

April 1, 2016

Robert Stein, Chairman  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

Re: 1682 Line Upgrade Project

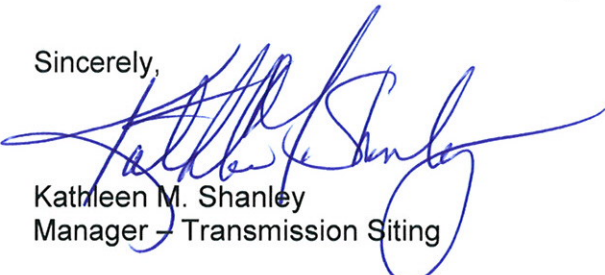
Dear Chairman Stein:

Attached are an original and fifteen (15) copies of a petition on behalf of The Connecticut Light and Power Company doing business as Eversource Energy requesting a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to a 115-kV transmission line in Wilton, Connecticut ("Petition").

Prior to submitting this Petition, representatives from Eversource briefed municipal officials in Wilton on the proposed modifications. Written notice was provided to all abutters notifying them of the proposed work and the Petition being filed with the Council. A map and line list identifying the abutting property owners who were notified of the Project are provided in Attachment A: 1682 Line Upgrade Project of the enclosed Petition. The letter to the abutters and the Affidavit of Service are provided in Attachment D: Letter to the Abutters and Affidavit.

A check in the amount of \$625 for the required filing fee is also attached.

Sincerely,



Kathleen M. Shanley  
Manager - Transmission Siting

Enclosure

cc:  
The Honorable Lynne Vanderslice, Wilton First Selectman



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

PETITION TO THE CONNECTICUT SITING COUNCIL  
FOR A DECLARATORY RULING OF  
NO SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT  
FOR THE 1682 LINE UPGRADE PROJECT CONSISTING OF PROPOSED MODIFICATIONS  
OF AN EXISTING 115-kV TRANSMISSION LINE  
IN WILTON, CONNECTICUT

1. The Connecticut Light and Power Company doing business as Eversource Energy (“Eversource” or the “Company”) hereby petitions the Connecticut Siting Council (“Council”) for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required pursuant to Section 16-50g et seq. of the Connecticut General Statutes for the modifications to the existing 115-kV transmission in Wilton within existing right-of-way (“ROW”) and Eversource property that are described herein (the “Project”). Eversource submits that no such Certificate is required because the proposed modifications would not have a substantial adverse environmental effect.

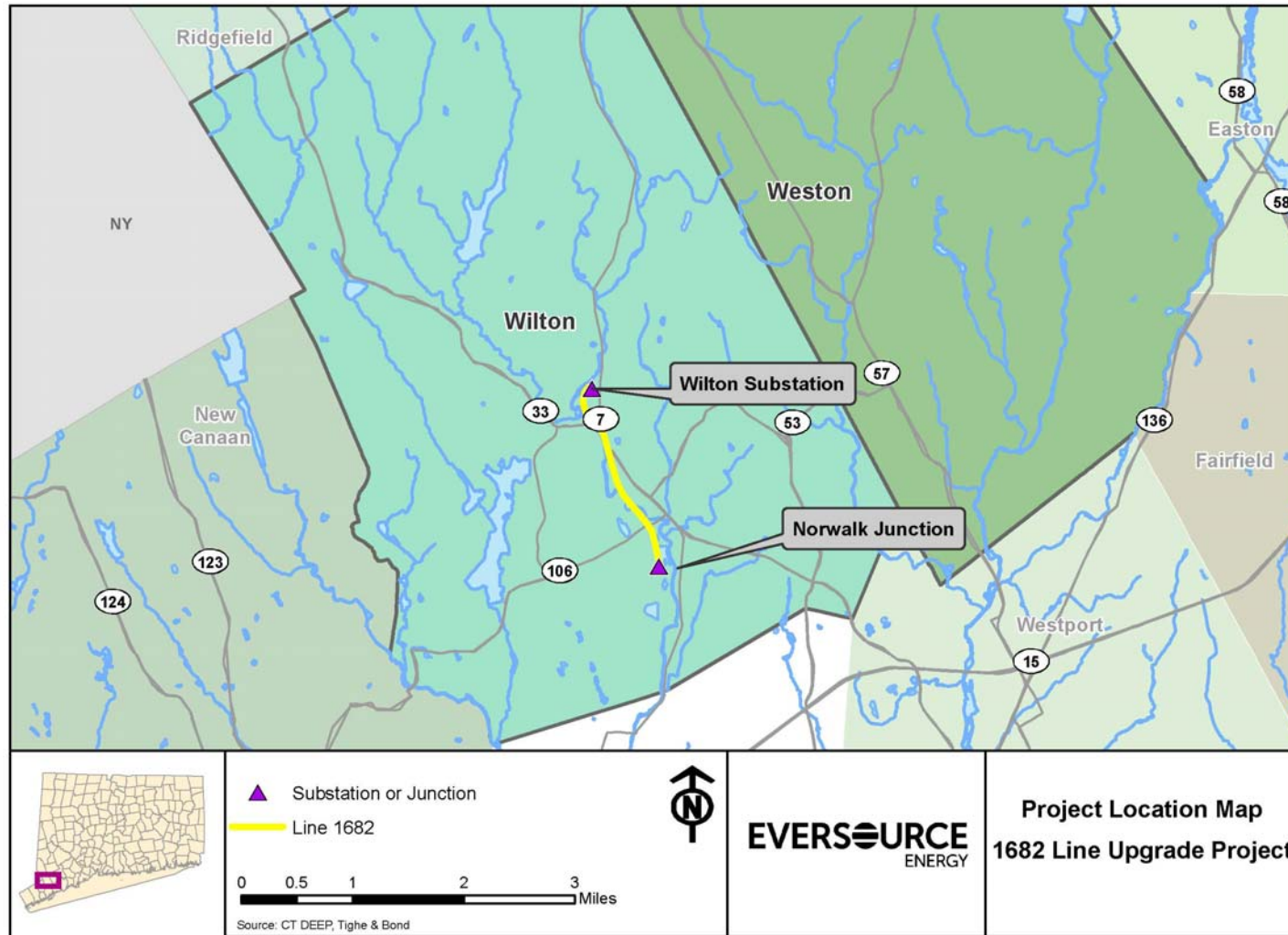
**2. Purpose of Project**

The purpose of the Project is to eliminate potential transmission system thermal criteria violations and increase the line ratings, based on the results of the June 2014 Southwest Connecticut Area (“SWCT”) Needs Assessment performed by the Independent System Operator of New England (“ISO-NE”) and in accordance with the February 2015 SWCT Solutions Study, also performed by ISO-NE.

**3. Project Description**

The Project consists rebuilding approximately two miles of the existing 115-kV 1682 Line from the Wilton Substation, located at 53 Old Danbury Road in Wilton, to the Norwalk Junction, located at 111 Danbury Road (Route 7) in Wilton. See Figure 1: Project Location Map.

Figure 1: Project Location Map



G:\GIS\CT\EversourceEnergy\N0915\N0915\_45\_Line\_1682\_1470-1\_1470-3\MapDocuments\HighLevelOverview\SWCT\_Line1682\_HighLevelOverview.mxd

The proposed modifications are shown on Attachment A: 1682 Line Upgrade Project and Attachment B: Right-of-Way Cross Section. This work will consist of:

- a) Replacement of the eight existing double-circuit, steel lattice tower tangent structures (structures 3000, 3001, 3002, 3003, 3008, 3009, 3012 and 3013) with direct-embedded, double-circuit galvanized steel tangent monopole structures.
- b) Replacement of the seven existing double-circuit, steel lattice tower tangent structures (structures 2995, 2996, 2998, 3005, 3006, 3007 and 3010) with double-circuit, galvanized steel tangent monopole structures on foundations.
- c) Replacement of the four existing double-circuit steel lattice tower strain structures (structures 2994, 2997, 2999 and 3011) with double-circuit galvanized strain steel monopoles on foundations.
- d) Replacement of the existing transmission 556-kcmil aluminum conductor with steel reinforced conductor with new 1590-kcmil aluminum conductor with steel support conductor, which would be supported on the new double-circuit galvanized steel monopole structures within Eversource's right-of-way.
- e) Installation of OPGW and 19#10 Alumoweld shield wires.

In addition to the above, a 27.6-kV distribution line, attached to the existing lattice structures, will be shifted onto the new proposed transmission steel monopole structures.

The heights of the existing structures range from 64 to 101 feet above ground level. The proposed new structures would be approximately 7 to 26 feet taller than the existing structures with the highest structure, structure 2998, at 119 feet above ground level. The increase in height is to comply with the 2012 National Electric Safety Code ("NESC") conductor to ground clearance requirements, phase to phase clearance requirements and the Company's updated Overhead Transmission Line Standards.

T-Mobile Northeast, LLC ("T-Mobile") and AT&T Wireless, LLC ("AT&T") currently have telecommunication equipment installed on existing structures 2997 and 2998, respectively. Eversource has informed T-Mobile and AT&T and of the proposed Project and the opportunity for each company to relocate its equipment to the new structures, if the Project is approved by the Council.

#### **4. Existing Environment, Environmental Effects and Mitigation**

The proposed transmission line work described above would not have a substantial adverse environmental effect, as explained more fully below. All work within environmentally sensitive areas, such as water resources or habitat areas identified through the National Diversity Data

Base (NDDDB) for state-listed species, would be conducted in accordance with required environmental permits and the Company's *December 2011 Best Management Practices Manual: Connecticut* (BMPs), and would employ measures to avoid, minimize and/or mitigate potential adverse environmental effects.

#### Project Area Existing Conditions

The proposed line rebuild would be constructed entirely within Eversource's existing transmission right-of-way ("ROW"). The 1682 Line is the sole transmission line occupying the ROW, along with the 27.6-kV distribution circuit. The ROW was acquired in 1940 and the line was built in 1943 and varies in width from 40 to 100 feet. The 1682 Line structures are a mix of transmission steel double-circuit lattice towers, single-circuit steel monopoles. See Attachment B: Right-of-Way Cross Section.

#### Land Use

Land uses in the Project area are primarily a mix of commercial, residential, and undeveloped lands. Approximately 1.85 miles of the Project corridor runs parallel to the Metro-North commuter railroad, which is located to the west of the Project, and also parallels the Norwalk River (located on the west side of the railroad) for approximately the same distance. Other adjacent land uses include suburban residential developments and subdivisions, forested land, undeveloped flood zone areas and a small portion of Danbury Road (U.S. Route 7). The Project would traverse through some maintained lawns, driveways and parking lots within the established ROW; however, Eversource will work with the property owners to restore any areas impacted by the Project upon completion of the work.

#### Vegetation Removal

No clearing would be required to accommodate the Project and all work would take place within the existing, maintained corridor which varies in width from 40 to 60 feet. Consistent with Eversource's ROW vegetation management program, some vegetation removal/mowing would occur to accommodate access road installation and improvements, and work/ pull pad installations. To maintain safe conductor clearances

from vegetation, any tree species that are on the Company's list of incompatible species will also be removed.

During vegetation removal, construction mats may be used to provide a stable base for equipment across watercourses or within wetlands. Such temporary support would minimize rutting in wetlands, and the mats would be removed after the work is completed.

### Scenic, Recreational and Cultural Resources

No scenic resources were identified within the Project area.

There are no forests or park lands within the Project area. However, there are open space parcels, a municipal park and a trail that is in proximity to the Project area. See Sheets 1 and 2 Attachment A. Open Space areas include:

- Municipal Private Open Space/Protected Open Space (Lovers Lane Open Space),
- Municipal Private Open Space/Protected Open Space (Merwin Meadows Park);
- Municipal Private Open Space/ Protected Open Space (Old Ridgefield Road Open Space);and
- Schencks Island Park.

The Norwalk River Valley Trail: Wilton Loop ("NRVT") trail is located west of the Project ROW across from the Metro-North railroad and the Norwalk River. No direct effects to the NRVT are anticipated.

A cultural (archaeological and historical) resources review of the Project area was conducted by Heritage Consultants, LLC ("Heritage") in July 2015. This comprehensive Phase I cultural resource review uses a three-step approach: (1) literature search and records review that focus on the proposed Project area; (2) identification of all previously recorded archeological sites situated in the vicinity of the Project area, and (3) professional archeological reconnaissance survey of the proposed Project areas within the identified archaeological or historically significant areas.

The initial two steps of the cultural resource review identified two locations within the Project area that are characterized as having a moderate/ high potential to produce intact cultural deposits. The remaining portions of the Project area were classified as either impacted by modern development or contained incompatible conditions to produce artifacts. Eversource is currently coordinating with the Connecticut State Historic Preservation Office (SHPO) to perform the professional archaeological reconnaissance survey (step three) in compliance with SHPO's requirements. Prior to construction, Eversource would provide the results of the professional archeological reconnaissance survey to SHPO for review, comment and approval. Eversource would comply with mitigation requirements, if any, provided with the SHPO approval.

One documented historic period site is located within 500 feet of the Project area, the Sloan Raymond Fitch House, which is listed as a historic building on the National Register of Historic Places. No impact to this historic resource from the Project is anticipated.

#### Water Resources

Eversource contracted with the firm Tighe & Bond to identify and delineate water resources in the spring of 2015. Water resources within the Project area include inland wetlands, watercourses (intermittent and perennial streams and rivers), waterbodies (ponds), vernal pools and Federal Emergency Management Agency ("FEMA") Flood Zones. Wetland boundaries were delineated in accordance with applicable federal and state methodologies. Work in water resource areas would be conducted in accordance with Eversource BMPs and in compliance with Project regulatory permit/authorization terms and conditions. Regulatory agency coordination is ongoing.



Prior to initiating work, Eversource would obtain permits in accordance with Section 404 and 401 of the Clean Water Act which regulates activities in the waters of the United States. Further detail for individual water resource areas is provided below.

#### *Wetlands*

The Project work will result in estimated temporary wetland impacts of approximately 37,134 square feet (0.85 acres) and would be limited to the installation of construction mats for access across/through wetland areas, for the creation of construction platforms (work pads) at proposed structure and pulling locations within the ROW, and to gain access to the existing and proposed structure locations (see Attachment A). The construction mats would be removed upon Project completion and wetland areas would be restored to approximate pre-construction conditions, in accordance with Eversource's BMPs and applicable permits.

Permanent wetland impacts are restricted to the installation of the proposed new structure 3006 that will result in approximately 50 square feet of permanent wetland fill.

#### *Watercourse and Waterbodies*

Watercourses and waterbodies were also delineated within the Project area in the spring of 2015. There are no direct effects to watercourses or waterbodies associated with the proposed Project. However, in order to access some structures, Eversource may need to cross the Norwalk River and an unnamed tributary of the Norwalk using stream-crossing techniques as detailed in the Eversource BMPs.

#### *Vernal Pools*

There are no vernal pools located within the Project area. Project wetland areas were reviewed for potential vernal pool habitat in the spring of 2015. These wetland areas are predominantly characterized by flood zones and riparian corridors that typically lack suitable vernal pool hydrology and morphology (seasonally flooded wetland depressions). Few of the delineated wetland areas

are characterized as depressional features, and no areas possessing suitable vernal pool hydrology, or bearing evidence of such hydrology, were identified.

#### *FEMA Flood Zones*

A portion of the proposed work is located within the 100- and 500-year flood zones and floodway of the Norwalk River.

Eversource would utilize its BMPs to minimize any impacts to these areas, including the use of construction mats for access within flood zones, to ensure that hydrology is not adversely affected. Prior to significant storm events, Eversource will secure the construction mats to impede lateral movement during temporary flooding. All construction mats would be removed after the Project is complete.

A total of three new structures are proposed to be located in the FEMA 100-year flood zone and floodway associated with Norwalk River. Structures 3005, 3006 and 3007 would be constructed on new drilled shaft foundations. The foundations would be eight feet in diameter.

Eversource conducted a hydraulic analysis and calculated the cut and fill volumes associated with the construction of structures in the flood zone. Based upon this analysis, it was determined that the construction of structures 3005, 3006 and 3007 will substantially conform to the compensatory storage requirements and there will be no increase in the base flood elevation as a result of the construction of the Project.

#### *Public Water Supply*

Based on an October 2015 review of data maintained by Connecticut Department of Energy and Environmental Protection ("CT DEEP"), the Project is not located within any aquifer protection areas. In addition, no public supply reservoirs or public/private water supply wells are located within the vicinity of the Project area.

### Wildlife and Habitat

Eversource's review of CT DEEP's NDDB identified state-listed endangered, threatened, or special concern species in the vicinity of work activities. According to a data sharing agreement with the CT DEEP, Eversource is unable to publically identify the protected species identified as potentially located in the Project area. No portions of the Project fall within any identified rare and/or specialized wildlife habitats (critical habitat) as defined by CT DEEP.

Eversource is consulting with the CT DEEP and with the U.S. Fish and Wildlife Service regarding the one listed species with potential habitat (actually designated throughout the State of Connecticut) to ensure that appropriate measures are undertaken to minimize the Project's potential impact to this species.

### Sound Levels Along the Corridor

There would be no changes to the existing sound levels along the transmission corridor after completion of the Project.

### Visual Effects

The existing double-circuit lattice towers are being replaced with double-circuit monopoles, which will result in a more stream lined appearance. The overall visual effect of the Project would be further mitigated by aligning the replacement structures within the existing corridor in the same general location as the existing structures. The replacement structures would be approximately 7 to 26 feet higher than the existing structures to comply with current NESC clearance requirements.

## **5. Traffic, Construction Sequence and Methods**

The Project would be constructed, operated, and maintained in accordance with established industry practices and in accordance with the Company's BMPs. Further detail regarding the construction is provided below.

### Traffic/Traffic Management

Construction-related vehicular traffic would utilize public roads in the Project area and is expected to be temporary and highly localized in the vicinity of the ROW access points and staging areas. Due to phasing of the construction work, these Project-related vehicle movements are not expected to significantly affect transportation patterns or levels of service on public roads.

To safely move construction vehicles and equipment on to and off the ROW, while minimizing disruptions to vehicular traffic along public roads, Eversource and/or its contractor, would work with municipalities and the Connecticut Department of Transportation (“ConnDOT”), as needed. Construction warning signs will be posted and maintained along public roads near work sites. Flaggers or police personnel will be used to direct traffic, as necessary.

Construction vehicles would include pickup trucks, bucket trucks, concrete trucks, drill rigs, front loaders, reel trailers, bulldozers, pullers, tensioners, wood chippers, cranes, forklifts, side booms and dump trucks.

### Construction Sequence

Preparation of the ROW would include the following activities:

#### Survey

Surveys to stake the proposed structure locations and mark the boundaries of previously delineated wetland and watercourse areas, as well as areas to be avoided (e.g., sensitive cultural or environmental resource areas).

#### Staging Areas

Temporary staging areas will be selected from available parcels in the vicinity of the Project area and established prior to the start of work. The proposed staging areas would be used to store construction materials, equipment, tools, and supplies (including conductors, insulators, hardware, poles and construction mats) for the Project. Removed structure components (e.g. conductor, hardware

and insulators) may be temporarily accumulated and stored at a staging area prior to off-site removal and/or disposal. The staging areas may also be used for office trailers and by construction crews for parking personal vehicles as well as for construction vehicles and for performing minor maintenance, when needed, on construction equipment. E&S controls would be installed and maintained at the staging areas until Project completion in accordance with Eversource's BMPs.

#### Vegetation Removal

As mentioned previously, no clearing is required to construct the Project, however; some vegetation will need to be removed in order to establish/improve access roads and install work/pull pads. Consistent with Eversource's ROW vegetation management program, woody vegetation that could interfere with the operation of the overhead transmission lines would also be removed from within the ROW and overhang from trees located along the edge of maintained corridor, would be trimmed. Vegetation would be removed using mechanical methods.

#### Erosion and Sediment Control Installation

Construction of the Project would conform to best management practices for erosion and sediment ("E&S") control, including those measures provided in the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* and Eversource BMPs. As appropriate, E&S controls will be installed around work sites and access roads, and implemented as necessary to minimize the potential for sediment deposition into water resources. Typical E&S control measures include, but are not limited to, straw blankets, hay bales, silt fencing, check dams, berms, swales, and sediment basins. Silt fencing would be installed prior to construction to demarcate the line of construction and prevent migration of sediment or construction materials out of the work area.

Following the completion of construction, seeding and/or mulching would occur to permanently stabilize previously disturbed areas. The temporary E&S control measures would remain in place until the Project work is complete and all disturbed areas have been stabilized.

### Installation of Access Roads and Work Pads

Access to each of the proposed transmission structure locations is required to execute the work. As a result of the operation and maintenance of the existing transmission lines within this corridor, some access roads are already established and these existing access roads would be used for the construction of the Project, wherever possible. However, some new access roads and spurs, to provide passage from the existing/new access roads to the proposed work pad locations, would be required. Additional new off-ROW access roads would also be required to gain access to the ROW at some locations. In these instances, Eversource will obtain appropriate easement rights from private property owners.

Existing access roads may need to be graded, widened, and/or reinforced with additional material in order to be used safely and effectively during construction. New access road installation and improvements to existing access roads typically would utilize gravel and include trimming adjacent vegetation and widening roads as needed to provide a minimal travel surface that is approximately 16 to 20 feet wide (additional width may be needed at turning or passing locations).

The Project will also require installation of work pads at structure locations to create a safe, level work surface for structure installation and for pulling conductors. A typical (upland) installation of a work pad at a structure location would involve several steps, beginning with the removal of vegetation, if necessary. If not already level, the work pad site would then be graded to create a level work area and the upper three to six inches of topsoil (which is typically unsuitable to support the necessary construction activities) would be removed. The topsoil would be temporarily stockpiled within the ROW, typically near the construction mat. A rock base, which allows drainage, would be layered on top of filter fabric, if the current subsurface conditions would not support construction equipment. Additional layers of rock with dirt/rock fines are typically placed over this rock base.

Access roads and work pads located in upland areas would be left in place to facilitate transmission line maintenance, unless the underlying property owners

request that the roads be removed. Access roads and work pads located within improved areas would typically be removed and the area restored, unless the property owner requests that they remain in place. No new permanent access roads or work pads are proposed in water resource areas.

#### Foundation Installations

Excavation (augering) for installation of drilled shaft foundations would use mechanical excavators, drill rigs and pneumatic hammers. Concrete trucks would be utilized to bring concrete to the work sites. Dump trucks would be used to remove excess material and bring in backfill, as needed. In wet conditions or if groundwater is encountered during excavation, pumping (vacuum) trucks or other suitable equipment would be used to pump water from the excavated areas. The water then would be discharged in accordance with applicable permit requirements.

#### Erect/Assemble New Structures

Structure sections and associated hardware would be delivered using trucks and/or tractor trailers and would be stored at the staging areas until moved to individual work/structure sites. The sections would be assembled and installed with a crane. Insulators and connecting hardware would be installed on most structures at this time.

#### Install Conductors and Shield Wires

Installation of overhead line conductors and OPGW, would require the use of special pulling and tensioning equipment. This equipment would be positioned at pre-determined pulling locations at the work pads. Helicopters may be used for conductor and shield wire pulling activities.

#### Restoration

Restoration activities would include the removal of construction debris and all construction equipment and materials, including signs and flagging, as well as

the removal of temporary access roads and work pads and all construction matting. Areas affected by construction would be re-graded as practical and permanently stabilized using re-vegetation or other measures before removing temporary E&S controls.

#### Waste Management

After removal, the existing structures, conductor and associated equipment, the 115-kV electrical accessories and decommissioned structure components (i.e., steel from the existing structure arms, conductor, associated hardware, concrete, etc.) and any other construction debris would be disposed of in accordance with Eversource's BMPs, applicable regulations and disposal facility policies and/or would be recycled consistent with applicable governmental rules and regulations.

#### Noise

During construction, any impacts to existing noise levels would be short-term and localized in the vicinity of the work sites.

#### Construction Schedule and Work Hours

Construction of the Project is scheduled to commence in the summer of 2016. Project completion, including restoration, is expected by December 2017. Multiple crews may work concurrently on different sections of the Project within the ROW. Normal work hours would be Monday through Saturday from 7:00 AM to 7:00 PM. Sunday work hours may be required under certain conditions, for example, Eversource may need to coordinate hours with the Metro-North railroad to avoid impacts to commuters at the Wilton train station and with the municipality to minimize impacts to businesses. Eversource will coordinate with the Town of Wilton and abutting property owners when Sunday work is required or overnight work hours are recommended.



## 6. Electric and Magnetic Fields

Eversource prepared calculations of the existing and post-Project Electric and Magnetic fields (“EMF”). The calculations were based on average annual loading conditions, because these are most representative of typical conditions. The calculations are made relative to the centerline of the proposed, modified transmission lines. The calculations apply at one meter (3.28 feet) above grade, and assume that the lowest conductor for each 115-kV circuit is 30 feet above grade.

Eversource’s proposed design for the Project employs a double-circuit vertical configuration of six phase conductors (three phases per circuit) supported on tubular steel poles. Eversource will incorporate optimized circuit phasing (a “no-cost” measure) to minimize magnetic fields at the eastern ROW edge (i.e., away from the railroad tracks). Magnetic field levels, however, are expected to increase slightly on the west edge of the ROW during annual average loading conditions, when compared to the current transmission line configuration. The magnetic field levels on the east edge of the ROW will see a slight reduction.

Electric fields levels are projected to increase slightly at the west edge of the ROW compared to the existing configuration. Electric fields at and beyond the east edge of the ROW would remain essentially unchanged.

Table 1 below summarizes the calculated electric and magnetic fields at the ROW edges before and after the proposed Project modifications.

**Table 1 - Summary of Calculated Electric and Magnetic Fields**

Summary of Fields		1682 ROW EMF Calculations		
		East Edge	Max	West Edge
MF (mG)	Pre	6.8	17.4	10.7
	Post	5.0	15.6	12.1
EF (kV/m)	Pre	0.45	1.16	0.20
	Post	0.30	1.34	0.38

The results of the calculations show that the proposed modifications would not substantially increase electric or magnetic fields at the edge of the corridor, and would decrease the field

strength in at the east edge of the ROW and beyond, as compared to current conditions. See Attachment C: EMF Graphs.

Comparison of Calculated Fields to International Guidelines

The anticipated fields from the proposed transmission lines are well below the internationally established exposure limits for 60-Hz electric and magnetic fields. Specifically, the limits identified by the International Council on Electromagnetic Safety (“ICES”) and the International Council on Non-Ionizing Radiation Protection (“ICNIRP”). These guidelines are summarized below in Table 2.

**Table 2 - International Guidelines for EMF Exposure**

	<u>EF (kV/m)</u>	<u>MF(mG)</u>
ICES	5	9,040
ICNIRP	4.2	2000

**7. Municipal and Property Owner Outreach**

In February 2016, Eversource consulted with the municipal officials in the Town of Wilton to brief them on the proposed Project. During those meetings, the officials were informed of Eversource performing outreach to property owners in advance of this Petition filing. Eversource also provided representatives of the Town of Wilton with written notice of the Petition filing.

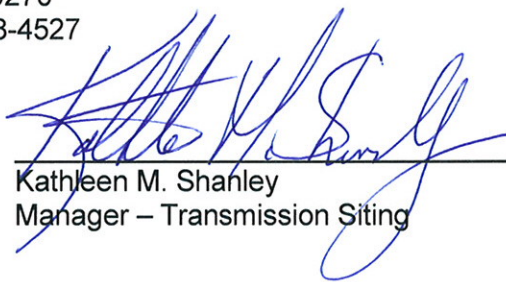
In mid-February 2016, Eversource initiated outreach to property owners located along the route. During each meeting with these property owners, Eversource explained the scope of the proposed work including the amount of vegetation removal, the location of the new transmission structures, location of access roads, and work pads, if applicable, the anticipated construction schedule, and, in some instances, the need to temporarily relocate or remove a shed or fence for construction access. In meetings held to-date, most property owners were understanding of the Project and appreciative of Eversource’s efforts to proactively communicate the scope of work. Meetings with property owners will continue throughout siting, construction and restoration.

8. Section 16-50k(a) of the Connecticut General Statutes provides that a Certificate of Environmental Compatibility and Public Need is needed for proposed modifications of a facility that the Council determines would have a "substantial adverse environmental effect." Eversource respectfully submits that the proposed modifications would not result in a substantial adverse effect on the environment or ecology, nor would they result in negative impacts to existing scenic, historic, or recreational values. Accordingly, Eversource requests that the Council issue a declaratory ruling that the proposed modifications that are the subject of this Petition would have no substantial adverse environmental effect and, therefore, no Certificate is required.

9. Communications regarding this Petition for a Declaratory Ruling should be directed to:

Kathleen M. Shanley  
Manager – Transmission Siting  
Eversource Energy  
PO Box 270  
Hartford, CT 06141-0270  
Telephone: (860) 728-4527

By:



Kathleen M. Shanley  
Manager – Transmission Siting

Attachments:

Attachment A: 1682 Line Upgrade Project

Attachment B: Right-of-Way Cross Section

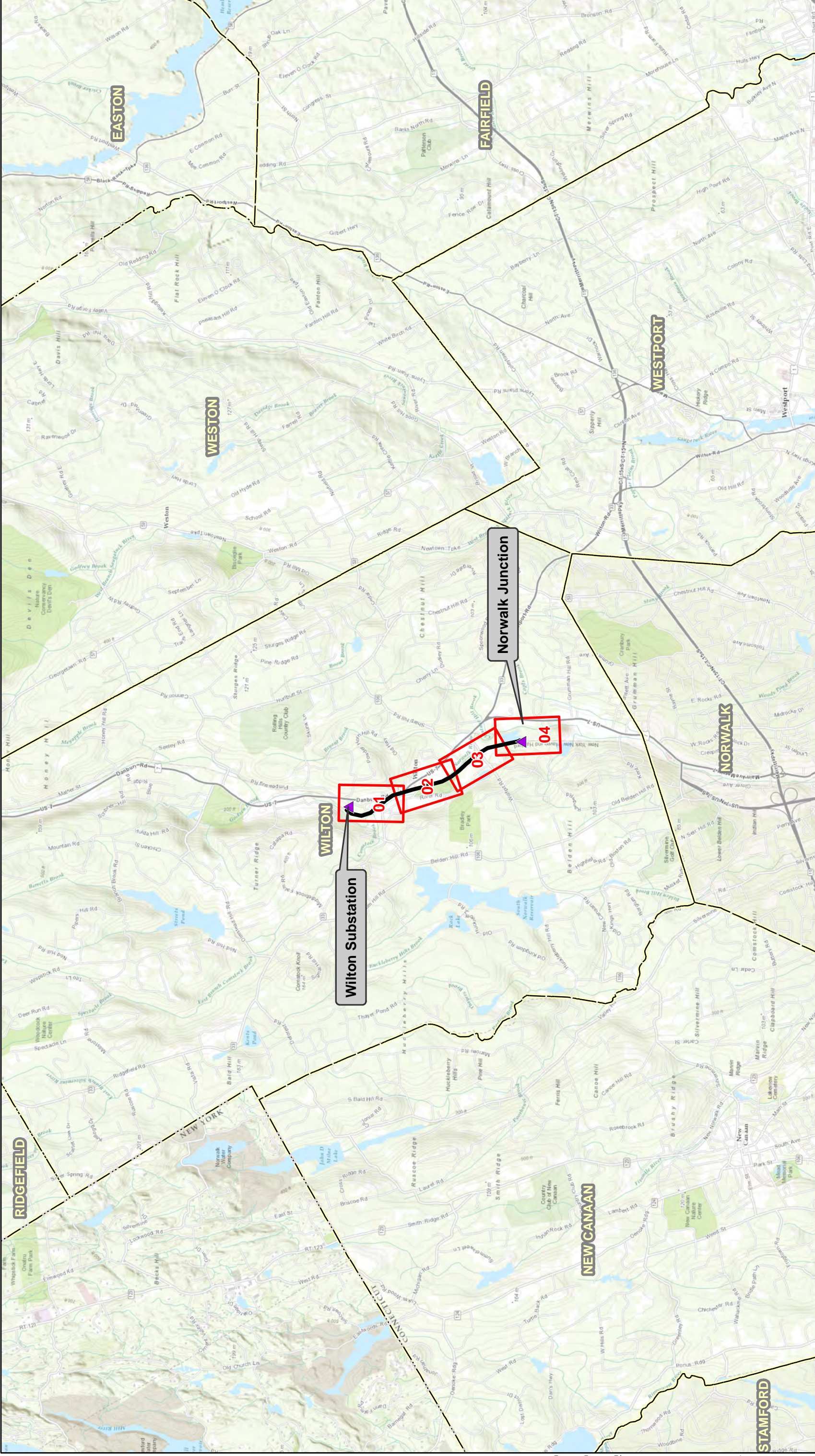
Attachment C: EMF Graphs

Attachment D: Letter to the Abutters and Affidavit



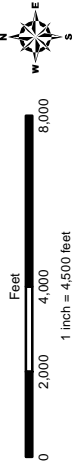
# ATTACHMENT A





Index Map  
1682 Line Upgrade Project

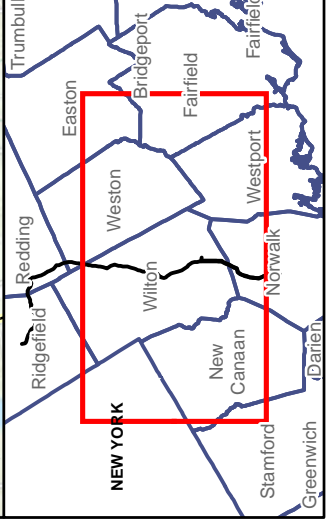
Wilton  
Connecticut



**Wilton Substation**

**Norwalk Junction**

- Legend**
- Substation or Junction
  - Line 1682
  - Mapsheet
  - Municipal Boundary



**SHEET 1**

**Area Description**

*Adjacent Land Use*

- Wilton Substation
- Metro North Railroad - Wilton Station
- Commercial
- Norwalk River
- Municipal Private Open Space/Protected Open Space (Lovers Lane Open Space)
- Municipal Private Open Space/Protected Open Space (Merwin Meadows Park)
- Norwalk River Valley Trail: Wilton Loop

*Road Crossings*

- Ridgfield Road

**Right-of-Way Description**

*Right-of-Way Land Use*

- Maintained transmission and railroad corridor
- Commercial

*Wetlands, Watercourses, and Waterbodies*

- Wetlands – W25, W25A
- Wetland Cover Type – PEM, POW

*Wetland and Watercourse Crossings*

- W25- Construction mats for access road, work pads and pull pads

*Vegetation on Transmission Corridor*

- Scrub-shrub
- Maintained lawn

*Access*

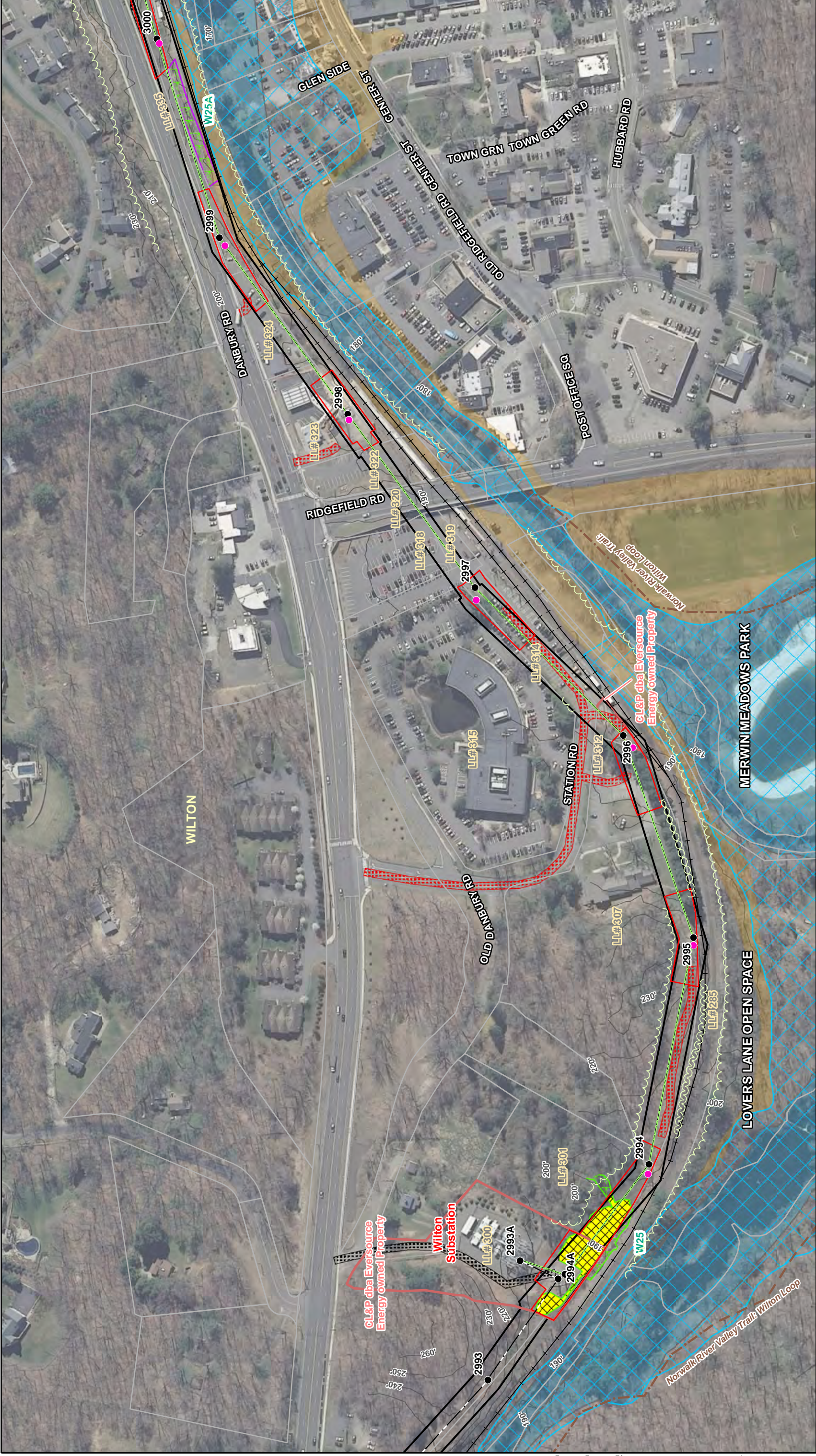
- STR 2994A, 2994 and 2995: From Wilton Substation
- STR 2996, 2997: Access from Danbury Road via Station Road
- Existing STR 2998 and 2999: Proposed access from Danbury Road

*Right-of-Way Width*

- Between Wilton Substation and STR 2997: ROW has no defined width
- Between STR 2997 and STR 2998: ROW width is ±40 feet
- Between STR 2998 and STR 3000: ROW has no defined width

Line List Number	Owner Name (Now or Formerly)
LL# 300	THE CONNECTICUT LIGHT & POWER COMPANY
LL# 301	TOWN OF WILTON
LL# 307	TOWN OF WILTON
LL# 312	THE CONNECTICUT LIGHT & POWER COMPANY
LL# 314	STATION ROAD
LL# 315	CD STATION LLC MARCUS PARTNERS ACCT DEPT
LL# 318	STATE OF CONNECTICUT DEPARTMENT OF
LL# 319	STATE OF CONNECTICUT
LL# 320	RIDGEFIELD ROAD
LL# 322	RIDGEFIELD ROAD
LL# 323	TRIPLE D PROPERTIES LLC C/O STANDARD PETROLEUM
LL# 324	TRIPLE D PROPERTIES LLC C/O DIAMOND DELI
LL# 335	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION



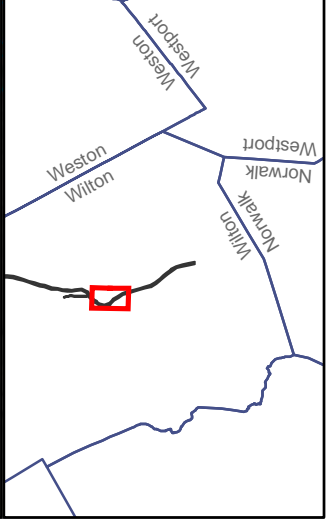


**Notes:**

1. Imagery based on 2012 Statewide Leaf-Off Orthophotography.
2. The information/data provided in this map is for planning purposes only. It is not intended to be used for regulatory interpretation or parcel level analysis. The map should not be used for construction purposes.
3. Approximate Limit of Vegetation Management has a 30 ft Area within Moderate to High Archaeological Sensitive Areas between STR 3005 to STR 3006 and from Weipat Road to STR 3011 (south) are within Moderate to High Archaeological Sensitive Areas.
4. Areas between STR 3005 to STR 3006 and from Weipat Road to STR 3011 (south) are within Moderate to High Archaeological Sensitive Areas.
5. Presumed width is 30 feet from the transmission centerline where ROW width is undetermined.

**Legend**

- Existing Structure Location
- Proposed Structure Location
- Gate
- 1470 Transmission Centerline
- 1682 Transmission Centerline
- Approximate CL&P dba Eversource Energy Owned Property
- Eversource ROW/Existing Edge of Vegetation Management
- Fence
- Trail
- Railroad
- Slate ROW
- Watercourse
- Ordinary High Water
- Approximate Tree Line
- Wetland Boundary
- Wetland (Delineation 2015)
- Approx. Wetland (Not Field Delineated)
- Work Pad
- Municipal Boundary
- Wetland/Watercourse Spanning
- Proposed Temporary Construction Mats
- Temporary Wetland Impacts
- FEMA Floodway
- 100 Year Floodplain
- 500 Year Floodplain
- Approximate Parcel Boundary
- Alternative Off ROW Access
- Existing Access
- Existing Off ROW Access
- Proposed/Preferred Access



**SHEET 2**

**Area Description**

*Adjacent Land Use*

- Norwalk River
- Commercial
- Metro North Railroad- Danbury Branch
- Danbury Road (Route 7)
- Our Lady of Fatima School
- Municipal Private Open Space/ Protected Open Space (Old Ridgfield Road Open Space)
- Schencks Island Park
- Norwalk River Valley Trail: Wilton Loop

*Road Crossings*

- None

**Right-of-Way Description**

*Right-of-Way Land Use*

- Maintained transmission corridor
- Metro North Railroad- Danbury Branch
- Commercial
- Norwalk River Crossing
- FEMA Floodway & 100 year Flood Zone

*Wetlands, Watercourses, and Waterbodies*

- Wetlands – W25A, W26, W26A, W27
- Wetland Cover Type – PEM, PSS, POW
- Watercourses – Norwalk River (W27)

*Wetland and Watercourse Crossings*

- W26, W26A, W27- Construction mats for access road and work pads
- Norwalk River (W27) will be spanned using appropriate stream crossing BMP

*Vegetation on Transmission Corridor*

- Scrub-shrub
- Maintained lawn

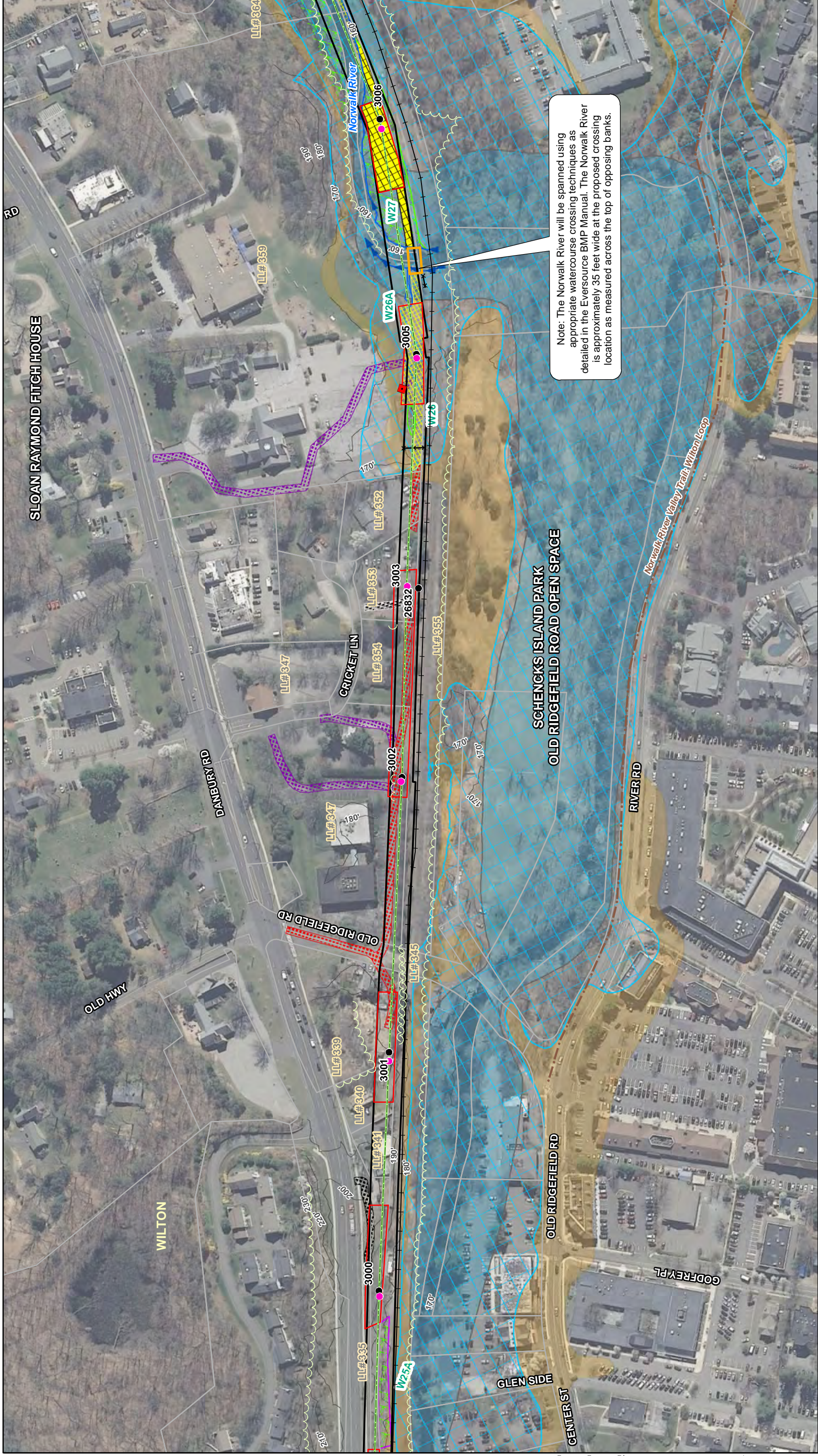
*Access*

- STR 3000: Existing access of Danbury Road
- STR 3001, 3003, 3005 and 3006: Proposed access of Danbury Road via Old Ridgfield Road (paper road)

*Right-of-Way Width*

- Between STR 3000 and STR 3006: ROW has no defined width

Line List Number	Owner Name (Now or Formerly)
LL# 335	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
LL# 339	TBS PARTNERS LLC
LL# 340	SAM H SADEGI
LL# 341	SAM H & PARISA N SADEGI
LL# 345	OLD RIDGFIELD ROAD
LL# 347	241 DANBURY ROAD ASSOCIATES
LL# 352	FIRST WHITE BIRCH REALTY LLC C/O CHESTNUT ELECTRIC CORP
LL# 359	OUR LADY OF FATIMA ROMAN CATHOLIC CHURCH CORP
LL# 364	MARY E GUGGEIS

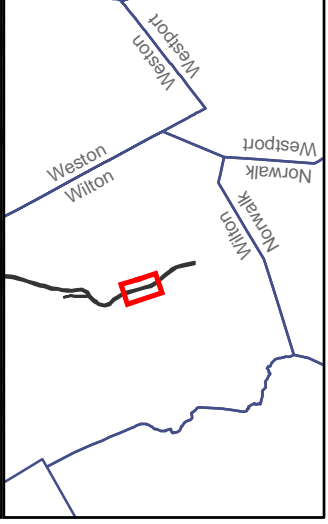


Note: The Norwalk River will be spanned using appropriate watercourse crossing techniques as detailed in the Eversource BMP Manual. The Norwalk River is approximately 35 feet wide at the proposed crossing location as measured across the top of opposing banks.

Notes:

- Imagery based on 2012 Statewide Leaf-Off Orthophotography.
- The information/data provided in this map is for planning purposes only. It is not intended to be used for regulatory interpretation or parcel level analysis. The map should not be used for construction purposes.
- Approximate Limit of Vegetation Management has a 30 ft Area between STR 3005 to STR 3006 and from Wilpat Road to STR 3011 (south) are within Moderate to High Archaeological Sensitive Wetland Soils.
- Presumed width is 30 feet from the transmission centerline where ROW width is undetermined.

- Legend**
- Existing Structure Location
  - Proposed Structure Location
  - Gate
  - 1470 Transmission Centerline
  - 1682 Transmission Centerline
  - Approximate CL&P dba Eversource Energy Owned Property
  - Eversource ROW/Existing Edge of Vegetation Management
  - Fence
  - Trail
  - Railroad
  - Slate ROW
  - Watercourse
  - Ordinary High Water
  - Approximate Tree Line
  - Wetland Boundary
  - Wetland (Delineation 2015)
  - Approx. Wetland (Not Field Delineated)
  - Work Pad
  - Municipal Boundary
  - Wetland/Watercourse Spanning
  - Proposed Temporary Construction Mats
  - Temporary Wetland Impacts
  - FEMA Floodway
  - 100 Year Floodplain
  - 500 Year Floodplain
  - Approximate Parcel Boundary
  - Alternative Off ROW Access
  - Existing Access
  - Existing Off ROW Access
  - Proposed/Preferred Access



**SHEET 3**

**Area Description**

*Adjacent Land Use*

- Norwalk River
- Metro-North Railroad- Danbury Branch
- Residential
- Undeveloped Forest Land
- Open Water

*Road Crossings*

- Wolfpit Road

**Right-of-Way Description**

*Right-of-Way Land Use*

- Maintained transmission corridor
- Other utility crossings (Distribution Line, Water Main and Fiber Optic Cable)
- Metro North Railroad
- Norwalk River
- FEMA floodway and 100 year Flood zone

*Wetlands, Watercourses, and Waterbodies*

- Wetlands – W27, W28, W29, W30
- Wetland Cover Type – PSS, POW
- Watercourses: Norwalk River (perennial), W28 (intermittent)

*Wetland and Watercourse Crossings*

- W27, W28 and W29- Construction mats for access road and work pads
- W28- Unnamed intermittent watercourse will be spanned using appropriate stream crossing BMP

*Vegetation on Transmission Corridor*

- Scrub-shrub

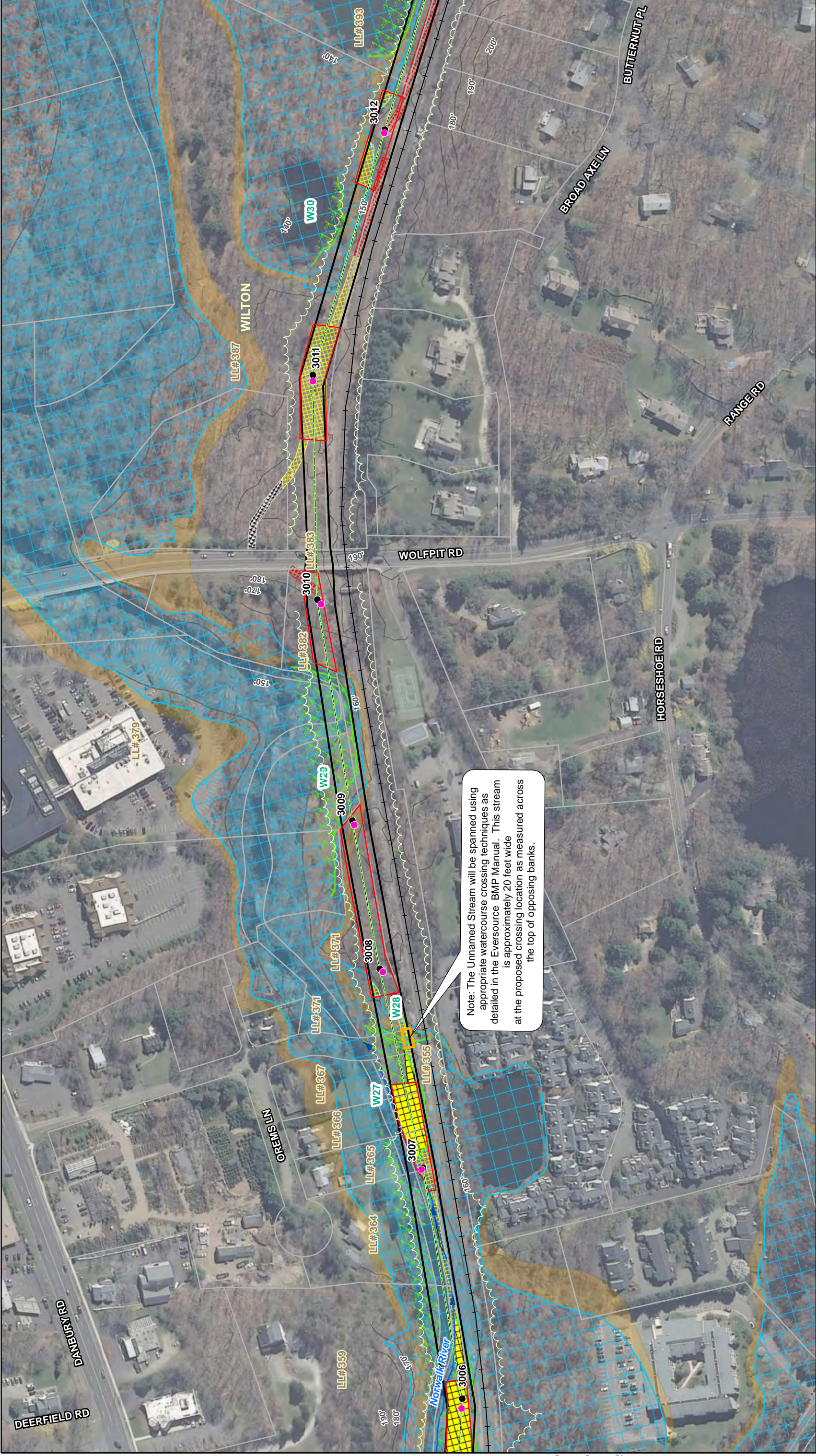
*Access*

- STR 3006, 3007, 3008, and 3009- Proposed access of Danbury Road via Old Ridgefield Road (paper road).
- STR 3010- Access off Wolfpit Road

*Right-of-Way Width*

- Between STR 3006 and 3007: ROW has no defined width
- Between STR 3007 and STR 3009: ROW width is ± 60 feet
- Between STR 3009 and Wolfpit Road: ROW has no defined width

Line List Number	Owner Name (Now or Formerly)
LL# 359	OUR LADY OF FATIMA ROMAN CATHOLIC CHURCH CORP
LL# 364	MARY E GUGGEIS
LL# 365	ALFRED G & ANNA M W LORD
LL# 366	KEVIN M & JANET G MURPHY
LL# 367	LAKE HOME BUILDERS LLC
LL# 371	WILTON CREST CONDO ASSOCIATION
LL# 379	DIV DANBURY 187 LLC & DIV LINDEN 187 LLC C/O THE DAVIS COMPANIES
LL# 382	STATE OF CONNECTICUT
LL# 383	TOWN OF WILTON
LL# 387	STATE OF CONNECTICUT
LL# 393	STATE OF CONNECTICUT



Note: The Unnamed Stream will be spanned using appropriate watercourse crossing techniques as detailed in the Eversource BMP Manual. This stream is approximately 20 feet wide at the proposed crossing location as measured across the top of opposing banks.

**Legend**

- Existing Structure Location
- Proposed Structure Location
- Gate
- 1470 Transmission Centerline
- 1682 Transmission Centerline
- Approximate CL&P dba Eversource Energy Owned Property
- Eversource ROW/Existing Edge of Vegetation Management

**Legend**

- Fence
- Trail
- 10 ft Contour
- Railroad
- Slate ROW
- Watercourse
- Ordinary High Water
- Approximate Tree Line

**Legend**

- Wetland Boundary
- Wetland (Delineation 2015)
- Approx. Wetland (Not Field Delineated)
- Work Pad
- Municipal Boundary
- Wetland/Watercourse Spanning
- Proposed Temporary Construction Mats
- Temporary Wetland Impacts

**Legend**

- FEMA Floodway
- 100 Year Floodplain
- 500 Year Floodplain
- Approximate Parcel Boundary
- Alternative Off ROW Access
- Existing Access
- Existing Off ROW Access
- Proposed/Preferred Access

**Notes:**

1. Imagery based on 2012 Statewide Leaf-Off Orthophotography.
2. The information/data provided in this map is for planning purposes only. It is not intended to be used for regulatory interpretation or parcel level analysis. The map should not be used for construction purposes.
3. Approximate Limit of Vegetation Management has a 30 ft buffer from the transmission centerline.
4. Areas between STR 3005 to STR 3006 and from Wolfpit Road to STR 3011 (south) are within Moderate to High Archaeological Sensitive Areas.
5. Presumed 25A delineation based on CT DEEP Inland Wetland Soils.
6. Presumed width is 30 feet from the transmission centerline where ROW width is undetermined.

**1682 Line Upgrade Project**

Wilton, CT

March 2016

1 inch = 200 feet

**EVERSOURCE ENERGY**

**Tighe & Bond**

Sheet 3 of 4

**SHEET 4**

**Area Description**

*Adjacent Land Use*

- Undeveloped, forestland
- Metro-North Railroad- Danbury Branch
- Open Water
- Norwalk River
- Norwalk Junction

*Road Crossings*

- None

**Right-of-Way Description**

*Right-of-Way Land Use*

- Maintained transmission and railroad corridor
- Open water
- Metro-North Railroad- Danbury Branch
- Norwalk River
- FEMA Floodway and 100 year Flood Zone

*Wetlands, Watercourses, and Waterbodies*

- Wetlands – W31, W32, W33, W34
- Wetland Cover Type – POW, PEM, PSS
- Watercourses – Norwalk River (perennial)

*Wetland and Watercourse Crossings*

- None required

*Vegetation on Transmission Corridor*

- Scrub-shrub

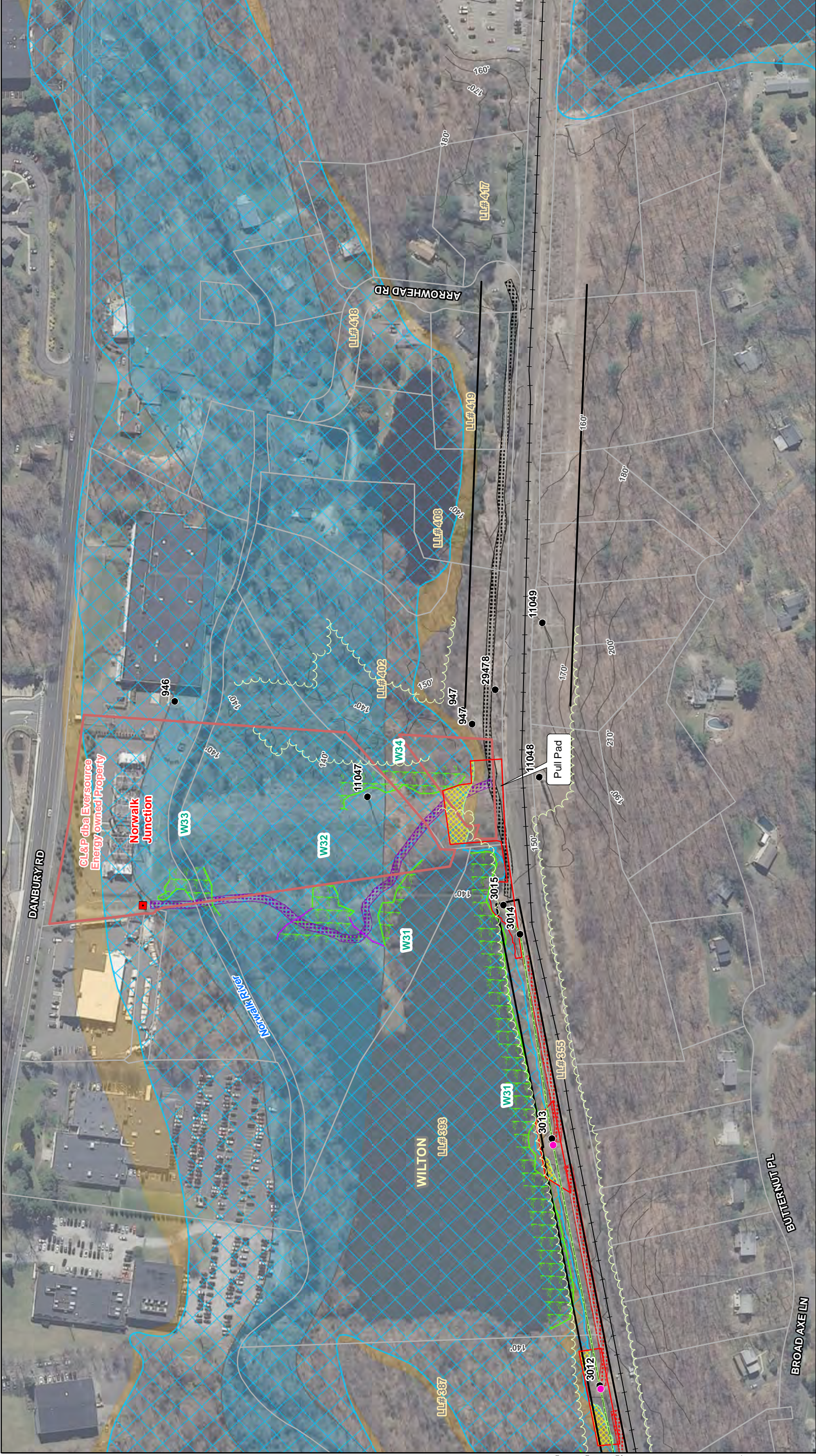
*Access*

- STR 3011, 3012, 3013, 3014, 3015: Existing access off Arrowhead Road

*Right-of-Way Width*

- Between STR 3015 and 3015: ROW has no defined width

<b>Line List Number</b>	<b>Owner Name (Now or Formerly)</b>
LL# 387	STATE OF CONNECTICUT
LL# 393	STATE OF CONNECTICUT
LL# 402	STATE OF CONNECTICUT
LL# 408	ARROWHEAD COMMUNITY ASSOCIATION & SUSAN BARNETT
LL# 417	ROCKY A DELFINO
LL# 418	ARROWHEAD ROAD
LL# 419	PAMELA J MUSOR



**Legend**

- Existing Structure Location
- Proposed Structure Location
- Gate
- 1470 Transmission Centerline
- 1682 Transmission Centerline
- Approximate CL&P dba Eversource Energy Owned Property
- Eversource ROW/Existing Edge of Vegetation Management
- Fence
- Trail
- 10 ft Contour
- Railroad
- Slate ROW
- Watercourse
- Ordinary High Water
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- 100 Year Floodplain
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- Existing Access
- Existing Off ROW Access
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**Notes:**

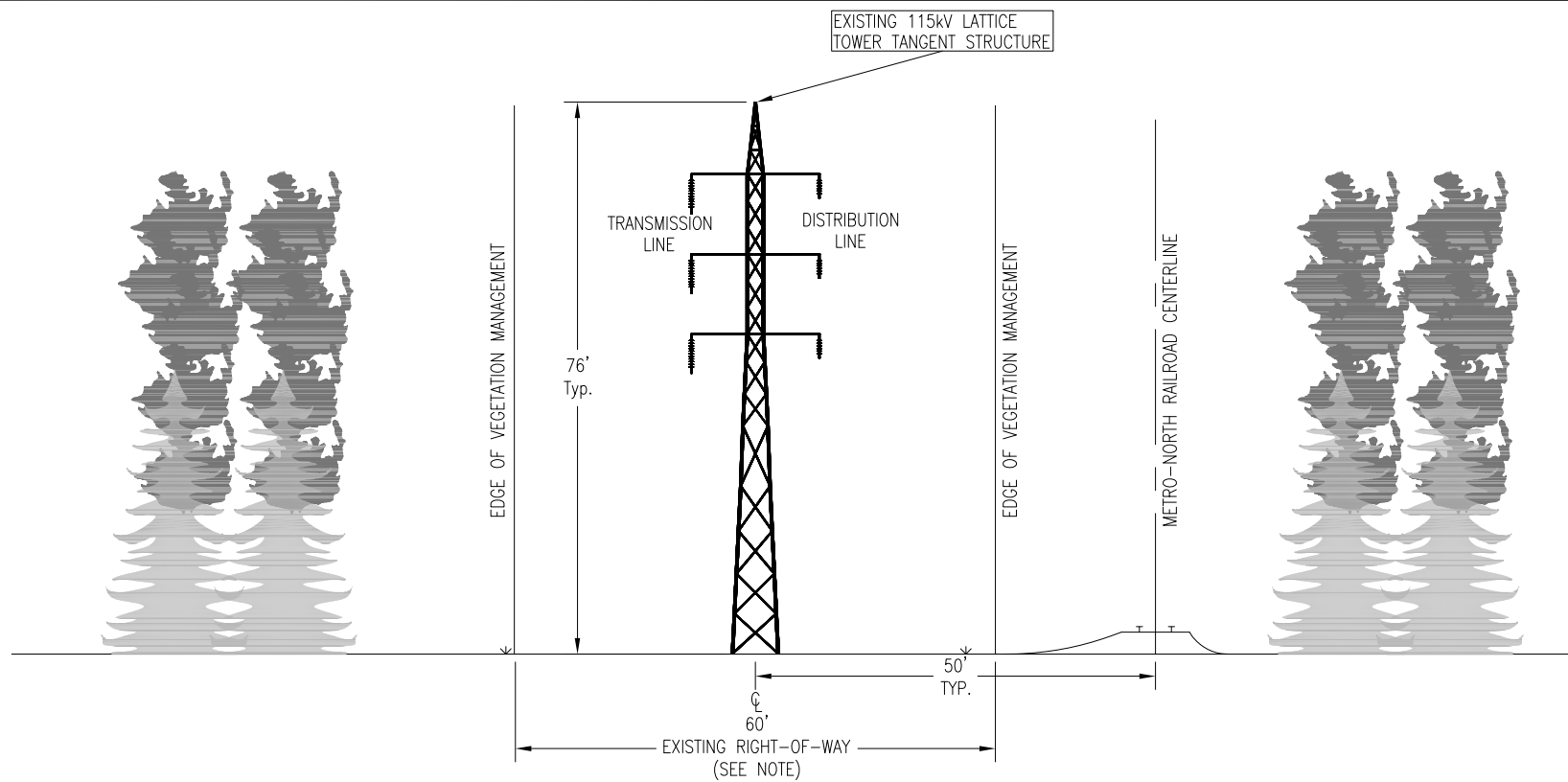
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- Areas between STR 3005 to STR 3006 and from Wilpat Road to STR 3011 (south) are within Moderate to High Archaeological Sensitive Area. Wetland 25A delineation based on CT DEEP Inland Wetland Soils.
- Presumed width is 30 feet from the transmission centerline where ROW width is undetermined.



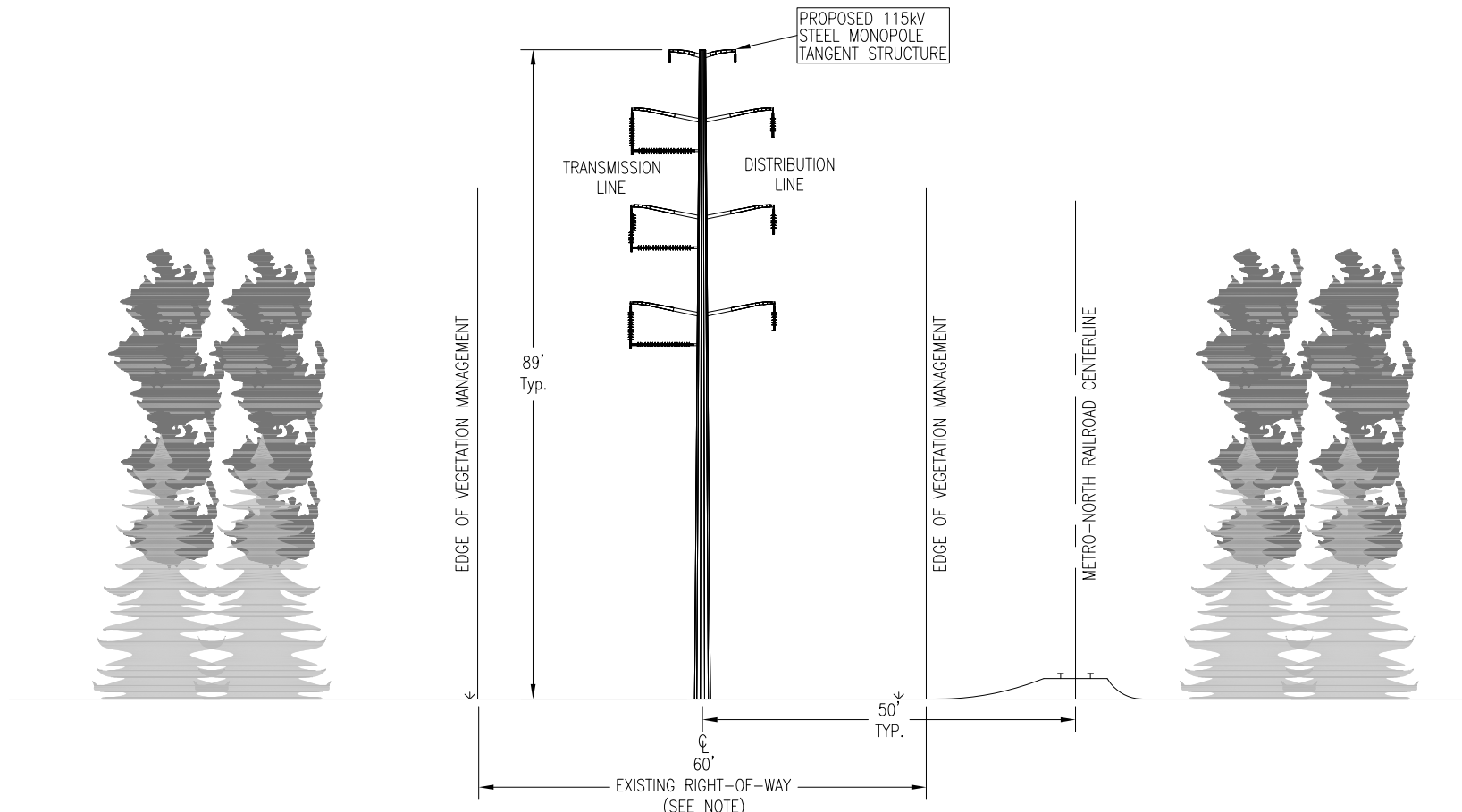


# ATTACHMENT B





EXISTING TYPICAL LATTICE TOWER TANGENT STRUCTURE  
LOOKING SOUTH FROM WILTON S/S TOWARD NORWALK JUNCTION



PROPOSED TYPICAL STEEL SUSPENSION MONOPOLE  
LOOKING SOUTH FROM WILTON S/S TOWARD NORWALK JUNCTION

NOTES:  
THE 1682 LINE CORRIDOR VARIES IN WIDTH FROM 40' TO 100'.

REVISIONS DURING CONSTRUCTION					
RDC#	RDCDATE	TITLE	WO	RDCBY	RDCAPP#

## EVERSOURCE ENERGY

**1682 115kV LINE**  
1682 LINE UPGRADE PROJECT  
RIGHT-OF-WAY CROSS SECTION  
WILTON, CONNECTICUT

BY	JCT	CHKD	AMB	APP	MJT	APP	AJD

H-SCALE	DATE	SIZE	FIELD BOOK #	PAGES

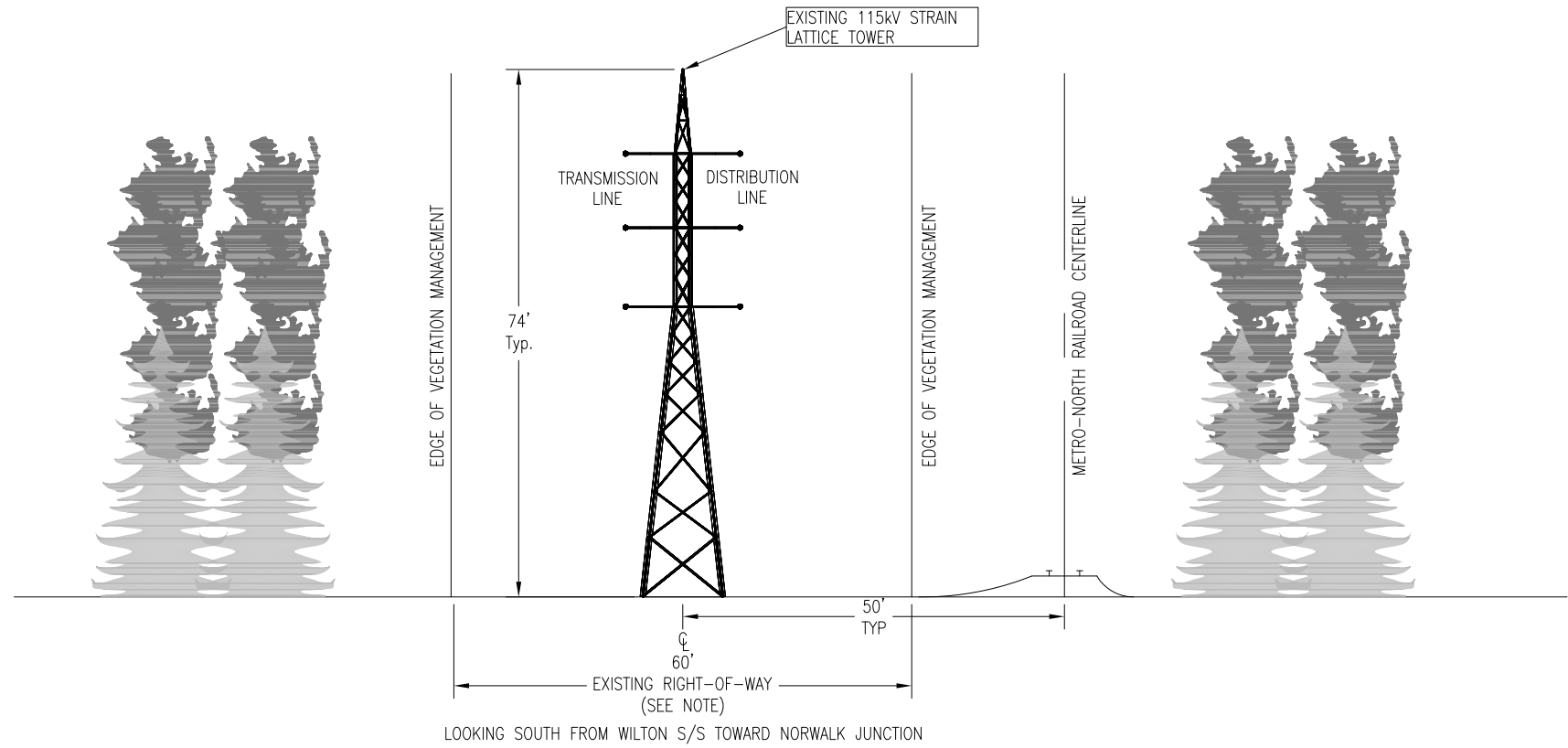
V-SCALE	DATE	SIZE	FIELD BOOK #	PAGES

R.E. PROJ. NUMBER	DWG. NO.

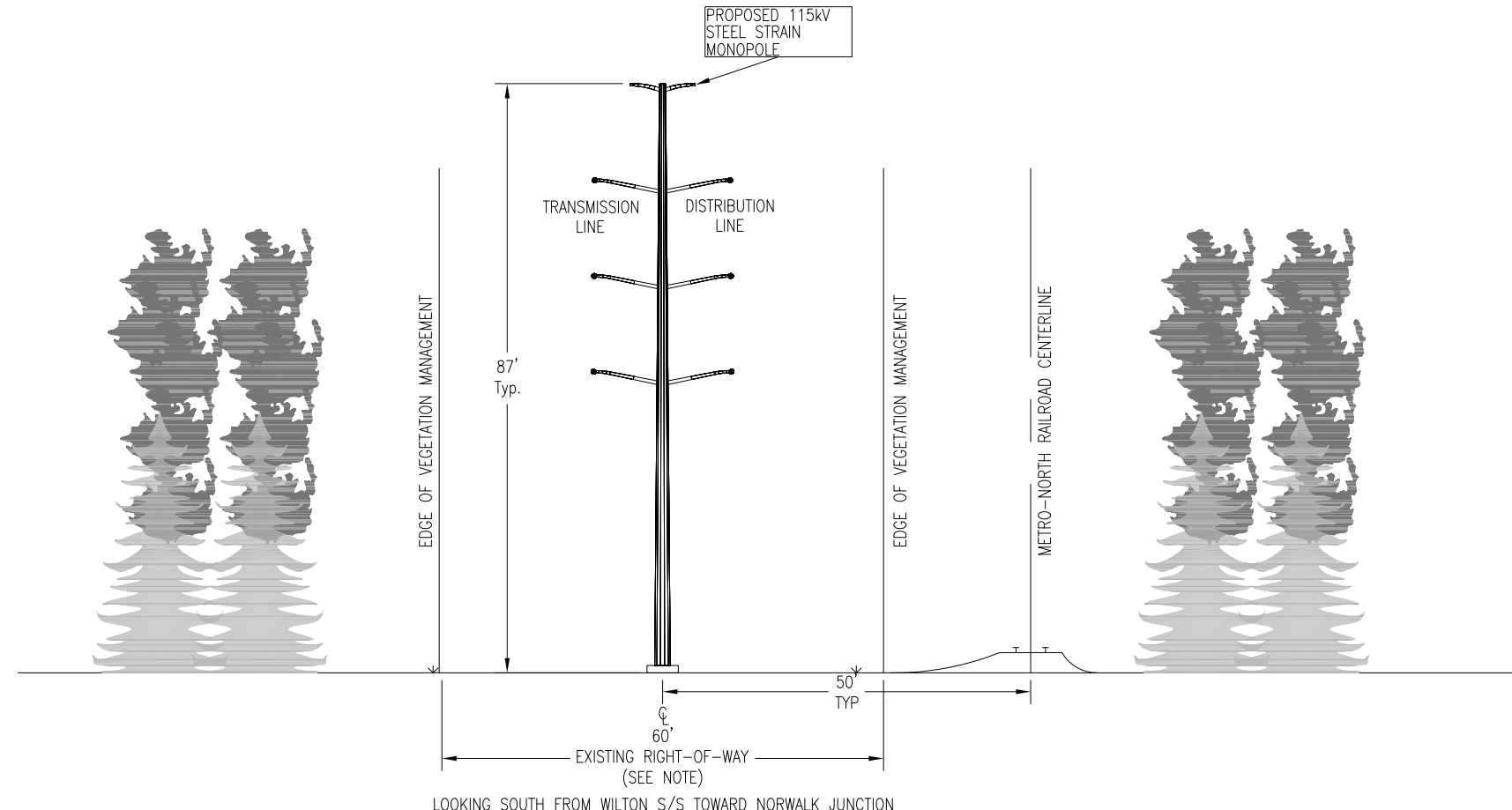
NO.	DATE	AS BUILT	REVISIONS	BY	CHK	APP	APP

SITING-SK-1





EXISTING TYPICAL STRAIN LATTICE TOWER



PROPOSED TYPICAL STEEL STRAIN MONOPOLE

NOTES:  
THE 1682 LINE CORRIDOR VARIES IN WIDTH FROM 40'  
TO 100'.

REVISIONS DURING CONSTRUCTION					
RDC#	RDCDATE	TITLE	WO	RDCBY	RDCAPP#

<b>EVERSOURCE ENERGY</b>					
TITLE <b>1682 115KV LINE</b> 1682 LINE UPGRADE PROJECT RIGHT-OF-WAY CROSS SECTION WILTON, CONNECTICUT					
BY	JCT	CHKD	AMB	APP	MJT
DATE	3/16/16	DATE	3/16/16	DATE	3/16/16
H-SCALE	N.T.S.	SIZE	B	FIELD BOOK #	PAGES
V-SCALE	N.T.S.	V.S.		R.E. DWG	
R.E. PROJ. NUMBER		DWG NO.			

NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP

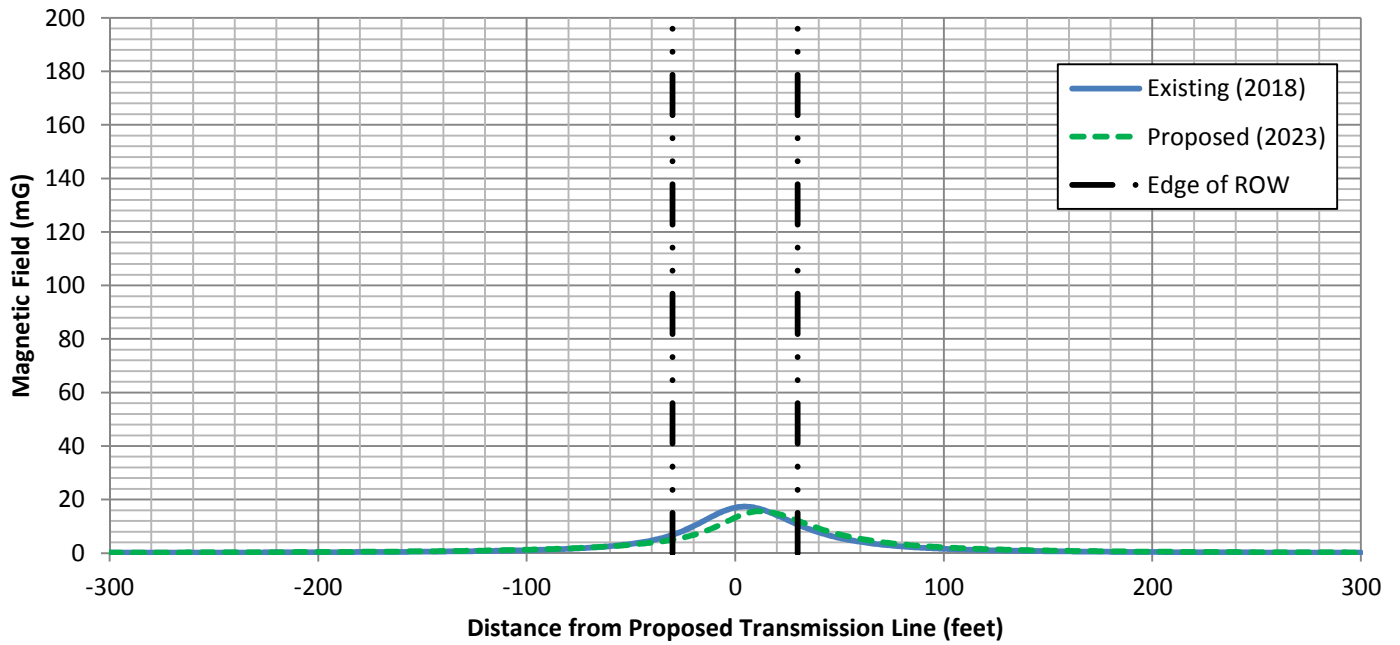


# ATTACHMENT C

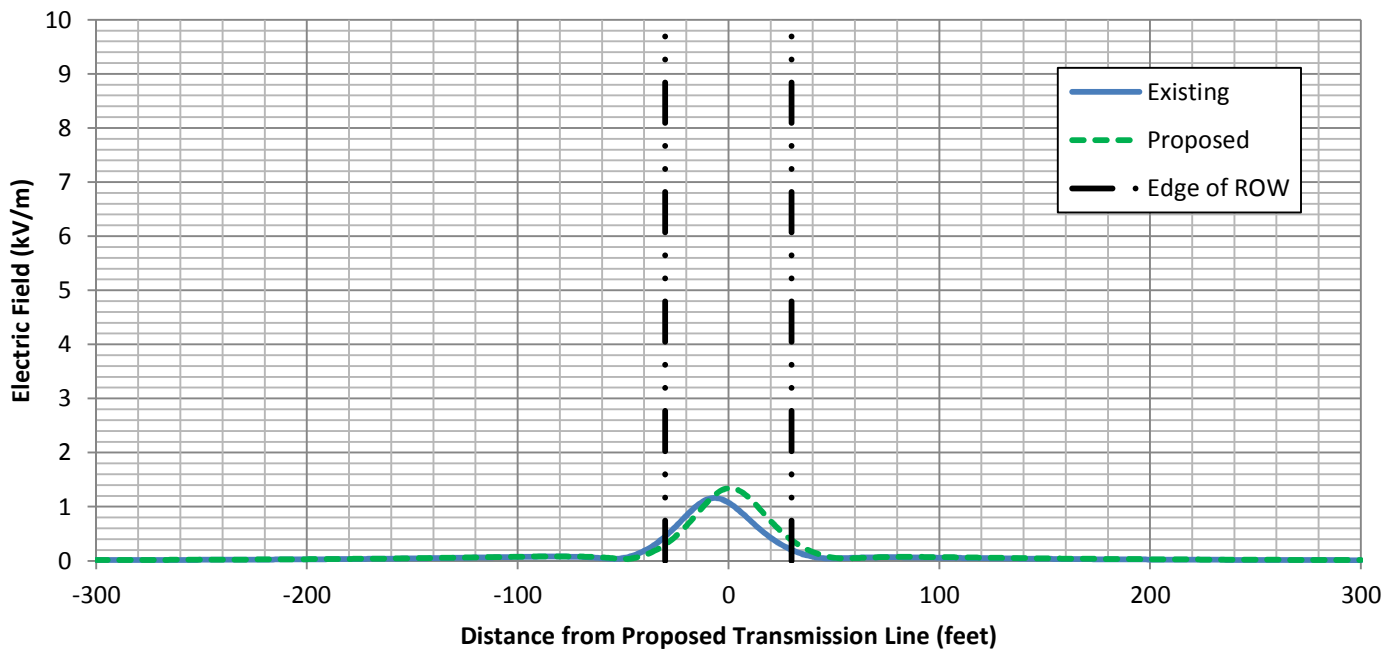




### Calculated Magnetic Fields Wilton Substation to Norwalk Jct (Average Annual Loads)



### Calculated Electric Fields Wilton Substation to Norwalk Jct





# ATTACHMENT D



April 1, 2016

Dear Neighbor,

As part of its ongoing commitment to deliver reliable energy and superior service to its customers, Eversource Energy (“Eversource”) is submitting a petition to the Connecticut Siting Council (“CSC”) for a proposed transmission line upgrade in your area.

The upgrade, called the 1682 Line Upgrade Project (“Project”), is designed to bring the electric supply system serving the towns in southwestern Connecticut into compliance with current national and regional reliability standards. These standards were developed by federal and regional regulators following a review of electric grid vulnerabilities and storm-related power outages. The Project will also provide greater ability for power to move more freely to meet customer demand throughout the area.

The proposed Project includes replacing existing transmission structures and installing a new, higher capacity 115-kV line along approximately two miles of existing Eversource right-of-way from Norwalk Junction off of Danbury Road in Wilton, north to the Wilton Substation located on Old Danbury Road in Wilton.

Pending CSC approval, this upgrade work is expected to begin in summer 2016. Completion of the proposed Project and restoration of any affected areas is anticipated by the end of 2017.

For more information about this Project, please call the Eversource Transmission Information Line at 1-800-793-2202, or send an email to [TransmissionInfo@eversource.com](mailto:TransmissionInfo@eversource.com).

If you would like to send comments regarding Eversource’s petition to the CSC, please send them via e-mail to [siting.council@ct.gov](mailto:siting.council@ct.gov) or a letter to the following address:

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

Thank you.

Sincerely,

***David L. Coleman***

David L. Coleman  
Transmission Project Management

AFFIDAVIT OF SERVICE OF NOTICE

STATE OF CONNECTICUT     )  
  ) ss. Berlin  
COUNTY OF HARTFORD     )

Sec. 16-50j-40 of the Regulations of Connecticut State Agencies ("RCSA") provides that proof of notice to the affected municipalities, property owners and abutters shall be submitted with a petition for declaratory ruling to the Connecticut Siting Council ("Council"). In accordance with that RCSA section, I hereby certify that I caused notice of proposed modifications of The Connecticut Light and Power Company doing business as Eversource Energy to be served by mail or courier upon the following municipal officials:

Municipal Official:

Lynne Vanderslice, First Selectman  
Town of Wilton  
238 Danbury Road  
Wilton, CT 06897

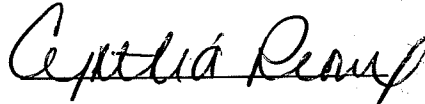
I also certify that I caused notice of the proposed modifications to be served by mail or courier upon 15 owners of abutting properties shown on the maps in Attachment A to the Petition.



David Coleman  
Project Manager

On this the 1 day of April, 2016, before me, the undersigned representative, personally appeared, David Coleman, known to me (or satisfactorily proven) to be the person whose name is subscribed to the foregoing instrument and acknowledged that he executed the same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.



Notary Public  
My Commission expires:

**CYNTHIA L. RIOUX**  
NOTARY PUBLIC  
State of Connecticut  
My Commission Expires  
June 30, 2016