Species	Associated Watercourse
		Code	System/ Class/ Subclass	Water Regime		
W-150	BVW	PEM1E	Palustrine emergent	Seasonally flooded / saturated	<i>Onoclea sensibilis</i> , <i>Solidago altissima</i> , <i>Impatiens capensis</i>	Unnamed perennial stream
W-154	BVW	PSS1E	Palustrine scrub-shrub	Seasonally flooded / saturated	<i>Frangula alnus</i> , <i>Impatiens capensis</i> , <i>Onoclea sensibilis</i>	Stony Brook
W-155	BVW	PSS1B	Palustrine scrub-shrub	Seasonally saturated	<i>Frangula alnus</i> , <i>Cornus amomum</i> , <i>Onoclea sensibilis</i> , <i>Solidago rugosa</i>	Unnamed intermittent stream

#### 3.2 WATERWAYS SUMMARY

Bank and Land Under Water Bodies and Waterways (LUWW) resources were delineated in proximity to the Project areas in April and June 2019 by GZA. Where located within the ROW, watercourses were delineated in accordance with 310 CMR 10.54(2) for Bank and 310 CMR 10.58(2) for the mean annual high water line (MAHWL) that indicates the start of the 200-foot RA. Portions of resource areas that were off-ROW were estimated based on publicly available stream lines (i.e., from MassGIS mapping, etc.) and adjusted based on aerial interpretation and observations made from the property line for the purposes of identifying associated RA within the ROW.

Three (3) perennial watercourses involving proposed work subject to the WPA were delineated through portions of the ROW and include: an unnamed perennial stream near the intersection of Easton Street and Amherst Street, an unnamed



tributary to Stony Brook located east of West Street (US Route 202), and Stony Brook, as shown on the project mapping, Appendix B. Photographs of watercourses in the vicinity of the Project area are included in Appendix D.

The following table provides a description of the watercourses with jurisdictional activities occurring within the associated RA.

**Table 4: Waterways Summary**

Watercourse	Cowardin Classification					Direction of Flow	Average Width (ft)
	Code	System	Subsystem	Class	Subclass		
Unnamed	R5UBH	Riverine	Unknown Perennial	Unconsolidated Bottom	NA	Northeast	20
Unnamed Tributary to Stony Brook	R5UBH	Riverine	Unknown Perennial	Unconsolidated Bottom	NA	Southwest	4-8
Stony Brook	R5UBH	Riverine	Unknown Perennial	Unconsolidated Bottom	NA	Northwest	25

### 3.3 OTHER REGULATED AREAS

#### **Outstanding Resource Waters**

No work is proposed in Outstanding Resource Waters (ORW), or Areas of Critical Environmental Concern (ACEC) or Certified Vernal Pools (CVPs).

Portions of the two (2) NHESP CVPs are within the ROW between STRs 10236 and 10237 and between STRs 10243 and 10244 as mapped in Appendix B.

- The CVP between STRs 10236 and 10237 expands across the width of the ROW. No work will occur in the CVP. Nearby work includes limited tree removal and construction of gravel work pads. Eversource will use best management practices (BMPs) described in the Eversource Construction & Maintenance Environmental Requirements, Best Management Practices Manual for Massachusetts and Connecticut, September 2016 (BMP Manual). A copy of the Eversource BMP Manual can be provided to the Conservation Commission.
- The CVP between STRs 10243 and 10244 does not extend the width of the ROW, and proposed activities have been designed to avoid impacts to this CVP.

### 3.4 STATE-LISTED RARE SPECIES

Eversource, with the support of GZA, has been in active discussions with the Massachusetts Natural Heritage and Endangered Species Program (NHESP) since summer of 2019 regarding this project. Current NHESP mapping indicates that portions of the Project area are within Priority Habitat (PH) of Rare Species. Specifically, STRs 10232 to 10244 and 10276 to 10278 are located within PH.



NHESP issued Tracking Number 19-38624 to the project and a separate MESA Checklist Review was submitted on June 29, 2020. The following table summarizes the determination by NHESP in their MESA Determination Letter, dated August 14, 2020:

**Table 5: MESA Determination Summary**

Location	NHESP Species Code (on project mapping)	Details	Outcome
STRs 10232-10244	A	Special Concern Reptile	Take
STRs 10232-10236	U	Threatened Plant	No Take
STRs 10232-10233	W	Threatened Plant	Take
STRs 10276-10278	I	Threatened Lepidoptera	No Take
STR 10277	Z	Special Concern Amphibian	No Take

As anticipated based on coordination, NHESP issued a Take for two (2) species: one (1) reptile of special concern and one (1) threatened plant. Comprehensive avoidance, minimization, and mitigation plans are being developed in consultation with NHESP. Eversource submitted a draft Conservation and Management Plan (CMP) to NHESP on August 21, 2020 that will provide a long-term net benefit to the conservation of the State-listed species subject to the Take. Eversource has been working with NHESP and a final CMP will be issued prior to the start of construction.

A copy of the NOI will be provided to NHESP for comment under 310 CMR 10.59.

#### **4.0 REGULATORY REVIEW/ESTABLISHING JURISDICTION**

##### **4.1 WPA**

An OOC is requested from the Granby Conservation Commission to complete the replacement of seventeen (17) structures and ancillary work areas on the Lines 1113/1134 ROW. Eversource maintains that the work described herein, and proposed mitigation for unavoidable impacts, are consistent with the interests of the public and adequately protective of the interests of the Massachusetts WPA.

The proposed structure replacement work has been designed in accordance with the provisions of the WPA Regulations, which provides an exemption for utility maintenance activities within a maintained electric ROW under M.G.L. Chapter 131, Section 40 and 310 CMR 10.02(2)(a)(2):

*"activities conducted to maintain, repair or replace, but not substantially change or enlarge an existing and lawfully located structure or facility used in the service of the public and used to provide electric, gas, water, sewer, telephone, telegraph and other communication services, provided said work utilizes the best practical measures to avoid or minimize impacts to wetland resource areas outside the footprint of said structure or facility."*



In accordance with 310 CMR 10.02(2)(a)(2), the majority of the proposed work is exempt because it involves maintenance of existing transmission lines. Eversource considers its existing electric transmission structures and its appurtenant hardware (foundation, caissons, counterpoise, gradient rings, etc.) and its existing roads, where the limit/width of its historic access road where evidence of local and/or imported fill has been observed, as a part of its “existing facility”. Any activity conducted to maintain, repair and/or replace, but not substantially enlarge this facility, is not subject to jurisdiction under the WPA. The temporary placement of construction mats in the BVW, Buffer Zone, RA, and BLSF to access structures and provide safe work pads is not a substantial change or enlargement of the transmission line facility and is therefore exempt.

The replacement of the structures is maintenance work and will not substantially change or enlarge the facility used in the service of the public to provide electric service. The change from a lattice structure to a monopole is a change in style and design but not a substantial change or enlargement of the existing utility. The new structures will be placed in the vicinity of the existing structures; no mid-span poles will be installed. Therefore, the replacement activities in resource areas, including RA, meet the criteria of an exempt maintenance activity stated at 310 CMR 10.02(2)(a)2. The difference in the pole size (diameter) in BVW will be addressed in this NOI because the size of the pole, although not significantly greater, is larger than what the Amended ACO allows as an exemption under the WPA Regulations.

#### 4.2 401 WATER QUALITY CERTIFICATION / ACO

The MassDEP issued an Amended Administrative Consent Order (ACO #WE-17-6W001-NT) to Eversource to serve as an interim authorization for activities that are the intended subject of a Comprehensive General Water Quality Certification application to allow activities to maintain the electric transmission systems operated by Eversource anywhere within the Commonwealth of Massachusetts. The ACO allows for the replacement of structures and placement of temporary construction mats in BVW and Waters of the United States within the Commonwealth (WUSWC), as defined by the U.S. Army Corps of Engineers. As such, Eversource will submit a notification to MassDEP under File No. 00001357 (amended ACO #WE-17-6W001-NT) to comply with Section 401 of the Clean Water Act for activities that are authorized by the ACO.

For activities that are not authorized under the Amended ACO and in accordance with the Clean Water Act, Eversource will submit a Section 401 Water Quality Certification (WQC) to MassDEP. The 401 WQC will include the following activities that do not meet the authorization criteria of the ACO:

1. The placement of temporary construction mats that do not meet the Self Verification (SV) requirements of the Department of the Army General Permits for Massachusetts; and,
2. Installation of matting in BVW over 22,500 square feet for a work pad; and,
3. Limited removal of trees from BVW.

The placement of temporary work pads in BVW subject to the 401 are described and tabulated in Section 3.5 of this NOI.

#### 4.3 ANTICIPATED PERMITS

Eversource anticipates the following additional permits and/or submittals to be made in support of this project:

- Submittal of Self Verification Notification Forms (SVNFs) to the U.S. Army Corps of Engineers (USACE) New England District under the General Permit for Massachusetts;
- Submittal of a Pre-Construction Notification (PCN) to USACE New England District under the General Permit for Massachusetts;
- Submittal of a Section 401 Water Quality Certification application to MassDEP;





- Submittal of documentation to MassDEP to comply with the Amended Administrative Consent Order (ACO #WE-17-6W001-NT);
- Preparation of a stormwater pollution prevention plan (SWPPP) and submittal of a Notice of Intent to the U.S. Environmental Protection Agency (EPA) for authorization under the National Pollution Discharge Elimination System (NPDES) 2016; and,
- MESA Determination Letter and Conservation Management Permit from MA NHESP.

#### 4.4 SUMMARY OF WORK

The proposed work in Granby, as summarized below, is anticipated to begin in 2021. The placement of temporary construction mats and construction of gravel access roads and work pads is expected to start in February 1, 2021 and will continue through October 27, 2021. After the completion of structure installations and electrical work, construction mat removal, and site restoration will begin in July 2022 and continue through May 2023.

Portions of the proposed work that are subject to review by the Commission under the WPA consist of the following:

- Use of temporary matting in BVW;
- Replacing structures in BVW, RA, and BLSF;
- Placement of gravel in Buffer Zone; and,
- Tree removal.

The proposed work involves replacement of forty-six (46) metal lattice frame structures and one (1) double H-frame structure with new monopole type structures, in locations as shown on the Project Plans in Appendix B. The removal of the lattice structures will include the removal of the concrete footings to a depth of approximately one foot below grade with restoration of the ground surface. Photos showing examples of the existing and proposed structures are provided as follows:



Typical existing metal lattice frame structure



Typical proposed double monopole type structure



Double wooden H-frame Structure 10269 in Granby

Access to structures will be via existing or proposed gravel access roads in upland areas or existing gravel access roads or temporary construction matting in the Buffer Zone, with exception of the locations described below. Where there is no existing access road in BVW, construction mats will be used to build a temporary access road. Spans will be used to cross side to side where access is necessary and avoid impacts to watercourses as identified on the Project plans.

For both jurisdictional activities and non-jurisdictional activities described below, appropriate erosion and sedimentation control measures will be installed to protect adjacent BVW areas in accordance with the Eversource Construction & Maintenance Environmental Requirements, Best Management Practices Manual for Massachusetts and Connecticut, September 2016 (BMP Manual). An electronic copy of the BMP Manual can be provided to the Conservation Commission if desired. Based on the use of BMPs, temporary construction mats, and the stability of gravel work pads and access roads, there are no anticipated impacts or alterations to adjacent resources outside of those described below.

Where temporary impacts to resource areas are proposed, the areas will be backfilled or graded as necessary and restored with a native wetland seed mix, such as New England Wetmix, which contains Fox Sedge (*Carex vulpinoidea*), Lurid Sedge (*Carex lurida*), Blunt Broom Sedge (*Carex scoparia*), Blue Vervain (*Verbena hastata*), Fowl Bluegrass (*Poa palustris*), Hop Sedge (*Carex lupulina*), Green Bulrush (*Scirpus atrovirens*), Creeping Spike Rush (*Eleocharis palustris*), Fringed Sedge (*Carex crinita*), Soft Rush (*Juncus effusus*), Spotted Joe Pye Weed (*Eupatorium maculatum*), Rattlesnake Grass (*Glyceria canadensis*), Swamp aster (*Aster puniceus*), Blueflag (*Iris versicolor*), Swamp Milkweed (*Asclepias incarnata*), Square stemmed Monkey Flower (*Mimulus ringens*).

#### 4.5 SCOPE OF JURISDICTIONAL ACTIVITIES

The maps presented in Appendix B identify the locations of Project construction activities subject to the WPA.

##### **Temporary Work Pads, Pull Pads and Access Roads in BVW**

To safely replace and provide continued access to the proposed structures, Eversource intends to establish temporary work pads, pull pads, and access roads in portions of BVW to create a stable work area to support the equipment necessary for structure replacement activities. These temporary features will be built with construction matting. The locations of



temporary matting are shown on the map set in Appendix B. At the conclusion of replacement activities, the mats will be removed, and the areas allowed to return to pre-construction conditions.

Much of the temporary construction matting planned in Granby is under the authorization of the ACO and therefore not considered a jurisdictional activity. Only the mats which do not meet the ACO criteria, as described above, require 401 WQC authorization and are considered a jurisdictional activity. The following tables summarize the jurisdictional temporary matting locations and impacts.

**Table 6: Proposed Matting for Work Pad and Pull Pad Locations in BVW**

STR Number and Type	Map Page	Total SF matting
10247 work pad	7	7,000
10250 work pad	9	1,300
10267 pull pad	16	5,700
10267 work pad	16	13,600
10268 work pad	17	23,700
10269 work pad	17	18,300
10275 work pad	19	12,000
10277 work pad	20	18,300
<b>TOTAL:</b>		<b>99,900</b>

**Table 7: Proposed Matting for Access Roads in BVW**

Location	Map Page(s)	Total SF matting
Access to STR 10247	7	840
Access to STR 10248	9	4,200
Access to STR 10250 from Easton St.	9	6,900
Access between STR 10267 and 10268	16 & 17	1,160
Access to STR 10269	17	4,500
Access to STR 10275	19	750
Access to STR 10276	20	6,300
Access to STR 10277	20	420
<b>TOTAL</b>		<b>25,070</b>

### Replacement of Structures in BVW

The loss of wetlands from the installation of the proposed structures in BVW will be permitted under the 401 WQC and this NOI. For this project, the following are types of structure installations are proposed:

- Installation of monopoles in a 5.5' diameter caisson. Each caisson covers 24 square feet.
- Installation of monopoles in a 6' diameter caisson. Each caisson covers 28 square feet.

To mitigate for wetland loss, Eversource plans to remove the concrete footings in the wetlands at least one (1) foot below grade and restore the wetland surface, in accordance with the BMP manual. Based on a conservative estimate of the



concrete footing size, each footing is approximately 9 square feet or 36 square feet per structure for BVW restoration. An H-frame structure will also be removed, resulting in approximately 8 square feet per structure of BVW restoration.



Typical lattice structure footing

The total square footage of BVW loss and gain from the structure replacement in BVW is summarized below.

**Table 8: Summary of Proposed Structure Replacement Impacts in BVW**

Map Sheet	STR #	Existing STR Type / New STR Type	Activity	BVW Area (SF) (loss or gain)	Net Change per STR
16	10267	Lattice / Monopole in 5.5' caisson	Removal of existing STR	-36 SF (gain)	-12 SF (gain)
			Installation of replacement STR	24 SF (loss)	
17	10268	Lattice / Monopole in 5.5' caisson	Removal of existing STR	-36 SF (gain)	-12 SF (gain)
			Installation of replacement STR	24 SF (loss)	
17	10269	Double H-Frame / Monopole in 6' caisson	Removal of existing STR	-8 SF (gain)	20 SF (loss)
			Installation of replacement STR	28 SF (loss)	
19	10275	Lattice / Monopole in 6' caisson	Removal of existing STR	-36 SF (gain)	-8 SF (gain)
			Installation of replacement STR	28 SF (loss)	
20	10277	Lattice / Monopole in 6' caisson	Removal of existing STR	-36 SF (gain)	-8 SF (gain)
			Installation of replacement STR	28 SF (loss)	
Total Structure Replacement Impacts in BVW:					-20 SF (gain)



Because the cumulative footprint of the existing structures is smaller than proposed structures, a 20 square foot wetland gain is anticipated to result from the project. Wetland details are summarized in the data sheets provided in Appendix C.

To stabilize the newly installed structure, screw type guy anchors may be installed within BVW. There is no anticipated area of disturbance associated with the installation of these anchors. If the ground conditions do not allow for a secure anchor by that method, a concrete footing will be installed below grade onto which the anchor will be secured. If the anchors need to be installed into a concrete footing, the excavated soils will be temporarily stored on geotextile fabric and replaced immediately after the work has been conducted. The vegetation removed will be set aside and immediately replaced following the completion of work and backfilling with the soils stored on geotextile. According to the MassDEP, the anchor mountings meet the intent and definition of “piling” and do not constitute fill material in a wetland. Therefore, there is no net impact to BVW from the installation of anchors.

#### **Construction of Gravel Work Pads, Pull Pads and Access Roads in Buffer Zone**

To safely replace and provide continued access to the proposed structures, Eversource intends to establish gravel work pads, pull pads, and access roads in portions of wetland Buffer Zones to create a stable work area to support the equipment necessary for structure replacement activities. Once constructed, the gravel work pads, pull pads, and access roads are considered permanently stable. To avoid and minimize impacts to sensitive resource areas, temporary construction mats will be utilized to supplement the work pads and access roads at BVW/Buffer Zone boundaries, as necessary. At the conclusion of the replacement activities, the matting will be removed.

The work pads will be constructed of eight (8) to twelve (12) inches of 3- to 8-inch riprap, top-dressed with approximately 4 inches of crushed stone (3” minus).

Gravel pads will be established in portions of wetland Buffer Zones at the locations summarized in the following table. Where listed as “temporary”, the gravel will be removed, and the area restored upon completion of the project.

**Table 9: Proposed Buffer Zone Impacts from Gravel Work Pad and Pull Pad Locations**

<b>STR Number and Type</b>	<b>Map Page</b>	<b>Permanent (SF)</b>	<b>Temporary (SF)</b>
10236 work pad	3	6,600	1,330
10236 pull pad	3	0	4,970
10245 work pad	6	5,000	0
10248 work pad	7	3,100	0
10249 work pad	9	5,050	0
10250 work pad*	9	11,875	0
10264 work pad	15	5,660	0
10266 work pad	16	860	0
10270 work pad*	17	5,000	0
<b>TOTAL:</b>		<b>43,145</b>	<b>6,300</b>

(\*) Work pads will be constructed with a combination of gravel and temporary construction mats to reduce impact.

The access roads will be constructed of eight (8) to twelve (12) inches of 3- to 8-inch riprap, top-dressed with approximately 4 inches of crushed stone (3” minus). The maximum width of the travelled road surface will be 16 feet, which is typical for a ROW access road for this type of construction work. Construction of gravel access roads are proposed at the following locations:





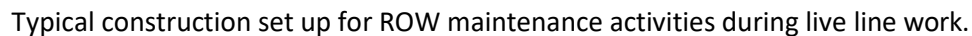
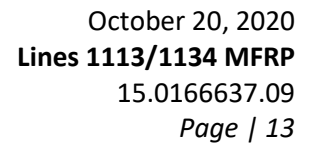
**Table 10: Proposed Gravel Access Roads and Buffer Zone Impacts**

Location	Map Page(s)	Permanent (SF)
Between STRs 10248 and 10249	7 and 9	1,575
Between STRs 10263 and 10264	15	1,910
Off-ROW access to STR 10264	15	1,325
Between STRs 10277 and 10278	20–21	1,550
<b>TOTAL:</b>		<b>6,360</b>

The following photos depict typical gravel construction pads and the equipment used for structure replacement activities.



Typical gravel work pad needed for ROW maintenance activities.



Four (4) structures scheduled for replacement are located within RA. The new structures will be installed in a manner as described above. Based on the dimensions of the new and existing structures (as previously described), a total disturbance area of -68 square feet is anticipated within RA resource areas from structure installation and removal. The following table summarizes the total impacts to RA resulting from structure replacement.

Map Sheet	Structure No.	Watercourse	Total RA Area (SF)	Activity	RA Area (SF) (loss or gain)	Total Area of Impact (SF)
10	10252	Unnamed perennial stream	361,933	Removal of existing STR	-36 (gain)	-36 (gain)
				Installation of replacement STR (outside RA)	0 SF	
16–17	10267 & 10268	Unnamed tributary to Stony Brook	705,644	Removal of existing STRs	-72 (gain)	-24 (gain)
				Installation of replacement STRs	48 (loss)	
19	10275	Stony Brook	811,560	Removal of existing STR	-36 (gain)	-8 (gain)
				Installation of replacement STR	28 (loss)	
TOTAL						-68 (gain)





## Replacement of Structures in Bordering Land Subject to Flooding

Upon review of the most recently published Flood Insurance Rate Map (FIRM) prepared by the Federal Emergency Management Agency (FEMA), three (3) structure replacements (STRs 10268, 10269, and 10275) are located within a Bordering Land Subject to Flooding (BLSF) resource (a.k.a. 100-year floodplain) as shown on the Project plans.

All three structures are located in flood zone AE as mapped on FEMA FIRM 2501620015B, effective date January 2, 1980 and further described in the US Department of Housing and Urban Development Federal Insurance Administration Flood Insurance Study for the Town of Granby dated July 1979. Based on the available flood profiles and map interpolation, GZA identified the 100-year and 10-year flood elevations for the structure locations as listed in Table 12. The existing grade at each structure was determined from data promulgated by National Oceanic and Atmospheric Association (NOAA) Office for Coastal Management effective December 15, 2016. All elevations are measured in feet (NGVD29).

**Table 12: Grade and Flood Elevation Data**

STR No.	Existing Grade	100-Year Flood Elevation	Difference	10-Year Elevation	Difference
10268	226	226.5	0.5	225.5	NA
10269	227	227	0	226	NA
10275	220	220.5	0.5	218.5	NA

Based on the grade and flood elevation data, none of the three structures within BLSF are within the 10-year flood plain. The difference between the existing grade and the 100-year flood elevation is the height used in the flood displacement volume calculations for each structure. GZA did not account for the tapering of the proposed monopoles, nor the lattice structure proper (i.e. cross beams, legs, supports) as these volumes were negligible compared to the total monopole and lattice foundation calculations. These structures are legally existing displacement in BLSF. The proposed work will replace these structures and decrease the total net displacement of BLSF by 10 CF within the Project area in Granby. No surface area change is anticipated from the proposed work.

**Table 13: Summary of Proposed Impacts in Bordering Land Subject to Flooding**

Map Sheet	STR No.	Existing STR Type / New STR Type	Activity	BLSF Area (SF)	Total Impact (SF)	BLSF Volume (CF)	Total Impact (CF)
17	10268	Lattice / Monopole in 5.5' caisson	Removal of existing STR	-36 SF (gain)	-12 SF (gain)	-18 CF (gain)	-6 CF (gain)
			Installation of replacement STR	24 SF (loss)		12 CF (loss)	
17	10269	Double H-Frame / Monopole in 6' caisson	Removal of existing STR	-8 SF (gain)	20 SF (loss)	0 CF	0 CF
			Installation of replacement STR	28 SF (loss)		0 CF	



Map Sheet	STR No.	Existing STR Type / New STR Type	Activity	BLSF Area (SF)	Total Impact (SF)	BLSF Volume (CF)	Total Impact (CF)
19	10275	Lattice / Monopole in 6' caisson	Removal of existing STR	-36 SF (gain)	-8 SF (gain)	-18 CF (gain)	-4 CF (gain)
			Installation of replacement STR	28 SF (loss)		14 CF (loss)	
TOTAL				0 SF		-10 CF (gain)	

Note: CF = cubic feet

### Tree Removal in Buffer Zone, BVW, RA, and BLSF

Between February 2020 and September 2020, GZA and Eversource identified trees within 50 feet of the proposed circuit (i.e., wires), which is the area that needs to be clear of trees. As a result of the survey, some areas will require tree removal; other areas will only require side trimming of the canopy, which is a typical ROW management practice. The estimated tree removal areas based on the integration of the three data collection efforts are shown on the plans in Appendix B. The overall amount of tree removal is estimated as follows:

- Approximately 16,400 SF in BVW;
- Approximately 19,775 SF in Buffer Zone;
- Approximately 7,675 SF in RA; and
- Approximately 3,750 SF in BLSF.

The estimated tree removal areas represent approximately 2.5% (16,400 SF of 663,000 SF) and 0.4% (7,675 SF of 1,879,200 SF) of the total BVW and RA areas, respectively, within the ROW in Granby. For comparison, the entire ROW is approximately 4,073,200 SF and only approximately 47,600 SF of trees in resource areas and buffer zone will be removed.

Tree cutting areas will be accessed using routes shown on the site plans. Where no access road is shown in BVW, crews will access the trees on foot. The trees will be cut by hand at or near grade and the stumps will remain in place. Some understory vegetation may be impacted during the tree removal activities; however, the understory vegetation will be left in place to the extent feasible. No increased sedimentation is anticipated as the root mass and seed stock will be unaffected and will remain to stabilize the soil surface. If accessible by equipment, cut trees will be chipped to an area outside the wetlands. Otherwise, the trees will be cut into sections and left in place.

The removal of trees is not anticipated to alter the topography of the landscape as no grubbing will occur. Tree removal will mostly occur in small patches or single trees within 50 feet of the proposed circuit. The proposed tree removal work will result in a conversion of habitat from forest edge to scrub-shrub habitat. Functionally, wildlife habitat of the landscape within the ROW will be substantially unchanged after the selective removal of trees.



#### 4.6 NON-JURISDICTIONAL ACTIVITIES

##### **Temporary Work Pads and Access Roads in BVW and IVW**

In locations where temporary matting meets the requirements of the ACO, the use of temporary matting in BVW and IVW is not considered a jurisdictional activity. Temporary matting is shown on the map set in Appendix B. At the conclusion of replacement activities, the matting will be removed.

##### **Replacement of Structures and Temporary Matting in Buffer Zone**

As discussed in Section 3.1, the structure replacements and temporary matting necessary to replace the structures is exempt from the WPA regulations through the maintenance provision.

***Table 14: Structures to be Replaced in Buffer Zone***

<b>Structure Number(s)</b>	<b>Activity</b>
10245, 10247, 10249, 10250, 10261, 10273, 10276	Replace in-Kind
10266, 10270, 10272	Remove from Buffer Zone. Replace in unregulated area (upland).
10236	Remove from unregulated area. Replace in Buffer Zone.

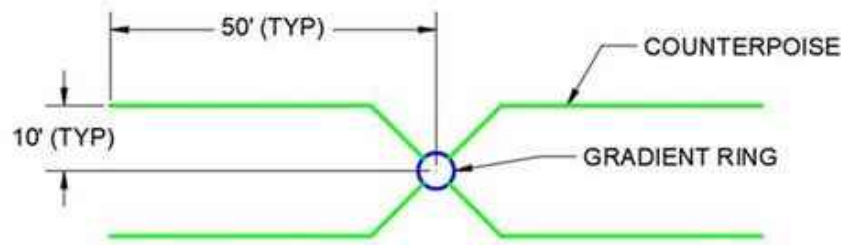
Construction mats will be used to build temporary work pads, pull pads, and access roads in Buffer Zones as shown on the mapping in Appendix B. The use of temporary mats is an Eversource BMP. The mats will be placed and removed in accordance with the Eversource BMP Manual. Upon removal of the mats, restoration will be performed, if needed.

##### **Temporary Work Pads, Pull Pads and Access Roads in Riverfront Area**

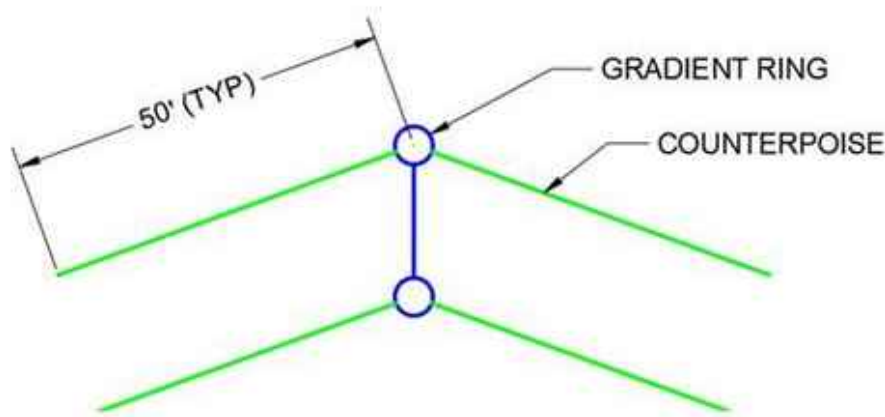
The use of construction mats to build temporary work pads and access roads through RA is considered a BMP. This use of mats in RA is a temporary impact to the resource area and is exempt from the WPA regulations through the maintenance provision because their use will not substantially change or enlarge the existing and lawfully located structure or facility. The locations of temporary construction mats to build access roads, work pads and pull pads are shown on the mapping in Appendix B. At the conclusion of the replacement activities, the matting will be removed.

##### **Counterpoise Installation in BVW, Riverfront Area, and/or Buffer Area**

Counterpoise (an electrical grounding system) will be installed at each structure location, unless otherwise determined by Eversource engineering or in sensitive environmental areas. The counterpoise is an underground wire that extends approximately 50 feet from the structure. The counterpoise is connected to the gradient ring, which is an underground metal ring centered around the pole at each structure. Eversource proposes to install counterpoise within areas which will already be disturbed from structure replacement activities. The impacts from the counterpoise installation are temporary and directly within the footprint of the work pads. Typical layouts of the counterpoise are shown in the following sketches:



Typical layout for single pole structure standard counterpoise.



Typical layout for two pole angle or dead-end location counterpoise.

## 5.0 ALTERNATIVES ANALYSIS

### 5.1 ALTERNATIVES ANALYSIS FOR REPLACEMENT OF STR IN BVW

- **No Build:** This alternative is not possible since the facility already exists within BVW resources and the transmission line requires replacement given its age and deteriorating condition. Therefore, this alternative is rejected from consideration.
- **Reduced Project Scope:** This alternative is not consistent with the goals and documented need to replace the STRs within the MFRP ROW. Therefore, this alternative is rejected from consideration.
- **Preferred Alternative:** The entire transmission utility needs to be replaced based on approved safety standards and design protocols for electric transmission utilities. Leaving STRs as-is will not achieve compliance with industry standards and result in a less resilient electric grid system. The proposed Project involves replacement of five (5) structures in BVW (STRs 10267, 10268, 10269, 10275, and 10277) with new monopole type structures. Eversource analyzed each structure location during engineering design of the project to avoid impacts where possible.



## 5.2 ALTERNATIVES ANALYSIS FOR RA

The proposed project involves the removal of four (4) structures and replacement of three (3) structures in RA with new monopole structures. Eversource analyzed these locations during engineering design of the project and avoided impacts where possible, resulting in one (1) structure being moved outside the RA. The three (3) replacement structures within RA area unavoidable because Eversource is limited by span distance requirements between structures. The work pad and access route configuration of each structure are discussed below.

### **Structure 10252**

At STR 10252, the structure is located on an existing gravel pad. The structure and a portion of gravel pad are located within the RA. Eversource proposes to remove the structure and replace it with a new structure located outside of the RA within the existing gravel pad. There are no permanent impacts proposed and therefore not alternative analysis is required.

### **Structures 10267 and 10268**

Access to and work pads and pull pads at STRs 10267 and 10268 will be matted without grading. The area is also a BVW, so impacts are designed to be the minimal necessary to safely accomplish the work. The unnamed tributary to Stony Brook will be spanned with mats in two locations to avoid impacts to Bank. After the work is complete, the mats will be removed, and the area allowed to return to pre-construction conditions. Impacts will be temporary.

Other alternatives were rejected based on the outcomes outlined in the following table.

***Table 15: Alternatives Analysis for Access and Work Pads for Structures 10267 and 10268 in RA***

<b>Alternative</b>	<b>Outcome</b>	<b>Justification</b>
Create a permanent gravel work pad and access road	Rejected	Placing a permanent gravel work pad and access road in RA will have greater resource area impacts than the selected alternative and is not needed based on the terrain.
Mat work pad and access road	Selected	Site terrain is flat, suitable for matting. Impacts are temporary and vegetation is expected to reestablish to pre-construction conditions.
Mat work pad and create small gravel road for access	Rejected	Permanent access not required in this area.

### **Structure 10275**

Access to and the work pad at STR 10275 will be matted without grading. The area is also a BVW, so impacts are designed to be the minimal necessary to safely accomplish the work. After the work is complete, the mats will be removed, and the area will be returned to pre-construction conditions to the extent practicable. Impacts will be temporary.

Other alternatives were rejected based on the outcomes outlined in the following table.



**Table 16: Alternatives Analysis for Access and Work Pad for Structure 10275 in RA**

Alternative	Outcome	Justification
Create a permanent gravel work pad and access road	Rejected	Placing a permanent gravel work pad and access road in RA will have greater resource area impacts than the selected alternative and is not needed based on the terrain.
Flat mat work pad and access road	Selected	Site terrain is flat, suitable for flat matting. Impacts are temporary and vegetation is expected to reestablish to pre-construction conditions.
Flat mat work pad and create small gravel road for access	Rejected	Permanent access not required in this area.

## 6.0 PERFORMANCE STANDARDS FOR WPA

### 6.1 PERFORMANCE STANDARDS FOR WORK IN BVW

In the development of the work plan for this project, Eversource avoided wetland impacts to the extent practicable. Where work cannot avoid wetland impacts, the amount of work was minimized to only that area needed to safely perform the work on a matted work pad. Unavoidable work within the BVW has been minimized to the maximum extent practicable, by using matting within BVW to avoid long-term impacts to the resources. For structures that must be replaced within BVW, the work has been kept under 5,000 SF and mitigation has been proposed in the form of restoring a previously impacted wetland for the construction of the footings for the lattice type structures. Structures being removed are within the same BVW area and same general location as where the new structure will be installed. The removed footing location will be restored based upon the adjacent wetland characteristics. Wetland loss will be mitigated in-situ.

### 6.2 PERFORMANCE STANDARDS FOR WORK IN BUFFER ZONE

Work within Buffer Zone is unavoidable due to the location of the structures to be replaced. However, the work has been minimized to the maximum extent practicable, through avoidance of wetland impacts and, where work is needed within Buffer Zones, the use of temporary construction matting to avoid soil compaction and eliminate the need to remove vegetation. In certain locations, as discussed for STR access, gravel will be installed within the Buffer Zone to create a safe and stable working surface and access. The Buffer Zone work is not expected to result in impacts to the adjacent resource area(s) and Eversource will include the following Best Management Practices to prevent unexpected impacts to wetlands.

Eversource will install appropriate sediment control measures between the work and the wetland resource to reduce or eliminate the potential for migration of disturbed soil towards the wetland. Monitoring of the E&S measures will be conducted during construction to further reduce the potential for impacts outside of the proposed limit of work.

### 6.3 PERFORMANCE STANDARDS FOR WORK WITHIN RIVERFRONT AREA

As stated above and summarized in Table 11, the proposed work in the RA includes approximately 80,350 square feet of temporary impact (matting and/or grading with restoration) and -68 square feet of permanent impact (structure



replacement) across the four structures in RA. At each location and cumulatively these impacts are less than 10% of the total RA on each parcel.

Table 17 outlines WPA performance standards for work within RA and the Project's conformance to them.

**Table 17: Performance Standards Review for Work in RA**

Reference Under 310 CMR 10.58(4) – General Performance Standards	
(a) Protection of other Resource Areas	BVW and Bank will be protected through the use of standard BMPs and appropriate erosion and sediment control measures during the construction period, as detailed in this NOI. Matting will be used to span banks and cross all wetland areas.
(b) Protection of Rare Species	The Project in RA is not located within NHESP mapped Priority & Estimated Habitat for Rare Species. Other portions of the work in Granby are within mapped habitat and Eversource will adhere to avoidance and minimization measures approved through consultation with NHESP ( <i>in progress</i> ).
(c) Practicable and Substantially Equivalent Economic Alternatives	Refer to <b>Section 4.0</b> for an assessment of alternatives at these locations. The proposed work is the most economically feasible and entails the least impact over the long term.
(d) No Significant Adverse Impact 1. The issuing authority may allow the alteration of up to 5,000 square feet or 10% of the RFA within the lot, whichever is greater.	Refer below for conformance with the No Significant Adverse Impact section for all sections 310 CMR 10.58(4)(d)(1) a through d.

The proposed work in the RA is necessary and unavoidable because of the poor condition of the structures located within the RA, installed prior to April 6, 1997, and the replacement structures cannot be relocated outside of the RA. In conformance with the No Significant Adverse Impact section of the Rivers Act regulations, 310 CMR 10.58(4)(d) 1 (a-d), the proposed work will meet the applicable standards as shown below:

- 1) 310 CMR 10.58(4)(d)1: The proposed work equals less than 10% of the RA in the ROW of this transmission line as measured on each lot where the impacts will occur.
- 2) 310 CMR 10.58(4)(d)(1)a: All temporary disturbance in the RA will be restored to pre-construction conditions.
- 3) 310 CMR 10.58(4)(d)(1)b: Stormwater Management does not apply to this project as no point source discharge is proposed. Per the recommended Final Decision issued on July 19, 2016 in the Matter of the Berkshire Community College Docket No. WET-2015-023 from MassDEP Office of Appeals and Dispute Resolution, it was





ruled out that 310 CMR 10.05(6)(k) through (q) does not apply to projects that do not propose a “point source” or “stormwater discharge” within resource areas or their Buffer Zones.

- 4) 310 CMR 10.58(4)(d)(1)c: The proposed work is within a disturbed RA and will not further impair the capacity of the RA to provide wildlife habitat functions. Each of the three proposed work areas will result in a net gain of RA which total 68 SF. No Wildlife Habitat Evaluation was required or conducted.
- 5) 310 CMR 10.58(4)(d)(1)d: The project will include sediment and erosion control measures, where necessary, to protect adjacent wetlands and watercourse from potential sedimentation and this effort will protect the water quality of the wetland resource. Erosion and sedimentation control measures will be installed in accordance with the Eversource Construction & Maintenance Environmental Requirements, Best Management Practices Manual for Massachusetts and Connecticut, September 2016 (BMP Manual). (An electronic copy of the BMP Manual can be provided to the Conservation Commission.)

## 7.0 MITIGATION

### 7.1 MITIGATION FOR STRUCTURE REPLACEMENTS IN BVW

The project includes the removal and replacement of five (5) structures in BVW (STRs 10267, 10268, 10269, 10275, and 10277). Eversource plans to remove the existing concrete footings in the wetlands to at least one foot below grade (in accordance with the Eversource BMP Manual) and restore the wetland surface by the placement of organic soil and native seed mix. The removal of the concrete footings and in-situ BVW restoration will result in a net gain of BVW, thus avoiding the need to provide additional mitigation.

### 7.2 MITIGATION FOR STRUCTURE REPLACEMENTS IN RA

The project includes the removal and replacement of four (4) structures in RA (STRs 10252, 10267, 10268, and 10275). The removal of the concrete footings of these STRs will include in-situ RA restoration, and the result will be a net gain of RA avoiding the need to provide additional mitigation.

### 7.3 MITIGATION FOR STRUCTURE REPLACEMENTS IN BLSF

The project includes the removal and replacement of three (3) structures in BLSF (STRs 10268, 10269, and 10275). The removal of the concrete footings of these STRs will result in a net decrease of flood storage displacement, thus eliminating the need to provide additional mitigation.

### 7.4 MITIGATION FOR TREE REMOVAL

Eversource proposes to provide mitigation for the proposed wetland conversion and RA impact due to tree removal discussed in **Section 3.5** by supporting the Commission, in the amount of \$3,300.00, for the purchase of trees or plantings for restoration projects within Granby. The donation was based on the following calculation:

(Acres of trees removed in BVW and RA) \* (USACE Mitigation Guidance) \* (Fee per Tree)

$$(0.55 \text{ acre}) * (500 \text{ trees / acre}) * (\$12 / \text{tree}) = \$3,300$$



GZA used the USACE New England District Compensatory Mitigation Guidance to determine the number of proposed plants per acre in the above calculation.



**APPENDIX A**

**WPA FORM 3 – NOTICE OF INTENT**

**AND OTHER DOCUMENTATION**



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

# WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Granby

City/Town

**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):

Line 1113 Line Right-of-Way (ROW)

a. Street Address

Granby

b. City/Town

01351

c. Zip Code

Latitude and Longitude:

n/a

f. Assessors Map/Plat Number

42.30260 to 42.23339

d. Latitude

-72.52280 to -72.55155

e. Longitude

n/a

g. Parcel /Lot Number

2. Applicant:

Jonathan

a. First Name

Roberge

b. Last Name

NSTAR Electric DBA Eversource

c. Organization

107 Seldon Street

d. Street Address

Berlin

e. City/Town

CT

f. State

06037

g. Zip Code

860-665-6327

h. Phone Number

i. Fax Number

Jonathan.roberge@eversource.com

j. Email Address

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

Eversource ROW

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):

Mary

a. First Name

Brittain

b. Last Name

GZA GeoEnvironmental, Inc.

c. Company

1350 Main Street, Suite 1400

d. Street Address

Springfield

e. City/Town

MA

f. State

01103

g. Zip Code

413-726-2137

h. Phone Number

i. Fax Number

mary.brittain@gza.com

j. Email address

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

\$2,875.00

a. Total Fee Paid

\$1,425.00

b. State Fee Paid

\$1,450.00

c. City/Town Fee Paid



**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

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Granby

City/Town

**A. General Information (continued)**

6. General Project Description:

Eversource is proposing to replace forty-seven (47) structures along the 1113 Line right-of-way (ROW) traversing an area north to southwest from Bay Road (Amherst) to East Street (South Hadley). Seventeen (17) of the proposed structures have proposed permanent or temporary impact in wetlands, buffer zones, and/or riverfront areas.

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 checked="" type="checkbox"/> Utilities                      | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation                |
| 9. <input type="checkbox"/> Other                                     |   |

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

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

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

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.



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

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Granby

City/Town

**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	132 (perm.); 124,970 (temp.); 16,400 (tree removal) 1. square feet	152 (perm.) & 124,970 (temp.) 2. square feet
c. <input checked="" type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	80 (perm.) & 3,750 (tree removal) 1. square feet 26 3. cubic feet of flood storage lost	80 (perm.) 2. square feet 36 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 checked="" type="checkbox"/> Riverfront Area	Unnamed perennial stream, Unnamed tributary to Stony Brook, Stony Brook - inland 1. Name of Waterway (if available) - <b>specify coastal or inland</b>	

2. Width of Riverfront Area (check one):

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

3. Total area of Riverfront Area on the site of the proposed project: 1,879,137  
square feet

4. Proposed alteration of the Riverfront Area:

68 (net perm. gain) & 7,675 tree removal a. total square feet	24 (net perm. gain) & 2,000 tree removal b. square feet within 100 ft.	44 (net perm. gain) & 5,675 tree removal 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.



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

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Granby

City/Town

**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 checked="" type="checkbox"/> Project Involves Stream Crossings		
	1 - temporary spanning with mats _____	
	a. number of new stream crossings _____	b. number of replacement stream crossings _____





**Massachusetts Department of Environmental Protection**  
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City/Town

**C. Other Applicable Standards and Requirements**

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

**Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review**

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

a. ☒ Yes ☐ No

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

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

August 2017

b. Date of map

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

- c. Submit Supplemental Information for Endangered Species Review\*

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

(a) within wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

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

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

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

(b) ☐ Photographs representative of the site

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

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



**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:

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

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

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

- (d) ☐ Vegetation cover type map of site
- (e) ☐ Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.  
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, [http://www.mass.gov/dfwele/dfw/nhESP/regulatory\\_review/ mesa/ mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhESP/regulatory_review/ mesa/ mesa_exemptions.htm); the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☒ Separate MESA review ongoing.

19-38624

a. NHESP Tracking #

June 29, 2020

b. Date submitted to NHESP

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

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

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

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

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

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

North Shore - Hull to New Hampshire border:

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

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



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

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Granby

City/Town

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

**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: No point source discharge proposed.
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.



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

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Granby

City/Town

**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.

Montague to Fairmont Structure Replacement Project

a. Plan Title

GZA

N/A

b. Prepared By

c. Signed and Stamped by

10/07/2020

1 in = 100 ft

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:

275506

9/2/2020

2. Municipal Check Number

3. Check date

275505

9/2/2020

4. State Check Number

5. Check date

GZA GeoEnvironmental, Inc.

6. Payor name on check: First Name

7. Payor name on check: Last Name



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

**WPA Form 3 – Notice of Intent**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Granby

City/Town

**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

10/20/20

2. Date

3. Signature of Property Owner (if different)

4. Date

10/20/20

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:**

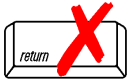
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.



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:

Line 1113 Right-of-Way

a. Street Address

275505

c. Check number

Granby

b. City/Town

\$1,425.00

d. Fee amount

### 2. Applicant Mailing Address:

Jonathan

a. First Name

Eversource

c. Organization

107 Selden Street

d. Mailing Address

Berlin

e. City/Town

860-665-6327

h. Phone Number

CT

f. State

06037

g. Zip Code

jonathan.roberge@eversource.com

j. Email Address

i. Fax Number

### 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).



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

**B. Fees** (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2j - Structure replacement activities	1	\$500	\$500
Category 2j in Riverfront	1	50% (\$250)	\$250
Category 4a - Crossing	1	\$1,450	\$1,450
Category 4a in Riverfront	1	50% (\$725)	\$725

**Step 5/Total Project Fee:**

**Step 6/Fee Payments:**

Total Project Fee:	\$2,875
	a. Total Fee from Step 5
State share of filing Fee:	\$1,425
	b. 1/2 Total Fee <b>less</b> \$12.50
City/Town share of filing Fee:	\$1,450
	c. 1/2 Total Fee <b>plus</b> \$12.50

**C. Submittal Requirements**

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

Department of Environmental Protection  
Box 4062  
Boston, MA 02211

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

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



275505

**GZA GEOENVIRONMENTAL, INC.**249 VANDERBILT AVENUE  
NORWOOD, MA 02062KeyBank National Association  
Salt Lake City, Utah 84115  
1-800-KEY2YOU

31-300/1243

CHECK DATE

September 2, 2020

PAY One Thousand Four Hundred Twenty Five and 00/100 Dollars

TO Commonwealth of Massachusetts

AMOUNT 1,425.00

NOT VALID IN EXCESS OF \$10,000 UNLESS COUNTERSIGNED  
NOT VALID AFTER 90 DAYS

AUTHORIZED SIGNATURE

⑈ 275505⑈ ⑆ 124303007⑆ 440991900109⑈

**GZA GEOENVIRONMENTAL, INC.**

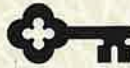
275505

Check Date: 9/2/2020

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
08282020	8/28/2020	0486319	1,425.00			1,425.00
Commonwealth of Massachusetts		TOTAL	1,425.00			1,425.00
Co 1 Key AP	5	152706				

275505

275506

**GZA GEOENVIRONMENTAL, INC.**249 VANDERBILT AVENUE  
NORWOOD, MA 02062KeyBank National Association  
Salt Lake City, Utah 84115  
1-800-KEY2YOU

31-300/1243

CHECK DATE

September 2, 2020

**PAY** One Thousand Four Hundred Fifty and 00/100 Dollars**TO** Town Of Granby  
250 State Street  
Granby, MA 01033**AMOUNT** 1,450.00NOT VALID IN EXCESS OF \$10,000 UNLESS COUNTERSIGNED  
NOT VALID AFTER 90 DAYS

AUTHORIZED SIGNATURE

⑈ 275506 ⑈ ⑆ 124303007⑆ 440991900109⑈

**GZA GEOENVIRONMENTAL, INC.**

275506

Check Date: 9/2/2020

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
08282020	8/28/2020	0486320	1,450.00			1,450.00
Town Of Granby		<b>TOTAL</b>	1,450.00			1,450.00
Co 1 Key AP	6	329419				

275506



CARBON NEUTRAL SHIPMENT

**Hello, your package has been delivered.**

**Delivery Date:** Wednesday, 10/21/2020

**Delivery Time:** 12:38 PM

**Left At:** INSIDE DELIV

**Signed by:** HUBBARD

**GZA GEOENVIRONMENTAL, INC.**

**Tracking Number:**

[1ZF2E0640398358418](#)

**Ship To:**

NATURAL HERITAGE & ENDANG SPECIES  
1 RABBIT HILL ROAD  
WESTBOROUGH, MA 01581  
US

**Number of Packages:**

1

**UPS Service:**

UPS Ground

**Package Weight:**

1.0 LBS

**Reference Number:**

15.0166637.09 TASK 6-2



[Download the UPS mobile app](#)

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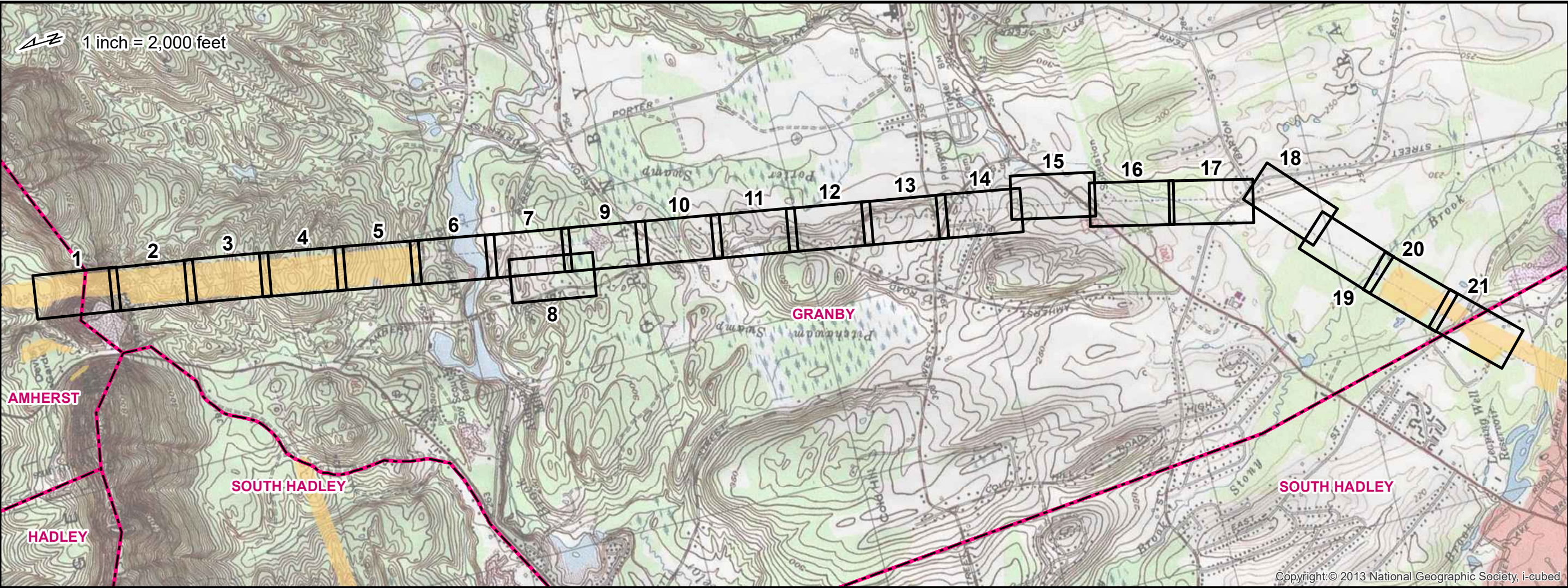
## **APPENDIX B**

### **MONTAGUE-FAIRMONT STRUCTURE REPLACEMENT PROJECT PLANS**



# MONTAGUE TO FAIRMONT STRUCTURE REPLACEMENT PROJECT

Granby, Massachusetts  
NOI Project Mapping  
10/07/2020



- Plan Map Set
- Municipal Boundary
- MA Outstanding Resource Water
- Eversource NHESP 2020 Rare Species Data

PREPARED FOR

**EVERSOURCE**  
ENERGY

107 Selden Street  
Berlin, CT 06037

**INDEX OF FIGURES**  
T1: TITLE SHEET  
1-21: MAP SHEETS

Map Notes:  
Basemap: USGS Topographic Map

The information/data provided in this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation or parcel level analysis. The maps should not be used for construction purposes. Recommended print size: 11" by 17"

PREPARED BY




















































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
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






**Legend**

	Existing Structure		Construct Gravel Work Pad (unless otherwise noted)		NHESP Priority & Estimated Habitat		Municipal Boundary
	Existing Structure to be Removed		Existing / Historical Gravel Work Area		NHESP Species Code		Line List Label
	Proposed Structure		Stream Span		MA Outstanding Resource Waters		Fence
	Guy Anchor		Field Delineated Wetland Line		MA Areas of Critical Environmental Concern		Stone Wall
	Transmission Line		Field Delineated Wetland		Agricultural Preservation Restriction		Culvert
	Existing Access Road		Open Water		FEMA 100yr Floodzone		Gate
	Proposed Access Road		Delineated Intermittent Stream		NHESP Certified Vernal Pool		Bus Stop
	Proposed Access Road in Regulated Area		Delineated Perennial Stream		Confirmed Vernal Pool Extent		Manhole
	Proposed Alternate Access		Delineated OHW		Line List Parcel		Railroad
	Temporary Upland Construction Matting		Estimated Stream Centerline (not delineated)		Approx ROW Limits		Hiking Trail
	Temporary Wetland Construction Matting		Local Buffer		Eversource-Owned Property		Map Sheet Matchline
			100ft Buffer Zone		State-Owned Property		10' Contour Line
			200ft Riverfront Area				Underground Conduit



 Tree To Be Removed


 Tree Removal

 Inactive Landfill

Counterpoise to be installed at all structure locations as specified by engineering, unless otherwise noted.

**Resource Area Code:**  
 BWV: Bordering Vegetated Wetland  
 IVW: Isolated Vegetated Wetland  
 OWH: Ordinary High Water

**Map Notes:**  
Data valid as of October 2020.  
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0 25 50 100  
1 in = 100 ft  Feet

**MONTAGUE – FAIRMONT**  
**STRUCTURE REPLACEMENT**  
**PROJECT**

AMHERST/GRANBY  
MASSACHUSETTS

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Project No.: 15.0166637.09

10/09/2020

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Legend			
	Existing Structure		Construct Gravel Work Pad (unless otherwise noted)
	Existing Structure to be Removed		Existing / Historical Gravel Work Area
	Proposed Structure		Stream Span
	Guy Anchor		Field Delineated Wetland Line
	Transmission Line		Field Delineated Wetland
	Existing Access Road		Open Water
	Proposed Access Road		Delineated Intermittent Stream
	Proposed Access Road in Regulated Area		Delineated Perennial Stream
	Proposed Alternate Access		Delineated OHW
	Temporary Upland Construction Matting		Estimated Stream Centerline (not delineated)
	Temporary Wetland Construction Matting		Local Buffer
			100ft Buffer Zone
			200ft Riverfront Area
			NHESP Priority & Estimated Habitat
			NHESP Species Code
			MA Outstanding Resource Waters
			MA Areas of Critical Environmental Concern
			Agricultural Preservation Restriction
			FEMA 100yr Floodzone
			NHESP Certified Vernal Pool
			Confirmed Vernal Pool Extent
			Line List Parcel
			Approx ROW Limits
			Eversource-Owned Property
			State-Owned Property
			Municipal Boundary
			Line List Label
			Fence
			Stone Wall
			Culvert
			Gate
			Bus Stop
			Manhole
			Railroad
			Hiking Trail
			Approx Distribution Line
			Map Sheet Matchline
			10' Contour Line
			Underground Conduit
			Tree To Be Removed
			Tree Removal
			Inactive Landfill
			<p>Counterslope to be installed at all structure locations as specified by engineering, unless otherwise noted.</p> <p><b>Resource Area Code:</b>            BW: Bordering Vegetated Wetland            IWW: Isolated Vegetated Wetland            OHW: Ordinary High Water</p>

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0 25 50 100  
 1 in = 100 ft  Feet

**MONTAGUE – FAIRMONT**  
**STRUCTURE REPLACEMENT**  
**PROJECT**

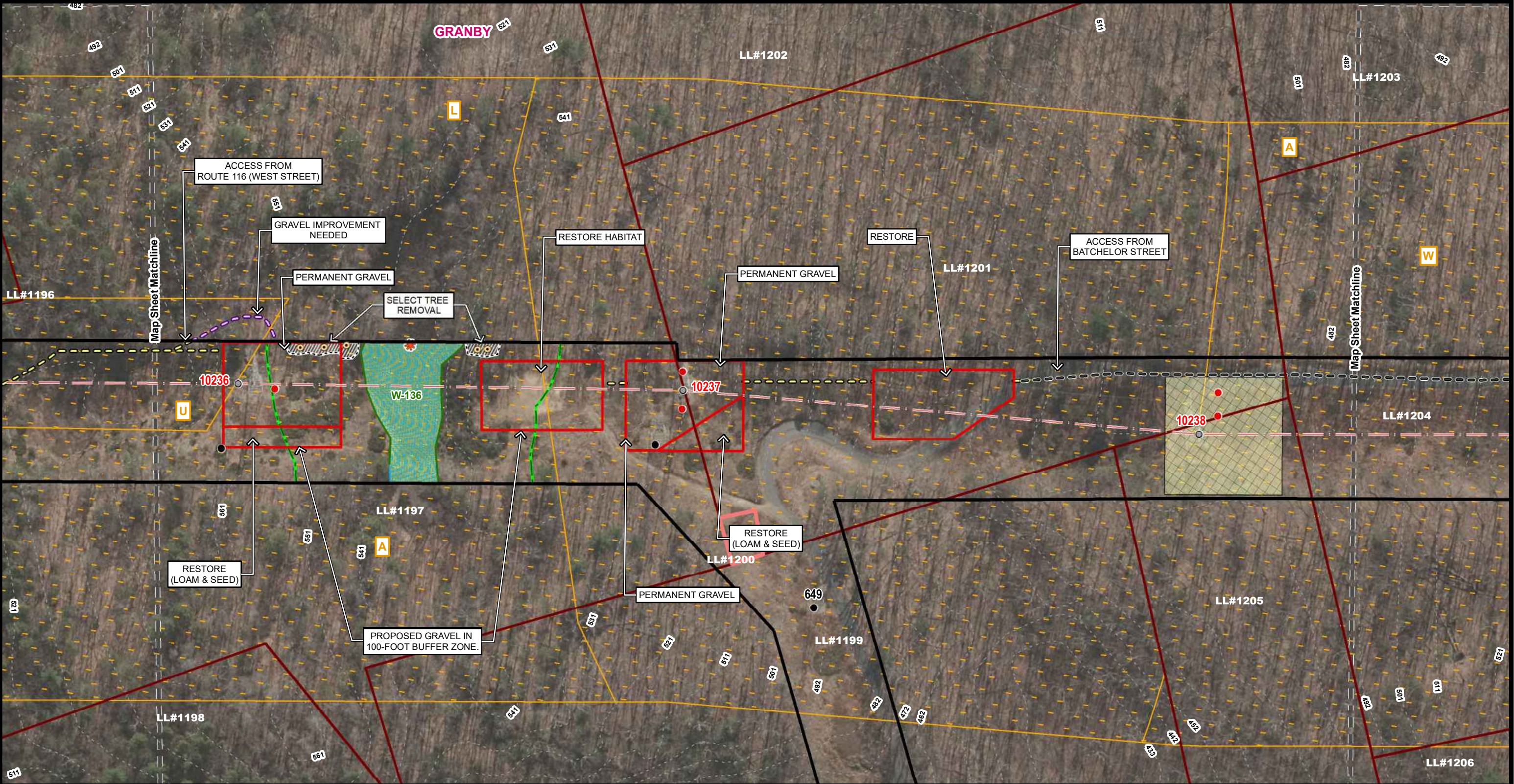
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MASSACHUSETTS

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Project No.: 15.0166637.09 10/09/2020







<b>Legend</b>	<b>Legend</b>	<b>Legend</b>	<b>Legend</b>
Existing Structure	Construct Gravel Work Pad (unless otherwise noted)	NHESP Priority & Estimated Habitat	Municipal Boundary
Existing Structure to be Removed	Existing / Historical Gravel Work Area	NHESP Species Code	Line List Label
Proposed Structure	Stream Span	MA Outstanding Resource Waters	Fence
Guy Anchor	Field Delineated Wetland Line	MA Areas of Critical Environmental Concern	Stone Wall
Transmission Line	Field Delineated Wetland	Agricultural Preservation Restriction	Culvert
Existing Access Road	Open Water	FEMA 100yr Floodzone	Gate
Proposed Access Road	Delineated Intermittent Stream	NHESP Certified Vernal Pool	Bus Stop
Proposed Access Road in Regulated Area	Delineated Perennial Stream	Confirmed Vernal Pool Extent	Manhole
Proposed Alternate Access	Delineated OHW	Line List Parcel	Railroad
Temporary Upland Construction Matting	Estimated Stream Centerline (not delineated)	Approx ROW Limits	Hiking Trail
Temporary Wetland Construction Matting	100ft Buffer Zone	Eversource-Owned Property	Approx Distribution Line
	200ft Riverfront Area	State-Owned Property	Map Sheet Matchline
			10' Contour Line
			Underground Conduit
			Counterpoise to be installed at all structure locations as specified by engineering, unless otherwise noted.
			Tree To Be Removed
			Tree Removal
			Inactive Landfill
			Resource Area Code: BWW: Bordering Vegetated Wetland I/VW: Isolated Vegetated Wetland OHW: Ordinary High Water

**Map Notes:**  
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1 in = 100 ft

0 25 50 100 Feet

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STRUCTURE REPLACEMENT  
PROJECT**

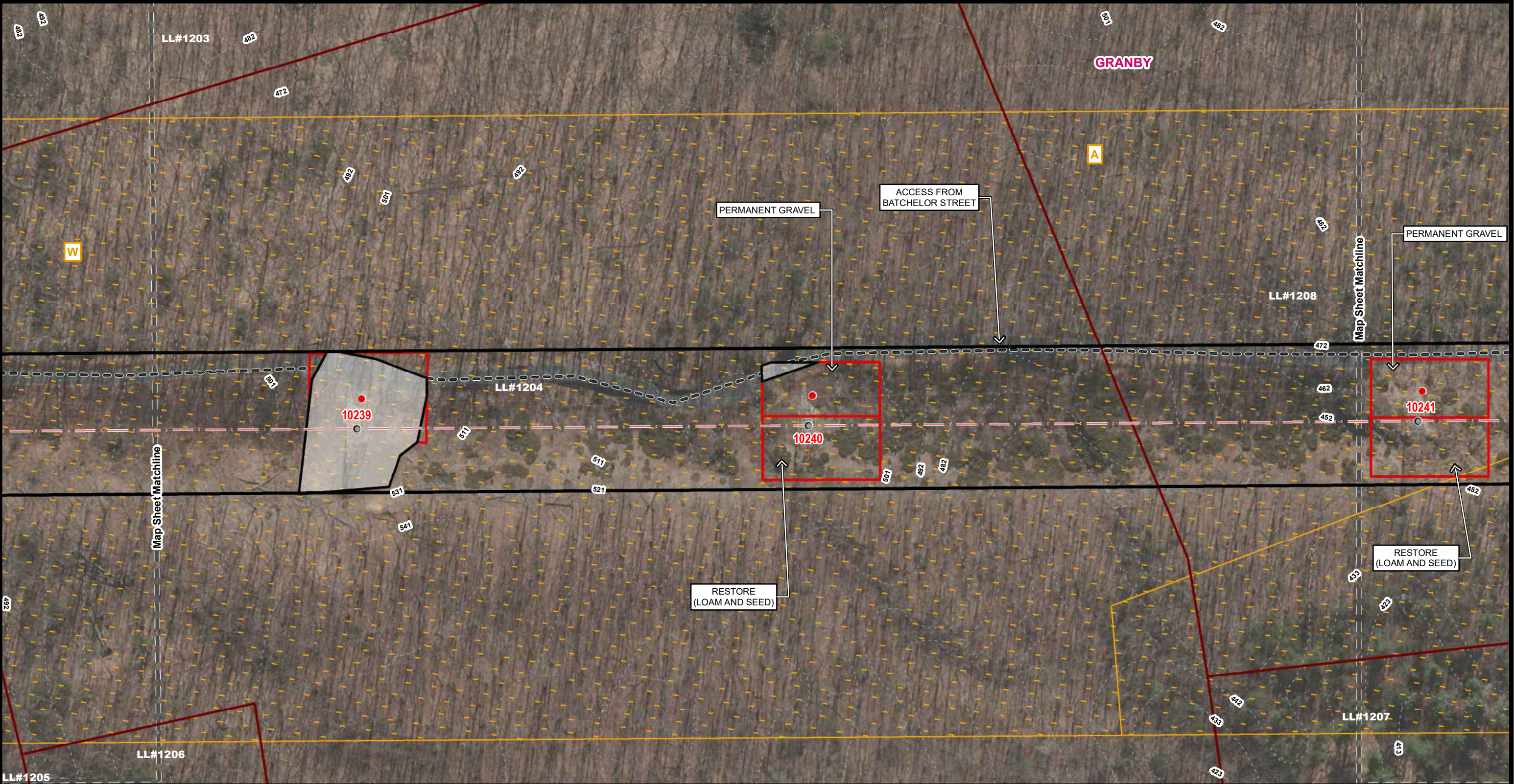
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Project No.: 15.0166637.09 10/09/2020

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**Legend**

<ul style="list-style-type: none"><li>Existing Structure</li><li>Existing Structure to be Removed</li><li>Proposed Structure</li><li>Guy Anchor</li><li>Transmission Line</li><li>Existing Access Road</li><li>Proposed Access Road</li><li>Proposed Access Road in Regulated Area</li><li>Proposed Alternate Access</li><li>Temporary Upland Construction Matting</li><li>Temporary Wetland Construction Matting</li></ul>	<ul style="list-style-type: none"><li>Construct Gravel Work Pad (unless otherwise noted)</li><li>Existing / Historical Gravel Work Area</li><li>Stream Span</li><li>Field Delineated Wetland Line</li><li>Field Delineated Wetland</li><li>Open Water</li><li>Delineated Intermittent Stream</li><li>Delineated Perennial Stream</li><li>Delineated OHW</li><li>Estimated Stream Centerline (not delineated)</li><li>Local Buffer</li><li>100ft Buffer Zone</li><li>200ft Riverfront Area</li></ul>	<ul style="list-style-type: none"><li>NHESP Priority &amp; Estimated Habitat</li><li>NHESP Species Code</li><li>MA Outstanding Resource Waters</li><li>MA Areas of Critical Environmental Concern</li><li>Agricultural Preservation Restriction</li><li>FEMA 100yr Floodzone</li><li>NHESP Certified Vernal Pool</li><li>Confirmed Vernal Pool Extent</li><li>Line List Parcel</li><li>Approx ROW Limits</li><li>Eversource-Owned Property</li><li>State-Owned Property</li></ul>	<ul style="list-style-type: none"><li>Municipal Boundary</li><li>Line List Label</li><li>Fence</li><li>Stone Wall</li><li>Culvert</li><li>Gate</li><li>Bus Stop</li><li>Manhole</li><li>Railroad</li><li>Hiking Trail</li><li>Approx Distribution Line</li><li>Map Sheet Matchline</li><li>10' Contour Line</li><li>Underground Conduit</li></ul>	<ul style="list-style-type: none"><li>Tree To Be Removed</li><li>Tree Removal</li><li>Inactive Landfill</li></ul>
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Counterpoise to be installed at all structure locations as specified by engineering, unless otherwise noted.

**Resource Area Code:**  
BWW: Bordering Vegetated Wetland  
IVW: Isolated Vegetated Wetland  
OHW: Ordinary High Water

**Map Notes:**  
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1 in = 100 ft

0 25 50 100 Feet

**MONTAGUE – FAIRMONT  
STRUCTURE REPLACEMENT  
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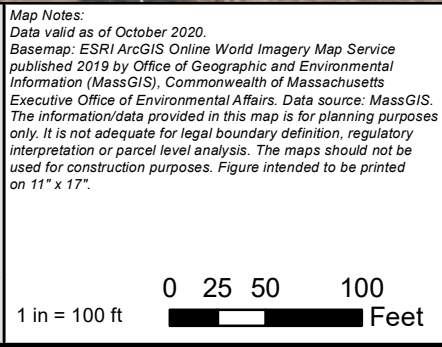
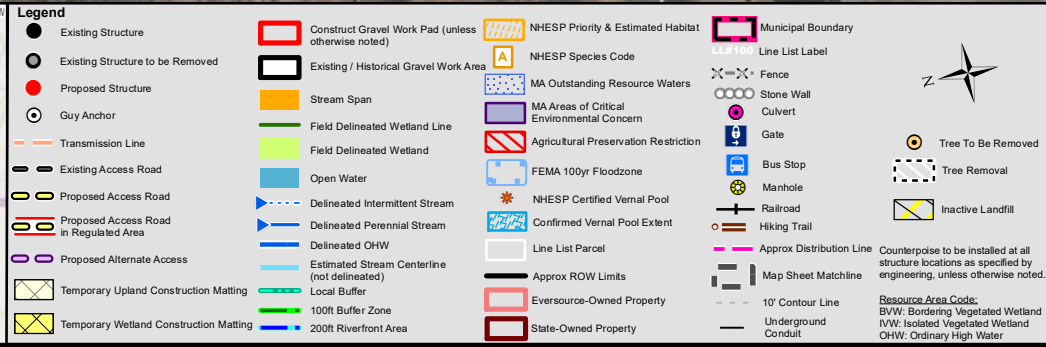
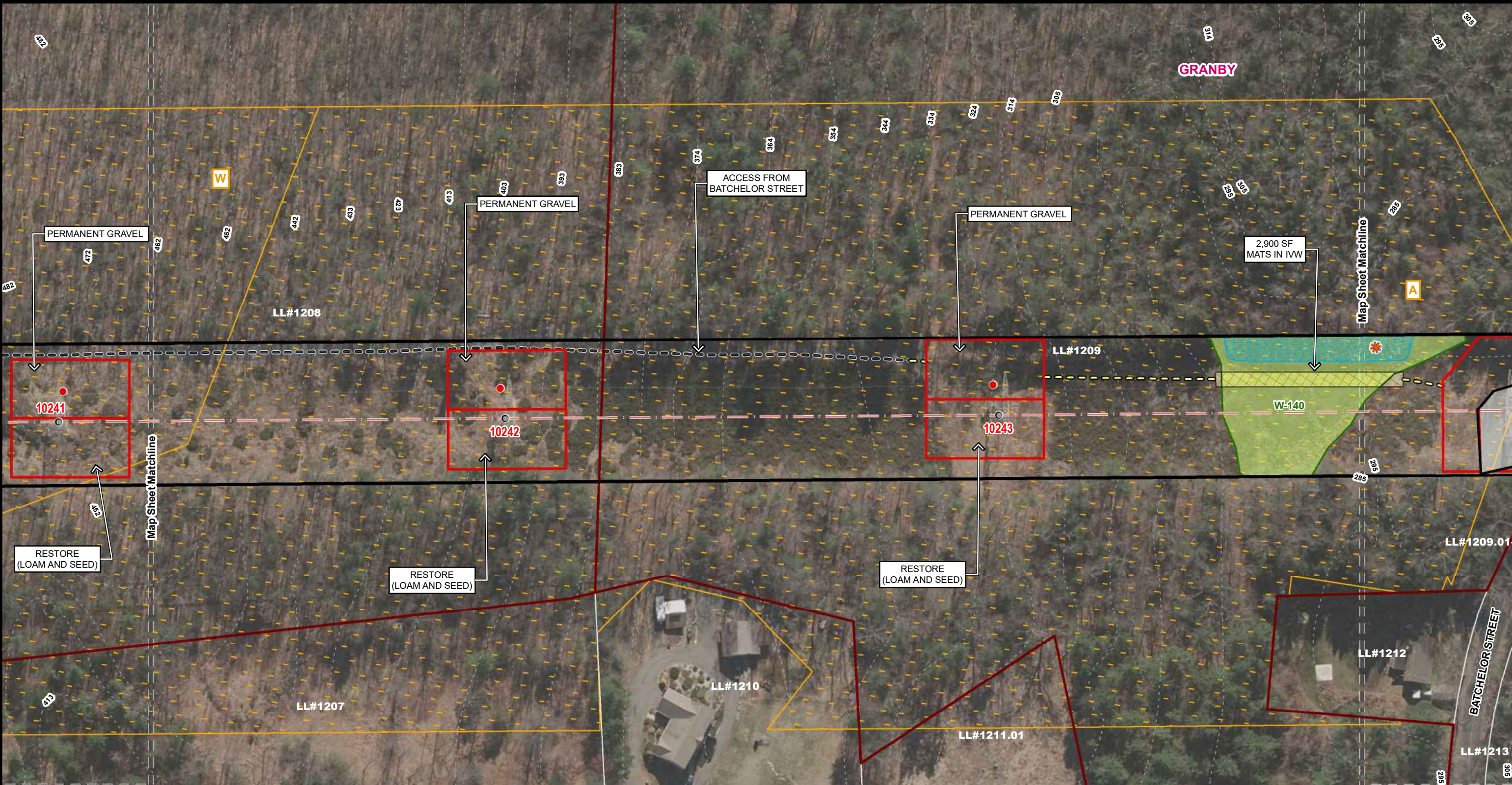
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Project No.: 15.0166637.09 10/09/2020

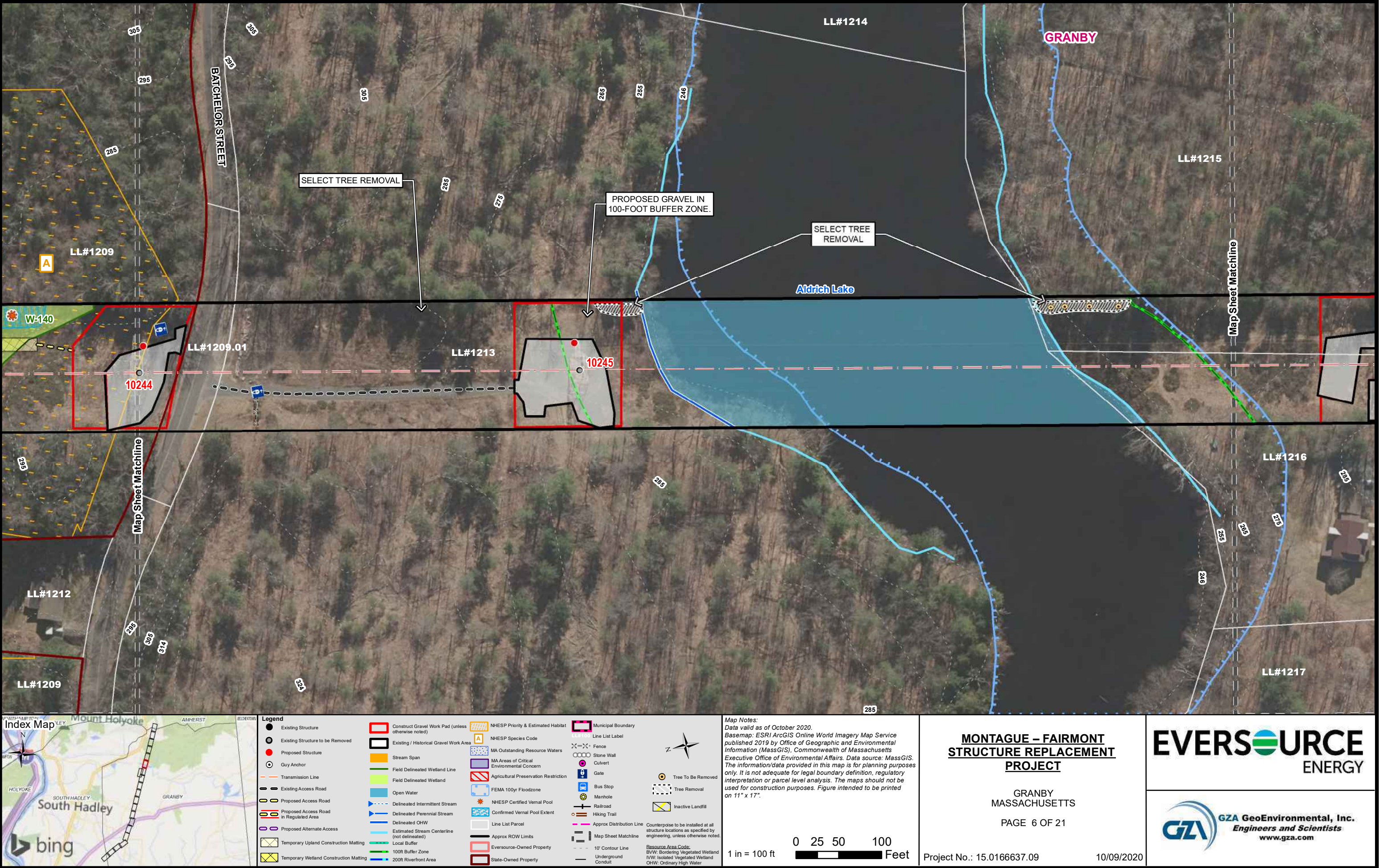
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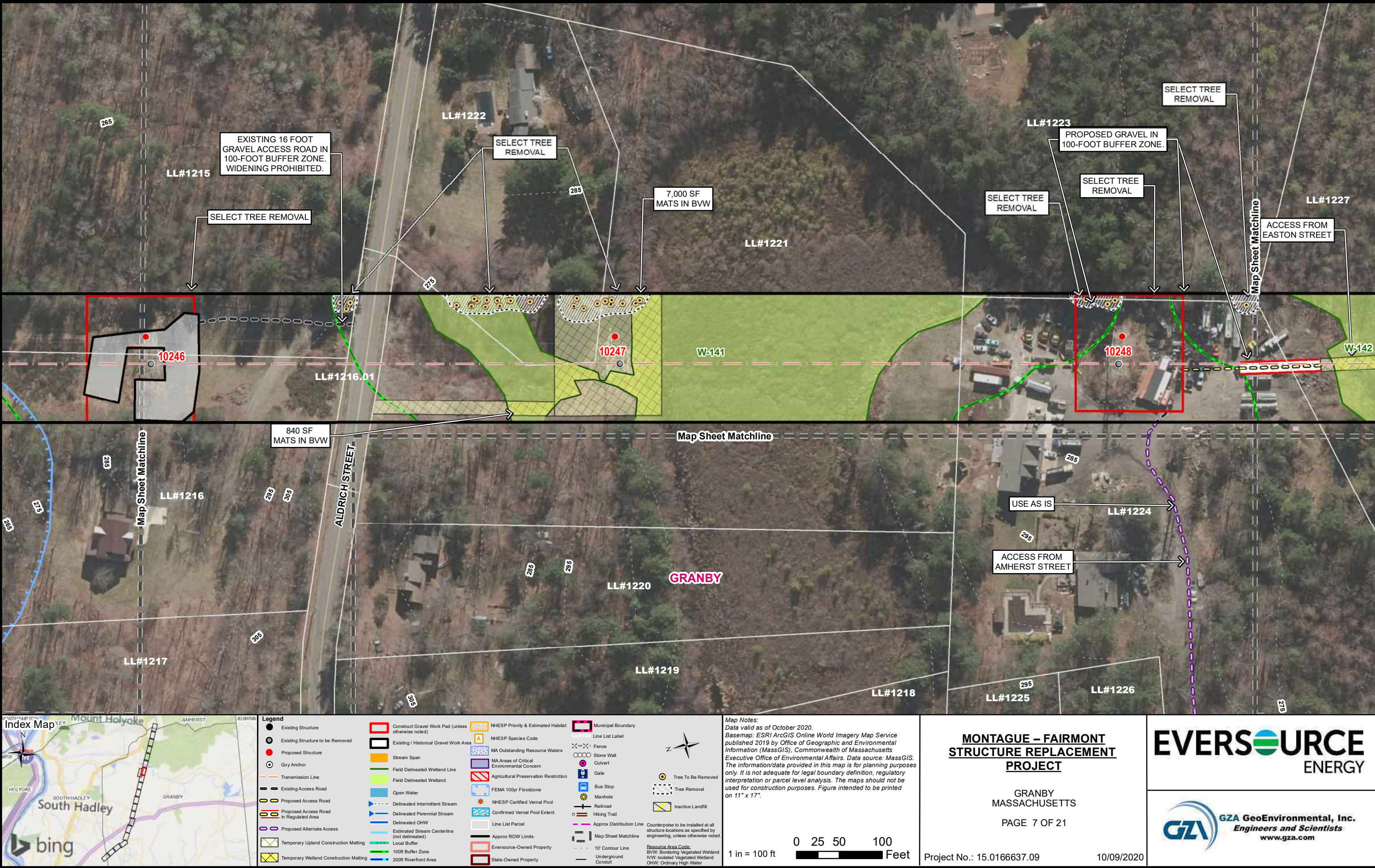












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<b>Legend</b>					
● Existing Structure	Construct Gravel Work Pad (unless otherwise noted)	NHESP Priority & Estimated Habitat	Municipal Boundary	Line List Label	
○ Existing Structure to be Removed	Existing / Historical Gravel Work Area	NHESP Species Code	Line List	Line List	
● Proposed Structure	Stream Span	MA Outstanding Resource Waters	Stone Wall	Stone Wall	
○ Guy Anchor	Field Delineated Wetland Line	MA Areas of Critical Environmental Concern	Culvert	Culvert	
— Transmission Line	Field Delineated Wetland	Agricultural Preservation Restriction	Gate	Gate	
— Existing Access Road	Open Water	FEMA 100yr Floodzone	Bus Stop	Bus Stop	
— Proposed Access Road	Delineated Intermittent Stream	NHESP Certified Vernal Pool	Manhole	Manhole	
— Proposed Access Road in Regulated Area	Delineated Perennial Stream	Confirmed Vernal Pool Extent	Railroad	Railroad	
— Proposed Access Road	Delineated OHW	Line List Parcel	Hiking Trail	Hiking Trail	
— Proposed Alternate Access	Estimated Stream Centerline (not delineated)	Approx ROW Limits	Approx Distribution Line	Approx Distribution Line	
Temporary Upland Construction Matting	Local Buffer	Eversource-Owned Property	Map Sheet Matchline	Map Sheet Matchline	
Temporary Wetland Construction Matting	100ft Buffer Zone	State-Owned Property	10' Contour Line	10' Contour Line	
	200ft Riverfront Area		Underground Conduit	Underground Conduit	

**Map Notes:**  
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1 in = 100 ft

0 25 50 100 Feet

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Project No.: 15.0166637.09 10/09/2020

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<b>Legend</b>					
Existing Structure	Construct Gravel Work Pad (unless otherwise noted)	NHESP Priority & Estimated Habitat	Municipal Boundary	Line List Label	
Existing Structure to be Removed	Existing / Historical Gravel Work Area	NHESP Species Code	Fence	Stone Wall	
Proposed Structure	Stream Span	MA Outstanding Resource Waters	Culvert	Gate	
Guy Anchor	Field Delineated Wetland Line	MA Areas of Critical Environmental Concern	Bus Stop	Manhole	
Transmission Line	Field Delineated Wetland	Agricultural Preservation Restriction	Railroad	Hiking Trail	
Existing Access Road	Open Water	FEMA 100yr Floodzone	Approx Distribution Line	Map Sheet Matchline	
Proposed Access Road	Delineated Intermittent Stream	NHESP Certified Vernal Pool	Confirmed Vernal Pool Extent	Counterpoise to be installed at all structure locations as specified by engineering, unless otherwise noted.	
Proposed Access Road in Regulated Area	Delineated Perennial Stream	Line List Parcel	Approx ROW Limits	Resource Area Code:	
Proposed Alternate Access	Delineated OHW	Eversource-Owned Property	State-Owned Property	BVW: Bordering Vegetated Wetland	
Temporary Upland Construction Matting	Estimated Stream Centerline (not delineated)			IVW: Isolated Vegetated Wetland	
Temporary Wetland Construction Matting	Local Buffer			OHW: Ordinary High Water	
	100ft Buffer Zone				
	200ft Riverfront Area				

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**MONTAGUE – FAIRMONT  
STRUCTURE REPLACEMENT  
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Project No.: 15.0166637.09 10/09/2020






















































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**Legend**

 Existing Structure	 Construct Gravel Work Pad (unless otherwise noted)	 NHESP Priority & Estimated Habitat	 Municipal Boundary	
 Existing Structure to be Removed	 Existing / Historical Gravel Work Area	 NHESP Species Code	 Line List Label	
 Proposed Structure	 Stream Span	 MA Outstanding Resource Waters	 Fence	
 Guy Anchor	 Field Delineated Wetland Line	 MA Areas of Critical Environmental Concern	 Stone Wall	
 Transmission Line	 Field Delineated Wetland	 Agricultural Preservation Restriction	 Culvert	 Tree To Be Removed
 Existing Access Road	 Open Water	 FEMA 100yr Floodzone	 Gate	 Tree Removal
 Proposed Access Road	 Delineated Intermittent Stream	 NHESP Certified Vernal Pool	 Bus Stop	 Inactive Landfill
 Proposed Access Road in Regulated Area	 Delineated Perennial Stream	 Confirmed Vernal Pool Extent	 Manhole	
 Proposed Alternate Access	 Delineated OHW	 Line List Parcel	 Railroad	
 Temporary Upland Construction Matting	 Estimated Stream Centerline (not delineated)	 Approx ROW Limits	 Hiking Trail	
 Temporary Wetland Construction Matting	 Local Buffer	 Eversource-Owned Property	 Map Sheet Matchline	
	 100ft Buffer Zone	 State-Owned Property	 10' Contour Line	
	 200ft Riverfront Area		 Underground Conduit	

Counterslope to be installed at all structure locations as specified by engineering, unless otherwise noted.

**Resource Area Code:**  
 BWV: Bordering Vegetated Wetland  
 IVW: Isolated Vegetated Wetland  
 OHV: Ordinary High Water

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0 25 50 100  
 1 in = 100 ft  Feet

**MONTAGUE – FAIRMONT**  
**STRUCTURE REPLACEMENT**  
**PROJECT**

GRANBY  
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Project No.: 15.0166637.09 10/09/2020





**Legend**

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Guy Anchor
- Transmission Line
- Existing Access Road
- Proposed Access Road
- Proposed Access Road in Regulated Area
- Proposed Alternate Access
- Temporary Upland Construction Matting
- Temporary Wetland Construction Matting

- Construct Gravel Work Pad (unless otherwise noted)
- Existing / Historical Gravel Work Area
- Stream Span
- Field Delineated Wetland Line
- Field Delineated Wetland
- Open Water
- Delineated Intermittent Stream
- Delineated Perennial Stream
- Delineated OHW
- Estimated Stream Centerline (not delineated)
- 100ft Buffer Zone
- 200ft Riverfront Area

- NHESP Priority & Estimated Habitat
- NHESP Species Code
- MA Outstanding Resource Waters
- MA Areas of Critical Environmental Concern
- Agricultural Preservation Restriction
- FEMA 100yr Floodzone
- NHESP Certified Vernal Pool
- Confirmed Vernal Pool Extent
- Line List Parcel
- Approx ROW Limits
- Eversource-Owned Property
- State-Owned Property

- Municipal Boundary
- Line List Label
- Fence
- Stone Wall
- Culvert
- Gate
- Bus Stop
- Manhole
- Railroad
- Hiking Trail
- Approx Distribution Line
- Map Sheet Matchline
- 10' Contour Line
- Underground Conduit

- Tree To Be Removed
- Tree Removal
- Inactive Landfill

Counterpoise to be installed at all structure locations as specified by engineering, unless otherwise noted.

**Resource Area Codes:**  
BVW: Bordering Vegetated Wetland  
IVW: Isolated Vegetated Wetland  
OHW: Ordinary High Water

**Map Notes:**  
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0 25 50 100 Feet

**MONTAGUE – FAIRMONT  
STRUCTURE REPLACEMENT  
PROJECT**

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MASSACHUSETTS

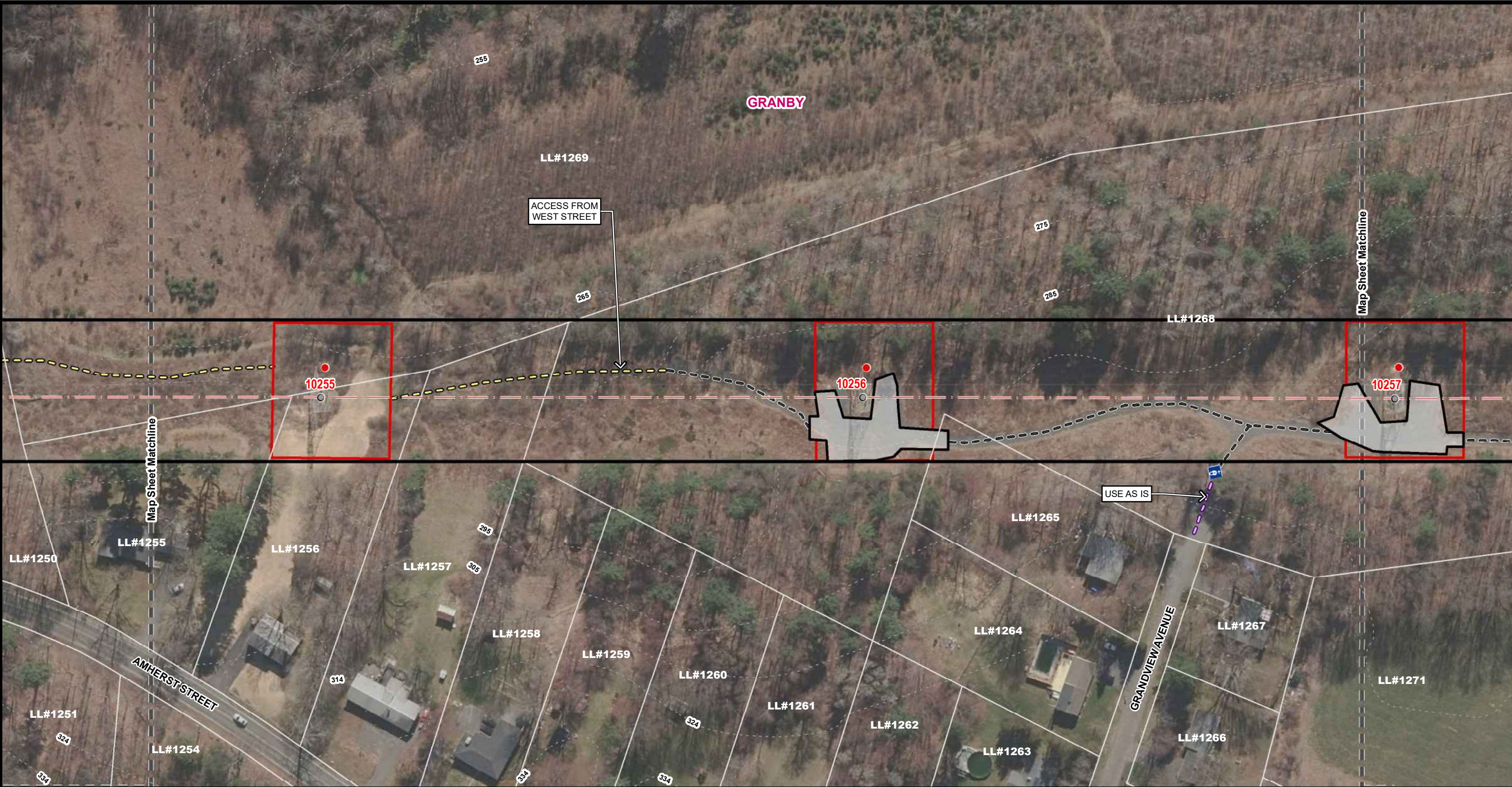
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Project No.: 15.0166637.09      10/09/2020

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ENERGY

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<b>Legend</b>					
● Existing Structure	Construct Gravel Work Pad (unless otherwise noted)	NHESP Priority & Estimated Habitat	Municipal Boundary	Line List Label	
○ Existing Structure to be Removed	Existing / Historical Gravel Work Area	NHESP Species Code	Line List Label	Line List Label	
● Proposed Structure	Stream Span	MA Outstanding Resource Waters	Line List Label	Line List Label	
○ Guy Anchor	Field Delineated Wetland Line	MA Areas of Critical Environmental Concern	Line List Label	Line List Label	
— Transmission Line	Field Delineated Wetland	Agricultural Preservation Restriction	Line List Label	Line List Label	
— Existing Access Road	Open Water	FEMA 100yr Floodzone	Line List Label	Line List Label	
— Proposed Access Road	Delineated Intermittent Stream	NHESP Certified Vernal Pool	Line List Label	Line List Label	
— Proposed Access Road in Regulated Area	Delineated Perennial Stream	Confirmed Vernal Pool Extent	Line List Label	Line List Label	
— Proposed Alternate Access	Delineated OHW	Line List Parcel	Line List Label	Line List Label	
Temporary Upland Construction Matting	Estimated Stream Centerline (not delineated)	Approx ROW Limits	Line List Label	Line List Label	
Temporary Wetland Construction Matting	Local Buffer	Eversource-Owned Property	Line List Label	Line List Label	
	100ft Buffer Zone	State-Owned Property	Line List Label	Line List Label	
	200ft Riverfront Area		Line List Label	Line List Label	

**Map Notes:**  
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1 in = 100 ft

0 25 50 100 Feet

**MONTAGUE – FAIRMONT  
STRUCTURE REPLACEMENT  
PROJECT**

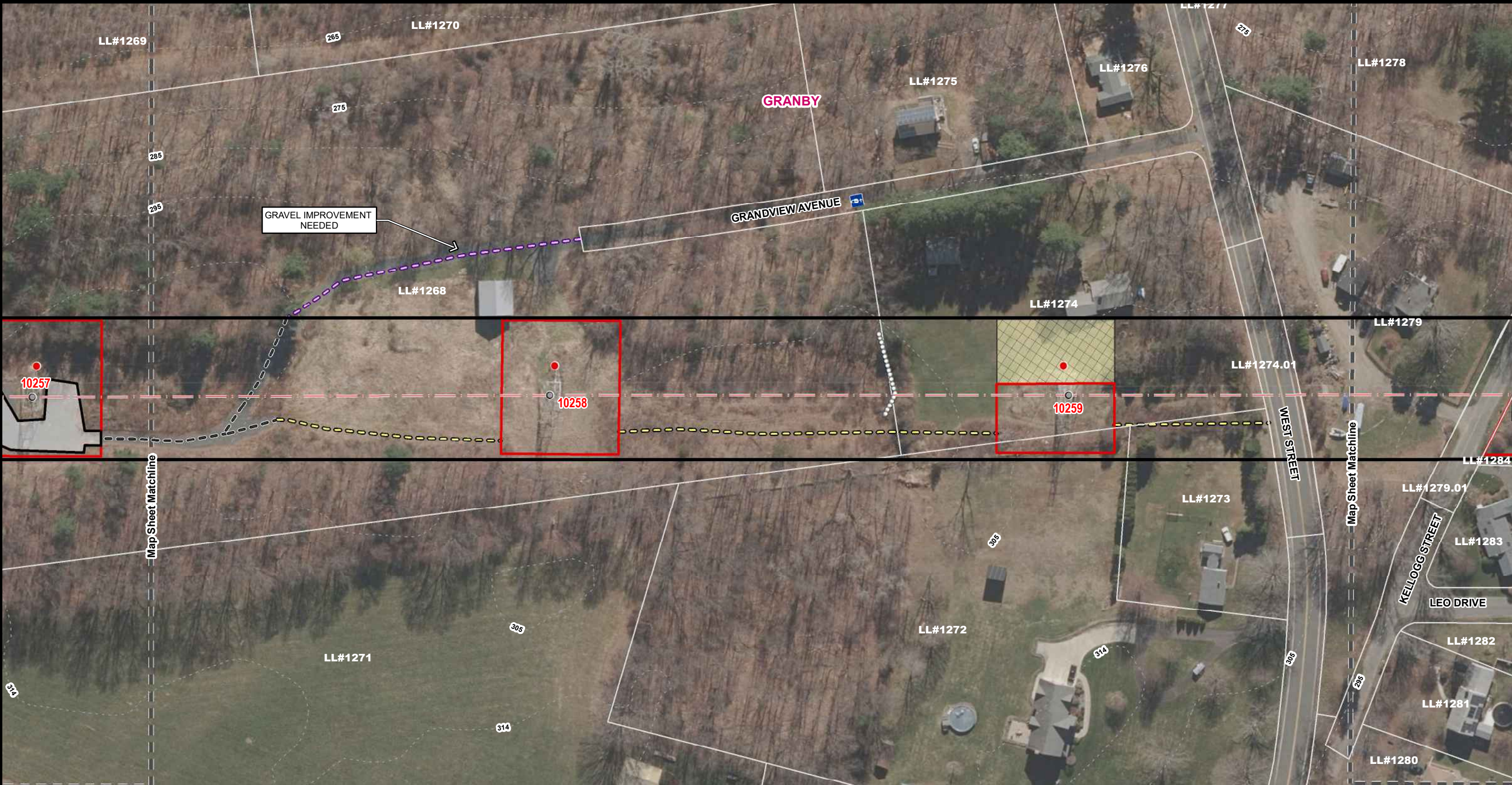
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MASSACHUSETTS

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Project No.: 15.0166637.09 10/09/2020

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<b>Legend</b>	<b>Legend</b>	<b>Legend</b>	<b>Legend</b>
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Existing Structure to be Removed	Existing / Historical Gravel Work Area	MA Areas of Critical Environmental Concern	Line List Label
Proposed Structure	Stream Span	Agricultural Preservation Restriction	Fence
Guy Anchor	Field Delineated Wetland Line	FEMA 100yr Floodzone	Stone Wall
Transmission Line	Field Delineated Wetland	NHESP Certified Vernal Pool	Culvert
Existing Access Road	Open Water	Confirmed Vernal Pool Extent	Gate
Proposed Access Road	Delineated Intermittent Stream	Line List Parcel	Bus Stop
Proposed Access Road in Regulated Area	Delineated Perennial Stream	Approx. ROW Limits	Manhole
Proposed Alternate Access	Delineated OHW	Eversource-Owned Property	Railroad
Temporary Upland Construction Matting	Estimated Stream Centerline (not delineated)	State-Owned Property	Hiking Trail
Temporary Wetland Construction Matting	Local Buffer		Approx. Distribution Line
	100ft Buffer Zone		Map Sheet Matchline
	200ft Riverfront Area		10' Contour Line
			Underground Conduit
			Tree To Be Removed
			Tree Removal
			Inactive Landfill

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PROJECT**

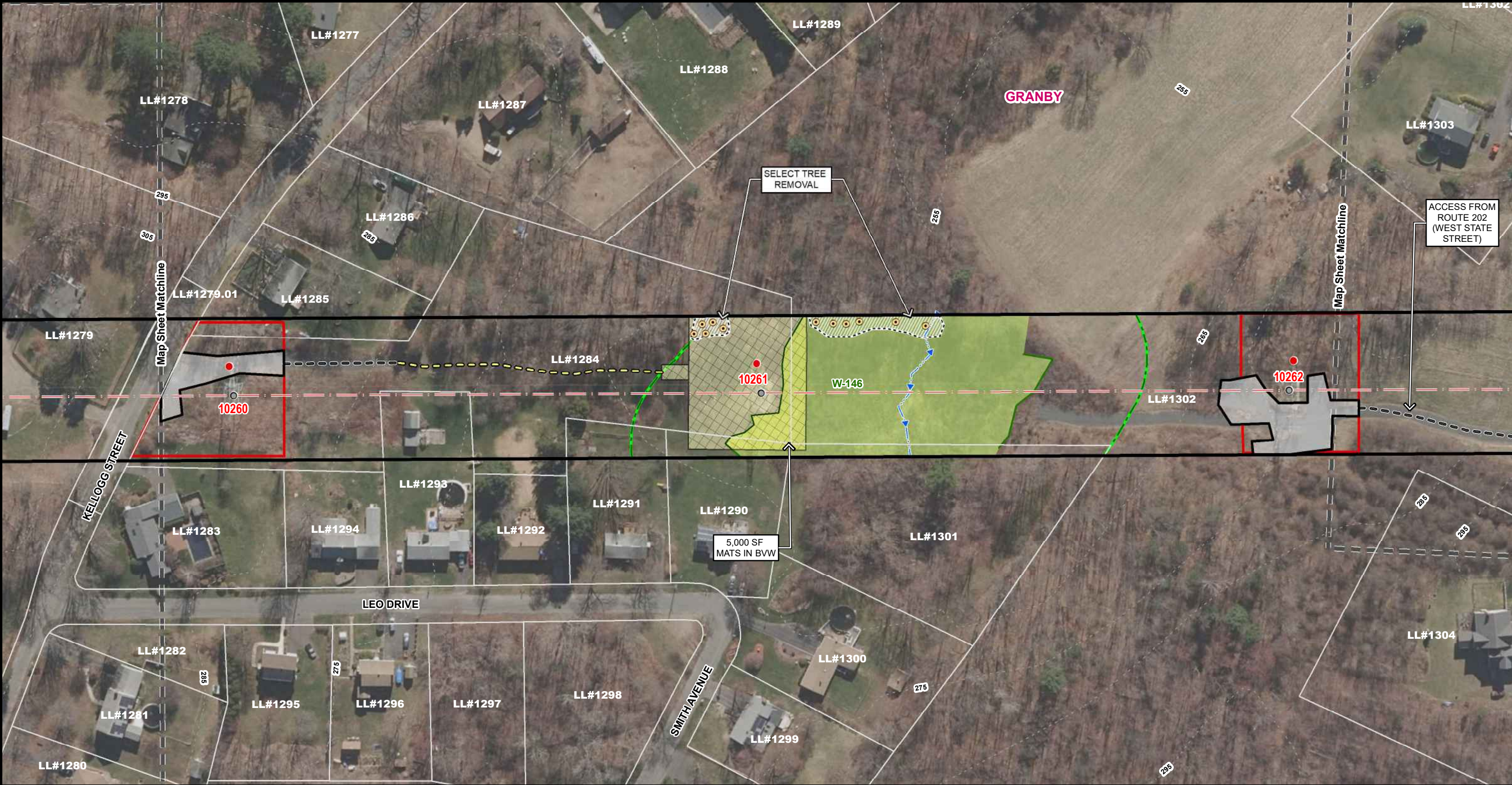
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**Legend**

<ul style="list-style-type: none"><li>Existing Structure</li><li>Existing Structure to be Removed</li><li>Proposed Structure</li><li>Guy Anchor</li><li>Transmission Line</li><li>Existing Access Road</li><li>Proposed Access Road</li><li>Proposed Access Road in Regulated Area</li><li>Proposed Alternate Access</li><li>Temporary Upland Construction Matting</li><li>Temporary Wetland Construction Matting</li></ul>	<ul style="list-style-type: none"><li>Construct Gravel Work Pad (unless otherwise noted)</li><li>Existing / Historical Gravel Work Area</li><li>Stream Span</li><li>Field Delineated Wetland Line</li><li>Field Delineated Wetland</li><li>Open Water</li><li>Delineated Intermittent Stream</li><li>Delineated Perennial Stream</li><li>Delineated OHW</li><li>Estimated Stream Centerline (not delineated)</li><li>Local Buffer</li><li>100ft Buffer Zone</li><li>200ft Riverfront Area</li></ul>	<ul style="list-style-type: none"><li>NHESP Priority &amp; Estimated Habitat</li><li>NHESP Species Code</li><li>MA Outstanding Resource Waters</li><li>MA Areas of Critical Environmental Concern</li><li>Agricultural Preservation Restriction</li><li>FEMA 100yr Floodzone</li><li>NHESP Certified Vernal Pool</li><li>Confirmed Vernal Pool Extent</li><li>Line List Parcel</li><li>Approx ROW Limits</li><li>Eversource-Owned Property</li><li>State-Owned Property</li></ul>	<ul style="list-style-type: none"><li>Municipal Boundary</li><li>Line List Label</li><li>Fence</li><li>Stone Wall</li><li>Culvert</li><li>Gate</li><li>Bus Stop</li><li>Manhole</li><li>Railroad</li><li>Hiking Trail</li><li>Approx Distribution Line</li><li>Map Sheet Matchline</li><li>10' Contour Line</li><li>Underground Conduit</li></ul>	<ul style="list-style-type: none"><li>Tree To Be Removed</li><li>Tree Removal</li><li>Inactive Landfill</li><li>Counterpoise to be installed at all structure locations as specified by engineering, unless otherwise noted.</li></ul>
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0 25 50 100 Feet

**MONTAGUE – FAIRMONT  
STRUCTURE REPLACEMENT  
PROJECT**

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MASSACHUSETTS

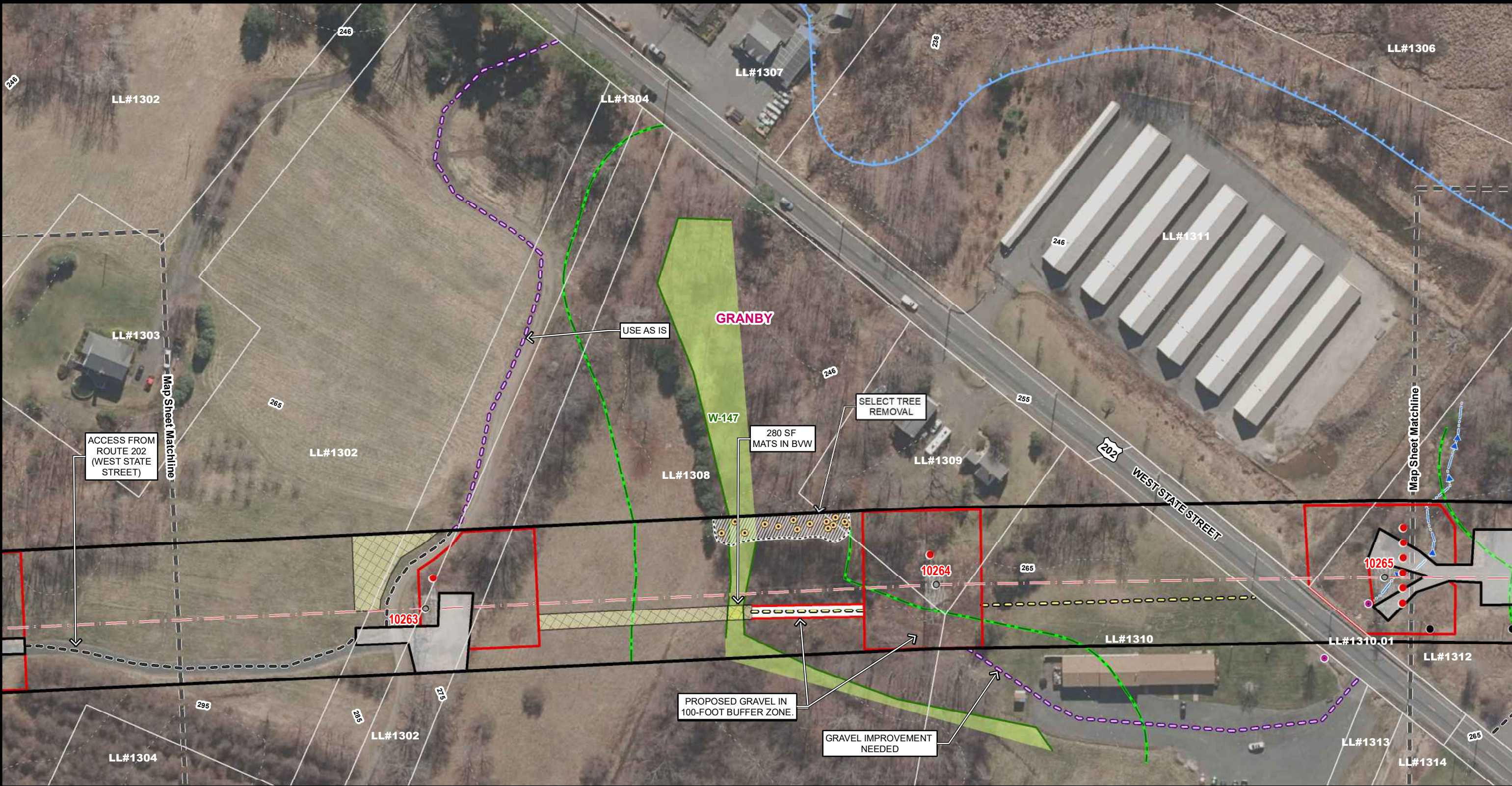
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Project No.: 15.0166637.09 10/09/2020

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<b>Legend</b>	<b>Legend</b>	<b>Legend</b>	<b>Legend</b>
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			Underground Conduit

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STRUCTURE REPLACEMENT  
PROJECT**

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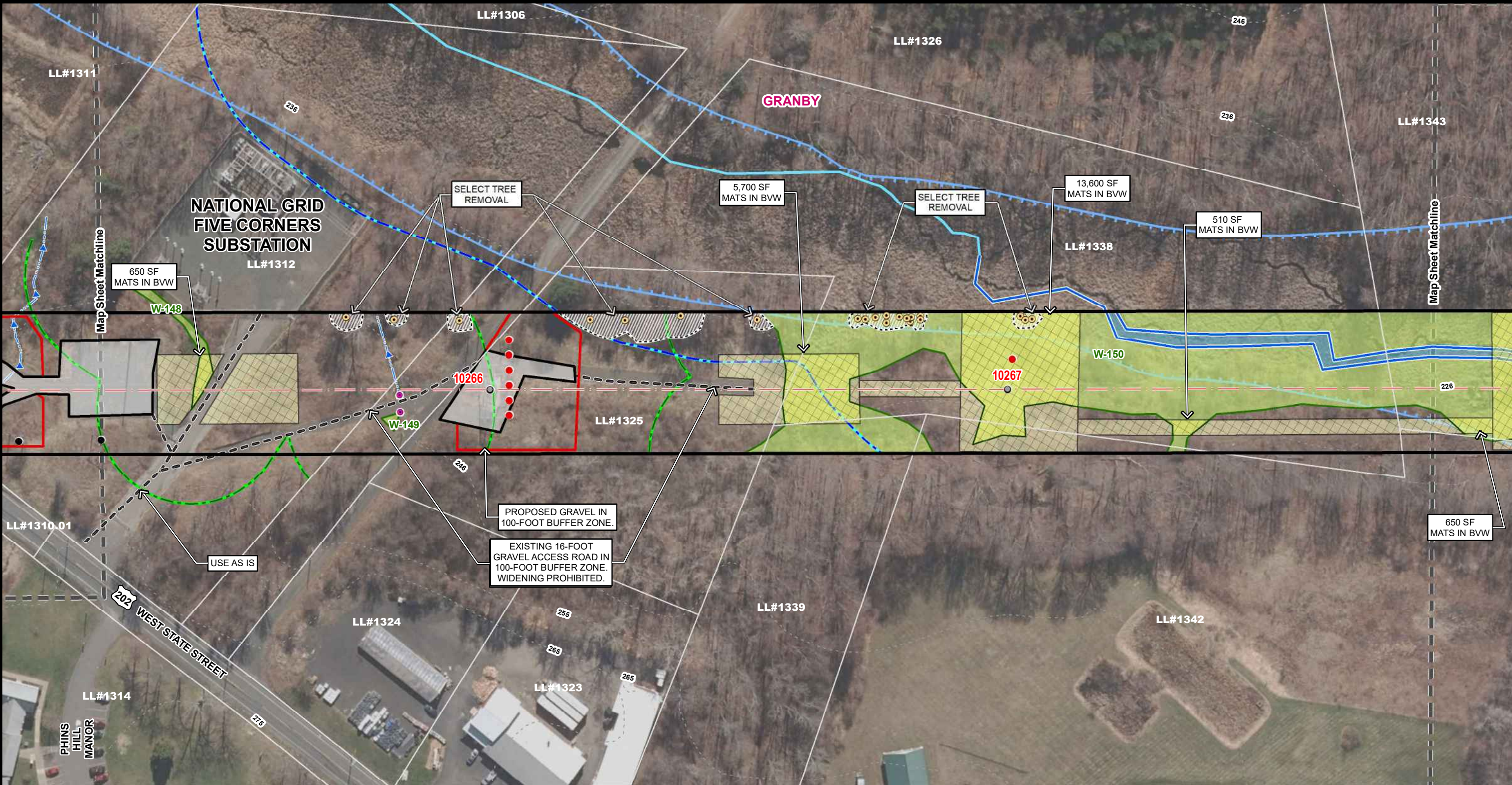
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<b>Legend</b>	<b>Legend</b>	<b>Legend</b>	<b>Legend</b>
<ul style="list-style-type: none"><li>Existing Structure</li><li>Existing Structure to be Removed</li><li>Proposed Structure</li><li>Guy Anchor</li><li>Transmission Line</li><li>Existing Access Road</li><li>Proposed Access Road</li><li>Proposed Access Road in Regulated Area</li><li>Proposed Alternate Access</li><li>Temporary Upland Construction Matting</li><li>Temporary Wetland Construction Matting</li></ul>	<ul style="list-style-type: none"><li>Construct Gravel Work Pad (unless otherwise noted)</li><li>Existing / Historical Gravel Work Area</li><li>Stream Span</li><li>Field Delineated Wetland Line</li><li>Field Delineated Wetland</li><li>Open Water</li><li>Delineated Intermittent Stream</li><li>Delineated Perennial Stream</li><li>Delineated OHW</li><li>Estimated Stream Centerline (not delineated)</li><li>Local Buffer</li><li>100ft Buffer Zone</li><li>200ft Riverfront Area</li></ul>	<ul style="list-style-type: none"><li>NHESP Priority &amp; Estimated Habitat</li><li>NHESP Species Code</li><li>MA Outstanding Resource Waters</li><li>MA Areas of Critical Environmental Concern</li><li>Agricultural Preservation Restriction</li><li>FEMA 100yr Floodzone</li><li>NHESP Certified Vernal Pool</li><li>Confirmed Vernal Pool Extent</li><li>Line List Parcel</li><li>Approx ROW Limits</li><li>Eversource-Owned Property</li><li>State-Owned Property</li></ul>	<ul style="list-style-type: none"><li>Municipal Boundary</li><li>Line List Label</li><li>Fence</li><li>Stone Wall</li><li>Culvert</li><li>Gate</li><li>Bus Stop</li><li>Manhole</li><li>Railroad</li><li>Hiking Trail</li><li>Approx Distribution Line</li><li>Map Sheet Matchline</li><li>10' Contour Line</li><li>Underground Conduit</li><li>Tree To Be Removed</li><li>Tree Removal</li><li>Inactive Landfill</li><li>Counterpoise to be installed at all structure locations as specified by engineering, unless otherwise noted.</li><li>Resource Area Code:<ul style="list-style-type: none"><li>BVW: Bordering Vegetated Wetland</li><li>IVW: Isolated Vegetated Wetland</li><li>OHW: Ordinary High Water</li></ul></li></ul>

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0 25 50 100 Feet

**MONTAGUE – FAIRMONT  
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MASSACHUSETTS

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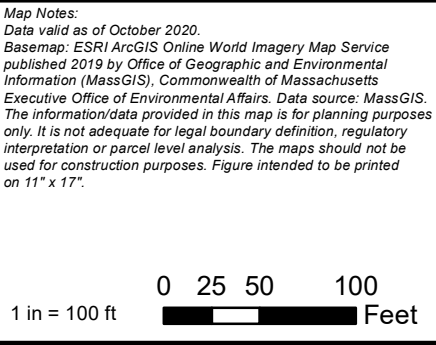
Project No.: 15.0166637.09

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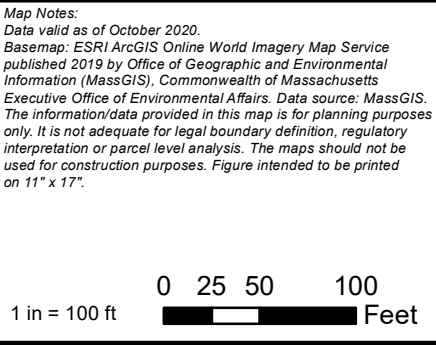
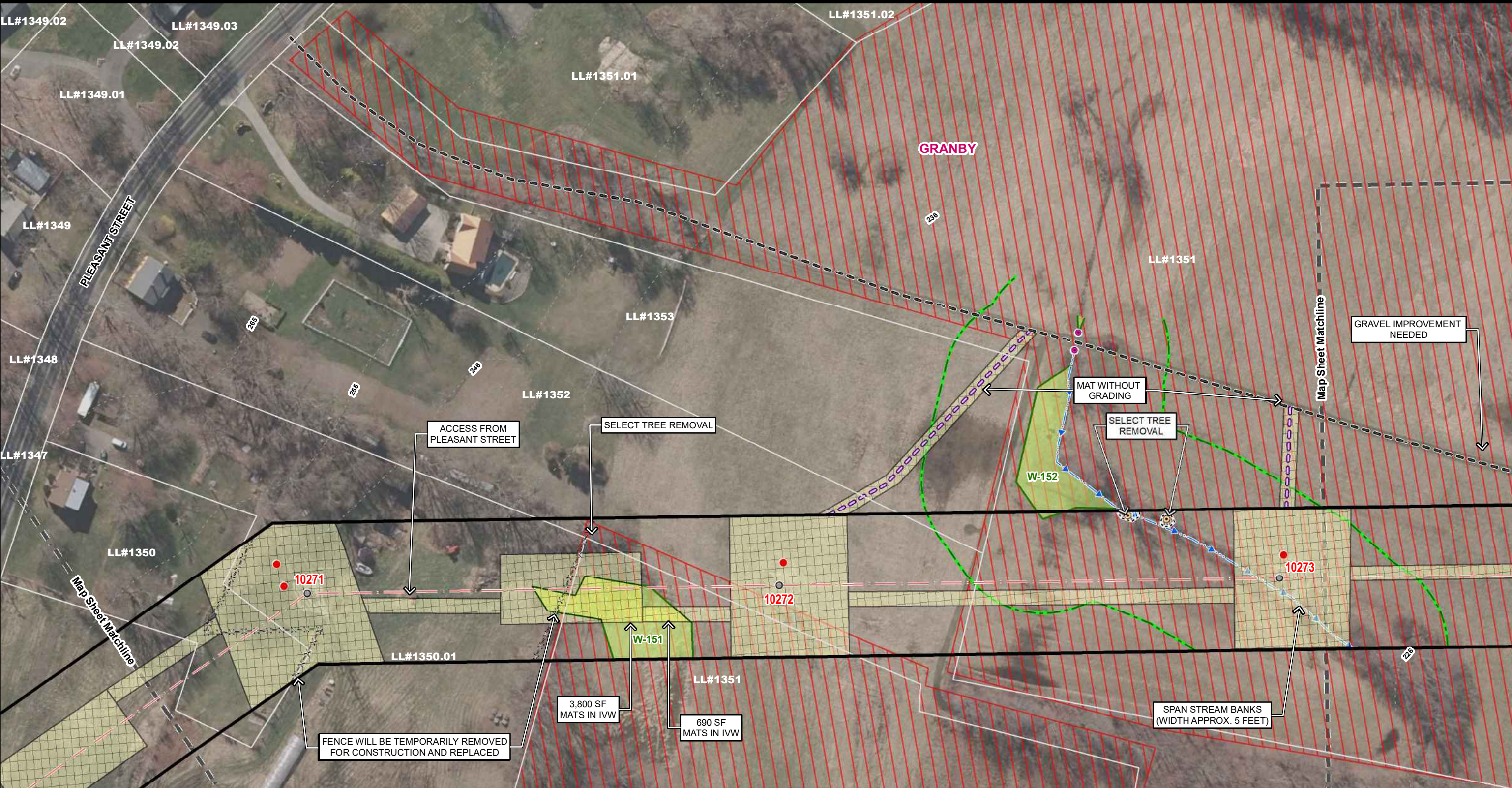
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0 25 50 100  
 Feet

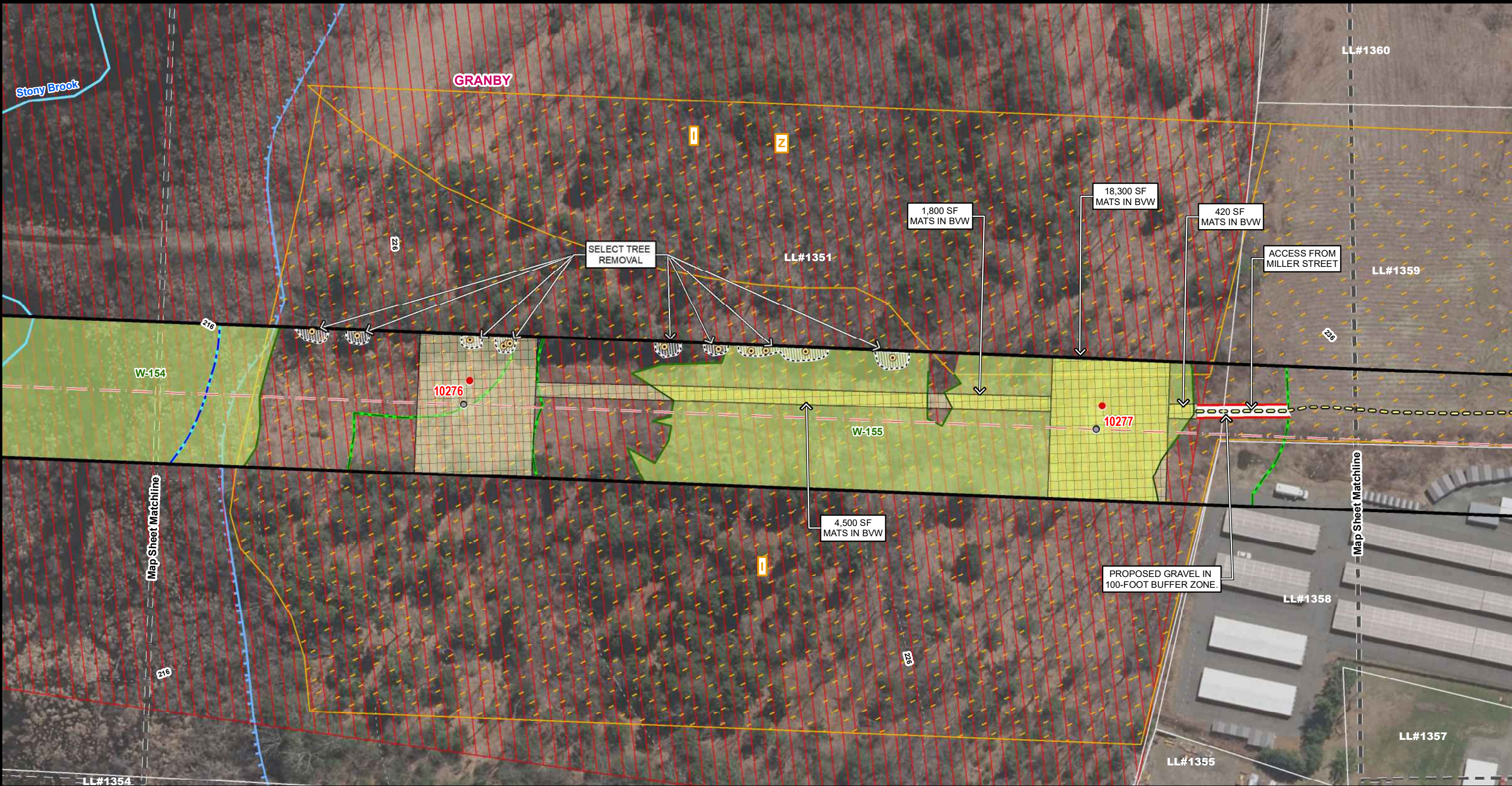
1 in = 100 ft

## Project No.: 15.0166637.09

10/09/2020







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● Existing Structure	Construct Gravel Work Pad (unless otherwise noted)	NHESP Priority & Estimated Habitat	Municipal Boundary	Tree To Be Removed	
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STRUCTURE REPLACEMENT  
PROJECT**

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MASSACHUSETTS

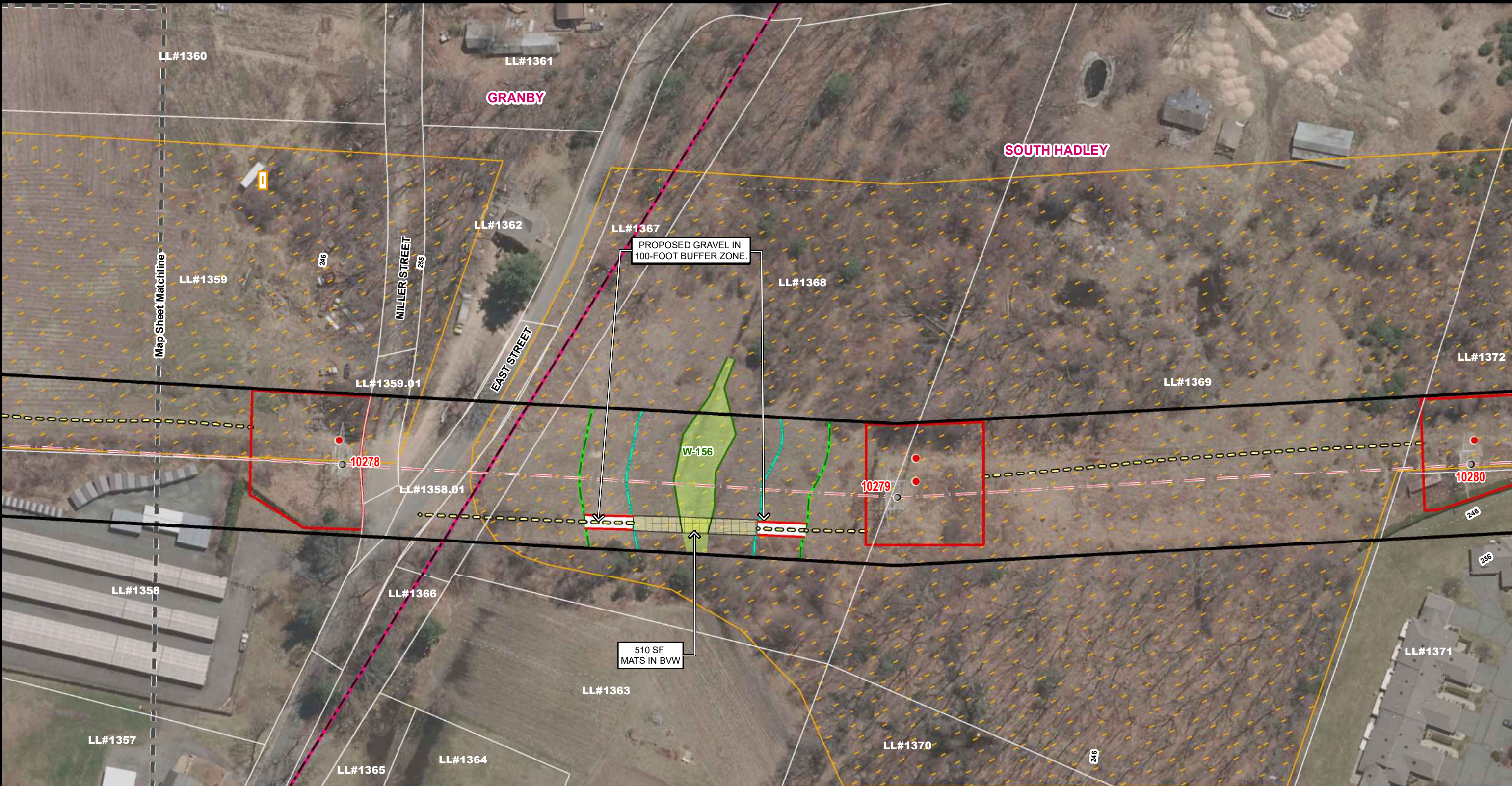
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**Legend**

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**MONTAGUE – FAIRMONT  
STRUCTURE REPLACEMENT  
PROJECT**

GRANBY/SOUTH HADLEY  
MASSACHUSETTS

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**APPENDIX C**

**FIELD DELINEATION FORMS**

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Eversource Montague to Fairmont City/County: Granby/Hampshire Sampling Date: 6/19/19  
 Applicant/Owner: Eversource State: MA Sampling Point: W-141 Up  
 Investigator(s): GZA Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): \_\_\_\_\_ Slope (%): \_\_\_\_\_  
 Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 42.280324 Long: -72.528475 Datum: WGS84  
 Soil Map Unit Name: Sudbury fine sandy loam, 0-3% slopes NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		



**VEGETATION – Use scientific names of plants.**

 Sampling Point: W-141 Up

<u>Tree Stratum</u> (Plot size: <u>30' radius</u> )	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ =Total Cover				<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>50</u></td> <td>(A) <u>160</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.20</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species <u>20</u>	x 4 = <u>80</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>50</u>	(A) <u>160</u> (B)	Prevalence Index = B/A = <u>3.20</u>	
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Prevalence Index = B/A = <u>3.20</u>																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15' radius</u> )																				
1. <u>Acer rubrum</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>10</u> =Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5' radius</u> )																				
1. <u>Plantago lanceolata</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u>Osmunda claytoniana</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>40</u> =Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: _____ )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ =Total Cover																				

**Hydrophytic Vegetation Indicators:**  
1 - Rapid Test for Hydrophytic Vegetation  
X 2 - Dominance Test is >50%  
3 - Prevalence Index is ≤3.0<sup>1</sup>  
4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
       Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**  
  
**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
  
**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  
  
**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
  
**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?**      Yes X      No \_\_\_\_\_

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: W-141 Up

[illegible]

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Eversource Montague to Fairmont City/County: Granby/Hampshire Sampling Date: 6/19/19  
 Applicant/Owner: Eversource State: MA Sampling Point: W-141 Wet  
 Investigator(s): GZA Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): concave Slope (%): \_\_\_\_\_  
 Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 42.280222 Long: -72.528397 Datum: WGS84  
 Soil Map Unit Name: Sudbury fine sandy loam, 0-3% slopes NWI classification: PEM1B

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? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.)     		

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <u>X</u> No _____ Depth (inches): _____ Water Table Present? Yes <u>X</u> No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   		
Remarks:     		

**VEGETATION** – Use scientific names of plants.

Sampling Point: W-141 Wet

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ =Total Cover				<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>80</u></td> <td>x 1 = <u>80</u></td> </tr> <tr> <td>FACW species <u>90</u></td> <td>x 2 = <u>180</u></td> </tr> <tr> <td>FAC species <u>5</u></td> <td>x 3 = <u>15</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>175</u></td> <td>(A) <u>275</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.57</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>80</u>	x 1 = <u>80</u>	FACW species <u>90</u>	x 2 = <u>180</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>175</u>	(A) <u>275</u> (B)	Prevalence Index = B/A = <u>1.57</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>80</u>	x 1 = <u>80</u>																			
FACW species <u>90</u>	x 2 = <u>180</u>																			
FAC species <u>5</u>	x 3 = <u>15</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>175</u>	(A) <u>275</u> (B)																			
Prevalence Index = B/A = <u>1.57</u>																				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)																				
1. <u>Ilex verticillata</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
_____ =Total Cover																				
<u>Herb Stratum</u> (Plot size: _____)																				
1. <u>Phragmites australis</u>	<u>80</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup> <u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Typha latifolia</u>	<u>80</u>	<u>Yes</u>	<u>OBL</u>																	
3. <u>Osmunda claytoniana</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
_____ =Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
_____ =Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)



## SOIL

Sampling Point: W-141 Wet

[illegible]

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Eversource Montague to Fairmont City/County: Granby/Hampshire Sampling Date: 6/19/19  
 Applicant/Owner: Eversource State: MA Sampling Point: W-142 Up  
 Investigator(s): GZA Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): \_\_\_\_\_ Slope (%): \_\_\_\_\_  
 Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 42.276710 Long: -72.529506 Datum: WGS84  
 Soil Map Unit Name: Pits, gravel NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)      		

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:    		
Remarks:          		

**VEGETATION** – Use scientific names of plants.

Sampling Point: W-142 Up

Tree Stratum (Plot size: <u>30'</u> radius )	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus rubra</u>	10	Yes	FACU	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>6</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)																
2. <u>Quercus alba</u>	5	Yes	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	15	=Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>45</u></td> <td>x 4 = <u>180</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>75</u></td> <td>(A) <u>240</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.20</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>30</u>	x 2 = <u>60</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>45</u>	x 4 = <u>180</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>75</u>	(A) <u>240</u> (B)	Prevalence Index = B/A = <u>3.20</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>30</u>	x 2 = <u>60</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>45</u>	x 4 = <u>180</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>75</u>	(A) <u>240</u> (B)																			
Prevalence Index = B/A = <u>3.20</u>																				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> radius )																				
1. <u>Frangula alnus</u>	20	Yes	FACW																	
2. <u>Betula lenta</u>	10	Yes	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	30	=Total Cover																		
<b>Herb Stratum</b> (Plot size: <u>5'</u> radius )																				
1. <u>Parthenocissus quinquefolia</u>	20	Yes	FACU	<b>Hydrophytic Vegetation Indicators:</b> <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup> <u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Rubus hispidus</u>	10	Yes	FACW																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	30	=Total Cover																		
<b>Woody Vine Stratum</b> (Plot size: _____)																				
1. _____				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
		=Total Cover		<b>Hydrophytic Vegetation Present?</b> Yes <u>      </u> No <u>  X  </u>																

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: W-142 Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/3	100					Loamy/Clayey	Sandy Loam
8-20	7.5YR 5/6	100					Loamy/Clayey	Sandy Loam

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators:</b>			<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/>	Polyvalue Below Surface (S8) ( <b>LRR R,</b>	<input type="checkbox"/>	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/>	<b>MLRA 149B</b> )	<input type="checkbox"/>	Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/>	Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/>	5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/>	High Chroma Sands (S11) ( <b>LRR K, L</b> )	<input type="checkbox"/>	Polyvalue Below Surface (S8) ( <b>LRR K, L</b> )	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/>	Loamy Mucky Mineral (F1) ( <b>LRR K, L</b> )	<input type="checkbox"/>	Thin Dark Surface (S9) ( <b>LRR K, L</b> )	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/>	Loamy Gleyed Matrix (F2)	<input type="checkbox"/>	Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/>	Depleted Matrix (F3)	<input type="checkbox"/>	Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/>	Redox Dark Surface (F6)	<input type="checkbox"/>	Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/>	Depleted Dark Surface (F7)	<input type="checkbox"/>	Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/>	Redox Depressions (F8)	<input type="checkbox"/>	Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/>	Marl (F10) ( <b>LRR K, L</b> )	<input type="checkbox"/>	Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)					

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b>			
Type: _____			
Depth (inches): _____			
Remarks:  			

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Eversource Montague to Fairmont City/County: Granby/Hampshire Sampling Date: 6/19/19  
 Applicant/Owner: Eversource State: MA Sampling Point: W-142 Wet  
 Investigator(s): GZA Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): concave Slope (%): \_\_\_\_\_  
 Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 42.277417 Long: -72.529180 Datum: WGS84  
 Soil Map Unit Name: Swansea muck, 0-1% slopes NWI classification: PSS1B

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? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.)     		

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u>X</u> Surface Water (A1) _____ Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) _____ Aquatic Fauna (B13) <u>X</u> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>2</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>8</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>6</u> (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   		
Remarks:     		



**VEGETATION – Use scientific names of plants.**

 Sampling Point: W-142 Wet

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																									
1. <u><i>Tsuga canadensis</i></u>	20	Yes	FACU	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)  Total Number of Dominant Species Across All Strata: <u>7</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)																								
2. <u><i>Acer rubrum</i></u>	10	Yes	FAC																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	30	=Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 20%;"></th> <th style="width: 40%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">70</td> <td>x 1 = <u>70</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">30</td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">20</td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">20</td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">140</td> <td>(A) <u>270</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A =</td> <td style="text-align: center;"><u>1.93</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:	OBL species	70	x 1 = <u>70</u>	FACW species	30	x 2 = <u>60</u>	FAC species	20	x 3 = <u>60</u>	FACU species	20	x 4 = <u>80</u>	UPL species	0	x 5 = <u>0</u>	Column Totals:	140	(A) <u>270</u> (B)	Prevalence Index = B/A =		<u>1.93</u>
Total % Cover of:		Multiply by:																										
OBL species	70	x 1 = <u>70</u>																										
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UPL species	0	x 5 = <u>0</u>																										
Column Totals:	140	(A) <u>270</u> (B)																										
Prevalence Index = B/A =		<u>1.93</u>																										
<b>Sapling/Shrub Stratum</b> (Plot size: _____)																												
1. <u><i>Viburnum dentatum</i></u>	10	Yes	FACW																									
2. <u><i>Acer rubrum</i></u>	10	Yes	FAC																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
	20	=Total Cover																										
<b>Herb Stratum</b> (Plot size: _____)																												
1. <u><i>Symplocarpus foetidus</i></u>	50	Yes	OBL	<b>Hydrophytic Vegetation Indicators:</b> <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																								
2. <u><i>Carex striata</i></u>	20	Yes	OBL																									
3. <u><i>Rubus hispidus</i></u>	20	Yes	FACW																									
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
11. _____																												
12. _____																												
	90	=Total Cover																										
<b>Woody Vine Stratum</b> (Plot size: _____)																												
1. _____				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																								
2. _____																												
3. _____																												
4. _____																												
		=Total Cover		<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____																								

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: W-142 Wet

[illegible]



# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Eversource Montague to Fairmont City/County: Granby/Hampshire Sampling Date: 6/19/19  
 Applicant/Owner: Eversource State: MA Sampling Point: W-143 Up  
 Investigator(s): GZA Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): \_\_\_\_\_ Slope (%): \_\_\_\_\_  
 Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 42.275216 Long: -72.529927 Datum: WGS84  
 Soil Map Unit Name: Walpole sandy loam, 0-3% slopes NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)			

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

**VEGETATION** – Use scientific names of plants.

Sampling Point: W-143 Up

<u>Tree Stratum</u> (Plot size: <u>30' radius</u> )	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>33</u></td> <td>x 2 = <u>66</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>3</u></td> <td>x 4 = <u>12</u></td> </tr> <tr> <td>UPL species <u>60</u></td> <td>x 5 = <u>300</u></td> </tr> <tr> <td>Column Totals: <u>126</u></td> <td>(A) <u>468</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.71</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>33</u>	x 2 = <u>66</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>3</u>	x 4 = <u>12</u>	UPL species <u>60</u>	x 5 = <u>300</u>	Column Totals: <u>126</u>	(A) <u>468</u> (B)	Prevalence Index = B/A = <u>3.71</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>33</u>	x 2 = <u>66</u>																			
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UPL species <u>60</u>	x 5 = <u>300</u>																			
Column Totals: <u>126</u>	(A) <u>468</u> (B)																			
Prevalence Index = B/A = <u>3.71</u>																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15' radius</u> )																				
1. <u>Acer rubrum</u>	<u>3</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u>Corylus americana</u>	<u>3</u>	<u>Yes</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>6</u> =Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5' radius</u> )																				
1. <u>Hypericum perforatum</u>	<u>60</u>	<u>Yes</u>	<u>UPL</u>																	
2. <u>Solidago rugosa</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Impatiens capensis</u>	<u>20</u>	<u>No</u>	<u>FACW</u>																	
4. <u>Onoclea sensibilis</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>120</u> =Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: _____ )																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

**Hydrophytic Vegetation**  
Present?      Yes \_\_\_\_\_ No X



## SOIL

Sampling Point: W-143 Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 3/3	100					Loamy/Clayey	Fine Sandy Loam
8-20	7.5YR 5/6	100					Loamy/Clayey	Sandy Loam

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators:</b>			<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/>	Polyvalue Below Surface (S8) ( <b>LRR R,</b>	<input type="checkbox"/>	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B)</b> )	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/>	<b>MLRA 149B)</b>	<input type="checkbox"/>	Coast Prairie Redox (A16) ( <b>LRR K, L, R)</b> )	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/>	Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B)</b>	<input type="checkbox"/>	5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R)</b> )	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/>	High Chroma Sands (S11) ( <b>LRR K, L)</b>	<input type="checkbox"/>	Polyvalue Below Surface (S8) ( <b>LRR K, L)</b> )	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/>	Loamy Mucky Mineral (F1) ( <b>LRR K, L)</b>	<input type="checkbox"/>	Thin Dark Surface (S9) ( <b>LRR K, L)</b> )	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/>	Loamy Gleyed Matrix (F2)	<input type="checkbox"/>	Iron-Manganese Masses (F12) ( <b>LRR K, L, R)</b> )	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/>	Depleted Matrix (F3)	<input type="checkbox"/>	Piedmont Floodplain Soils (F19) ( <b>MLRA 149B)</b> )	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/>	Redox Dark Surface (F6)	<input type="checkbox"/>	Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B)</b> )	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/>	Depleted Dark Surface (F7)	<input type="checkbox"/>	Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/>	Redox Depressions (F8)	<input type="checkbox"/>	Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/>	Marl (F10) ( <b>LRR K, L)</b>	<input type="checkbox"/>	Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)					

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b>			
Type:			
Depth (inches):			

Remarks:	<b>Hydric Soil Present?</b>	Yes	No
		<input type="checkbox"/>	<input checked="" type="checkbox"/>

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Eversource Montague to Fairmont City/County: Granby/Hampshire Sampling Date: 6/19/19  
 Applicant/Owner: Eversource State: MA Sampling Point: W-143 Wet  
 Investigator(s): GZA Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): concave Slope (%): \_\_\_\_\_  
 Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 42.273886 Long: -72.530128 Datum: WGS84  
 Soil Map Unit Name: Walpole sandy loam, 0-3% slopes NWI classification: PEM1E

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? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.)     		

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) _____ Aquatic Fauna (B13) <u>X</u> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>8</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>7</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   		
Remarks:     		



# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Montague to Fairmont City/County: Granby/Hampshire Sampling Date: 4/24/2019  
 Applicant/Owner: Eversource Energy State: MA Sampling Point: W-150 Up  
 Investigator(s): GZA Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): concave Slope (%): \_\_\_\_\_  
 Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 42.248416 Long: -72.537026 Datum: WGS84  
 Soil Map Unit Name: Amostown fine sandy loam, 3-8% slopes NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)      		

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:    		
Remarks:          		

**VEGETATION** – Use scientific names of plants.

Sampling Point: W-150 Up

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>20</u></td> <td>x 2 = <u>40</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>45</u></td> <td>x 4 = <u>180</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>65</u> (A)</td> <td><u>220</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.38</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>20</u>	x 2 = <u>40</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>45</u>	x 4 = <u>180</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>65</u> (A)	<u>220</u> (B)	Prevalence Index = B/A = <u>3.38</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>20</u>	x 2 = <u>40</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>45</u>	x 4 = <u>180</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>65</u> (A)	<u>220</u> (B)																			
Prevalence Index = B/A = <u>3.38</u>																				
<u>_____</u> =Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15' radius</u> )																				
1. <u>Rosa multiflora</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u>Lonicera sempervirens</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>35</u> =Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5' radius</u> )																				
1. <u>Plantago lanceolata</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>30</u> =Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

**Hydrophytic Vegetation**  
Present? Yes \_\_\_\_\_ No X



## SOIL

Sampling Point: W-150 Up

[illegible]

# WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Montague to Fairmont Replacement Project City/County: Granby/Hampshire Sampling Date: 4/24/2019  
 Applicant/Owner: Eversource State: MA Sampling Point: W-150 Wet  
 Investigator(s): GZA Section, Township, Range: \_\_\_\_\_  
 Landform (hillside, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): concave Slope (%): \_\_\_\_\_  
 Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 42.248282 Long: -72.536931 Datum: WGS84  
 Soil Map Unit Name: Amostown fine sandy loam, 3-8% slopes NWI classification: PEM1E

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.)      		

## HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u>X</u> Surface Water (A1) _____ Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) _____ Aquatic Fauna (B13) <u>X</u> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:    		
Remarks:          		



**VEGETATION** – Use scientific names of plants.

Sampling Point: W-150 Wet

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>130</u></td> <td>x 1 = <u>130</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>140</u></td> <td>(A) <u>150</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.07</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>130</u>	x 1 = <u>130</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>140</u>	(A) <u>150</u> (B)	Prevalence Index = B/A = <u>1.07</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>130</u>	x 1 = <u>130</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>140</u>	(A) <u>150</u> (B)																			
Prevalence Index = B/A = <u>1.07</u>																				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	FACW																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5' radius</u> )																				
1. <u>Typha latifolia</u>	<u>90</u>	<u>Yes</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup> <u>4</u> - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>      </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Symplocarpus foetidus</u>	<u>15</u>	<u>No</u>	<u>OBL</u>																	
3. <u>Carex lurida</u>	<u>15</u>	<u>No</u>	<u>OBL</u>																	
4. <u>Juncus effusus</u>	<u>10</u>	<u>No</u>	<u>OBL</u>																	
5. <u>Onoclea sensibilis</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>140</u> =Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	_____	<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: W-150 Wet

[illegible]





## **APPENDIX D**

### **SITE PHOTOGRAPHS**



## Photographic Log

<b>Client Name:</b> Eversource	<b>Site Location:</b> Montague to Fairmont Structure Replacement Project (MFRP)	<b>Project No.</b> 15.0166637.09.
--------------------------------	---	--------------------------------------





Photo No. 1	Date: 06/21/19	
Direction Photo Taken: North		
Description: Granby Wetland W-140		

Photo No. 2	Date: 06/19/19	
Direction Photo Taken: North		
Description: Granby Wetland W-141		





## Photographic Log

<b>Client Name:</b> Eversource		<b>Site Location:</b> Montague to Fairmont Structure Replacement Project (MFRP)	<b>Project No.</b> 15.0166637.09.
<b>Photo No.</b> 3	<b>Date:</b> 06/19/19		
<b>Direction Photo Taken:</b> Northeast			
<b>Description:</b> Granby Wetland W-142			
<b>Photo No.</b> 4	<b>Date:</b> 06/19/19		
<b>Direction Photo Taken:</b> North			
<b>Description:</b> Granby Wetland W-143			



## Photographic Log

<b>Client Name:</b> Eversource		<b>Site Location:</b> Montague to Fairmont Structure Replacement Project (MFRP)	<b>Project No.</b> 15.0166637.09.
<b>Photo No.</b> 5	<b>Date:</b> 06/19/19		
<b>Direction Photo Taken:</b> Southeast			
<b>Description:</b> Granby Wetland W-144			
<b>Photo No.</b> 6	<b>Date:</b> 06/19/19		
<b>Direction Photo Taken:</b> Southwest			
<b>Description:</b> Granby Wetland W-145			





## Photographic Log

<b>Client Name:</b> Eversource		<b>Site Location:</b> Montague to Fairmont Structure Replacement Project (MFRP)	<b>Project No.</b> 15.0166637.09.
<b>Photo No.</b> 7	<b>Date:</b> 16/18/19		
<b>Direction Photo Taken:</b> North			
<b>Description:</b> Granby Wetland W-146			
<b>Photo No.</b> 8	<b>Date:</b> 06/18/19		
<b>Direction Photo Taken:</b> Northeast			
<b>Description:</b> Granby Wetland W-147			





## Photographic Log

<b>Client Name:</b> Eversource		<b>Site Location:</b> Montague to Fairmont Structure Replacement Project (MFRP)	<b>Project No.</b> 15.0166637.09.
<b>Photo No.</b> 9	<b>Date:</b> 06/18/19		
<b>Direction Photo Taken:</b> North			
<b>Description:</b> Granby Wetland W-148			
<b>Photo No.</b> 10	<b>Date:</b> 06/17/19		
<b>Direction Photo Taken:</b> West northwest			
<b>Description:</b> Granby Wetland W-150			





# Photographic Log

<b>Client Name:</b> Eversource		<b>Site Location:</b> Montague to Fairmont Structure Replacement Project (MFRP)	<b>Project No.</b> 15.0166637.09.
<b>Photo No.</b> 11	<b>Date:</b> 09/27/19		
<b>Direction Photo Taken:</b> North			
<b>Description:</b> Granby Wetland W-151			
<b>Photo No.</b> 12	<b>Date:</b> 09/27/19		
<b>Direction Photo Taken:</b> South			
<b>Description:</b> Granby Wetland W-153			






## Photographic Log

<b>Client Name:</b> Eversource		<b>Site Location:</b> Montague to Fairmont Structure Replacement Project (MFRP)	<b>Project No.</b> 15.0166637.09.
<b>Photo No.</b> 13	<b>Date:</b> 09/27/19		
<b>Direction Photo Taken:</b> North			
<b>Description:</b> Granby Wetland W-154 and Stony Brook existing stream crossing.			
<b>Photo No.</b> 14	<b>Date:</b> 6/17/19		
<b>Direction Photo Taken:</b> East			
<b>Description:</b> Granby Wetland W-155			





# Photographic Log

<b>Client Name:</b> Eversource		<b>Site Location:</b> Montague to Fairmont Structure Replacement Project (MFRP)	<b>Project No.</b> 15.0166637.09.
<b>Photo No.</b> 15	<b>Date:</b> 6/19/19		
<b>Direction Photo Taken:</b> North			
<b>Description:</b> Unnamed perennial stream within W-145. Will be matted and spanned for temporary access road.			
<b>Photo No.</b> 16	<b>Date:</b>		
<b>Direction Photo Taken:</b> Northeast			
<b>Description:</b> Unnamed perennial tributary to Stony Brook and emergent marsh complex between Structures 10268 and 10269 (W-150).			



**APPENDIX E**

**CERTIFIED ABUTTERS LIST AND NOTICE**



## TOWN OF GRANBY ABUTTERS LIST

Map	Block	Lot	Unit	Owner-s Name	Co_Owner-s Name	Address	City	ST	Zip	Parcel Location
1	D	2		MOUNTAIN STREAM, LLC	C/O MACSISAK JOSEPH M	13.5 WASHINGTON AVE	HOLYOKE	MA	01040	AMHERST ST
1	D	10		OUELLETTE JASON L &	OUELLETTE CAROLYN E	103 ALDRICH ST	GRANBY	MA	01033	103 ALDRICH ST
1	D	11		J & L REALTY MANAGEMENT LLC		67 WHITE BIRCH ST	CHICOPEE	MA	01020	117 ALDRICH ST
1	E	2		SOUSA CHARLOTTE A (LE)		116 ALDRICH ST	GRANBY	MA	01033	116 ALDRICH ST
1	E	3		FUGLER LEO E JR		7 EAST ST	GRANBY	MA	01033	EASTON ST
1	E	3		WINDKREST PROPERTIES LLC		48 EAST ST	GRANBY	MA	01033	EASTON ST
1	E	7		PRESTON JUDY &	PRESTON KEITH W	3 EASTON ST	GRANBY	MA	01033	3 EASTON ST
1	E	8		ARSENAULT RICHARD R &	BONZAGNI LINDA L	212 AMHERST ST	GRANBY	MA	01033	212 AMHERST ST
1	E	3- 4		MORASSI MICHAEL J &	MORASSI LEILA M	244 AMHERST ST	GRANBY	MA	01033	244 AMHERST ST
1	E	3- 5		LARIVIERE RENE A &	CORBITT JOANNE L	PO BOX 243	GRANBY	MA	01033	118 ALDRICH ST
1	E	8- 1		SAPORITO WILLIAM &	SAPORITO JANICE M	222 AMHERST ST	GRANBY	MA	01033	222 AMHERST ST
1	E	8- 2		SAPORITO WILLIAM		222 AMHERST ST	GRANBY	MA	01033	AMHERST ST
1	E	8- 3		PRONOVOST CHRISTOPHER G &	PRONOVOST JESSICA L	226 AMHERST ST	GRANBY	MA	01033	226 AMHERST ST
1	E	8- 4		PRONOVOST CHRISTOPHER G &	PRONOVOST JESSICA L	226 AMHERST ST	GRANBY	MA	01033	AMHERST ST
1	E	8- 5		PRATT SUSAN T		377 PARADISE RD	BETHEL	ME	04217-3621	17 EASTON ST
1	E	8- 6		OUELLETTE LEO E JR		15 EASTON ST	GRANBY	MA	01033	15 EASTON ST
1	E	1-2 1		J & L REALTY MANAGEMENT LLC		67 WHITE BIRCH ST	CHICOPEE	MA	01020	ALDRICH ST
2	C	15		FALCETTI THOMAS C		2 EASTON ST	GRANBY	MA	01033	2 EASTON ST
3	B	3		WHITE LINCOLN E JR &	WHITE BARBARA J	143 WEST STATE ST	GRANBY	MA	01033	WEST STATE ST
3	B	4		SMIGIEL RONALD E &	SMIGIEL PHYLLIS A	133 WEST STATE ST	GRANBY	MA	01033	131-133 WEST STATE ST
3	B	8		MURPHY ROBERT A &	MURPHY ERIN E	107 WEST STATE ST	GRANBY	MA	01033	107 WEST STATE ST
3	B	8- 2		PORTER WILLIAM D III & PORTER MYRLE	C/O PROPERTIES PLUS, LLC	164 WEST ST	GRANBY	MA	01033	121 WEST STATE ST
3	G	1		PIONEER VALLEY CHAP #8 NAFCA INC		PO BOX 4462	SPRINGFIELD	MA	01101-4462	104 WEST STATE ST
3	G	2		LAMBERT GREGG A		106 WEST STATE ST	GRANBY	MA	01033	106 WEST STATE ST
3	G	3		MASSACHUSETTS ELECTRIC CO	C/O PROPERTY TAX DEPT	40 SYLVAN RD	WALTHAM	MA	02451	116 WEST STATE ST
3	G	21		ESILE JOSEPH J III		PO BOX 979	GRANBY	MA	01033	112 WEST STATE ST
3	G	22		MANEGIO KATRINA A &	MANEGIO FRANK A JR	3 BARTON ST	GRANBY	MA	01033	3 BARTON ST
3	G	6- 1		GRENIER PAUL E &	GRENIER TARA S	108 WEST STATE ST	GRANBY	MA	01033	WEST STATE ST
3	G	6- 3		GRANBY HOUSING AUTHORITY		10B WEST STATE ST	GRANBY	MA	01033	WEST STATE ST
3	G	6- 4		FIRST PRESBYTERIAN CHURCH &	SOCIETY OF HOLYOKE MASSACHUSETTS	300 APPLETON STREET	HOLYOKE	MA	01040	WEST STATE ST REAR
3 F	C	5		VALENTINO FRANCES M &	VALENTINO GIOVANNI	PO BOX 120244	EAST HAVEN	CT	06512	11 LEO DR
3 F	C	6		PUSHEE PATRICIA A		13 LEO DR	GRANBY	MA	01033	13 LEO DR
3 F	C	7		LECLAIR RAYMOND E		30 SMITH AV	GRANBY	MA	01033	SMITH AV
3 F	C	37		SANTOS CRAIG J	SANTOS GLENN & ALISON (LE)	37 SHADOW BROOK ESTATES	SO HADLEY	MA	01075	KELLOGG ST
4	A	10		GOULET JAMES &	GOULET DARLENE	98 PLEASANT ST	GRANBY	MA	01033	PLEASANT ST
4	A	13		KURTZ ANDREW D	KURTZ ROXANNE	118 PLEASANT ST	GRANBY	MA	01033	118 PLEASANT ST
4	A	14		INGHAM JEANNETTE A		134 PLEASANT ST	GRANBY	MA	01033	PLEASANT ST
4	A	15		LAIZER LEONARD &	LAIZER DENISE V	240 EAST ST	SO HADLEY	MA	01075	MILLER ST
4	A	18		MIKE-MON LLC		346 EAST ST	SO HADLEY	MA	01075	346 MILLER ST
4	A	11- 1		NAATZ ARTHUR C &	NAATZ CARRIE A	19 ARNODALE AVE	HOLYOKE	MA	01040	PLEASANT ST
4	A	13- 1		LAFLEUR ROBERT J JR &	LAFLEUR MARIA TERESA B	122 PLEASANT ST	GRANBY	MA	01033	122 PLEASANT ST
10	C	11		COMMONWEALTH OF MASSACHUSETTS	DEPT OF ENVIRONMENTAL MANAGEMENT	251 CAUSEWAY ST SUITE 600	BOSTON	MA	02114	BATCHELOR ST
11	B	4		COMMONWEALTH OF MASSACHUSETTS	DEPT OF CONSERVATION & RECREATION	251 CAUSEWAY ST SUITE 600	BOSTON	MA	02114	AMHERST ST
11	B	5		COMMONWEALTH OF MASSACHUSETTS	DEPT OF ENVIRONMENTAL MANAGEMENT	251 CAUSEWAY ST SUITE 600	BOSTON	MA	02114	AMHERST RD



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MANAGEMENT

1350 Main Street  
Suite 1400  
Springfield, MA 01103  
T: 413.726.2100  
F: 413.732.1249  
www.gza.com



October 20, 2020  
GZA File No: 15.0166637.09

To: Project Abutters

From: GZA GeoEnvironmental, Inc. (GZA)

Re: Notice of Filing a Notice of Intent Application  
Montague-Fairmont Structure Replacement Project (MFRP)  
Granby, Massachusetts

Dear Project Abutter:

On behalf of Eversource, the Applicant, GZA has submitted a Notice of Intent (NOI) application to the Granby Conservation Commission for the above-referenced project. The application has been filed for replacement of transmission structures and ancillary activities within resource areas subject to the Wetlands Protection Act (WPA).

Pursuant to the WPA Regulations, 310 CMR 10.00, abutters within 100 feet to the project location must be notified of the Notice of Intent application (via certified mail, certificate of mailing, or hand delivery).

Information about the time and location of the public hearing to discuss this application can be obtained by contacting the Granby Conservation Commission at (413) 467-7177, by emailing Cathy Leonard at [cleonard@granby-ma.gov](mailto:cleonard@granby-ma.gov), or by visiting the Town website Calendar. The application is available for review on the Granby Conservation Commission's web page at [granby-ma.gov/conservation-commission](http://granby-ma.gov/conservation-commission).

Very truly yours,  
GZA GeoEnvironmental, Inc.

Mary J. Brittain, LSP  
Senior Project Manager





GZA GeoEnvironmental, Inc.