

July 25, 2017

Melanie Bachman, Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Sub-Petition No. 1293-FA-01

Dear Ms. Bachman:


The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") is filing the attached Sub-Petition No.1293-FA-01 with the Connecticut Siting Council ("Council"), regarding maintenance work within its transmission right-of-way in Farmington, Connecticut. The work includes replacing 9 existing wooden transmission structures with new weathering steel transmission structures.

Eversource sent the enclosed Sub-Petition to Farmington's Town Manager and to owners of directly abutting properties (see Proof of Notice).

Enclosed please find an original and 3 copies of this filing. In addition, a soft copy of the Sub-Petition is on the enclosed thumb drive.

Please contact me at 860-728-4527 if you have any questions regarding the enclosed Sub-Petition.

Sincerely,



Enclosures

Attachments:

- Exhibit A: Sub-Petition
- Exhibit B: Photographs and Photo Simulation
- Exhibit C: Maps
- Exhibit C: Abutter Letter and Proof of Notice

ATTACHMENT A
SUB-PETITION

**THE CONNECTICUT LIGHT AND POWER COMPANY doing business
as
EVERSOURCE ENERGY**

Sub-Petition
CONNECTICUT SITING COUNCIL
PETITION NO. 1293
TRANSMISSION FACILITY ASSET
CONDITION MAINTENANCE
IMPROVEMENTS TO COMPLY WITH THE
UPDATED NATIONAL ELECTRIC SAFETY
CODE CLEARANCE REQUIREMENTS

Town: Farmington

Sub-Petition No. 1293-FA-01

Project: Line 1783 Structure Replacement Project

Structure Locations: 9 transmission structures located in Farmington, Connecticut

I. Introduction:

In accordance with Condition 1 of the March 30, 2017 ruling by the Connecticut Siting Council (the "Council") (as set forth in the Council's March 31, 2017 letter) regarding Petition No. 1293 ("CSC Ruling"), The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") submits this Sub-Petition.

II. Description of Transmission Work Activities:

Eversource's 1783 Line Structure Replacement Project is part of an ongoing maintenance program, that evaluates the integrity of its utility structures and implements repair, upgrade or replacement where needed to assure safe and efficient transmission of power to its customers. An engineering evaluation has determined that, due to asset condition, several structures require replacement on a portion of the 1783 circuit, which is a 115-kV transmission line that extends from Newington Substation to Farmington Substation through the towns of Newington and Farmington. Of those replacements, 9 of the structures will require a slight increase in structure height to comply with current clearance requirements.

Eversource plans to conduct the transmission structure replacement work to remediate wood structure damage caused by woodpeckers and those that have been determined to be structural deficient due to age, weathering, etc. The following work ("Work Activities") will be performed:

- Replace 9 existing direct-embed, single circuit, wood, H-frame structures with 9 new direct-embed, single circuit, weathering steel, H-frame structures that are slightly higher (9 feet or less) than the existing structures. The replacement poles will be installed within 15 feet of existing structures.

III. No Substantial Adverse Environmental Effect:

Eversource respectfully submits that the proposed modifications would have no "substantial adverse environmental effect" pursuant to Conn. Gen. Stat. § 16-50k, based on the following factors:

- a) Work Activities would take place within Eversource's existing right-of-way ("ROW") utilizing existing and proposed new access routes (collectively the "Work Area"). Eversource can access the structure locations utilizing its existing rights, but is currently working with private landowners in Farmington and the Connecticut Department of Transportation to obtain rights to utilize existing alternative off-ROW access routes that would minimize the amount of proposed new access road that would need to be installed within Eversource's existing ROW to access the replacement structures. Additionally, use of the existing alternative off-ROW access routes would significantly reduce the amount of temporary wetland and watercourse impacts required for accessing the structures.
- b) Work Activities would result in approximately 43,690 square feet (SF) of temporary wetland impacts which would be limited to the matting required to provide for construction work pads and access to structures. Additionally, three streams along the ROW will be temporarily bridged to facilitate access to structures and establishment of temporary work pads. Work within wetlands would be conducted in accordance with Eversource's *Best Management Practices Manual for Massachusetts and Connecticut (Construction and Maintenance Environmental Requirements)*, September 2016 ("BMPs"). Should Eversource obtain the rights to utilize existing off-ROW access routes, temporary wetland impacts from matting would be reduced by approximately 7,215 SF (reducing the total to ± 36,475 SF) and one stream crossing would be avoided.
- c) No vernal pools are located within the limits of the Work Area. Therefore, adverse impacts to vernal pools are not anticipated to result from the proposed Work Activities.
- d) According to Eversource's review of the Department of Energy and Environmental Protection's ("CTDEEP") Natural Diversity Data Base ("NDDB"), Work Activities associated with two structures (8015 and 8009) will be located within NDDB areas. Eversource will submit an NDDB review to CTDEEP and will adhere to recommendations made by CTDEEP for the protection of potential rare species. Rare species protective measures recommended by CTDEEP will be incorporated into the Company's BMPs during construction.
- e) The structure replacements will not require any tree clearing. However, Eversource may need to undertake minor tree trimming and/or vegetation mowing within the managed ROW corridor to improve access to portions of the Work Area.
- f) A review of previously recorded cultural resources on file with the Connecticut State

Historic Preservation Office revealed that no National Register of Historic Places (NR/SR) properties or districts are located within 500 feet of the Work Area. One previously recorded archaeological site is located within the vicinity of the Project (Site 155-1), but is approximately 4,010 feet from the nearest Work Area. Based on a review of historic maps, aerial photographs, soil profiles, and a walkover survey that included hand-powered soil cores, five structure work pad areas and one segment of an access road were identified as having moderate to high archaeological sensitivity. These locations underwent Phase IB testing. No physical evidence of archaeological significance was found within all five of the structure work pad areas investigated. Within the access road leading to Structure 8020 from South Road in Farmington, one shovel test pit contained a historic period pot sherd (delftware), indicating the presence of a site or an isolated "findspot". Matting will be used along this access road to mitigate any disturbance to potential archaeological deposits.

- g) The increased heights of replacement structures average approximately six feet and will not exceed 9 feet.
- h) Replacement structures will be located within 15 feet horizontally of existing structures.
- i) Work Areas associated with two of the structures are located either partially or wholly within 100-year flood zones. Any potential impacts to flood zones will be minor and temporary because the matting or gravel placed for access during construction will be removed following completion of Work Activities.
- j) There would be no change in noise levels following installation of the new structures.
- k) Any changes in electric and magnetic field levels off the ROW would be negligible.

IV. Mitigation:

Temporary environmental effects from construction will be mitigated as follows:

- Erosion and sediment controls ("E&S") will be employed and maintained, as needed, throughout the execution of the Work Activities in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control and the BMPs.
- Potential impacts to wetlands and moderate to high archaeological sensitivity areas will be mitigated with the use of timber matting and adherence to the BMPs.
- Rare species protective measures recommended by CTDEEP will be incorporated into the Company's BMPs during construction.
- Eversource's contractor will perform construction sequencing such that any earth materials are exposed for a minimum of time before they are covered, seeded, or otherwise stabilized to prevent erosion.
- During construction, anti-tracking pads would be installed (as appropriate) at construction entrances onto public roads to prevent off-site tracking of soil.

- Upon completion of the Work Activities, disturbed/exposed areas would be stabilized and revegetated. After the establishment of permanent ground cover, Eversource's contractor would remove the temporary E&S controls and properly remove/dispose of any accumulated sediments and debris from areas where such measures were used.

V. Access:

New access roads will be constructed to facilitate access to structures within the ROW, and existing access roads may be hardened and temporarily widened at turning areas within uplands to facilitate the safe passage of construction vehicles. Temporary matting would be used in wetlands and in areas of 100-year flood zone to the extent practicable, and all fill used for access and work pads in the 100-year flood zone would be completely removed following completion of Work Activities.

Eversource would access the Work Areas by entering its ROW from existing access points on public roads and then continue on existing access routes or access routes using timber matting as follows:

- Middle Road, Farmington for structures 8031, 8027, and 8026
- South Road, Farmington for structure 8024 (Old South Street would be used for access to structure 8024 if rights are obtained for use of existing off-ROW routes)
- South Road, Farmington for structure 8020
- Fairview Drive, Farmington for structure 8015
- Orchard Road, Farmington for structure 8013
- West Farms Mall Access Road, Farmington for structures 8010 and 8009

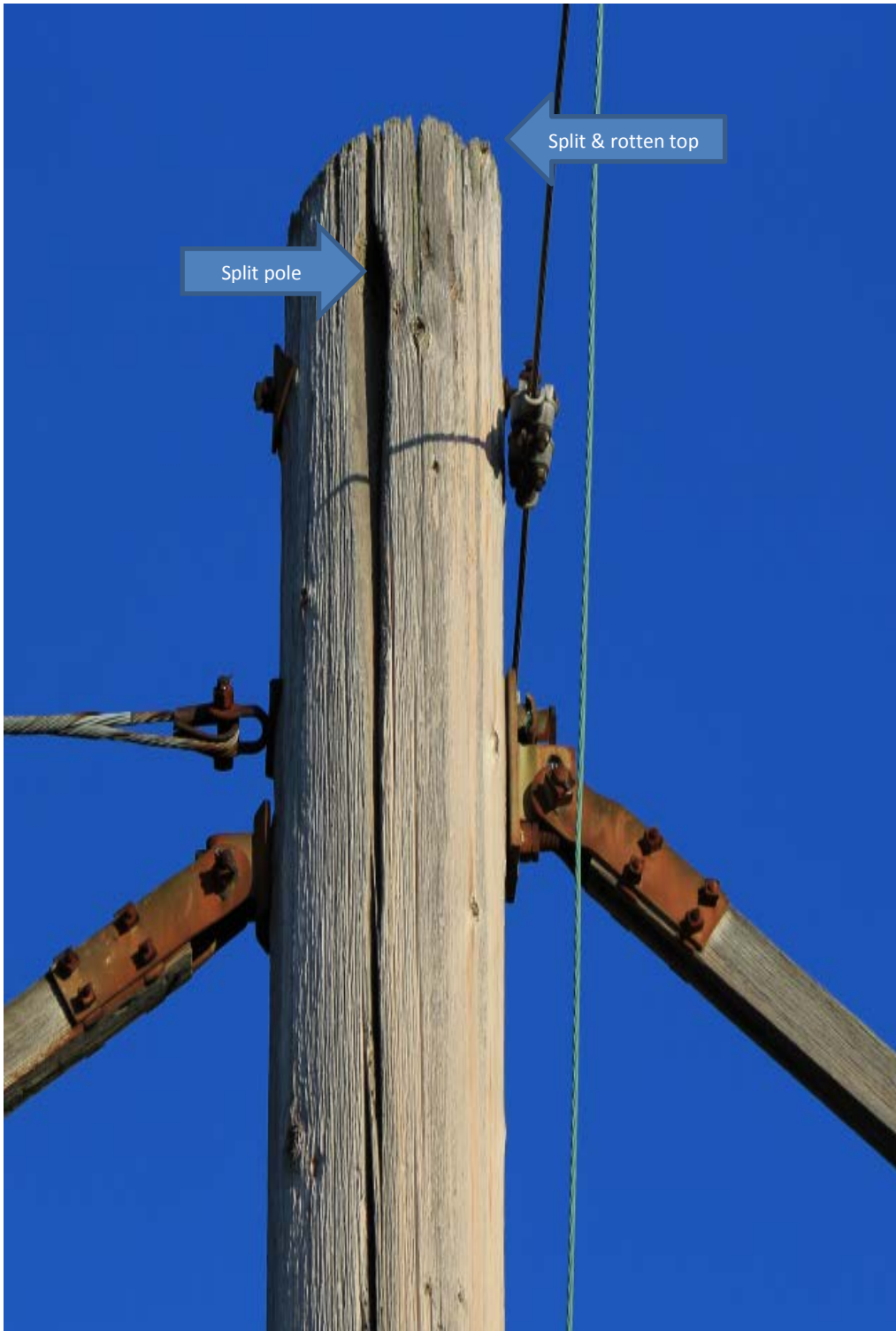
THE CONNECTICUT LIGHT AND POWER COMPANY
DOING BUSINESS AS EVERSOURCE ENERGY

By: _____


Kathleen M. Shanley
Manager, Transmission Siting

ATTACHMENT B
PHOTOGRAPHS AND
PHOTO SIMULATION

Structure 8031



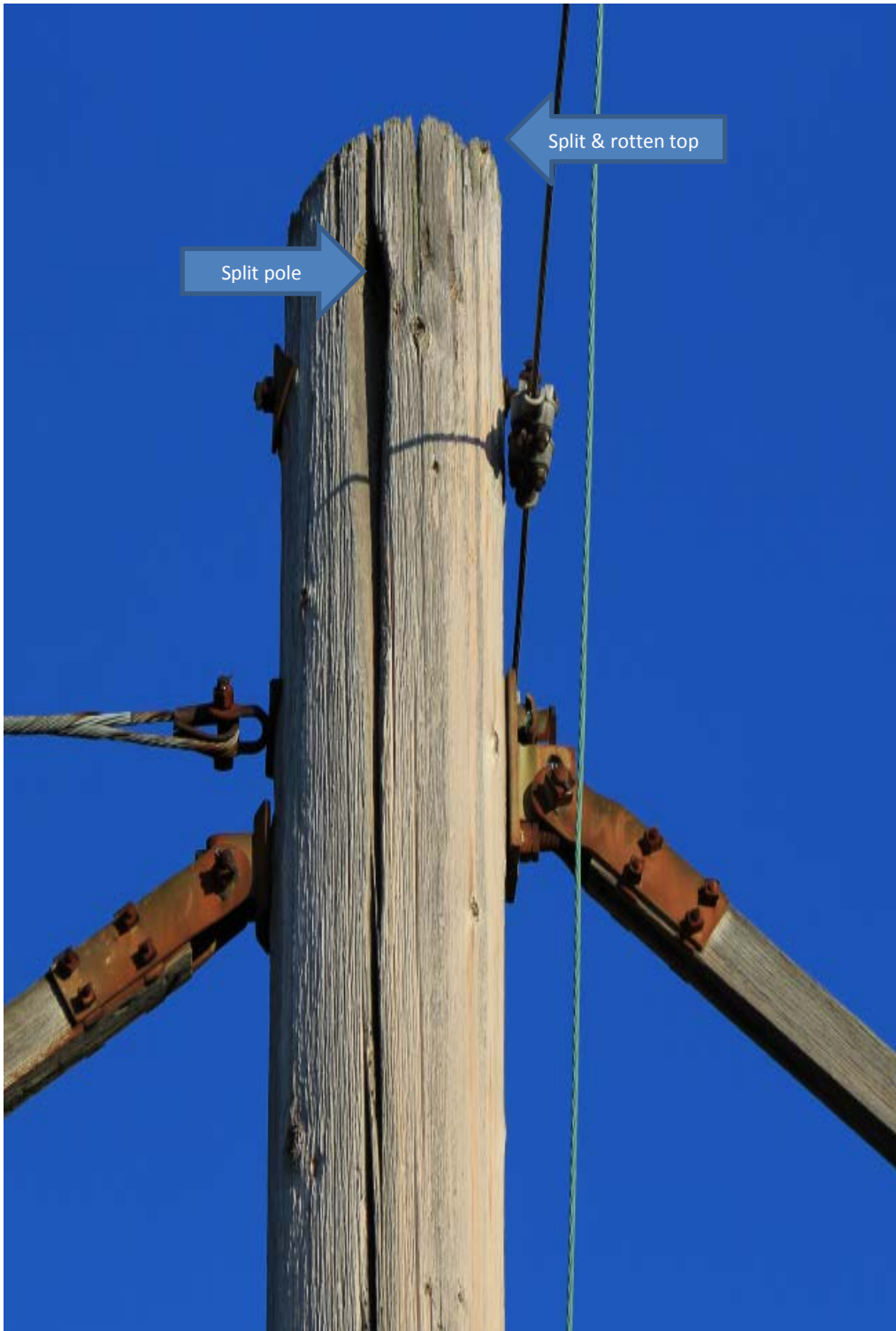
Structure 8020



Structure 8026



Structure 8031





EXISTING

1783 LINE

STRUCTURE 8020

LOCATION

SOUTH ROAD - FARMINGTON

ORIENTATION

SOUTH





REPLACEMENT

1783 LINE
STRUCTURE 8020

LOCATION

SOUTH ROAD - FARMINGTON

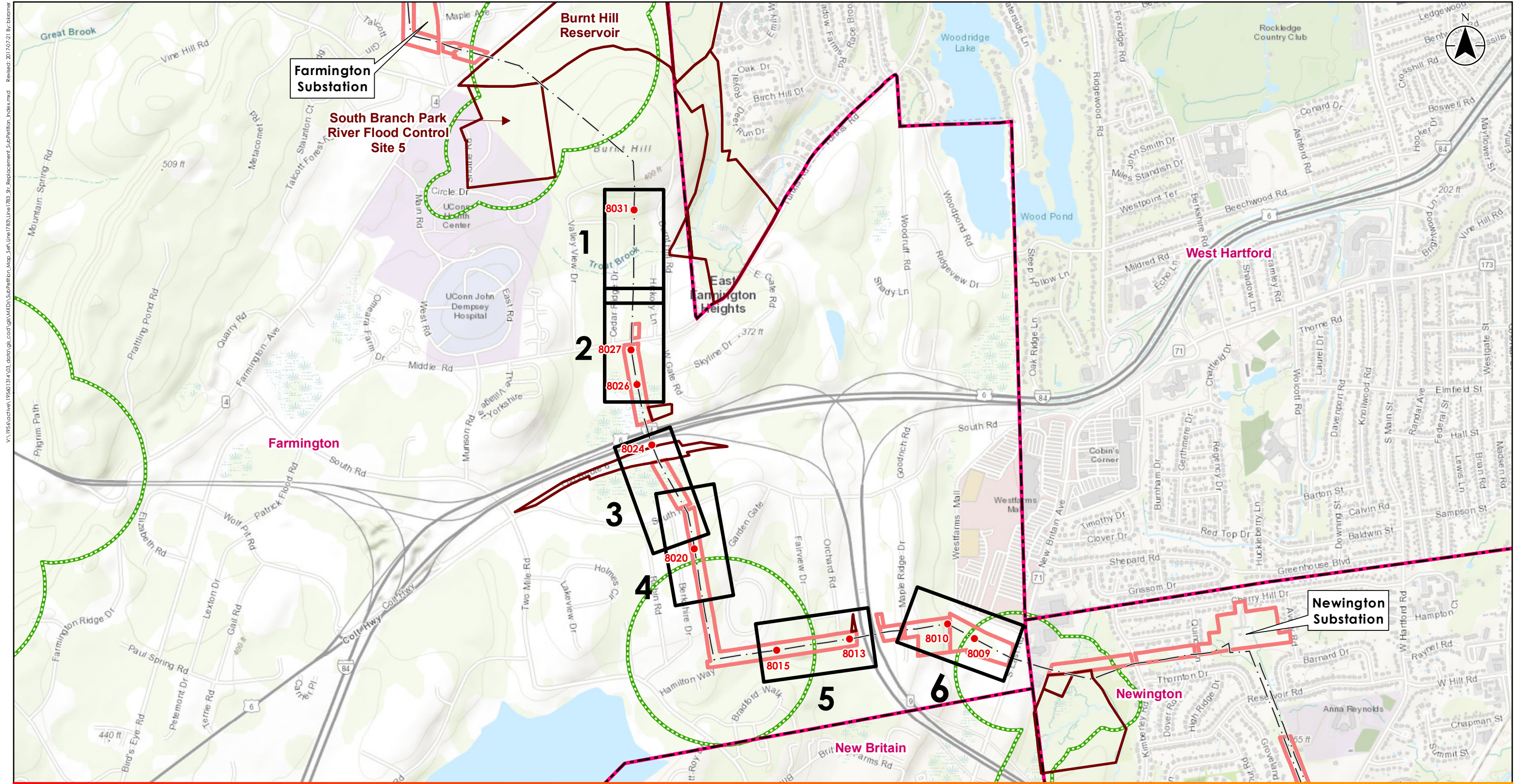
ORIENTATION

SOUTH



ATTACHMENT C

MAPS

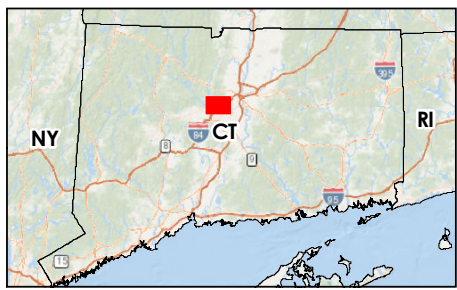


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195601348



Prepared by EMK on 2017-06-28
 Quality Review by KH on 2017-06-29
 Independent Review by SH on 2017-07-05



Legend

- Proposed Structure
- - - Approximate Transmission Line (Centerline)
- ▭ Map Sheet
- ▭ Municipal Boundary
- ▭ Natural Diversity Database (NDDB)
- ▭ State-Owned Property
- ▭ Eversource-Owned Property

Data Source

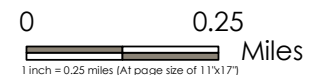
1. Eversource easement lines and structures provided by Eversource Energy.
2. Additional Data Sources include: CT DEEP, CT DEP, FEMA and the Towns of Berlin, New Britain, Newington and Farmington.
3. Topographic basemap provided by ArcGIS Online World Topographic Map (http://server.arcgisonline.com/arcgis/services/World_Topo_Map/MapServer).

Client/Project

Eversource Energy
 Line 1783/1785 Structure Replacement
 Hartford County, Connecticut

Map No.
Index Map

Title
Line 1783 Sub-Petition Map Set
 7/21/2017



Line 1783 Sub-Petition Structure Replacement

Map 01 Abutters Table

LL NUMBER	PARCEL ADDRESS	PARCEL CITY	OWNER NAME	PARCEL STATE
100	34 CEDAR RIDGE DR	FARMINGTON	ANTHONY S RICCIO	CT

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 Revised: 2017-07-21 By: blumen



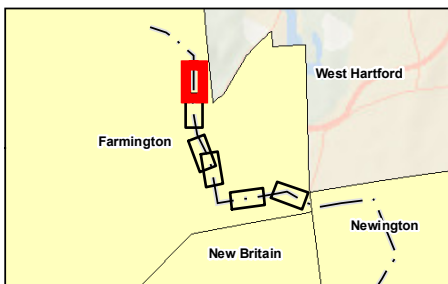
Notes

1. Wetland boundaries delineated in accordance with USACE Wetland Delineation Manual (1987) or subsequent versions and the Connecticut Inland Wetlands and Waterways Act (IWWA) and regulations (C.G.S., Ch. 440, §22a-36 through 22a-45).
2. Wetland and vernal pool boundaries were located utilizing a Trimble Geo-XH GeoExplorer 6000 Series Receiver. Expected accuracy of GPS data is within 1 meter of actual position.
3. Eversource easement lines and structures provided by Eversource Energy. Additional Data Sources include: CT DEEP, CT DEP, FEMA and the Towns of Berlin, New Britain, Newington and Farmington.
4. 2012 Statewide Leaf-off Orthoimagery provided by Connecticut Environmental Conditions Online (CT ECO).

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Prepared by EMK on 2017-06-28
 Quality Review by KH on 2017-06-29
 Independent Review by SH on 2017-07-05



Legend

- Proposed Structure
- Existing Structure
- Existing Structure to Be Removed
- - - Approximate Transmission Line (Centerline)
- Existing Right-of-Way (ROW)
- Proposed Access (all necessary rights in place)
- Proposed Alternate Access (where new rights will be obtained)
- Existing Access (all necessary rights in place)
- Stone Work Pad
- Temporary Construction Matting
- Eversource-Owned Property
- Culvert
- Gate
- - - 2' Contour Line
- 10' Contour Line
- ×=×=× Fence
- Railroad
- FEMA 100-Year Flood Zone
- Floodway
- Natural Diversity Database (NDDB)
- State-Owned Property
- Tax Parcel
- Municipal Boundary
- State of Connecticut Wetland
- Watercourse (not delineated)
- Delineated Intermittent Watercourse
- Delineated Perennial Watercourse
- Delineated Wetland Boundary Outline
- Field Delineated Wetland
- Field Delineated Wetland (by others)
- Delineated Waterbody
- Potential Vernal Pool Extent
- 100-ft Potential Vernal Pool Buffer (Envelope)

Client/Project
 Eversource Energy
 Line 1783/1785 Structure Replacement
 Hartford County, Connecticut

Map No.
 1

Title
 Line 1783 Sub-Petition Map Set
 7/21/2017

195601348

Line 1783 Sub-Petition Structure Replacement

Map 02 Abutters Table

LL NUMBER	PARCEL ADDRESS	PARCEL CITY	OWNER NAME	PARCEL STATE
101	8510 MIDDLE RD	FARMINGTON	CONNECTICUT LIGHT AND POWER	CT

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 Revised: 2017-07-21 By: blumen



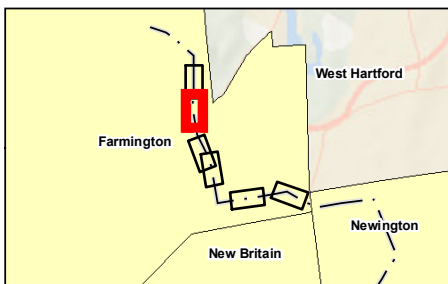
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 Independent Review by SH on 2017-07-05



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- Ⓜ Gate
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- 10' Contour Line
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- Railroad
- ⊕ FEMA 100-Year Flood Zone
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Client/Project
 Eversource Energy
 Line 1783/1785 Structure Replacement
 Hartford County, Connecticut

Map No. 2
 Title
 Line 1783 Sub-Petition Map Set
 7/21/2017

195601348

Line 1783 Sub-Petition Structure Replacement

Map 03 Abutters Table

LL NUMBER	PARCEL ADDRESS	PARCEL CITY	OWNER NAME	PARCEL STATE
102	139 SOUTH RD	FARMINGTON	STATE OF CONNECTICUT	CT

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 Reviewed: 2017-07-21 By: blinnier



Notes

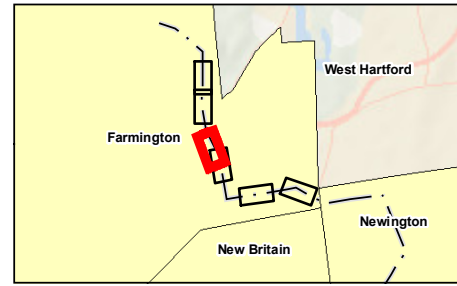
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Prepared by EMK on 2017-06-28
 Quality Review by KH on 2017-06-29
 Independent Review by SH on 2017-07-05



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Client/Project
 Eversource Energy
 Line 1783/1785 Structure Replacement
 Hartford County, Connecticut

Map No.
 3

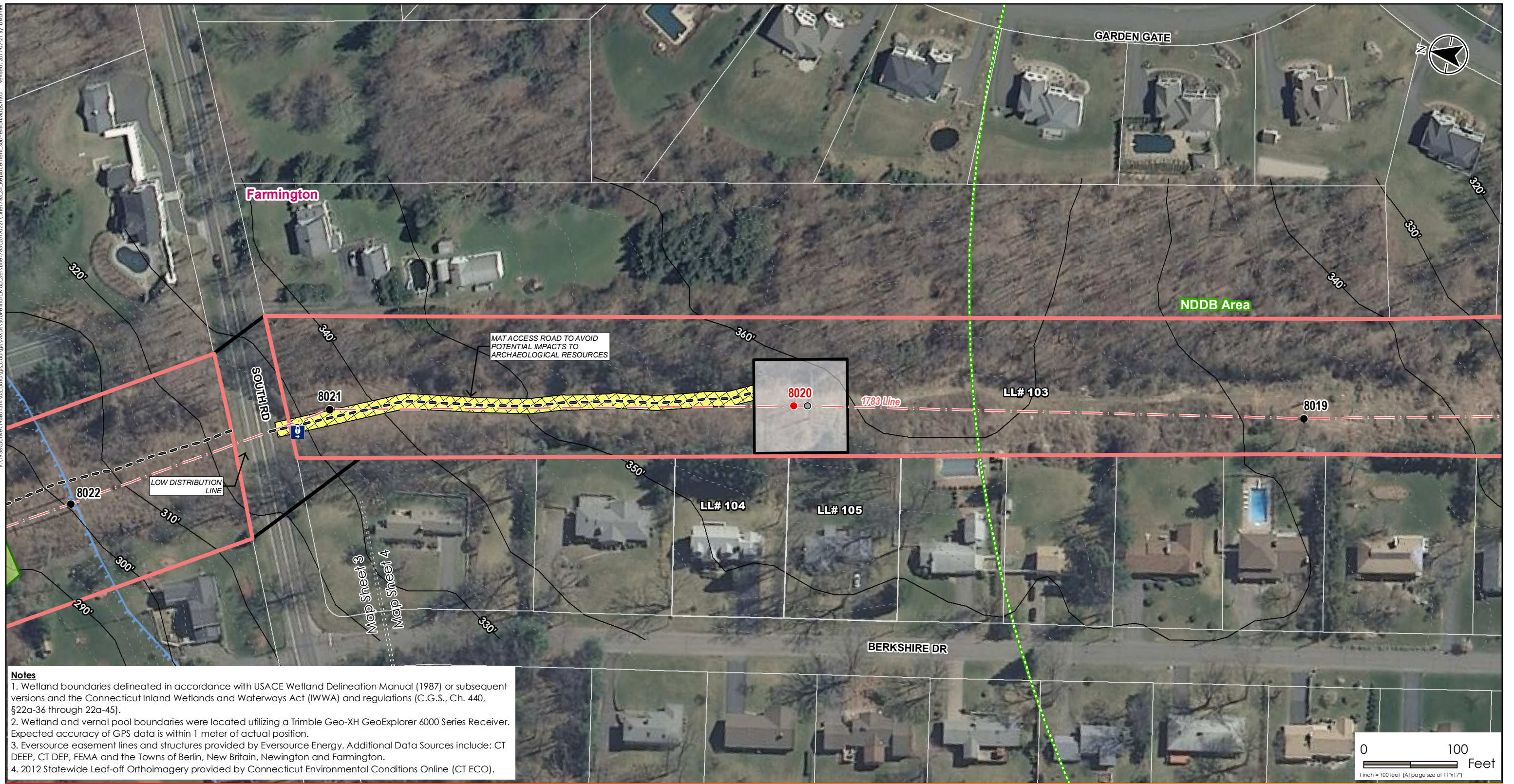
Title
 Line 1783 Sub-Petition Map Set
 7/21/2017

Line 1783 Sub-Petition Structure Replacement

Map 04 Abutters Table

LL NUMBER	PARCEL ADDRESS	PARCEL CITY	OWNER NAME	PARCEL STATE
103	8876 SOUTH RD	FARMINGTON	CONNECTICUT LIGHT AND POWER	CT
104	11 BERKSHIRE DR	FARMINGTON	MITZI JEAN TROYAN	CT
105	15 BERKSHIRE DR	FARMINGTON	KATHRYN L AMAIO	CT

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 Reviewed: 2017-07-21 By: bismar



Notes

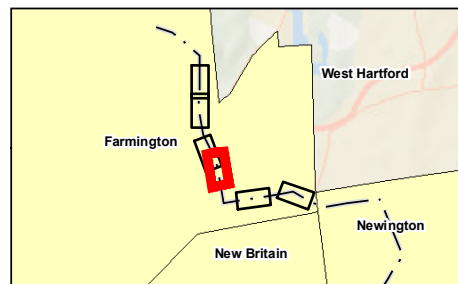
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Prepared by EMK on 2017-06-28
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 Independent Review by SH on 2017-07-05



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Client/Project
 Eversource Energy
 Line 1783/1785 Structure Replacement
 Hartford County, Connecticut

Map No.
 4

Title
 Line 1783 Sub-Petition Map Set
 7/21/2017

Line 1783 Sub-Petition Structure Replacement

Map 05 Abutters Table

LL NUMBER	PARCEL ADDRESS	PARCEL CITY	OWNER NAME	PARCEL STATE
103	8876 SOUTH RD	FARMINGTON	CONNECTICUT LIGHT AND POWER	CT

Line 1783 Sub-Petition Structure Replacement

Map 06 Abutters Table

LL NUMBER	PARCEL ADDRESS	PARCEL CITY	OWNER NAME	PARCEL STATE
106	8876 SOUTH RD	FARMINGTON	CONNECTICUT LIGHT AND POWER	CT
107	8889 SOUTHEAST RD	FARMINGTON	CONNECTICUT LIGHT AND POWER	CT

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 Revised: 2017-07-21 By: bismar



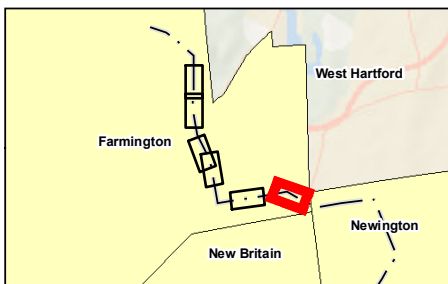
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3. Eversource easement lines and structures provided by Eversource Energy. Additional Data Sources include: CT DEEP, CT DEP, FEMA and the Towns of Berlin, New Britain, Newington and Farmington.
4. 2012 Statewide Leaf-off Orthoimagery provided by Connecticut Environmental Conditions Online (CT ECO).

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 Quality Review by KH on 2017-06-29
 Independent Review by SH on 2017-07-05



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Client/Project
 Eversource Energy
 Line 1783/1785 Structure Replacement
 Hartford County, Connecticut

Map No.
 6

Title
 Line 1783 Sub-Petition Map Set
 7/21/2017

195601348

ATTACHMENT D
ABUTTER LETTER AND
PROOF OF NOTICE

July 25, 2017

Dear Neighbor,

Maintaining the infrastructure that supports our electric lines is one of the ways we ensure the safe, secure transmission of electricity throughout the region. As part of our everyday effort to deliver reliable energy and superior service to our customers and communities, we plan to replace a number of electric transmission structures in your area.

You're receiving this letter, and a copy of the Sub-Petition, because the proposed work would be taking place within the right of way on or near your property.

About This Electric System Improvement

This project, called the 1783 Structure Replacement Project, involves replacing several existing wood structures with weathering steel structures; these new structures will provide continued reliability of the transmission line and maintain the integrity of the transmission system.

As part of this upgrade project, we'll be submitting a "Sub-Petition" to the Connecticut Siting Council (CSC) for its review and approval. The Sub-Petition is a document with detailed information about the proposed upgrades.

What You Can Expect

We're proposing to do the work on Eversource property or within the existing rights of way between the Farmington Substation on Old Mountain Road in Farmington to the Newington Substation on Cherry Hill Road in Newington. The right of way runs through portions of Farmington and Newington.

Once we receive all necessary approvals for this proposed work, construction is expected to begin in August 2017. We expect to complete restoration of any affected areas by mid-2018.

Connecticut Siting Council Process and Timing

With this letter, Eversource is providing notice to you of its proposed work activity, as described in the enclosed sub-petition. If you have any comments or concerns about the project, please send them to the CSC at the following address within 30 days of the date of this letter.

Melanie Bachman, Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

You may also email them to siting.council@ct.gov. If you choose to send comments to the CSC, please reference Sub-Petition No.1293-FA-01 in your correspondence.

(continued)

Our Commitment to You

We are committed to being a good neighbor and doing our work with respect for you and your property. For more information about this work, please call 1-800-793-2202, or send an email to TransmissionInfo@eversource.com. Thank you.

Sincerely,

Brian Ragozzine

Brian Ragozzine,
Eversource Project Manager – Transmission Projects