

April 12, 2023

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

Re: 1637/1720 Lines Rebuild Project

Dear Ms. Bachman:

The Connecticut Light and Power Company doing business as Eversource Energy (“Eversource”) is requesting a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to two existing 115-kilovolt transmission lines, (“1637/1720 Lines Rebuild Project” or “Project”) in the City of Norwalk and the Towns of Wilton and Weston, Connecticut (“Petition”).

Prior to submitting this Petition, representatives from Eversource briefed municipal officials about the Project. Eversource provided written notice of the proposed work to all abutters and this Petition filing to Project abutters. Maps and line lists identifying the abutting property owners who were notified of the Project are provided in the Petition at Attachment B – 1637/1720 Lines Rebuild Project – Petition Map Set.

Eversource is submitting this filing electronically and will deliver an original and 15 copies, along with a check for the \$625 filing, to the Council.

Sincerely,



Deborah Denfeld

Enclosure

cc: Samantha Nestor, First Selectwoman, Town of Weston
Lynne A. Vanderslice, First Selectwoman, Town of Wilton
Honorable Harry. W. Rilling, Mayor, City of Norwalk

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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 PROPOSED MODIFICATIONS TO THE EXISTING
1637 and 1720 LINES IN THE MUNICIPALITIES OF
NORWALK, WILTON AND WESTON, CONNECTICUT

1. Introduction

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 1637 and 1720 Lines, 115-kilovolt (“kV”) transmission lines, located within existing transmission rights-of-way (“ROWS”) and on Eversource owned property in the City of Norwalk and the Towns of Wilton and Weston, Connecticut (“Municipalities”). These modifications are collectively referred to as the “1637/1720 Lines Rebuild Project” (“Project”). Eversource submits that a Certificate is not required because the proposed modifications would not have a substantial adverse environmental effect.

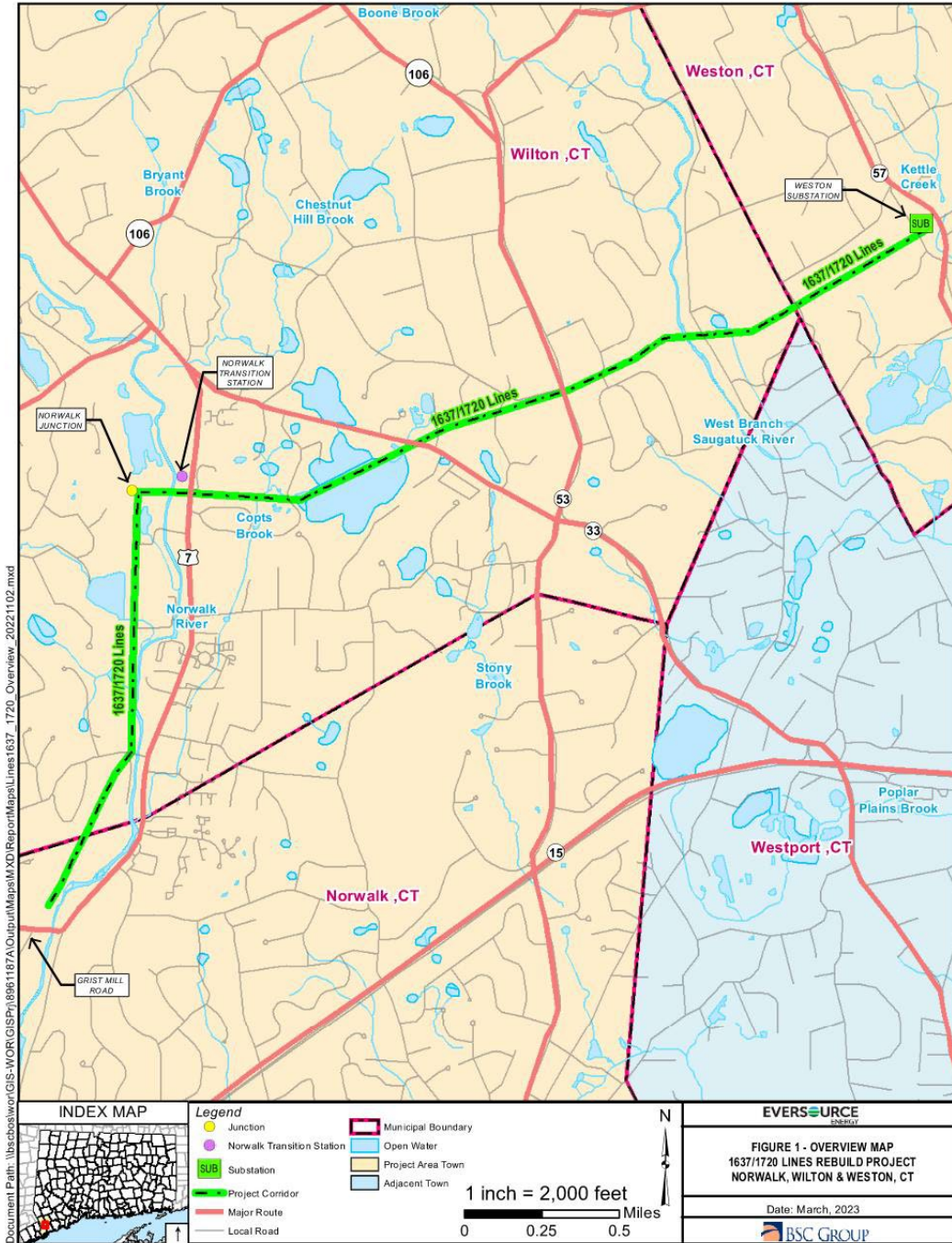
2. Purpose of the Project

The purpose of the proposed Project is to reduce the risk of age-related failures of deteriorating lattice tower structures and to replace conductor across approximately 4.0 miles of both the 1637 and 1720 115-kV transmission lines (“1637/1720 Lines”). The Project will include replacement of

34 existing structures with 40 new structures in addition to adding 3 new mid-span structures¹, extending from Grist Mill Road (Norwalk) to Norwalk Junction (Wilton), and then to Weston Substation (Weston). New optical ground wire (“OPGW”), for improved lightning protection and communication capability, is proposed for the 1637 Line south of Norwalk Junction while existing OPGW elsewhere in the Project area will be transferred to the proposed structures.

Figure 1: Project Overview Map illustrates the general location of the proposed Project.

¹ Three of the midspans are located within Eversource ROW and one is located on Eversource fee owned property.



3. Project Area Description

As shown on Attachment B, 1637/1720 Lines Rebuild Project Petition Map Set, the 1637/1720 Lines share the same structures within the 4.0-mile portion of Eversource’s ROW from Grist Mill

Road in Norwalk north to Norwalk Junction, (located adjacent to Danbury Road in Wilton) and east to Weston Substation, located at 85 Weston Road in Weston.

Within the Project area, the 1637/1720 Lines are supported on a total of 40 structures (32 double-circuit lattice towers and eight single-circuit steel monopoles). During recent inspection, some lattice towers, most of which are approximately 74 years old, displayed signs of aging and significant deterioration, as shown in the photographs in Attachment A. Structure modelling has been completed showed that other lattice structures have a significant risk of failure during extreme weather events. As a result, 32 of the double-circuit lattice structures will be replaced.

The existing conductors are approximately 50 years old and consist of 556-kcmil aluminum conductor steel reinforced (“ACSR”) conductor. The conductor also will be replaced with new 1590 kcmil Aluminum Conductor Steel Supported (“ACSS”) conductor, which is stronger and more durable than ACSR.

The Project ROW traverses residential and commercial properties, State of Connecticut Department of Transportation (“CTDOT”) railroad corridor in Norwalk and Wilton, the Norwalk River (Wilton) and the West Branch Saugatuck River (Wilton). The ROW crosses Route 7, Route 33, Route 53, and local roads. This ROW was established via original easements dated 1923, with later easements dated 1941, 1947, 1959, 1972 and 1973. No expansion of the existing ROW is proposed for the Project.

Existing ROW: Grist Mill Road to Norwalk Junction

From Grist Mill Road north to Norwalk Junction, the ROW, maintained edge to edge, varies in width from 150 to approximately 240 feet. This ROW was established in 1923 and is approximately 1.4 miles long. The ROW from north of Grist Mill Road to south of Kent Road (Wilton) includes the 3403 Line (345-kV) and the 1637/1720 Lines (115-kV) on the west side of

the railroad tracks². The 1637/1720 Lines are supported on mostly double circuit lattice tower structures but there are paired single circuit steel poles supporting spans across CTDOT's railroad corridor and Kent Road. From there, the 1637/1720 Lines continue on the east side of the railroad corridor to Norwalk Junction.

In this segment, the 1637/1720 Lines are supported on structures that were erected in approximately 1949. The conductor was installed in approximately 1973. The four existing weathering steel poles on either side of the Kent Road crossing were installed in 2021. Two of the four poles are proposed for replacement due to lack of available easement space to install appropriate additional guying required by the proposed conductor and OPGW work.

Existing ROW: Norwalk Junction to Weston Substation

At Norwalk Junction, the 1637/1720 Lines make a right angle and proceed across Route 7 (Danbury Road). The width of the existing ROW, from Norwalk Junction to Weston Substation is approximately 80 feet over its approximate 2.6-mile length, except for one short section west of Weston Substation (in which proposed replacement structure 19791 would be located) where the ROW is approximately 165 feet wide. The 80-foot wide ROW section in this segment of the Project is maintained edge to edge, except for the 165 feet wide ROW section, where limited tree removal will occur beyond the 80 feet width³. The 1637/1720 Lines in this segment are supported on mostly double circuit lattice tower structures and on paired single circuit steel poles at the bend in the ROW west of the West Branch Saugatuck River crossing. In this segment, the existing line structures were erected around 1949. The conductor was installed in approximately 1973. The existing OPGW on the 1720 circuit was installed around 1998. The existing OPGW on the 1637

² The Project work does not include replacement of the existing single-circuit steel monopoles that support the 345-kV 3403 Line.

³ Refer to [Tree Removal and Vegetation Management](#) in Section 5 for detail on the limited tree removal.

circuit was installed in 2021. The existing OPGW will be transferred to the proposed replacement structures.

4. Project Description

The Project includes the replacement of 32 double-circuit steel lattice towers and two single-circuit steel pole structures with new galvanized or weathering steel structures. Six of the 32 double-circuit steel lattice towers will be replaced with paired single-circuit steel poles. The replacement of some double-circuit structures with two single-circuit structures is necessary to provide more rigid structures for conductor sagging along bends in the ROW. Additionally, three new mid-span structures will be installed at locations where long spans between structures are now present. (Attachment D – List of Replacement and New Structures). Of the 43 proposed structures, 38 are engineered poles with caisson foundations and 5 are standard poles, which will be direct-embedded.

The Project scope consists of structure, conductor, and static wire replacements for the 1637/1720 Lines within an approximately 4.0-mile ROW between Structure 962/962A near Grist Mill Road in Norwalk and Eversource's Weston Substation. All replacement and new midspan structures between Weston Substation and Norwalk Junction will be engineered weathering steel poles. New structures between Norwalk Junction and Grist Mill Road will be a mix of engineered and direct-embedded poles of galvanized steel to match those of the adjacent 3403 Line and the existing monopoles supporting the 1637/1720 Lines south of Grist Mill Road. The existing ACSR conductor will be replaced with larger and more durable ACSS conductor. The existing OPGW will be transferred to the new structures upon their completion. Between Norwalk Junction and Kent Road, one additional OPGW will be installed over the 1637 circuit for improved shielding from lightning and for communication purposes. Currently, the 1637 and 1720 circuits are both shielded by only a single OPGW wire.

In addition to the above, south of Norwalk Junction, 10 double circuit lattice towers and one double circuit wood pole currently supporting a de-energized transmission circuit and a distribution circuit will be removed as part of the Project. The distribution facilities will be relocated on a line of dedicated distribution poles within the ROW⁴.

The height of the existing structures ranges from 61 feet to 101 feet. The replacement structures would range in height from 84 feet to 131.5 feet with proposed structure height increases from approximately 10.5 feet to 39.5 feet above the heights of the corresponding existing structures with an average height increase of 24.7 feet. The height of the new mid-span structures would be 111.5, 121.5 and 157 feet.

Design considerations for structure heights and spacing consider multiple conditions, such as the need to meet current clearance requirements, span length to mitigate conductor swing and uplift, distribution line crossings and the need to maintain appropriate clearance to the parallel distribution line that shares this ROW. In addition, there may be adjustments for steep topography with gradual span changes ahead and back (as incorporated within the design for proposed 157 feet tall mid-span Structure 19796A)⁵.

A summary of the existing structure and proposed replacement structure and mid-span structure heights is included as Attachment D.

⁴ De-energized lattice structures adjacent to the 115-kV 1637/1720 Lines and slated for removal include Structure Nos. 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, and 3025. Eversource does not have a recorded structure number for the double circuit wood pole also to be removed.

⁵ This structure is located on a steep downward slope and the ground elevation at this structure is significantly lower than that at adjacent Structures 19797 and 19797A.

Summaries of the proposed work elements for each section of the Project are provided below:

1637/1720 Lines (Grist Mill Road to Norwalk Junction)

- Replace 11 double-circuit steel lattice structures with 11 new double-circuit galvanized steel monopoles.
- Replace two double-circuit steel lattice structures with four single-circuit steel monopoles (single circuit poles to be installed in pairs side by side in the ROW).
- Replace two single circuit weathering steel poles with two single circuit galvanized steel poles to match the adjacent 3403 Line.
- Install one new mid-span double-circuit galvanized steel monopole.
- Replace existing 556-kcmil ACSR conductor with 1590-kcmil ACSS conductor.
- Transfer the existing OPGW on the 1720 circuit to the replacement structures.
- Install new OPGW on the 1637 circuit.
- Remove ten double-circuit lattice towers and one wood pole currently supporting a de-energized circuit and a distribution circuit.

1637/1720 Lines (Norwalk Junction to Weston Substation)

- Replace 15 existing double-circuit steel lattice structures with 15 new double-circuit weathering steel monopoles.
- Replace 4 existing double-circuit steel lattice structures with 8 new single-circuit weathering steel monopoles (single circuit poles to be installed in pairs side by side in the ROW).

- Install 2 new double-circuit weathering steel monopoles.
- Replace existing 556-kcmil ACSR conductor with 1590-kcmil ACSS conductor.
- Transfer existing OPGW to the replacement structures.
- No work is proposed at the Weston Substation.

In addition to the work described above, existing lightning arrestors would be transferred to the replacement structures. Additional new lightning arrestors are proposed for installation on selected structures such that arrestors would be present on approximately every fifth structure. As part of the Project, new hardware and insulators are proposed on all structures. Counterpoise is proposed for installation as needed.

Attachment B contains maps that depict the locations of existing and proposed structures as well as the approximate location and configuration of work pads and pull pads to be used for the Project, access roads, ROW features and other Project elements. The cross-section drawings provided in Attachment C depict typical views along the ROW of the existing and proposed structures.

5. Existing Environment, Environmental Effects and Mitigation

The Project would be constructed within the existing transmission ROW starting at Grist Mill Road and continuing north to Norwalk Junction and then continuing east to Weston Substation. No physical expansion of the existing ROW is proposed for the Project. The Project would not have a substantial adverse environmental effect, for the reasons explained more fully below.

Land Use

The Project area is located within the municipalities of Norwalk, Wilton and Weston.

Land use within and surrounding the Project area is primarily commercial and residential mixed with a few areas of undeveloped lands with more densely populated areas becoming more prevalent towards the southern portion of the ROW. Notable water features within the Project area are the Norwalk River, Copts Brook, and the West Branch of the Saugatuck River (Wilton). See Attachment B: 1637/1720 Lines Rebuild Project – Petition Map Set for further details.

The Project would have minimal impacts on adjacent land uses. Construction activities would mainly be confined to the Eversource ROW except for the use of the existing access to the ROW from Grist Mill Road (Map Sheet 1), the proposed off access to the ROW off Cardinal Lane (Map Sheet 6) and the existing off ROW access from Old Weston Road (Map Sheet 8). No construction activities are proposed at the Weston Substation.

Tree Removal and Vegetation Management

The 80 feet wide portions of ROW between Weston Substation and the Norwalk Junction are generally maintained edge to edge through Eversource's cyclical vegetation management program that favors low growing scrub-shrub habitat in areas that are not residential lawn areas. An exception to the fully maintained ROW occurs at Structure 19791 where additional limited tree removal work would be done within the 165-foot ROW (see Map Sheet 8 of 8 in Attachment B – Petition Map Set). Only a portion of the Eversource fee owned property located to the west of the West Branch Saugatuck River is maintained to an 80-foot width consistent with the maintained ROW to the east of this property (see Map Sheet 7 of 8 in Attachment B – Petition Map Set). From Norwalk Transition Station south to Kent Road, the Project area extends between the CTDOT Danbury Branch Railroad corridor and the eastern edge of the ROW, which is currently fully maintained. From Kent Road to Grist Mill Road, the ROW is currently maintained from the eastern edge of ROW to the adjacent 3403 circuit ROW edge. The Project construction would be within the currently maintained ROW areas, though select edge of ROW side tree trimming would

be necessary in some areas and brush mowing would be required to accommodate access road/work pad installation and improvements in the ROW. Incompatible vegetation within the ROW would also need to be removed in select locations.

Select tree removal/vegetation management would be accomplished using mechanical methods. This work typically requires the use of flat-bed trucks, mowers, brush hogs or other types of mowing equipment, skidders, forwarders, bucket trucks for canopy trimming, and chippers. Where off-ROW access roads are utilized, some tree trimming/vegetation management may be required.

In sensitive resource areas, Eversource would require the contractor to use low-impact methods to remove brush vegetation to protect wetlands and watercourses. Low impact methods incorporate a variety of approaches, techniques, and equipment to minimize site disturbance.

Eversource would require the contractor to use some or all the following low impact methods, depending on the specific settings and situations:

- Consider soil and weather conditions when scheduling vegetation removal activities, such as during periods of heavy rainfall;
- Maximize the use of uplands for clearing access routes;
- Utilize hand clearing methods for vegetation removal work within sensitive wetland and vernal pool areas;
- Use appropriately sized equipment for site conditions, where possible, to minimize impacts; and,
- Where practical, cut brush close to the ground, leaving root systems and stumps, to retain soil stability.

Temporary construction mats would be used to provide a stable base for equipment to cross watercourses or wetlands where hand clearing work is not feasible. Such temporary support would minimize disturbances to wetland soils, and the mats would be removed after the work activities are complete. Work activities in wetlands, including the proposed tree trimming/vegetation management work, would be conducted in accordance with Eversource's April 2022 *Construction & Maintenance Environmental Requirements, Best Management Practices Manual for Massachusetts, and Connecticut* ("BMPs" or "BMP Manual") and with Project permits and approvals.

Scenic, Recreational and Cultural Resources

The Project is not anticipated to have a substantial adverse effect on scenic, recreational, and cultural resources. The Project area contains one state designated scenic roadway⁶.

- Route 33 (Westport Road) in Wilton between Old Ridgefield Road and the Ridgefield-Wilton town line (approximately 4.8 miles). However, the Project is not expected to have a substantial adverse effect on this resource as the ROW already crosses this state listed scenic road in the vicinity of Structure 19805. (See Attachment B: Map Sheet 5) where the existing lattice structure will be replaced with a steel monopole.

A desktop review of the Connecticut Department of Energy and Environmental Protection's ("CT DEEP") GIS and field investigations data was conducted by Eversource to identify where portions of the ROW traverse or are adjacent to public recreational space property or trails. No recreational open space property or trails are located adjacent to or within the ROW.

⁶ Connecticut Department of Transportation (CTDOT), December 31, 2020, Connecticut State Scenic Roads. Accessed December 5, 2022. Available URL: <https://portal.ct.gov/DOT/Programs/Connecticut-Scenic-Roads>. The Town of Weston and the City of Norwalk do not have any listed scenic roads.

A Phase 1A Cultural Resources Assessment Survey (“Phase 1A”) review was conducted by Heritage Consultants, LLC (“Heritage”) in October of 2022 to evaluate the potential presence of archaeological and historic resources within or proximate to the Project area. This assessment included a review of previously recorded cultural resources on file with the Connecticut State Historic Preservation Office (“SHPO”). The Phase 1A identified no previously inventoried standing structures within the Project limits; however, one State Register of Historic Places property (Betts House) and a single National Register of Historic Places (“NRHP”) district (Kettle Creek Historic District) are located within 500 feet of the Project Area. Heritage determined that the Project would not directly or indirectly impact these historic resources.

The Phase 1A also identified two known archaeological sites. However, both sites are located outside of the Project area, and they will not be impacted by the Project. Heritage further identified six work area locations within the ROW as having a moderate to high potential for archaeological sensitivity, prompting further investigation via a pedestrian survey in October 2022. That survey concluded that these six work locations could be reclassified as retaining no/low sensitivity for cultural resources based on the presence of poor drainage characteristics, moderate/steep slopes, and/or previous signs of ground disturbances. Based on the results of the pedestrian survey, Heritage determined that “no additional archaeological investigations within the Project area are recommended and no impacts to significant cultural resources are anticipated by the proposed Project”. The results of the Phase 1A and pedestrian survey was provided to the SHPO and the Tribal Historic Preservation Offices (“THPO”) for review. The SHPO agreed with Heritage’s findings in a response letter agreeing that the Project will have no adverse effect to historic properties. A response from the THPO is pending.

Wetlands, Watercourses, Waterbodies, Flood Zones and Aquifer Protection Areas

Eversource identified and delineated water resources within the Project area in March of 2022 (see Attachment E: Wetlands and Watercourses Report). The map sheets provided in Attachment B depict these water resources, which include inland wetlands, watercourses (perennial and intermittent streams), a pond, vernal pools, Federal Emergency Management Agency (“FEMA”) Flood Zones and an Aquifer Protection Area. All work in or near these areas would be conducted in accordance with Eversource’s BMPs and the Stormwater Pollution Prevention Plan (SWPCP) that Eversource would develop for the Project under a CT DEEP General Permit (for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities) as well as applicable conditions imposed by regulatory agencies in permit conditions and approvals including the Department of the Army Regional General Permits for the State of Connecticut. Details regarding each of these resource areas are summarized below.

Wetlands

Wetlands in the Project area were identified and delineated in accordance with industry standard methodology. A total of 20 wetlands were identified in the Project area. Three lattice structures (Structures 943, 942 & 941) are currently located within wetlands and will be replaced with weathering steel monopole structures within their respective wetlands. Structure 943 will be replaced by two (2) steel monopole single circuit structures (Structure 19808 and 19808A) and structures 942 and 941 will be replaced by steel monopole double circuit structures, structures 19807 and 19806, respectively. One (1) existing structure⁷ currently

⁷ This structure is currently labelled at Structure 940 and the proposed replacement structure will have the new number Structure 19805.

located in a wetland will be replaced by a new steel monopole structure in an upland area. One upland structure (Structure 959) will be replaced by a structure in a wetland to reduce span widths and meet clearance requirements.

The five structures installed in wetlands would result in a total of approximately 400 square feet of permanent wetland effects.

The Project would also result in approximately 2.64 acres of temporary effects to wetlands due to the placement of construction mats for access roads and work pads. All matting would be promptly removed upon Project completion and wetland areas would be restored in accordance with Eversource's BMPs.

Anticipated effects to wetlands from the Project are detailed on Table W-1 below.

Table W-1: Summary of Project Effects to Wetlands and Watercourses

Wetland Watercourse ID	200 Scale Petition Mapping Sheet NO.	Wetland/Watercourse Effects (+/- square feet)		
		Temporary (Matting)	Permanent (Structures/Grading*)	Secondary (Selective Tree Removal)
W3	1	700	0	0
W4	1	685	0	0
W5	1	2,005	0	0
W7	1	14,555	80	0
W8	2	5,500	0	0
W11	3	310	0	0
W12	4	540	0	0
W14	4	3,575	0	0
W16	4	2,105	0	0
W17	5	72,775	320	0
W18	6	645	0	0
W19A	7	3,365	0	0
W22	7	1,790	0	0
W23	8	2,795	0	0
W24	8	3,830	0	0
Totals		115,175 (2.64 acres)	400 (<0.01 acres)	0 (0 acres)

Note: No impacts to listed watercourses are anticipated as they will be spanned with construction matting.

Watercourses and Waterbodies

A total of eleven watercourses and waterbodies were delineated within the Project area. These include two rivers, one perennial brook, and eight intermittent streams. Named watercourses and waterbodies include the Norwalk River, Copts Brook, and the West Branch of the Saugatuck River.

A total of seven temporary watercourse crossings would be required during construction. Each of these crossings would be spanned using temporary construction mats. All construction mats would be promptly removed upon Project completion and wetland areas would be restored in accordance with Eversource's BMPs.

Vernal Pools

The Project area was surveyed for vernal pools in March of 2022. Survey methods used included visual surveys to identify amphibian adults, larvae and egg masses and audial surveys to record breeding choruses. Two vernal pools were identified proximate to and outside of the Project ROW.

All proposed work areas proximate to vernal pools envelopes would be temporary (use of matting). To minimize potential effects to vernal pools, Eversource would implement and follow the best management practices outlined in Attachment F: Vernal Pool Survey Report.

FEMA Flood Zones

The Project area passes over the following FEMA-designated 100-year flood zones listed below.

- Norwalk River influence (100-year flood zone and floodway - Attachment B: Map Sheets 1 through 4; designated as S5);
- Unnamed point (tributary to Norwalk River) influence (100-year flood zone - Attachment B: Map Sheets 3; designated as W10);
- Copts Brook influence (100-year flood zone - Attachment B: Map Sheet 4 and 5; designated as S6 and W14 and W17); and

- West Branch Saugatuck River influence (100-year flood zone - Attachment B: Map Sheet 7; designated as S8).

Eversource would utilize its BMPs to minimize any impacts in these areas including the use of construction mats for work pads and access roads to ensure that hydrology is not adversely affected. All construction mats would be removed after the Project is complete. Areas of disturbance would be promptly stabilized to minimize the potential for soil erosion and the discharge of sediment into nearby resource areas. Prior to significant storm events, Eversource will secure the construction mats to impede lateral movement during temporary flooding and installed matting in floodplains will be inspected immediately after storms to ensure that lateral movement has not occurred. This work is not anticipated to have any significant impacts on the flood zones and will not affect flood storage.

Water Supply

Based on Aquifer Protection Areas (“APA”) mapping maintained by CT DEEP, there is one APA located within and proximate to the Project ROW. The Project ROW is proximate to and passes through the Coleytown Level A Final Regulated APA⁸ (Attachment B: Map Sheet 8).

No public water supply reservoirs are located within the Project area, with the nearest being the Hemlock Reservoir, located in the towns of Easton and Fairfield approximately 3.8 miles to the northeast of the ROW. There are no public water supply wells located within the Project area and no private water supply wells were observed within the Project area during field investigation activities.

⁸ Aquifer Protection Area where detailed (Level A) mapping has been completed and the municipality has adopted land use regulations for the area.

Eversource would require its contractors to employ best management practices for the proper storage, secondary containment, and handling of diesel fuel, motor oil, grease, and other lubricants, to protect water quality within the Project area. Construction activities would conform to Eversource's BMPs, as well as to the requirements of Project-specific plans (e.g., Stormwater Pollution Control Plan; Spill Prevention and Control Plan), which would be prepared prior to the commencement of construction.

Wildlife and Habitat

The ROW provides habitat for a variety of shrubland birds as well as early successional dependent species such as amphibians and reptiles. These and many other species rely heavily upon the early-successional habitats that occur in transmission line corridors, which also provide vital conservation benefits for wild pollinators. The ROW also functions as a linear wildlife corridor, allowing movement of animals through densely developed urban and suburban areas. The Project activities are not anticipated to have a substantial adverse environmental effect on wildlife habitat. Eversource reviewed the CT DEEP Bureau of Natural Resources Wildlife Division's Natural Diversity Database ("NDDDB") mapping regarding the presence of state-listed species within the Project area. Based on that review, no work is proposed within either a NDDDB buffered area or CTDEEP owned/managed land. Therefore, the work would not be subject to a NDDDB Review Request. Work would be conducted in accordance with Eversource's BMPs to avoid or minimize impact to terrestrial habitats that may support rare species. With these protective measures, no adverse impacts to state-listed species are anticipated.

In addition, Eversource consulted with the U.S. Fish & Wildlife Service's ("USFWS") Information, Planning, and Consultation ("IPaC") service regarding federal-listed species that may be present within the Project area. The IPaC report indicated one federal-listed Endangered species; the Northern Long-Eared Bat ("NLEB"; *Myotis septentrionalis*) and one federal-listed candidate

species the Monarch butterfly (*Danaus plexippus*) may potentially occur in proximity to the Project area.

NLEB roosts in certain trees in the warmer months of the year and at other times hibernates in caves and mines (bat “hibernacula”). However, according to the NLEB Areas of Concern in Connecticut map (dated March 2019), there are no known roost trees within 150 feet of the Project area, and the nearest hibernacula is approximately 14 miles away to the southwest in Greenwich. No work is proposed that would affect any known hibernacula, and therefore, no impacts to this species are anticipated.

Eversource has evaluated the Project area for existing invasive species and has identified invasive species within both upland and wetland work areas. Eversource will follow the practices of the BMP Manual, including the following additional actions to control the potential spread of invasive species:

- Clean vehicles, equipment, materials (including matting), gear, footwear or clothing of all visible soil and plant material on site in the infested area, or as near as practical to the infested area, prior to leaving the Project site.
- Cleaning may be accomplished using a brush, broom, or hand tools, by shaking or dropping mats in a controlled manner to dislodge attached soil and debris, or compressed air.

Visual Effects

The Project would result in some change to the visual character of the line, though Eversource does not believe that the change would result in a substantial effect. While generally taller and of a different design than the existing lattice structures they will be replacing, the replacement monopole structures would be located as close as possible to locations of the existing structures.

The proposed replacement monopole structures and three new mid-span structures are of consistent height with adjacent structure heights when grade elevations at adjacent structures are considered. Specifically, Structure 19796A is located on a steep slope. Along the span between existing Structures 19797/19797A and structure 19796A, the grade descends approximately 100 feet and requiring the proposed height of 157 feet.

Visual effects of the proposed structures between Norwalk Junction and Weston Substation are softened by utilizing weathering steel poles, which blend in more easily with the surrounding area's vegetation than galvanized steel poles. South of Norwalk Junction, galvanized poles are proposed to present a more consistent appearance with the existing galvanized finishes of the 3403 Line poles.

Eversource screened proposed structure coordinates and elevations using the Federal Aviation Administration's Notice Criteria Tool (NCT). The NCT results indicated that FAA Obstruction Evaluation filings are not required for structures on the Project. Eversource does not propose to mark or light structures on the Project.

Sound Levels

The Project would result in short-term and localized noise, as is typical of similar construction projects. The temporary increases in noise would likely raise ambient sound levels in immediately surrounding the work areas due to the operation of standard types of construction equipment. (e.g., backhoe, bulldozer, crane, trucks, etc.)⁹. Upon completion of construction and during

⁹ Construction noise is exempted under the Connecticut regulations for the control of noise, RCSA Section 22a-69-1.8(g).

operation of the modified line facilities, the proposed Project would not result in any effect on noise or sound pressure levels.

Air Quality

Short-term, localized effects on air quality may result from the Project construction work, primarily from fugitive dust and equipment emissions. To minimize the amount of dust generated by construction activities, the extent of exposed/disturbed areas at any one time would be minimized. Vehicle emissions would be limited by requiring contractors to properly maintain construction equipment and vehicles, and by minimizing the idling time of equipment and vehicles, including diesel construction equipment, in accordance with Connecticut regulatory requirements¹⁰. Temporary gravel tracking pads would be installed at points of construction vehicle ingress/egress from the ROW to minimize the potential for equipment to track dirt onto local roads. To further minimize dust, water may be used to wet down disturbed soils or work areas with heavy tracking as needed.

6. Construction Traffic Management

Construction vehicles and equipment associated with the work would include, but are not limited to, pickup trucks, bucket trucks, flat-bed trucks, excavators, concrete trucks, drill rigs, front loaders, reel trailers, bulldozers, woodchippers, brush hogs/mowers, forklifts, side booms, dump trucks and cranes. Pullers and tensioners would be used for the line work. Guard trucks and/or temporary guard structures would be used for protection of roads during the line work.

¹⁰ Regulations of Connecticut State Agencies (RCSA) Section 22a-174-18(b)(3)(C) generally prohibits the idling of motor vehicles for more than three consecutive minutes when not in motion.

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

To safely move construction vehicles and equipment onto and off the ROW while minimizing disruptions to vehicular traffic along public roads, Eversource or its Project contractor would, as appropriate, work with the Municipalities and the Connecticut Department of Transportation to develop and implement traffic management procedures, as needed. The construction contractor is typically responsible for posting and maintaining construction warning signs along public roads near work sites and for coordinating the use of flaggers or police personnel to direct traffic, as necessary.

7. Construction Sequence

Project construction would include the following activities:

Establishing Staging Areas

The staging areas would be used for surface storage of construction materials, equipment, tools, and supplies (including conductors, cable reels, insulators, hardware, poles, and mats) for the Project. Office trailers and Conex storage containers may be located at the staging areas. Components removed during the work (structure sections, conductor, hardware, and insulators) may be temporarily accumulated and stored at the staging areas prior to removal off-site for salvage or disposal. The staging areas may also be used by construction crews for parking personal vehicles as well as for construction vehicles and equipment storage, and for performing minor maintenance, when needed, on construction equipment. An environmental review of each

potential staging area location would be completed, and Eversource would consult with the local municipal officials and provide notice to the Council when the staging areas are identified.

Soil Erosion and Sediment (“E&S”) Control Installation

Project construction would conform to best management practices for E&S control, including those provided in the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* (“*Connecticut Guidelines*”) and Eversource’s BMPs. This would include the development of a project specific Stormwater Pollution Control Plan (“SWPCP”) and registration under CT DEEP’s *General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities*, DEEP-WPED-GP-015, effective December 31, 2020 (“General Permit”).

Typical E&S control measures include, but are not limited to, straw blankets, silt fencing, gravel anti-tracking pads, soil and slope protection, water bars, check dams, berms, swales, plunge pools, and sediment basins. Silt fence would be installed prior to construction to intercept and retain sediment and/or construction materials from disturbed areas and prevent such materials from discharging to water resources or off ROW. Temporary E&S control measures would be maintained and inspected throughout the Project to ensure their integrity and effectiveness and for compliance with the General Permit. The SWPCP inspections would be in accordance with the General Permit requirements. Following the construction, seeding, and mulching would be completed to permanently stabilize the areas disturbed by the work. The temporary E&S control measures would remain in place until the Project work is complete and all disturbed areas have been deemed and remain stabilized.

Access Roads and Work Pads

Access to each transmission structure proposed for removal or installation would be required during Project construction. As a result of the operation and maintenance of the existing lines

within this ROW, some access roads are already established and Eversource would utilize these existing access roads to the extent possible. However, some new access roads would be required. Construction matting would be utilized to install temporary access roads through wetland areas to reach certain structure locations. In some cases, temporary off ROW access road agreements have or will be obtained with landowners to minimize land, abutter or resource area disturbance that may result from in ROW access. The access roads expected to be used for the proposed Project are illustrated on the maps in Attachment A.

Existing access roads may need to be improved (graded, widened, and/or reinforced) with additional stone material to accommodate the safe passage of construction vehicles and equipment.

Access road improvements typically include trimming adjacent vegetation and widening roads, as needed, to provide a maximum travel surface that is approximately 16 feet wide (additional width may be needed at turning or passing locations). Access roads would typically be graveled; however, where access roads traverse watercourses or wetlands, temporary construction mats or temporary matted bridges would be used. E&S controls would be installed as necessary before the commencement of any improvements to or development of access roads. No new permanent access roads are proposed in water resource areas.

At each transmission line structure location, a work pad is required to stage material for final on-site assembly and/or removal of structures, to install a new structure, to pull conductors and to provide a safe, level work base for the construction equipment. At some existing structure locations, existing gravel work pads are established and Eversource would utilize these existing work pads to the extent possible. However, some new work pads would be needed. Work pads are typically 80 feet by 100 feet but in some wetland and water resource areas may be 80 feet by 80 feet and where machinery is needed for pulling conductors through an angled structure, work

pads of approximately 80 feet by 150 feet would be required. Generally, work pads in upland areas would be graveled, though temporary matting pads would be used as necessary to protect sensitive areas (i.e., lawn, meadow and identified cultural resource areas) or where work pads are proposed to be in wetlands. No new permanent work pads are in water resource areas.

To facilitate future transmission line maintenance, gravel access roads and structure work pads in uplands would be left in place (refer to Attachment A). If an individual property owner requests their removal, the Project representatives would work with the property owner on mitigation options.

The approximate locations and configuration of the work pads, as determined based on the environmental field studies and constructability reviews, are shown on the maps in Attachment B.

Foundation Installation

38 of the proposed structures would have drilled (caisson) foundations¹¹. Foundation installation work would require the use of equipment such as augers, drill rigs, pneumatic hammers, dump trucks, concrete trucks, grapple trucks and light duty trucks. If groundwater is encountered, and when working within wetlands, pumping (vacuum) trucks or other suitable equipment would be used to pump water from the excavated areas as the shaft is being drilled or as the structure is being set. The water would then be discharged in accordance with applicable local, state, and federal requirements.

¹¹ Structures 961, 960, 953, 950, and 949 would be installed via direct embedment and would not require concrete foundations.

Excavated soils that are generated during construction activities would be stored or spread in an upland area within the ROW, to the extent practicable. Materials that cannot be managed within the ROW would be disposed off-site in accordance with applicable regulations.

As needed, counterpoise installation may also be completed at this time. Depending on site-specific soil conductivity, supplemental grounding would be installed. A quad “ditch-witch” plow-cable trencher would be used to install the counterpoise.

Structure Assembly/Installation

Structure sections, structure components and hardware would be delivered to the individual structure locations using flat-bed trucks and assembled on-site using a crane and bucket trucks. After structure assembly and installation, the area around the structure foundations would be backfilled with processed gravel.

Conductor and OPGW Installation

The installation of the new conductors and OPGW (or transfer of existing OPGW) would occur after the new structures have been erected. The equipment required for these activities would include conductor reels, conductor pulling and tensioning rigs and bucket trucks.

Structure, Conductor and Static Wire Removal

The removal of the existing conductor and shield wire would typically take place during the active installation of the new conductor and OPGW because the existing conductor and shield wire would be used as pulling lines, if possible. Conductor dead-ending and splicing would be accomplished with pressed hardware.

The existing structures would be removed after the new conductor and OPGW are installed.

Restoration

Once the new structures are erected, the line is energized, and the existing structures have been dismantled and removed, ROW restoration activities would commence. Restoration activities would include the removal of construction debris, signage, flagging, and temporary fencing, as well as the removal of construction mats and work pads that are designated for removal. Areas affected by construction would be re-graded as practical and stabilized by an application of CT DEEP approved pollinator friendly seed mixture, mulching or other measures before removing temporary E&S controls. Eversource would perform ROW restoration in accordance with the protocols specified in Eversource's BMPs and in consultation with affected property owners.

Waste Management

Waste materials, such as structure components (i.e., materials from the removed structures, conductor, shield wire, associated hardware, etc.) and any other construction debris would be disposed of in accordance with Eversource's BMPs, applicable regulations or recycled consistent with applicable rules and regulations and Eversource policies. As described above, excess soils would be managed in accordance with the Company's BMPs, applicable regulations and disposal facility policies. Dewatering and wastewater management during construction activities would be conducted in accordance with the *Connecticut Guidelines*, the General Permit, Eversource's BMPs and applicable regulations.

8. Construction Schedule and Work Hours

Eversource proposes to begin Project construction work in August of 2023 and anticipates that such work would be completed by the end of December 2024. Normal work hours would be Monday through Saturday from 7:00 AM to 7:00 PM. Sunday work hours or evening work hours past 7:00 PM may be necessary due to delays caused by inclement weather or outage

constraints. In the event this is necessary, the Council, Municipalities and abutters would be provided notice of the proposed Sunday and/or evening work hours.

9. 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 point of the lowest conductor for each 115-kV circuit is 30 feet above grade.

Eversource’s proposed design for the Project employs primarily a double-circuit vertical configuration of three phase conductors supported on tubular steel poles (Attachment B – Right-of-Way Cross Sections). Structure dimensions are proposed to change from the existing double-circuit vertical lattice towers.

Magnetic fields at and beyond the edges of the ROW are generally expected to increase slightly. The maximum magnetic fields in the ROW are expected to increase slightly between Norwalk Junction and Weston. South of Norwalk Junction, the 345-kV 3403 Line is the source of the maximum magnetic field, but no changes to that Line are proposed as part of the Project.

Electric fields at the edges of the ROW are expected to increase slightly between Norwalk Junction and Weston, due to the larger conductor. South of Norwalk Junction, the 3403 Line is the source of the maximum electric field.

Table 1 summarizes the calculated electric and magnetic fields at the ROW edges, and the maximum within the ROW, before and after the Project modifications. See Attachment G: EMF Graphs.

Table 1 - Summary of Calculated Electric and Magnetic Fields

Norwalk Junction - Weston Substation (Annual Average Loads)		North ROW Edge	Max in ROW	South ROW Edge
Magnetic Fields (mG)	Existing	11.6	20.9	11.3
	Proposed	12.5	23.5	12.2
Electric Fields (kV/m)	Existing	0.22	1.75	0.22
	Proposed	0.26	2.07	0.26

Kent Road - Norwalk Jct (Average Annual Loads)		West ROW Edge	Max in ROW	East ROW Edge
Magnetic Fields (mG)	Existing	16.8	66.7	19.1
	Proposed	16.9	66.6	15.7
Electric Fields (kV/m)	Existing	1.14	4.35	0.83
	Proposed	1.13	4.37	0.36

Structure 963 - Kent Road (Average Annual Loads)		West ROW Edge	Max in ROW	East ROW Edge
Magnetic Fields (mG)	Existing	23.3	71.8	25.4
	Proposed	23.6	71.8	26.1
Electric Fields (kV/m)	Existing	1.62	4.04	0.42
	Proposed	1.61	3.95	0.57

The results of the calculations show that the proposed Project modifications would not substantially increase magnetic or electric fields at the edges of the ROW.

Comparison of Calculated Fields to International Guidelines

The anticipated fields resulting from the proposed Project 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 standards are summarized below in Table 2.

Table 2 - International Guidelines for EMF Exposure

	Magnetic Field (mG)	Electric Field (kV/m)
ICNIRP	2000	4.2
ICES	9040	5 (in General)
		10 (on ROW)

10. Municipal and Property Owner Outreach

In January 2023, Eversource consulted with officials in Norwalk to brief them on the proposed Project. At Wilton’s request, information on the Project was sent to the municipality in March 2023 and a follow up meeting will be scheduled if requested by the municipality. Eversource met with the Town of Weston in March 2023 to brief officials on the proposed Project. Additionally, in March, Eversource provided representatives of the Municipalities with written notice of the Petition filing.

During January and February 2023, Eversource conducted outreach to property owners located along the Project ROW. In conjunction with the submission of this Petition, abutting property owners were notified of the filing and provided information on how to obtain additional information on the Project, as well as how to submit comments to the Council (Attachment H – Letter to the Abutters and Affidavit). Eversource representatives would continue communication with adjacent property owners to provide advance notification as to the start of construction activities and would continue to update abutting property owners throughout construction and restoration.

11. Conclusion

Based on the foregoing, Eversource respectfully submits that the proposed modifications would not result in a substantial adverse effect on the environment, nor would they damage existing scenic, historical, or recreational values. Accordingly, Eversource requests that the Council issue a declaratory ruling that the proposed modifications would have no substantial adverse environmental effect.

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

Deborah Denfeld
Team Lead – Transmission Siting
Eversource Energy
PO Box 270
Hartford, CT 06141-0270
Telephone: (860) 728-4654



By: _____

Deborah Denfeld

List of Attachments

- Attachment A: 1637/1720 Lines Rebuild Project – Photographs
- Attachment B: 1637/1720 Lines Rebuild Project – Petition Map Set
- Attachment C: 1637/1720 Lines Rebuild Project – Right-of-Way Cross Sections
- Attachment D: 1637/1720 Lines Rebuild Project - List of Replacement and New Structures
- Attachment E: 1637/1720 Lines Rebuild Project - Wetlands and Watercourses Report
- Attachment F: 1637/1720 Lines Rebuild Project - Vernal Pool Survey
- Attachment G: 1637/1720 Lines Rebuild Project - EMF Graphs
- Attachment H: 1637/1720 Lines Rebuild Project - Letter to the Abutters and Affidavit

Attachment A
1637/1720 Lines Rebuild Project
Photographs

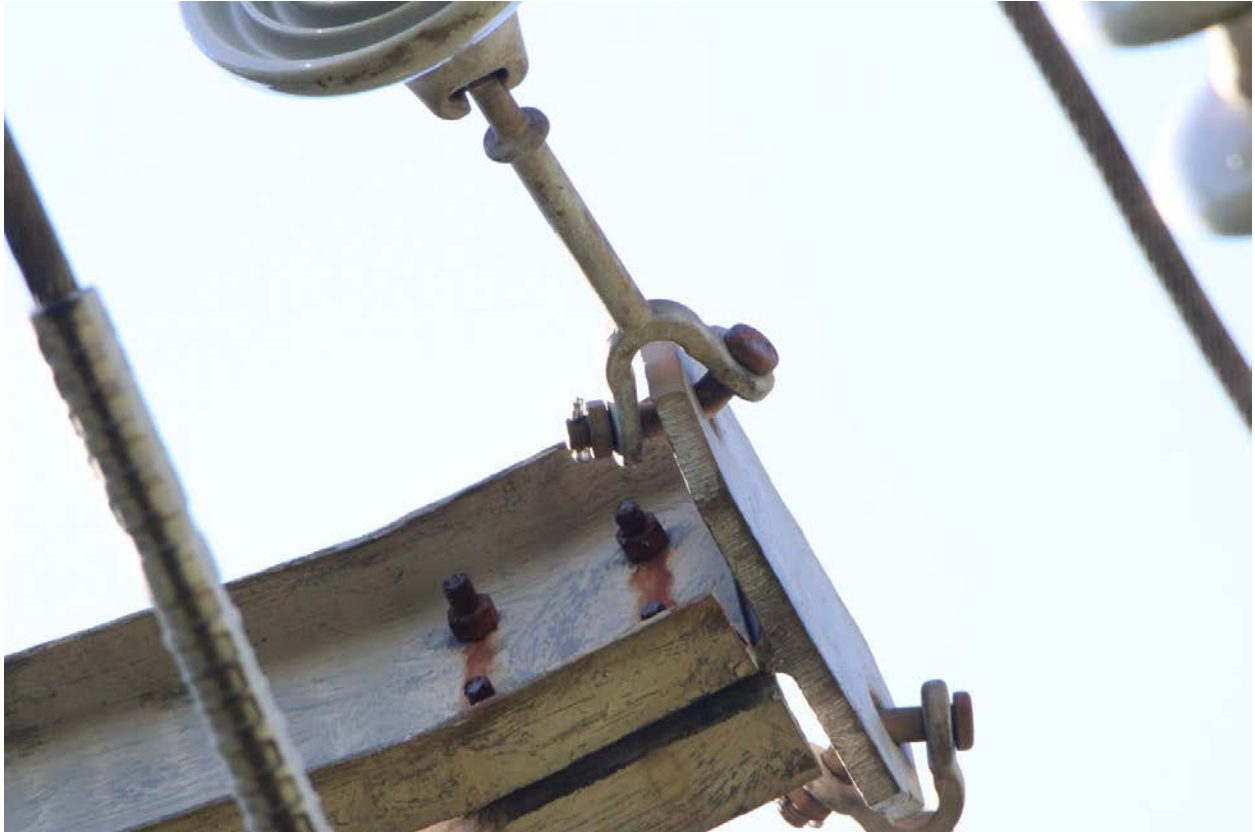
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Structure 953 – Foundation Cracks



Structure 955 – Foundation Cracks



Structure 954 – Rust on Tower Hardware



Structure 927 – Arm Damage due to Vegetation/Storm. (Arm damage has been repaired). Rust on tower members



Structure 931 – Corrosion – pitting of tower arm members

Attachment B
1637/1720 Lines Rebuild Project
Petition Map Set

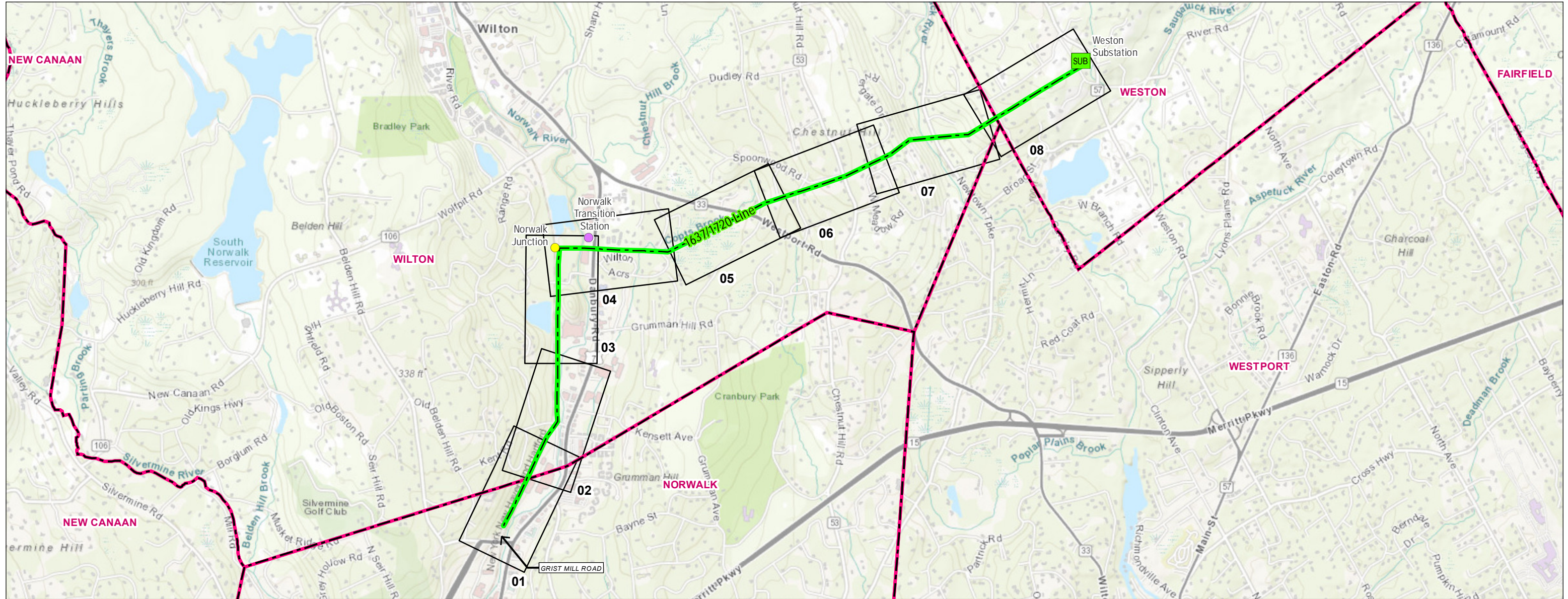
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1637/1720 Lines Rebuild Project

Norwalk, Wilton & Weston, CT

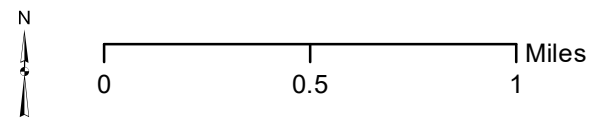
Petition Map Set

Date: March 21, 2023



Legend

- Junction
- Norwalk Transition Station
- Substation
- Map Sheet
- Municipal Boundaries



PREPARED FOR:



107 Selden Street
Berlin, CT 06037

INDEX OF FIGURES

Title Sheet / Index Map
Abutters Tables & Map Sheets 01-08

PREPARED BY:



1 Mercantile Street
Worcester, MA 01608

MAP SHEET 01

**1637/1720 Lines Rebuild Project
Structures 959-962A
City of Norwalk & Town of Wilton, Connecticut**

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped, forest
- Residential
- Commercial
- Transportation (Route 7 & Danbury Branch Railroad)
- Eversource Owned Property (Structure 11062)

RIGHT-OF-WAY DESCRIPTION

Right-of-Way (“ROW”) Land Use & Resource Areas

- Maintained ROW
- Eversource Owned Property at Structure 11062 (3403 Line)

Water Resources

- Wetlands: W3, W4, W5, W6 & W7
- Wetland Cover Types: PSS, PEM, PFO
- Watercourses: S1, S2 & S3

Wetland and Watercourse Crossings

- Wetland W3 - Construction mats to access work areas
- Wetland W4 - Construction mats to access work areas
- Wetland W5 - Construction mats to access work areas
- Wetland W7 - Construction mats to access work areas
- Stream S2 - Construction mats to access work areas
- Stream S3 - Construction mats to access work areas

Right-of-Way Vegetation

- Scrub-shrub
- Forbes and grasses
- Forested edges

Access

- Structure 961 – 962A: Existing off-ROW access off Grist Mill Road

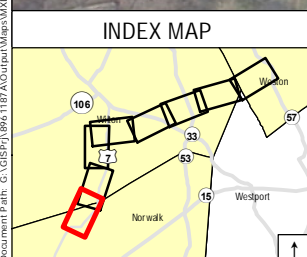
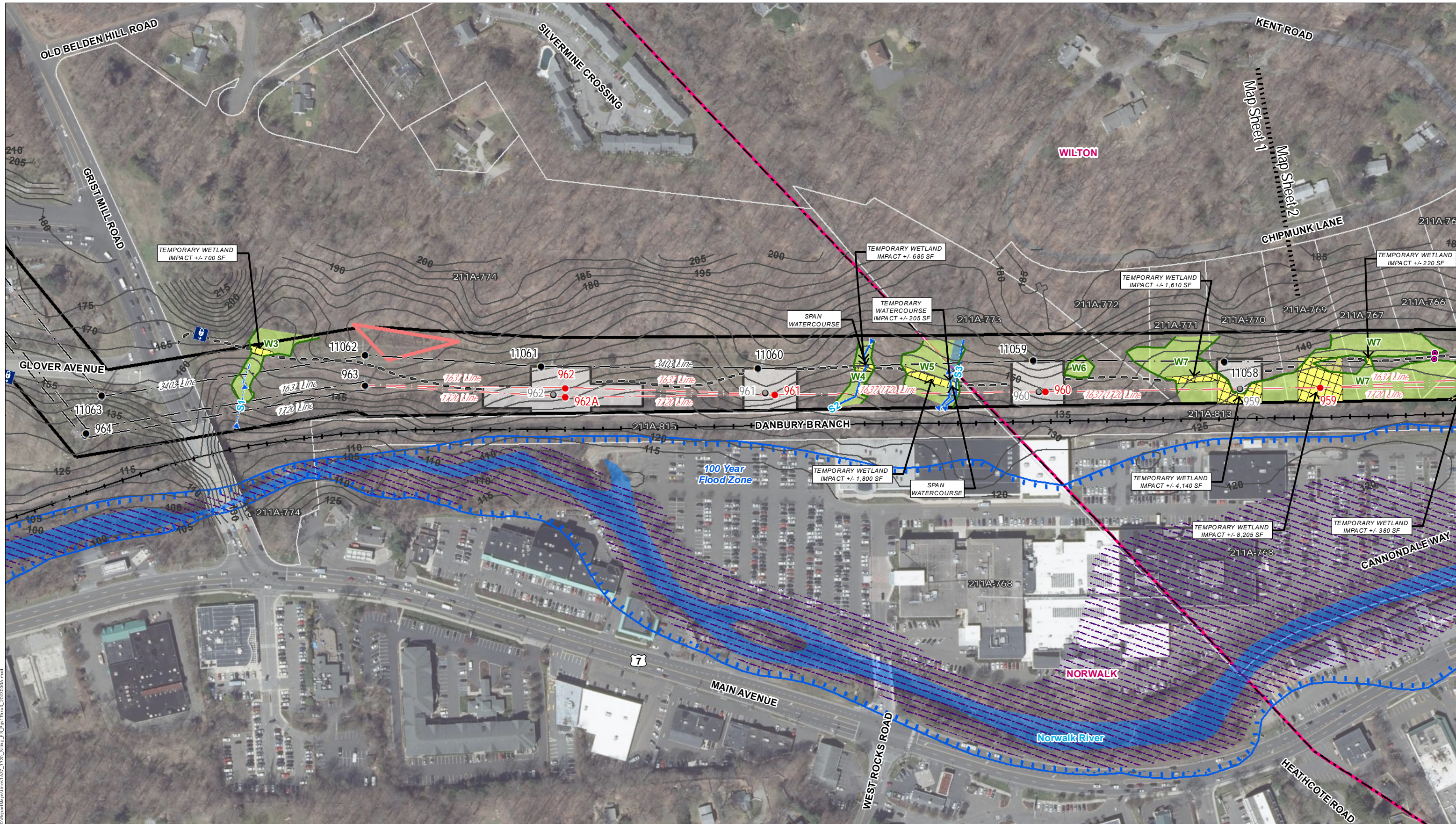
Road Crossings

- None

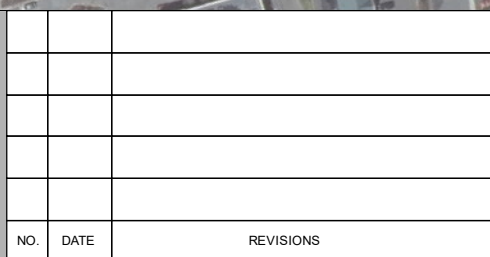
Existing Right-of-Way Width

- 150 feet

ABUTTERS TO THE PROJECT RIGHT-OF-WAY			
<u>Line List Number</u>	<u>Parcel Address</u>	<u>Town</u>	<u>Owner Name</u>
211A-763	17 KENT RD	WILTON	STATE OF CONNECTICUT
211A-765	4 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-766	8 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-767	14 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-768	1 CANNONDALE WAY	WILTON	I PARK NORWALK II LLC
211A-769	18 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-770	24 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-771	28 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-772	34 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-773	OLD BELDEN HILL RD	WILTON	STATE OF CONNECTICUT
211A-774	OLD BELDEN HILL RD	NORWALK	STATE OF CONNECTICUT
211A-813	N/A	WILTON	STATE OF CONNECTICUT
211A-815	N/A	NORWALK	STATE OF CONNECTICUT



Legend	
● Existing Structure	— Existing Access
1637 Existing Structure Label	— Proposed Access
○ Existing Guy Anchor	— Off-ROW Access Pending Rights
○ Existing Structure to be Removed	Existing Gravel
● Proposed Structure	Stone Work Pad
1637 Proposed Structure Label	Temporary Construction Matting
— Existing Eversource Overhead Line	Delineated Intermittent Watercourse
— Proposed Eversource Overhead Line	Delineated Perennial Watercourse
Open Water	Natural Diversity Database Area (December 2022)
Delineated Wetland Boundary Outline	Aquifer Protection Area
Field Delineated Wetland	Area of Limited Tree Removal
Approximate Wetland (not delineated)	Line List Label
Watercourse (not delineated)	Line List Parcel
Approximate Open Water (not delineated)	Eversource Owned Property
FEMA 100-Year Flood Zone	Municipal Boundaries
FEMA Floodway	Existing Right-of-Way (ROW)
	○ Culvert
	Gate
	— Fence
	— 5' Contour Line



EVERSOURCE

**1637/1720 Lines Rebuild Project
Petition Map Set**

Norwalk & Wilton, CT MAP SHEET 1 of 8

Date: March, 2023

BSC GROUP

NO.	DATE	REVISIONS

THIS MAPPING PRODUCT HAS BEEN CREATED TO COMPLY WITH SUBMITTAL REQUIREMENTS TO OBTAIN CERTAIN REGULATORY APPROVALS AND, AS SUCH, THERE IS NO RELIANCE ON THE INFORMATION CONTAINED HEREIN FOR ANY OTHER PURPOSE.

MAP SHEET 02

1637/1720 Lines Rebuild Project Structures 953-960 Town of Wilton, Connecticut

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped, forest
- Residential
- Eversource Owned Property
- Commercial
- Danbury Branch Railroad
- 100-year Flood Zone (Norwalk River)

RIGHT-OF-WAY DESCRIPTION

Right-of-Way ("ROW") Land Use & Resource Areas

- Maintained ROW
- Eversource Owned Property @ Structure 958 & 958A
- 100-year Flood Zone between Structure 954 and 957A

Water Resources

- Wetlands: W6, W7 W8 & W9
- Wetland Cover Types: PSS, PEM, PFO
- Watercourses: S4, S5 (Norwalk River) & S6

Wetland and Watercourse Crossings

- Wetland W7 – Construction mats for access and work pad at str 959
- Wetland W8 – Construction mats to access work areas
- Stream S4 – Construction mats for access to work areas

Right-of-Way Vegetation

- Scrub-shrub
- Forbes and grasses
- Forested edge

Access

- Structures 958-960: Existing access off Kent Road to south
- Structures 953-956: Mat access off Kent Road to north

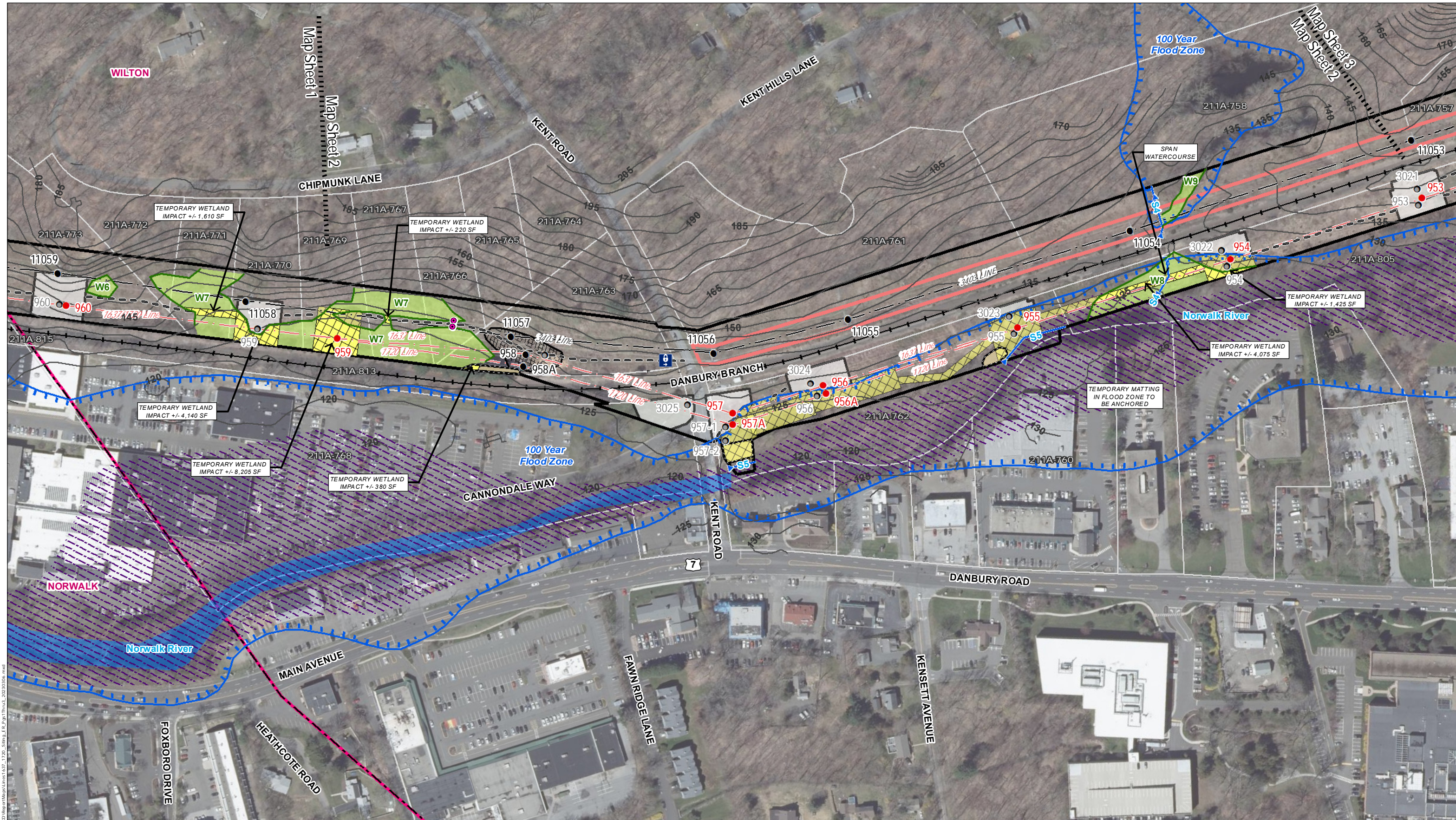
Road Crossings

- Kent Road

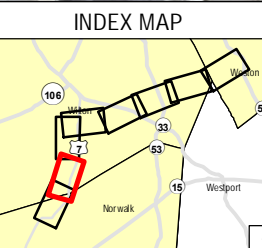
Existing Right-of-Way Width

- Varies from 140 feet to 270 feet

ABUTTERS TO THE PROJECT RIGHT-OF-WAY			
<u>Line List Number</u>	<u>Parcel Address</u>	<u>Town</u>	<u>Owner Name</u>
211A-757	PENN CENTRAL RAILROAD	WILTON	STATE OF CONNECTICUT
211A-758	KENT HILLS LN	WILTON	STATE OF CONNECTICUT
211A-760	39 DANBURY RD	WILTON	WILSON PROPERTIES I, LLC
211A-761	KENT RD	WILTON	STATE OF CONNECTICUT
211A-762	KENT RD	WILTON	STATE OF CONNECTICUT
211A-763	17 KENT RD	WILTON	STATE OF CONNECTICUT
211A-764	2 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-765	4 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-766	8 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-767	14 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-768	1 CANNONDALE WAY	WILTON	I PARK NORWALK II LLC
211A-769	18 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-770	24 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-771	28 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-772	34 CHIPMUNK LN	WILTON	STATE OF CONNECTICUT
211A-773	OLD BELDEN HILL RD	WILTON	STATE OF CONNECTICUT
211A-805	59 DANBURY RD	WILTON	WILTON PROPERTIES RSK LLC
211A-813	N/A	WILTON	STATE OF CONNECTICUT
211A-815	N/A	NORWALK	STATE OF CONNECTICUT



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Legend			
● Existing Structure	— Existing Access	Open Water	● Natural Diversity Database Area (December 2022)
1637 Existing Structure Label	— Proposed Access	— Delineated Wetland Boundary Outline	■ Aquifer Protection Area
⊕ Existing Guy Anchor	— Off-ROW Access Pending Rights	■ Field Delineated Wetland	■ Area of Limited Tree Removal
⊖ Existing Structure to be Removed	■ Existing Gravel	■ Approximate Wetland (not delineated)	Ⓝ Line List Label
● Proposed Structure	■ Stone Work Pad	— Watercourse (not delineated)	■ Line List Parcel
1637 Proposed Structure Label	■ Temporary Construction Matting	— Approximate Open Water (not delineated)	■ Eversource Owned Property
— Existing Eversource Overhead Line	— Delineated Intermittent Watercourse	■ FEMA 100-Year Flood Zone	— Municipal Boundaries
— Proposed Eversource Overhead Line	— Delineated Perennial Watercourse	— FEMA Floodway	— Existing Right-of-Way (ROW)
			○ Culvert
			Ⓜ Gate
			ⓧ Fence
			— 5' Contour Line

NO.	DATE	REVISIONS

EVERSOURCE

1637/1720 Lines Rebuild Project
Petition Map Set

Norwalk & Wilton, CT MAP SHEET 2 of 8

Date: March, 2023

BSC GROUP

THIS MAPPING PRODUCT HAS BEEN CREATED TO COMPLY WITH SUBMITTAL REQUIREMENTS TO OBTAIN CERTAIN REGULATORY APPROVALS AND, AS SUCH, THERE IS NO RELIANCE ON THE INFORMATION CONTAINED HEREIN FOR ANY OTHER PURPOSE.

MAP SHEET 03

**1637/1720 Lines Rebuild Project
Structures 948-954
Town of Wilton, Connecticut**

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped, forest
- Commercial development
- Residential development
- Danbury Branch Railroad
- 100-year Flood Zone (Norwalk River)

RIGHT-OF-WAY DESCRIPTION

Right-of-Way ("ROW") Land Use & Resource Areas

- Maintained ROW
- 100-year Flood Zone at Structure 954

Water Resources

- Wetlands: W10, W11, W12 & W13
- Wetland Cover Types: PSS, PEM, PFO
- Watercourses: S5 – Norwalk River

Wetland and Watercourse Crossings

- Wetland W11 – Construction mats for work pad
- Wetland W12 – Construction mats for pull pad

Right-of-Way Vegetation

- Scrub-shrub
- Forbes and grasses
- Emergent wetland
- Forested edge

Access

- Structures 950-953: Danbury Road
- Structures 948-949: Arrowhead Road via Danbury Road

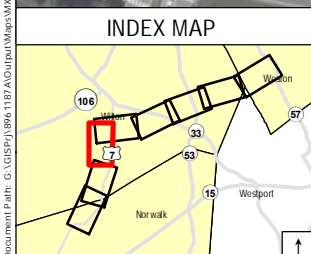
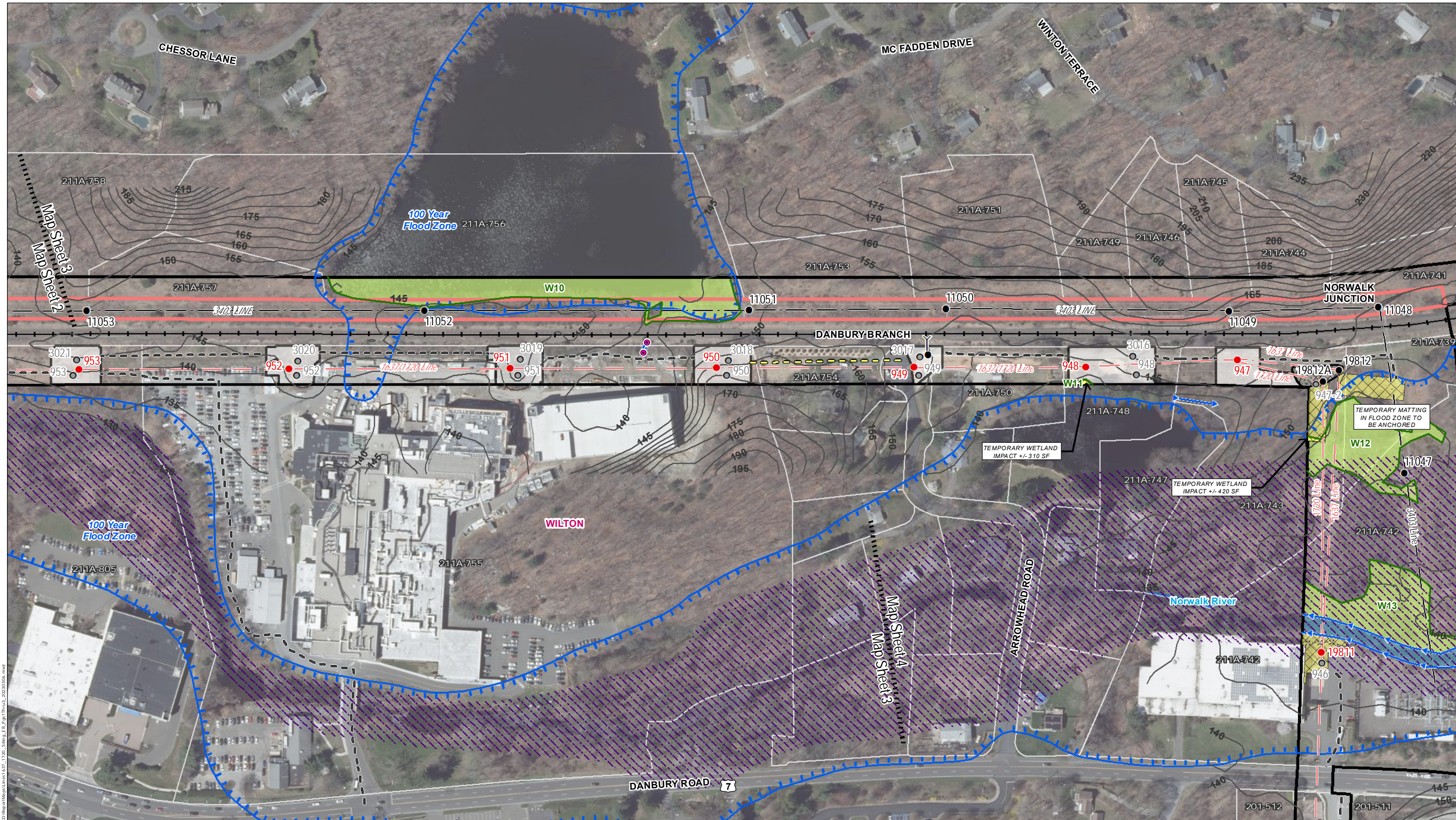
Road Crossings

- None.

Existing Right-of-Way Width

- Varies from 240 feet to 540 feet

ABUTTERS TO THE PROJECT RIGHT-OF-WAY			
<u>Line List Number</u>	<u>Parcel Address</u>	<u>Town</u>	<u>Owner Name</u>
211A-739	DANBURY RD	WILTON	STATE OF CONNECTICUT
211A-741	DANBURY RD	WILTON	STATE OF CONNECTICUT
211A-742	111 DANBURY RD	WILTON	CUBESMART LP
211A-743	DANBURY RD	WILTON	STATE OF CONNECTICUT
211A-744	23 WINTON TERRACE	WILTON	STATE OF CONNECTICUT
211A-745	21 WINTON TERRACE	WILTON	STATE OF CONNECTICUT
211A-746	19 WINTON TERRACE	WILTON	STATE OF CONNECTICUT
211A-747	20 ARROWHEAD RD	WILTON	ROBERT EMIL NOUZA REVOCABLE LIVING TRUST
211A-748	24 ARROWHEAD RD	WILTON	ARROWHEAD COMMUNITY ASSOCIATION
211A-749	17 WINTON TERRACE	WILTON	STATE OF CONNECTICUT
211A-750	40 ARROWHEAD RD	WILTON	PAMELA J MUSOR
211A-751	42 ARROWHEAD RD	WILTON	STATE OF CONNECTICUT
211A-753	41 ARROWHEAD RD	WILTON	STATE OF CONNECTICUT
211A-754	39 ARROWHEAD RD	WILTON	NICHOLAS J VARRONE
211A-755	77 DANBURY RD	WILTON	ASML US LLC
211A-756	PENN CENTRAL RAILROAD	WILTON	STATE OF CONNECTICUT
211A-757	PENN CENTRAL RAILROAD	WILTON	STATE OF CONNECTICUT
211A-758	KENT HILLS LN	WILTON	STATE OF CONNECTICUT
211A-805	59 DANBURY RD	WILTON	WILTON PROPERTIES RSK LLC



Legend	
● Existing Structure	— Existing Access
1637 Existing Structure Label	— Proposed Access
Existing Guy Anchor	— Off-ROW Access Pending Rights
○ Existing Structure to be Removed	Existing Gravel
● Proposed Structure	Stone Work Pad
1637 Proposed Structure Label	Temporary Construction Matting
— Existing Eversource Overhead Line	Delineated Intermittent Watercourse
— Proposed Eversource Overhead Line	Delineated Perennial Watercourse
Open Water	Natural Diversity Database Area (December 2022)
Delineated Wetland Boundary Outline	Aquifer Protection Area
Field Delineated Wetland	Area of Limited Tree Removal
Approximate Wetland (not delineated)	Line List Label
Watercourse (not delineated)	Line List Parcel
Approximate Open Water (not delineated)	Eversource Owned Property
FEMA 100-Year Flood Zone	Municipal Boundaries
FEMA Floodway	Existing Right-of-Way (ROW)
	○ Culvert
	Gate
	— Fence
	— 5' Contour Line

NO.	DATE	REVISIONS

EVERSOURCE

**1637/1720 Lines Rebuild Project
Petition Map Set**

Wilton, CT MAP SHEET 3 of 8

Date: March, 2023

BSC GROUP

THIS MAPPING PRODUCT HAS BEEN CREATED TO COMPLY WITH SUBMITTAL REQUIREMENTS TO OBTAIN CERTAIN REGULATORY APPROVALS AND, AS SUCH, THERE IS NO RELIANCE ON THE INFORMATION CONTAINED HEREIN FOR ANY OTHER PURPOSE.

MAP SHEET 04

**1637/1720 Lines Rebuild Project
Structures 19808-19812; 947-949
Town of Wilton, Connecticut**

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped forest
- Railroad west of ROW
- 100-year Flood Zone @ Structure 18808, 19809 & 19811

RIGHT-OF-WAY DESCRIPTION

Right-of-Way (“ROW”) Land Use & Resource Areas

- Maintained ROW
- Commercial development
- Residential development
- 100-year Flood Zone

Water Resources

- Wetlands: W11, W12, W13, W14, W15, W16 & W17
- Wetland Cover Types: PSS, PFO
- Watercourses: S5 – Norwalk River; S6 – Copts Brook

Wetland and Watercourse Crossings

- Wetland W12 – Construction mats for pull pad
- Wetland W14 – Construction mats for work pad @ Structure 19809
- Wetland W16 – Construction mats for access to Structure 19809
- Wetland W17 – Construction mats for access to and work pad @ Structure 19808
- Stream S6 – Construction mats for access to work areas

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structures 19812, 947-949: Arrowhead Road
- Structures 19810 & 19811 – Danbury Road
- Structures 19808 & 19809 – Clover Drive

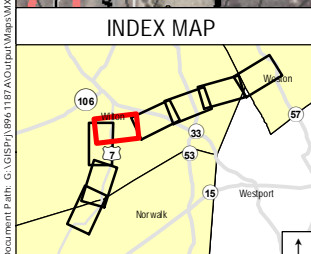
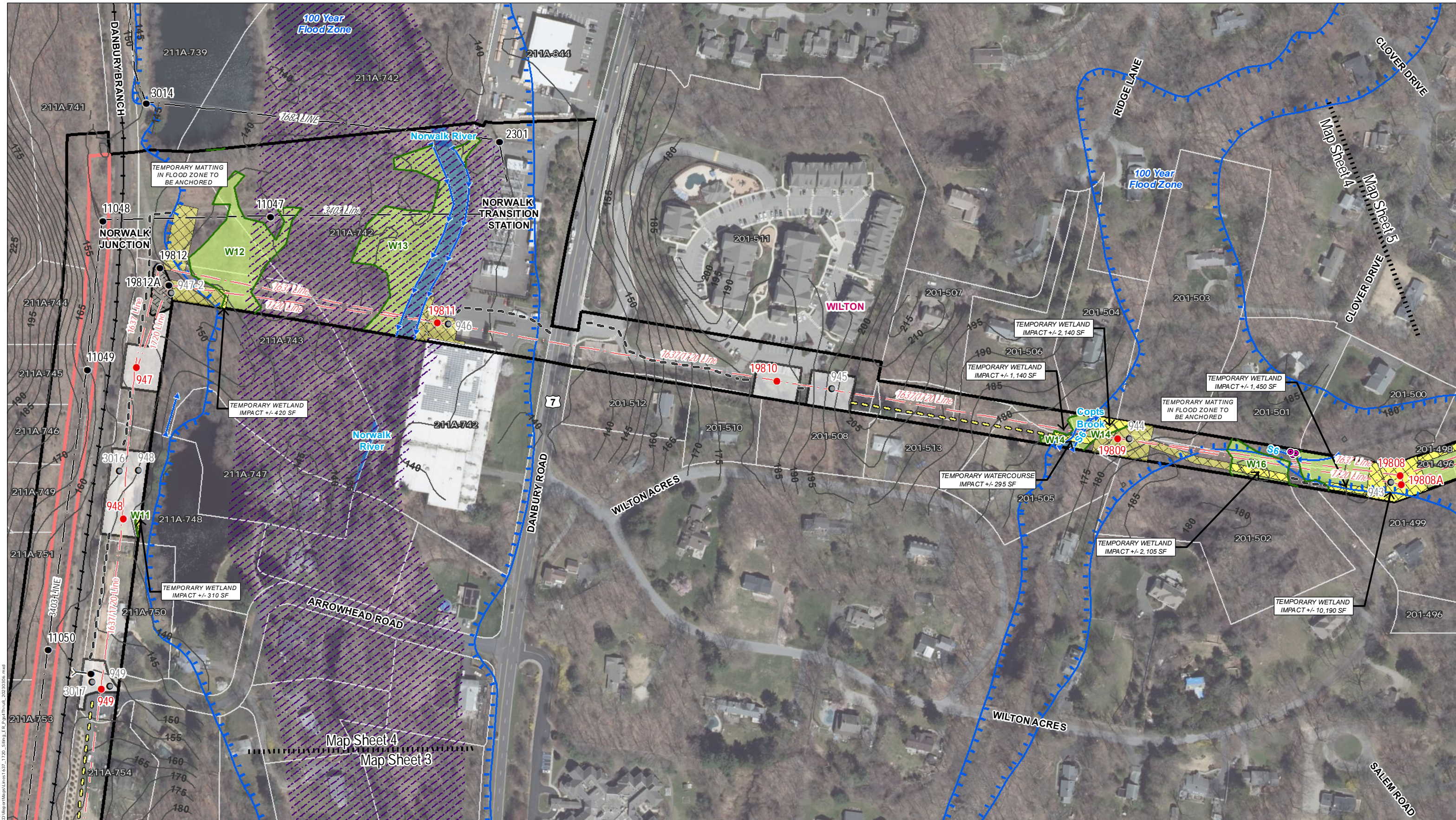
Road Crossings

- None.

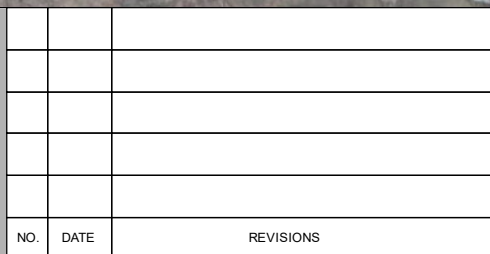
Existing Right-of-Way Width

- Varies from 80 feet to 540 feet

ABUTTERS TO THE PROJECT RIGHT-OF-WAY			
<u>Line List Number</u>	<u>Parcel Address</u>	<u>Town</u>	<u>Owner Name</u>
201-496	CLOVER DRIVE	WILTON	JOHN E DENNEEN
201-498	34 CLOVER DRIVE EXTENSION	WILTON	SANGITA KHANAL HARJINDER SINGH
201-499	34 WILTON ACRES	WILTON	IVENETH MCINTYRE
201-500	60 CLOVER DRIVE	WILTON	PETER T RUBSAM
201-501	56 CLOVER DRIVE	WILTON	CLAUDETTE HOLMES TR
201-502	CLOVER DRIVE	WILTON	WILTONLAND CONSERVATION TRUST
201-503	51 CLOVER DRIVE	WILTON	JASON COVIELLO
201-504	39 RIDGE LN	WILTON	HOSSEIN SADEGHI
201-505	5 WILTON ACRES	WILTON	ARJUN KRISHNA
201-506	37 RIDGE LN	WILTON	CHRISTOPHER S WILSON
201-507	35 RIDGE LN	WILTON	NAVAL CHOPRA
201-508	25 WILTON ACRES	WILTON	GENTIAN PIROLI
201-510	19 WILTON ACRES	WILTON	JAROSLAW BUKOWSKI
201-511	116 DANBURY RD	WILTON	REIF III DANBURY ROAD LLC
201-512	17 WILTON ACRES	WILTON	MARIUSZ MACIEIK
201-513	9 WILTON ACRES	WILTON	LILLIAN DAMAST TRUSTEE
211A-739	DANBURY RD	WILTON	STATE OF CONNECTICUT
211A-741	DANBURY RD	WILTON	STATE OF CONNECTICUT
211A-742	111 DANBURY RD	WILTON	CUBESMART LP
211A-743	DANBURY RD	WILTON	STATE OF CONNECTICUT
211A-744	23 WINTON TERRACE	WILTON	STATE OF CONNECTICUT
211A-745	21 WINTON TERRACE	WILTON	STATE OF CONNECTICUT
211A-746	19 WINTON TERRACE	WILTON	STATE OF CONNECTICUT
211A-747	20 ARROWHEAD RD	WILTON	ROBERT EMIL NOUZA REVOCABLE LIVING TRUST
211A-748	24 ARROWHEAD RD	WILTON	ARROWHEAD COMMUNITY ASSOCIATION
211A-749	17 WINTON TERRACE	WILTON	STATE OF CONNECTICUT
211A-750	40 ARROWHEAD RD	WILTON	PAMELA J MUSOR
211A-751	42 ARROWHEAD RD	WILTON	STATE OF CONNECTICUT
211A-753	41 ARROWHEAD RD	WILTON	STATE OF CONNECTICUT
211A-754	39 ARROWHEAD RD	WILTON	NICHOLAS J VARRONE
211A-755	77 DANBURY RD	WILTON	ASML US LLC
211A-844	129 RINGS END RD	WILTON	69-41 RING'S END INCORPORATED



Legend	
● Existing Structure	— Existing Access
1637 Existing Structure Label	— Proposed Access
⊙ Existing Guy Anchor	— Off-ROW Access Pending Rights
⊖ Existing Structure to be Removed	⊖ Existing Gravel
● Proposed Structure	⊖ Stone Work Pad
1637 Proposed Structure Label	⊖ Temporary Construction Matting
— Existing Eversource Overhead Line	— Delineated Intermittent Watercourse
— Proposed Eversource Overhead Line	— Delineated Perennial Watercourse
— Open Water	— Delineated Wetland Boundary Outline
— Field Delineated Wetland	— Field Delineated Wetland
— Approximate Wetland (not delineated)	— Approximate Wetland (not delineated)
— Watercourse (not delineated)	— Watercourse (not delineated)
— Approximate Open Water (not delineated)	— Approximate Open Water (not delineated)
— FEMA 100-Year Flood Zone	— FEMA 100-Year Flood Zone
— FEMA Floodway	— FEMA Floodway
— Natural Diversity Database Area (December 2022)	— Natural Diversity Database Area (December 2022)
— Aquifer Protection Area	— Aquifer Protection Area
— Area of Limited Tree Removal	— Area of Limited Tree Removal
— Eversource Owned Property	— Eversource Owned Property
— Line List Label	— Line List Label
— Line List Parcel	— Line List Parcel
— Municipal Boundaries	— Municipal Boundaries
— Existing Right-of-Way (ROW)	— Existing Right-of-Way (ROW)
— Culvert	— Culvert
— Gate	— Gate
— Fence	— Fence
— 5' Contour Line	— 5' Contour Line



EVERSOURCE

**1637/1720 Lines Rebuild Project
Petition Map Set**

Wilton, CT MAP SHEET 4 of 8

Date: March, 2023

BSC GROUP

NO.	DATE	REVISIONS

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MAP SHEET 05

**1637/1720 Lines Rebuild Project
Structures 19804 - 19808
Town of Wilton, Connecticut**

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped, forest
- Residential development
- 100-year Flood Zone (Copts Brook)

RIGHT-OF-WAY DESCRIPTION

Right-of-Way ("ROW") Land Use & Resource Areas

- Maintained ROW
- 100-year Flood Zone

Water Resources

- Wetlands: W17 & W18
- Wetland Cover Types: PSS, PFO
- Watercourses: S6 (Copts Brook) & S7 (Unnamed intermittent stream)

Wetland and Watercourse Crossings

- Wetland W17 – Construction mats for access and work pads; Structure Removal and Installation
- Stream S6 – Construction mats to span for access

Right-of-Way Vegetation

- Scrub-shrub
- Emergent wetland
- Forest

Access

- Structures 19805-19807: Westport Road
- Structure 19804: Wiston Drive
- Structure 19803: Cardinal Lane

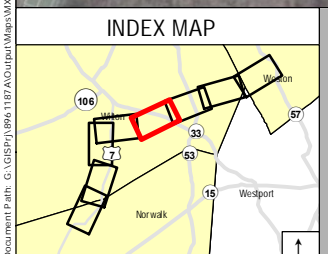
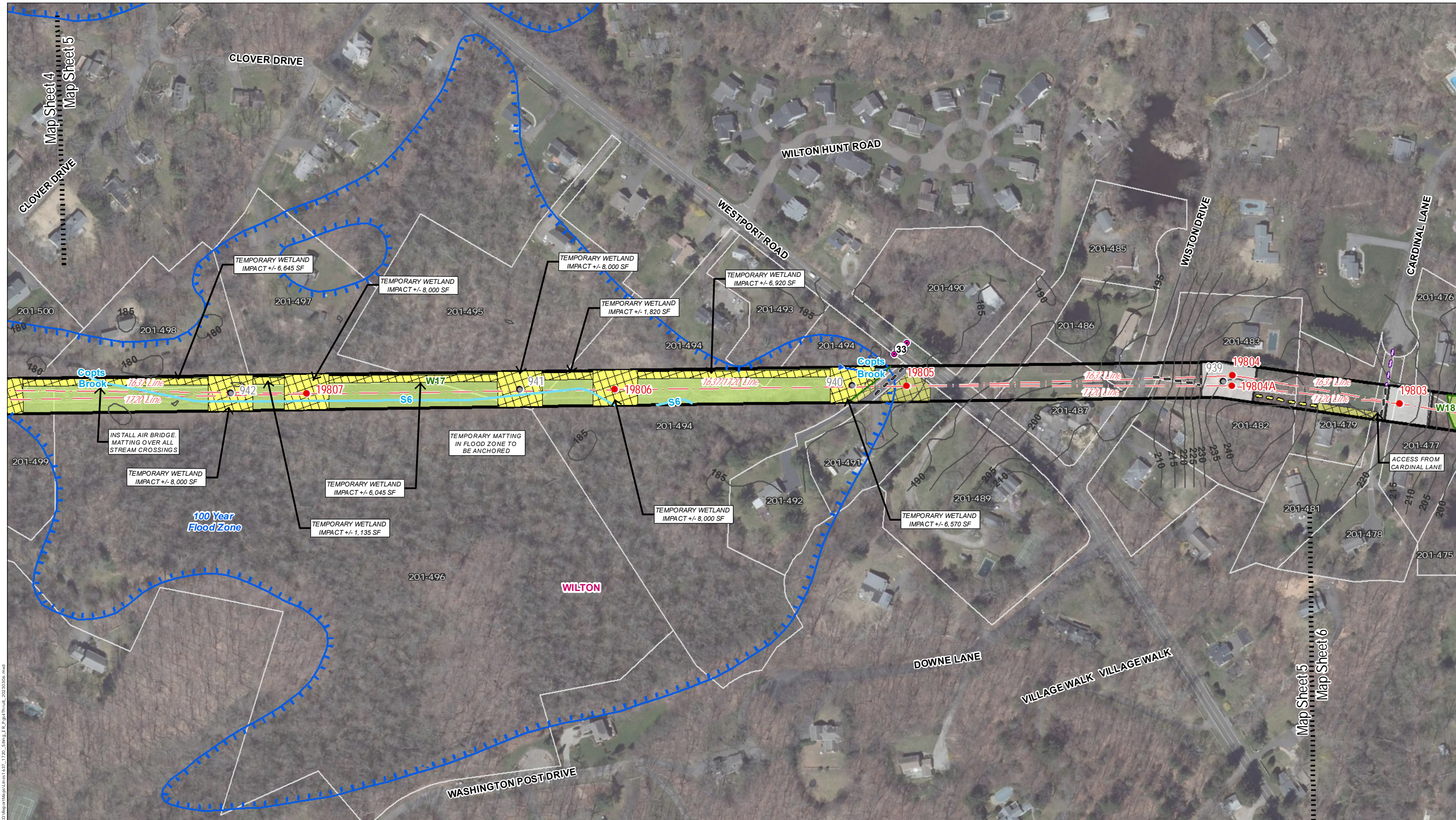
Road Crossings

- Westport Road & Wiston Drive

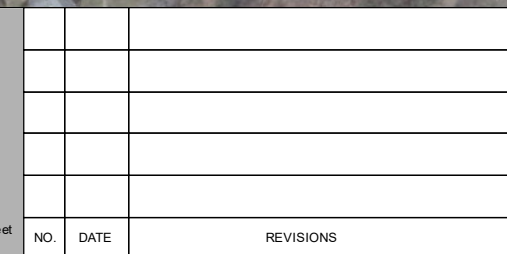
Existing Right-of-Way Width

- 80 feet

ABUTTERS TO THE PROJECT RIGHT-OF-WAY			
<u>Line List Number</u>	<u>Parcel Address</u>	<u>Town</u>	<u>Owner Name</u>
201-475	135 HEATHER LN	WILTON	LEONARD CALO
201-476	23 CARDINAL LN	WILTON	DANIELLE SCHREIBER
201-477	25 CARDINAL LN	WILTON	JACOB M JOHNSON
201-478	27 CARDINAL LN	WILTON	KEVIN J BAKKEN
201-479	26 CARDINAL LN	WILTON	JASON M O'DONNELL
201-481	28 CARDINAL LN	WILTON	ROBERTO RULLI
201-482	166 WESTPORT RD	WILTON	HELENE MIRIAM SAYEGH
201-483	164 WESTPORT RD	WILTON	DAVID R SMITH JR
201-485	148 WESTPORT RD	WILTON	JEFFREY D SOUTHMAYD
201-486	152 WESTPORT RD	WILTON	PETER T REED
201-487	150 WESTPORT RD	WILTON	PAULINE CILLEY GAMER
201-489	163 WESTPORT RD	WILTON	MICHAEL HOLMGREN
201-490	146 WESTPORT RD	WILTON	EUGENE D JONES
201-491	145 WESTPORT RD	WILTON	IDA EVERSON
201-492	143 WESTPORT RD	WILTON	PETER J WOOD
201-493	129 WESTPORT RD	WILTON	LAURINE K BROWDER
201-494	123 WESTPORT RD	WILTON	RICHARD A GRIMALDI
201-495	109 WESTPORT RD	WILTON	DEBORAH A MCFADDEN
201-496	CLOVER DRIVE	WILTON	JOHN E DENNEEN
201-497	33 CLOVER DRIVE EXTENSION	WILTON	VIATEUR BEGIN
201-498	34 CLOVER DRIVE EXTENSION	WILTON	SANGITA KHANAL HARJINDER SINGH
201-499	34 WILTON ACRES	WILTON	IVENETH MCINTYRE
201-500	60 CLOVER DRIVE	WILTON	PETER T RUBSAM



Legend	
● Existing Structure	— Existing Access
1637 Existing Structure Label	— Proposed Access
Existing Guy Anchor	— Off-ROW Access Pending Rights
○ Existing Structure to be Removed	Existing Gravel
● Proposed Structure	Stone Work Pad
1637 Proposed Structure Label	Temporary Construction Matting
— Existing Eversource Overhead Line	Delineated Intermittent Watercourse
— Proposed Eversource Overhead Line	Delineated Perennial Watercourse
Open Water	Natural Diversity Database Area (December 2022)
Delineated Wetland Boundary Outline	Aquifer Protection Area
Field Delineated Wetland	Area of Limited Tree Removal
Approximate Wetland (not delineated)	Eversource Owned Property
Watercourse (not delineated)	Line List Label
Approximate Open Water (not delineated)	Line List Parcel
FEMA 100-Year Flood Zone	Municipal Boundaries
FEMA Floodway	Existing Right-of-Way (ROW)
○ Culvert	Gate
— Fence	5' Contour Line



EVERSOURCE

**1637/1720 Lines Rebuild Project
Petition Map Set**

Wilton, CT MAP SHEET 5 of 8

Date: March, 2023

NO.	DATE	REVISIONS

BSC GROUP

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MAP SHEET 06

**1637/1720 Lines Rebuild Project
Structures 19799 - 19803
Town of Wilton, Connecticut**

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped, forest
- Residential development

RIGHT-OF-WAY DESCRIPTION

Right-of-Way ("ROW") Land Use & Resource Areas

- Maintained ROW
- Eversource-owned property
- Managed lawn

Water Resources

- Wetlands: W18 & W19
- Wetland Cover Types: PSS, PEM & PFO
- Watercourses: Stream S7

Wetland and Watercourse Crossings

- None

Right-of-Way Vegetation

- Scrub-shrub
- Managed lawn/residential landscaping

Access

- Structure 19799: Rivergate Drive
- Structure 19800: Chestnut Hill Road
- Structure 19801: Spoonwood Drive
- Structure 19802: Heather Lane
- Structure 19803: Cardinal Lane

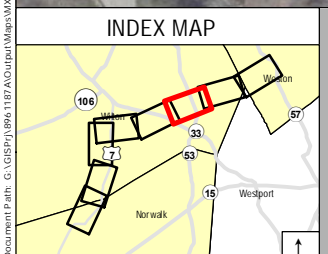
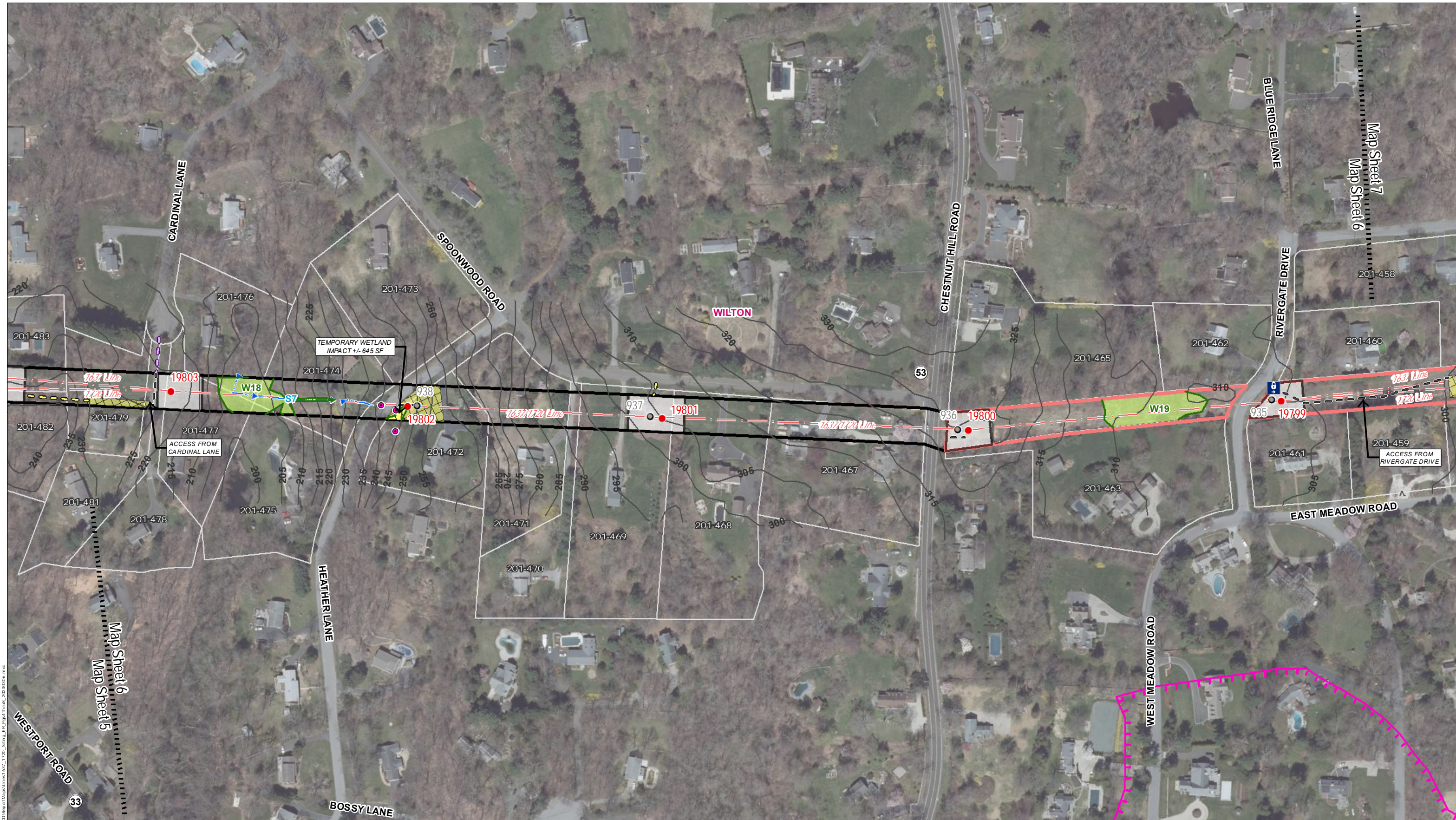
Road Crossings

- Rivergate Drive, Chestnut Hill Road and Heather Lane

Existing Right-of-Way Width

- Varies from 70 feet to 80 feet

ABUTTERS TO THE PROJECT RIGHT-OF-WAY			
<u>Line List Number</u>	<u>Parcel Address</u>	<u>Town</u>	<u>Owner Name</u>
201-457	85 EAST MEADOW RD	WILTON	JEFFREY A BURKI
201-458	31 RIVERGATE DRIVE	WILTON	J BRUCE IPE
201-459	93 EAST MEADOW RD	WILTON	LUCIA MANNINI
201-460	15 RIVERGATE DRIVE	WILTON	MICHAEL J BRAGG
201-461	39 WEST MEADOW RD	WILTON	PAULINE B PREVETT
201-462	16 RIVERGATE DRIVE	WILTON	NICKOLAS PATURYNSKI
201-463	31 WEST MEADOW RD	WILTON	JOSEPH PRESTO
201-465	156 CHESTNUT HILL RD	WILTON	STEVEN J BROWN
201-467	143 CHESTNUT HILL RD	WILTON	DONALD B WHITE
201-468	17 SPOONWOOD RD	WILTON	RICHARD J BARONE
201-469	25 SPOONWOOD RD	WILTON	JHONELLE PRINCE
201-470	29 SPOONWOOD RD	WILTON	IVELINA BUYUKLIEVA
201-471	33 SPOONWOOD RD	WILTON	FRANK NAPOLITANO
201-472	126 HEATHER LN	WILTON	NICOLE J FORBES
201-473	47 SPOONWOOD RD	WILTON	JAKOB P SWEETERS
201-474	125 HEATHER LN	WILTON	LINDA WILOCK
201-475	135 HEATHER LN	WILTON	LEONARD CALO
201-476	23 CARDINAL LN	WILTON	DANIELLE SCHREIBER
201-477	25 CARDINAL LN	WILTON	JACOB M JOHNSON
201-478	27 CARDINAL LN	WILTON	KEVIN J BAKKEN
201-479	26 CARDINAL LN	WILTON	JASON M O'DONNELL
201-481	28 CARDINAL LN	WILTON	ROBERTO RULLI
201-482	166 WESTPORT RD	WILTON	HELENE MIRIAM SAYEGH
201-483	164 WESTPORT RD	WILTON	DAVID R SMITH JR



Legend	
● Existing Structure	— Existing Access
1637 Existing Structure Label	— Proposed Access
Existing Guy Anchor	— Off-ROW Access Pending Rights
Existing Structure to be Removed	Existing Gravel
● Proposed Structure	Stone Work Pad
1637 Proposed Structure Label	Temporary Construction Matting
Existing Eversource Overhead Line	Delineated Intermittent Watercourse
Proposed Eversource Overhead Line	Delineated Perennial Watercourse
Open Water	Natural Diversity Database Area (December 2022)
Delineated Wetland Boundary Outline	Aquifer Protection Area
Field Delineated Wetland	Area of Limited Tree Removal
Approximate Wetland (not delineated)	Eversource Owned Property
Watercourse (not delineated)	Line List Label
Approximate Open Water (not delineated)	Line List Parcel
FEMA 100-Year Flood Zone	Municipal Boundaries
FEMA Floodway	Existing Right-of-Way (ROW)
○ Culvert	— 5' Contour Line
Gate	
— Fence	

NO.	DATE	REVISIONS

EVERSOURCE

**1637/1720 Lines Rebuild Project
Petition Map Set**

Wilton, CT MAP SHEET 6 of 8

Date: March, 2023

BSC GROUP

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MAP SHEET 07

**1637/1720 Lines Rebuild Project
Structures 19794 - 19799
Town of Wilton, Connecticut**

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped, forest
- Residential development
- 100-year Flood Zone (West Branch Saugatuck River)
- Eversource Owned Property

RIGHT-OF-WAY DESCRIPTION

Right-of-Way ("ROW") Land Use & Resource Areas

- Maintained ROW
- Eversource Owned Property (Structures 19797 to 19799)

Water Resources

- Wetlands: W20, W21 & W22
- Wetland Cover Types: PSS/PEM
- Watercourses: Stream S8 (West Branch Saugatuck River); S9

Wetland and Watercourse Crossings

- None

Right-of-Way Vegetation

- Scrub-shrub
- Forest

Access

- Structures 19794 & 19795: Cavalry Road
- Structures 19796: Newtown Turnpike
- Structures 19797 - 19799: Blueridge Lane

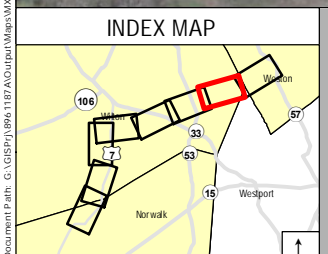
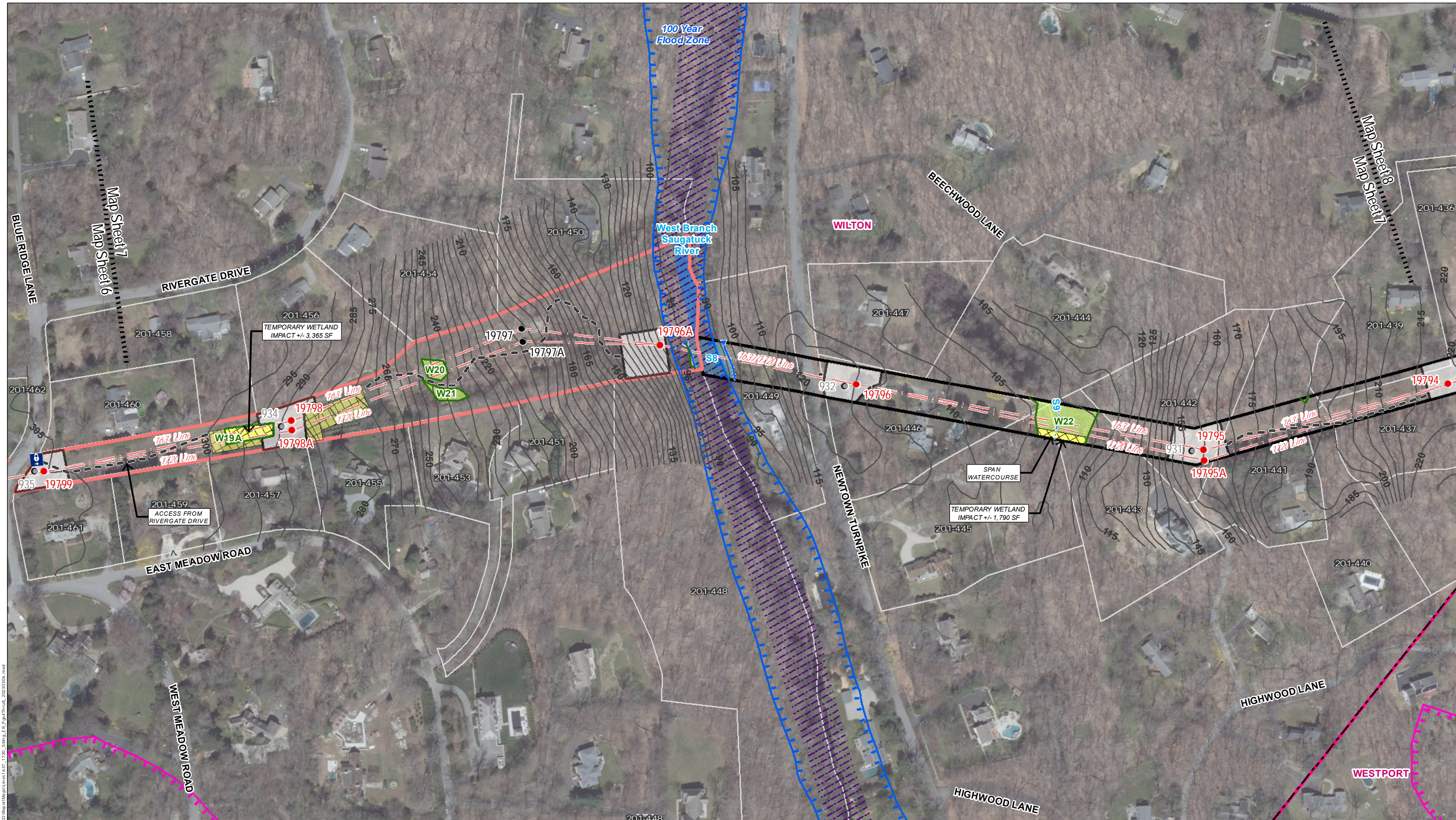
Road Crossings

- Blueridge Lane
- Newtown Turnpike

Existing Right-of-Way Width

- Varies from 80 feet to 275 feet

ABUTTERS TO THE PROJECT RIGHT-OF-WAY			
<u>Line List Number</u>	<u>Parcel Address</u>	<u>Town</u>	<u>Owner Name</u>
201-436	129 CAVALRY RD	WILTON	ANGELO CALISE EST OF
201-437	117 CAVALRY RD	WILTON	ANTHONY A IORFINO
201-439	141 CAVALRY RD	WILTON	RAYMOND P SILLIERE
201-440	7 HIGHWOOD LN	WILTON	ULYANA FILINSKYY
201-441	1 HIGHWOOD LN	WILTON	JUNG SUN YI
201-442	3 HIGHWOOD LN	WILTON	WIFRIDO FABRICIO DEL SALTO TR
201-443	9 HIGHWOOD LN	WILTON	MG HIGHWOOD LLC
201-444	270 NEWTOWN TURNPIKE	WILTON	NOAH LITTIN
201-445	240 NEWTOWN TURNPIKE	WILTON	BETSY E TURNER
201-446	250 NEWTOWN TURNPIKE	WILTON	HOWARD M DUVAL IV
201-447	258 NEWTOWN TURNPIKE	WILTON	JEFY CHACKO
201-448	17 WOODWAY LN	WILTON	SCOTT MOGELOF
201-449	249 NEWTOWN TURNPIKE	WILTON	DIANE SCHWARTZ
201-450	151 RIVERGATE DRIVE	WILTON	CARLO VALENTE
201-451	71 EAST MEADOW RD	WILTON	MICHAEL J DUGAN
201-453	73 EAST MEADOW RD	WILTON	LORENZO DIURNO
201-454	49 RIVERGATE DRIVE	WILTON	SOM DEV
201-455	79 EAST MEADOW RD	WILTON	WILLIAM E MARTIN
201-456	43 RIVERGATE DRIVE	WILTON	ROGER LEVY
201-457	85 EAST MEADOW RD	WILTON	JEFFREY A BURKI
201-458	31 RIVERGATE DRIVE	WILTON	J BRUCE IPE
201-459	93 EAST MEADOW RD	WILTON	LUCIA MANNINI
201-460	15 RIVERGATE DRIVE	WILTON	MICHAEL J BRAGG
201-461	39 WEST MEADOW RD	WILTON	PAULINE B PREVETT
201-462	16 RIVERGATE DRIVE	WILTON	NICKOLAS PATURYNSKI



Legend	
● Existing Structure	— Existing Access
1637 Existing Structure Label	— Proposed Access
⊕ Existing Guy Anchor	— Off-ROW Access Pending Rights
⊖ Existing Structure to be Removed	⊠ Existing Gravel
● Proposed Structure	⊠ Stone Work Pad
1637 Proposed Structure Label	⊠ Temporary Construction Matting
— Existing Eversource Overhead Line	— Delineated Intermittent Watercourse
— Proposed Eversource Overhead Line	— Delineated Perennial Watercourse
— Open Water	— Delineated Wetland Boundary Outline
— Field Delineated Wetland	— Approximate Wetland (not delineated)
— Approximate Wetland (not delineated)	— Watercourse (not delineated)
— Approximate Open Water (not delineated)	— FEMA 100-Year Flood Zone
— FEMA 100-Year Flood Zone	— FEMA Floodway
— Natural Diversity Database Area (December 2022)	— Aquifer Protection Area
— Area of Limited Tree Removal	— Eversource Owned Property
— Line List Label	— Line List Parcel
— Municipal Boundaries	— Existing Right-of-Way (ROW)
— Culvert	— Gate
— Fence	— 5' Contour Line

NO.	DATE	REVISIONS

EVERSOURCE

**1637/1720 Lines Rebuild Project
Petition Map Set**

Wilton, CT MAP SHEET 7 of 8

Date: March, 2023

BSC GROUP

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MAP SHEET 08

**1637/1720 Lines Rebuild Project
Structures 19791 - 19794
Town of Wilton & Weston, Connecticut**

AREA DESCRIPTION

Existing Land Use & Resource Areas

- Undeveloped, forest
- Residential
- Eversource Owned Property
- Aquifer Protection Area

RIGHT-OF-WAY DESCRIPTION

Right-of-Way ("ROW") Land Use & Resource Areas

- Maintained ROW
- Eversource Owned Property (Weston Substation)
- Aquifer Protection Area at Structures 19791 and access

Water Resources

- Wetlands: W23 & W24
- Wetland Cover Types: PSS, PFO
- Watercourses: S10 & S11

Wetland and Watercourse Crossings

- Wetland W23 – Construction mats for access to work areas
- Wetland W24 – Construction mats for access to work areas
- Stream S10 – Construction mats for access to work areas
- Stream S11 – Construction mats for access to work areas

Right-of-Way Vegetation

- Scrub-shrub
- Forbs and grasses

Access

- Structures 19790 & 19791: Off-ROW access from Old Weston Road
- Structures 19792 - 19794 – Cavalry Road

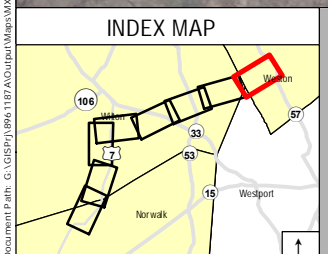
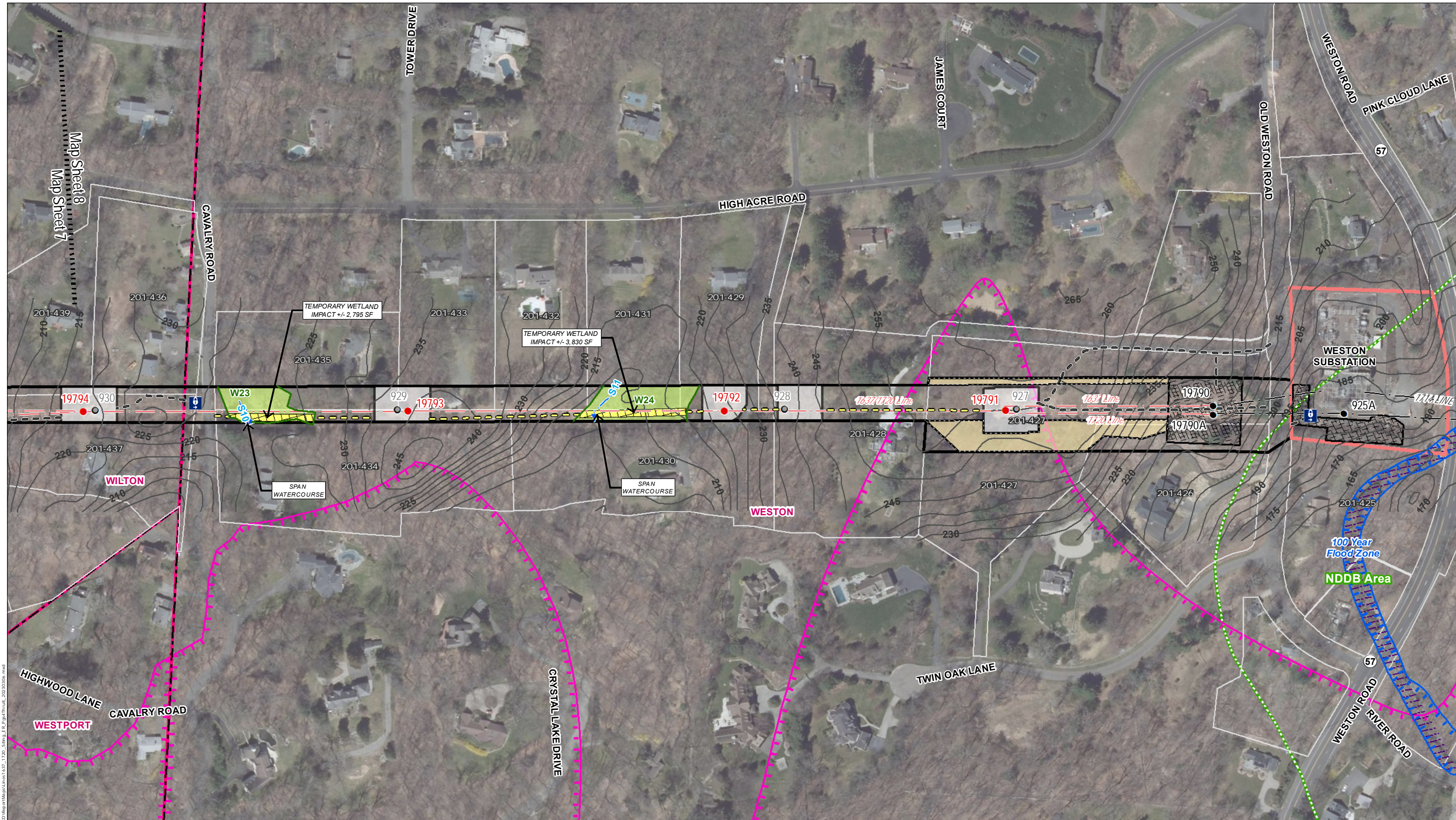
Road Crossings

- Old Weston Road
- Cavalry Road

Existing Right-of-Way Width

- Varies from 80 feet to 165 feet

ABUTTERS TO THE PROJECT RIGHT-OF-WAY			
<u>Line List Number</u>	<u>Parcel Address</u>	<u>Town</u>	<u>Owner Name</u>
201-423	WESTON RD	WESTON	JANE E SHERMAN TR
201-425	5 OLD WESTON RD	WESTON	DHANA LAKSHMI LOLUGU
201-426	1 TWIN OAK LN	WESTON	HOWARD ADAMS LAW IV.
201-427	15 TWIN OAK LN	WESTON	SANDRA L RUIZ
201-428	16 OLD WESTON RD	WESTON	ANDREW LEARY
201-429	26 HIGH ACRE RD	WESTON	CHRISTOPHER PARZYCH
201-430	24 HIGH ACRE RD	WESTON	ADAM KESLOWITZ
201-431	30 HIGH ACRE RD	WESTON	BEDROS NAHABEDIAN
201-432	36 HIGH ACRE RD	WESTON	DOUGLAS LOVETT
201-433	38 HIGH ACRE RD	WESTON	JULIE DE ALMEIDA
201-434	83 CAVALRY RD	WESTON	TRACY K NALBANDIAN
201-435	87 CAVALRY RD	WESTON	RICO LORI ALEKS
201-436	129 CAVALRY RD	WILTON	ANGELO CALISE EST OF
201-437	117 CAVALRY RD	WILTON	ANTHONY A IORFINO
201-439	141 CAVALRY RD	WILTON	RAYMOND P SILLIERE



Legend	
● Existing Structure	— Existing Access
1637 Existing Structure Label	— Proposed Access
Existing Guy Anchor	— Off-ROW Access Pending Rights
○ Existing Structure to be Removed	Existing Gravel
● Proposed Structure	Stone Work Pad
1637 Proposed Structure Label	Temporary Construction Matting
— Existing Eversource Overhead Line	Delineated Intermittent Watercourse
— Proposed Eversource Overhead Line	Delineated Perennial Watercourse
Open Water	Natural Diversity Database Area (December 2022)
Delineated Wetland Boundary Outline	Aquifer Protection Area
Field Delineated Wetland	Area of Limited Tree Removal
Approximate Wetland (not delineated)	Eversource Owned Property
Watercourse (not delineated)	Line List Label
Approximate Open Water (not delineated)	Line List Parcel
FEMA 100-Year Flood Zone	Municipal Boundaries
FEMA Floodway	Existing Right-of-Way (ROW)
○ Culvert	— 5' Contour Line
Gate	
— Fence	

NO.	DATE	REVISIONS

EVERSOURCE

**1637/1720 Lines Rebuild Project
Petition Map Set**

Wilton & Weston, CT MAP SHEET 8 of 8

Date: March, 2023

BSC GROUP

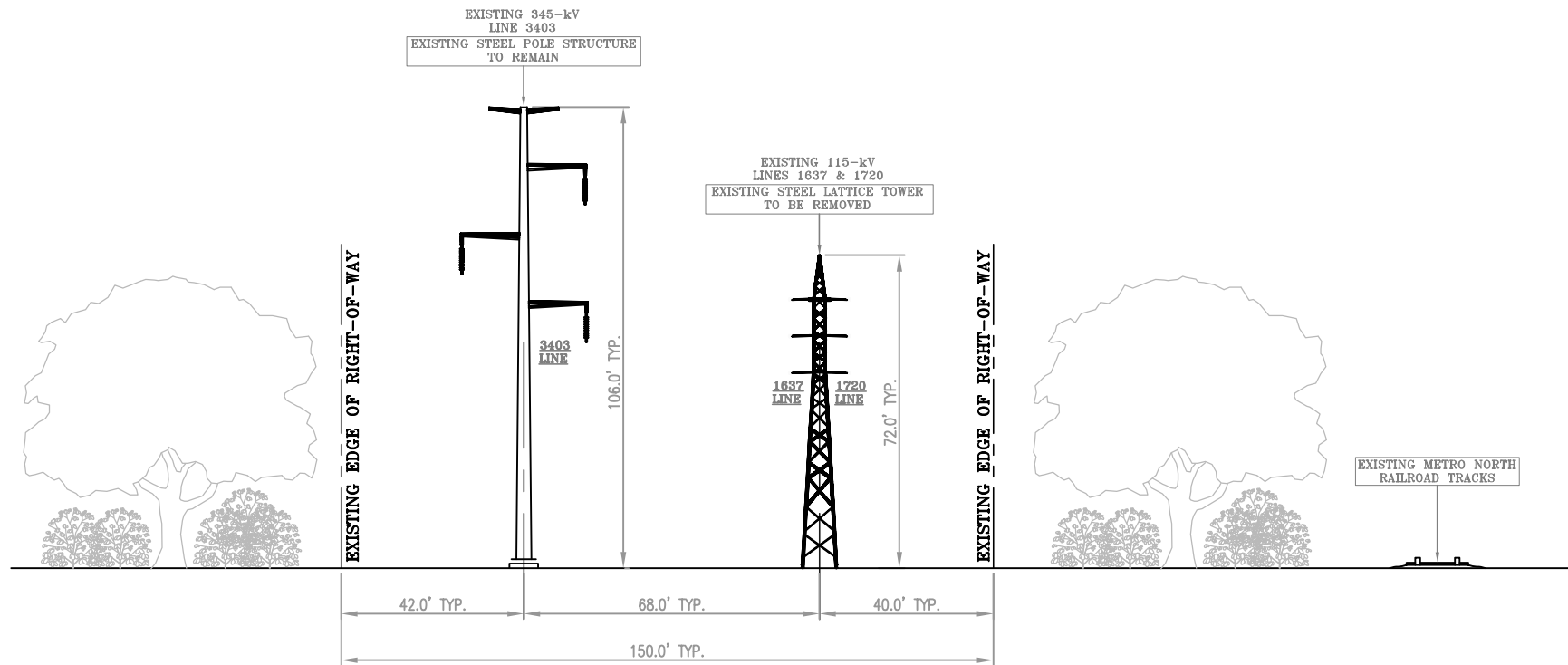
THIS MAPPING PRODUCT HAS BEEN CREATED TO COMPLY WITH SUBMITTAL REQUIREMENTS TO OBTAIN CERTAIN REGULATORY APPROVALS AND, AS SUCH, THERE IS NO RELIANCE ON THE INFORMATION CONTAINED HEREIN FOR ANY OTHER PURPOSE.

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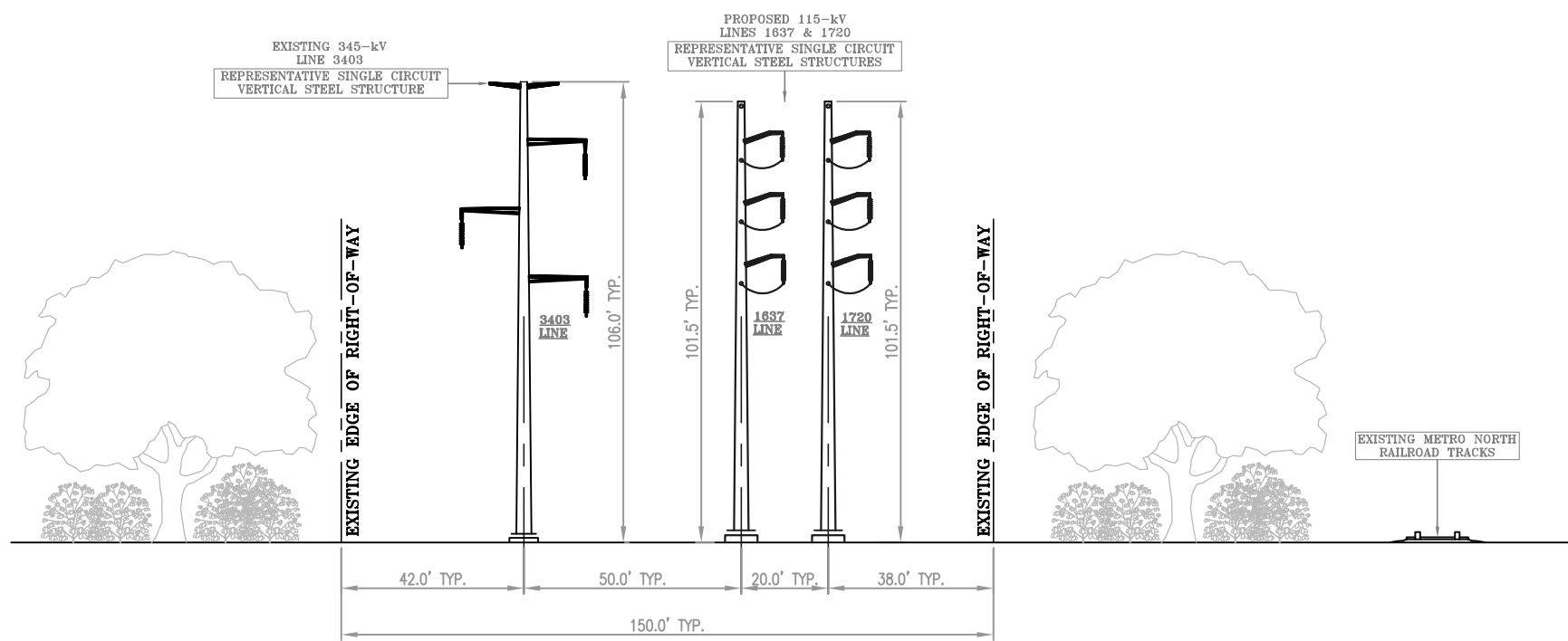
Attachment C
1637/1720 Lines Rebuild Project
Right-of-Way Cross Sections

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2/28/2023 5:37 PM - C:\Users\Gibbs\OneDrive\Desktop\PLS Projects\EVERSOURCE\Wilton to Norwalk\Cross Sections\Revision 4 - Scoted DWG's - 02-28-23\1637-1720 CS - 01064-8502-p001 - Deadend.dwg - Construction-All ES VER: 05/2015



**EXISTING R.O.W. CONFIGURATION
TYPICAL DOUBLE CIRCUIT STEEL LATTICE TOWER DESIGN
LOOKING FROM GRIST MILL RD. TO NORWALK JCT.
IN THE TOWNS OF NORWALK & WILTON CT**



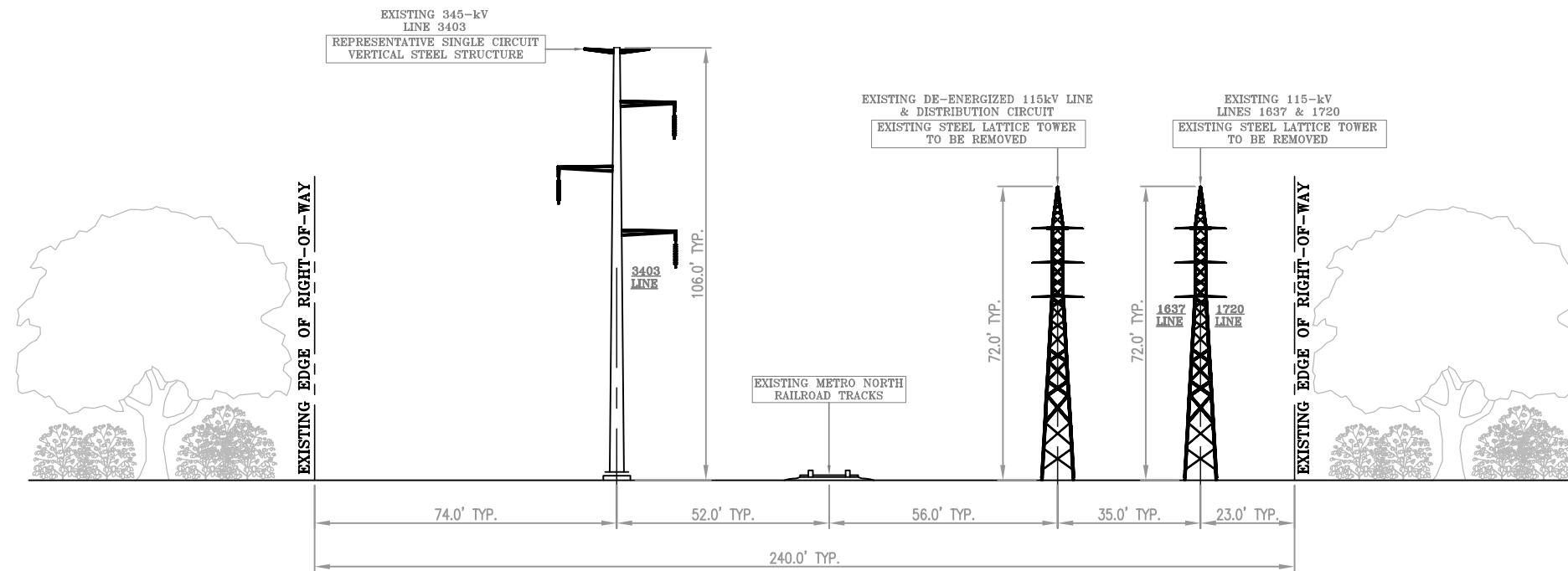
**PROPOSED R.O.W. CONFIGURATION
TYPICAL SINGLE CIRCUIT STEEL POLE DESIGN
LOOKING FROM GRIST MILL RD. TO NORWALK JCT.
IN THE TOWNS OF NORWALK & WILTON, CT**

NOTE:
LINE ARRESTERS TO BE
ADDED AS REQUIRED

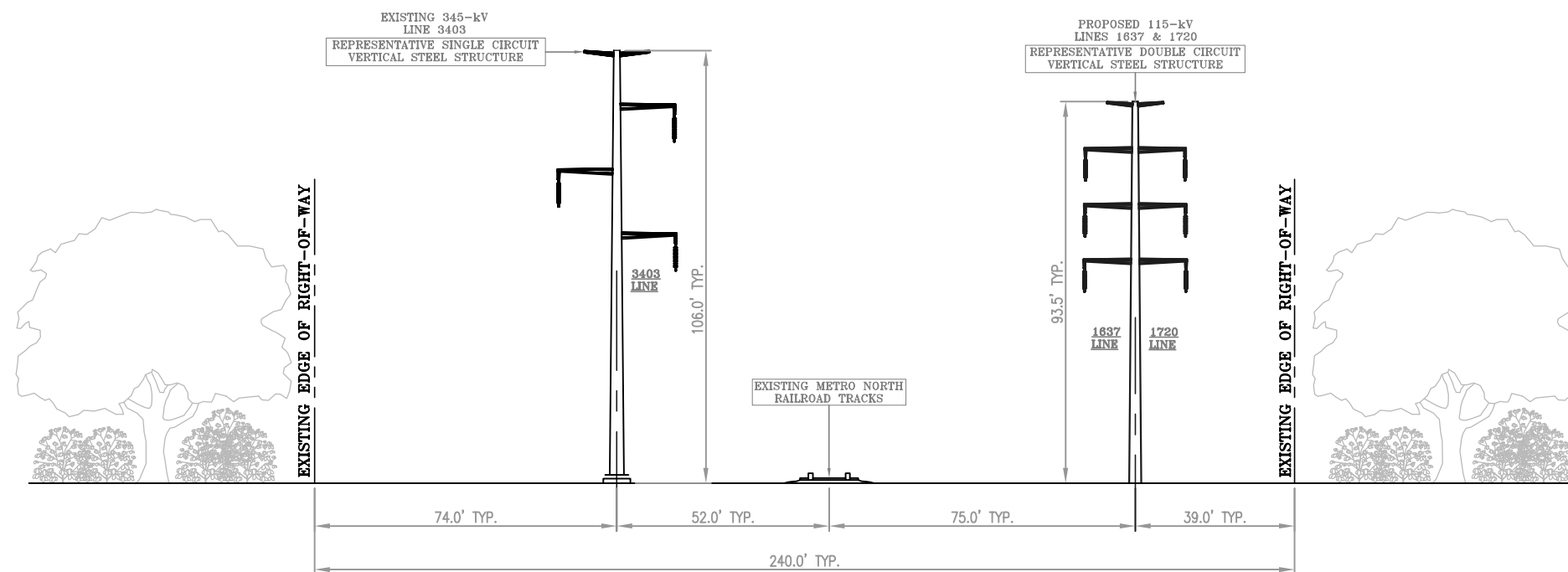
XS-1

EVERSOURCE ENERGY					
FILE: GRIST MILL RD. - NORWALK JCT. 115-kV TRANSMISSION LINES 1637/1720 RIGHT OF WAY CROSS SECTION NORWALK & WILTON, CT					
BY	GJC	DRW	JFAP	APP	JFAP
DATE	02/28/23	DATE	02/28/23	DATE	02/28/23
H-SCALE	N.T.S.	SIZE	D	FIELD BOOK & PAGES	
V-SCALE	N.T.S.	V.S.		S.E. DWG	
S.E. PROJ. NUMBER	03140646			DWG NO. 01064-8502p001	

ES: VER: 05/2015
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EXISTING R.O.W. CONFIGURATION
TYPICAL DOUBLE CIRCUIT STEEL LATTICE TOWER DESIGN
LOOKING FROM GRIST MILL RD. TO NORWALK JCT.
IN THE TOWNS OF NORWALK & WILTON, CT

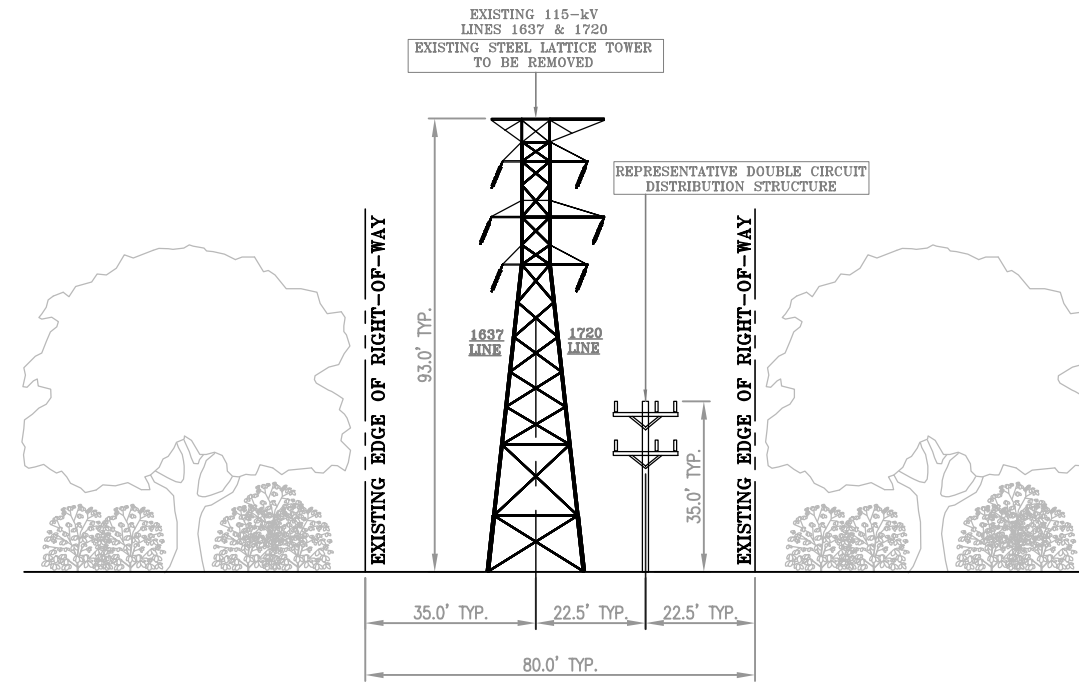


PROPOSED R.O.W. CONFIGURATION
TYPICAL DOUBLE CIRCUIT STEEL POLE DESIGN
LOOKING FROM GRIST MILL RD. TO NORWALK JCT.
IN THE TOWNS OF NORWALK & WILTON, CT

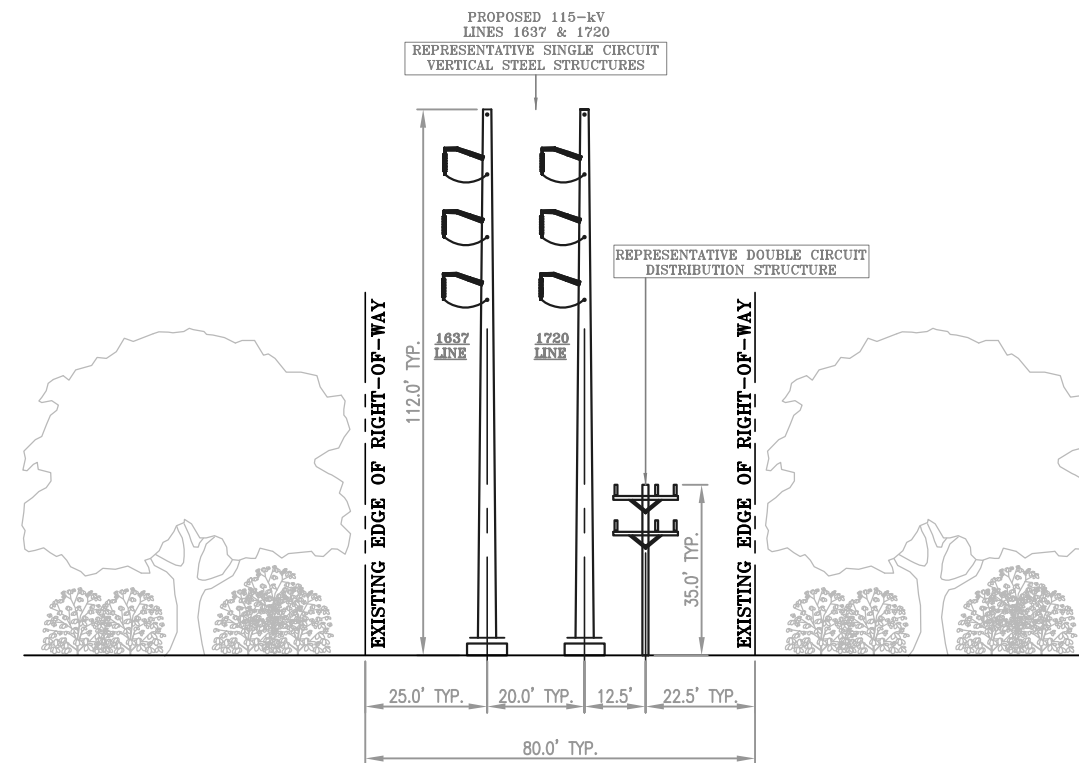
NOTE:
 LINE ARRESTERS TO BE
 ADDED AS REQUIRED

XS-2

EVERSOURCE ENERGY				
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BY: GJG	DRW: JFAP	APP: JFAP	APP:	
DATE: 02/28/23	DATE: 02/28/23	DATE: 02/28/23	DATE:	
H-SCALE: N.T.S.	SIZE: D	FIELD BOOK & PAGES		
V-SCALE: N.T.S.	V.S.	R.E. DRW		
R.E. PROJ. NUMBER: 03140646	DRW NO.: 01064-85002p002			



**EXISTING R.O.W. CONFIGURATION
TYPICAL DOUBLE CIRCUIT STEEL LATTICE TOWER DESIGN
LOOKING FROM NORWALK JCT. TO WESTON S/S.
IN THE TOWNS OF WILTON & WESTON, CT**



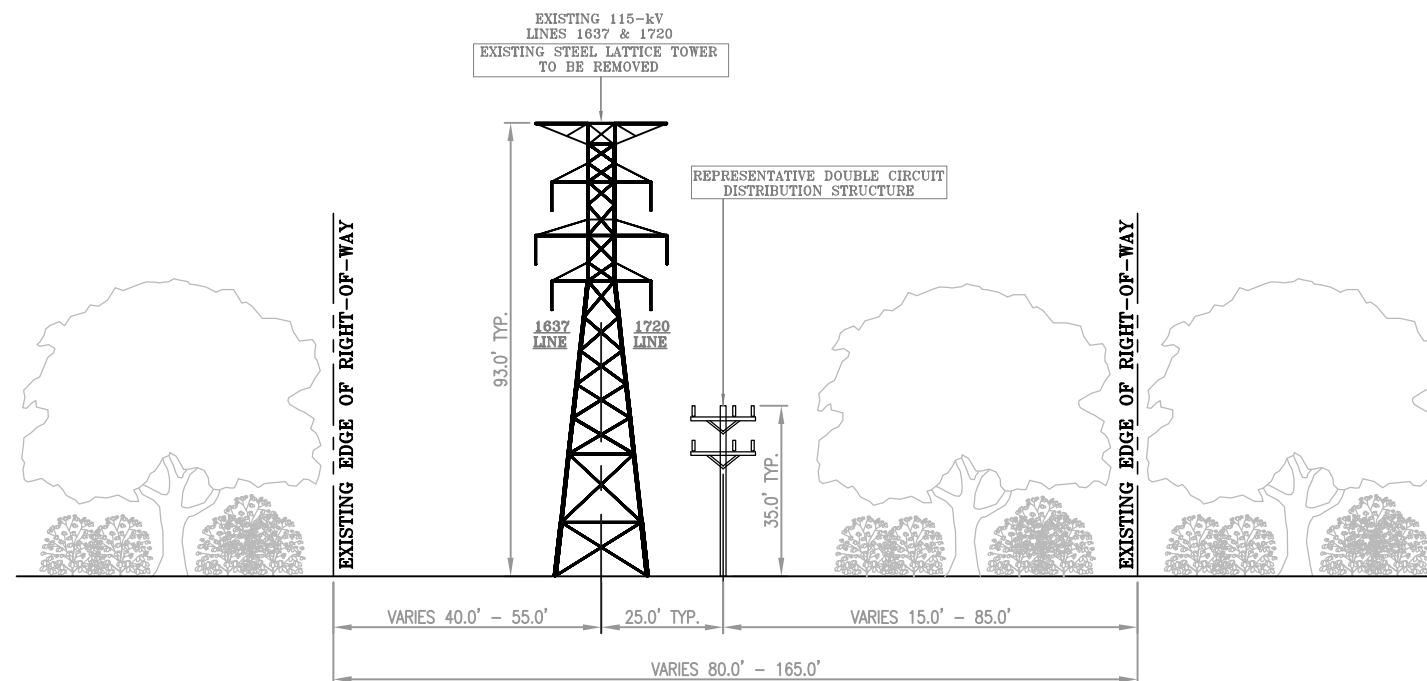
**PROPOSED R.O.W. CONFIGURATION
TYPICAL SINGLE CIRCUIT STEEL POLE DESIGN
LOOKING FROM NORWALK JCT. TO WESTON S/S.
IN THE TOWNS OF WILTON & WESTON, CT**

NOTE:
LINE ARRESTERS TO BE
ADDED AS REQUIRED

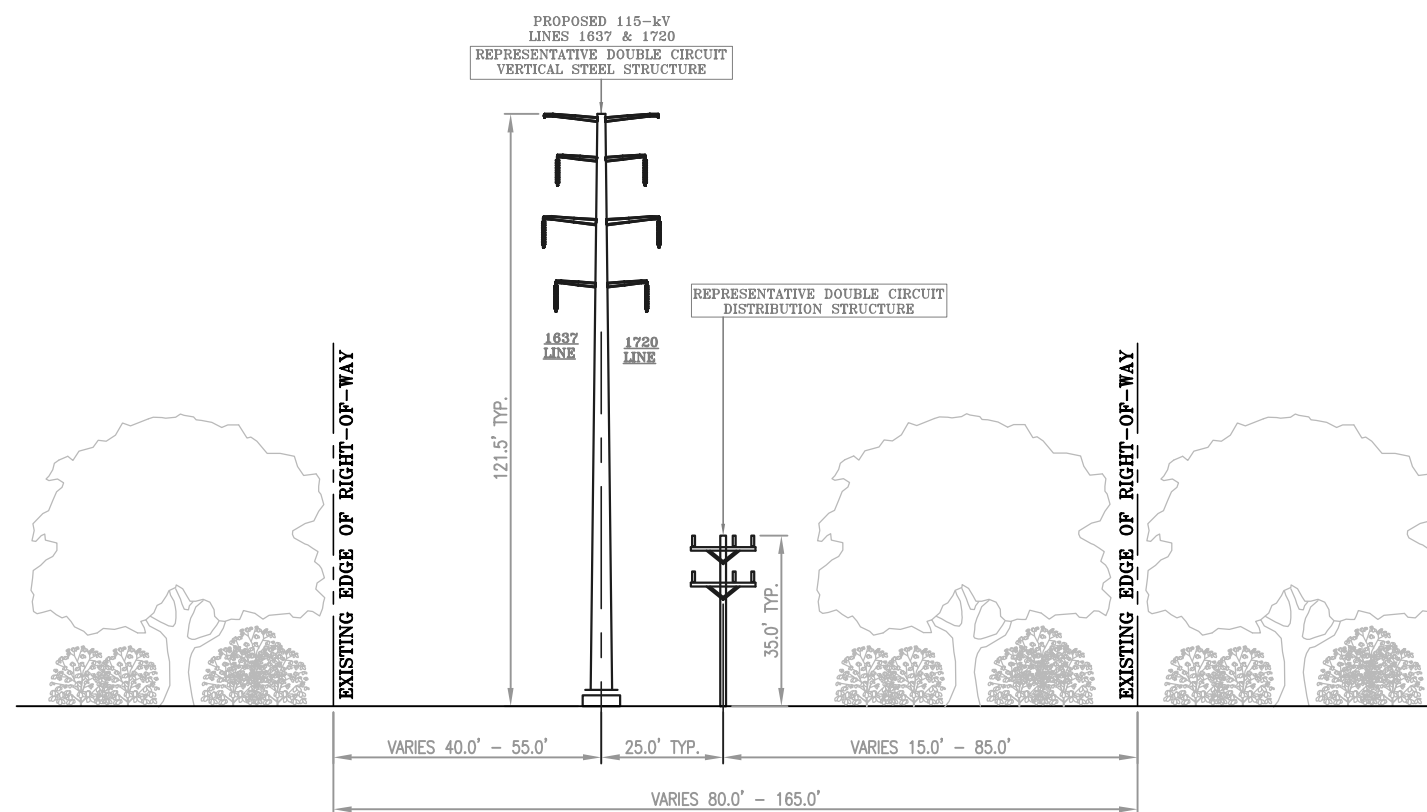
XS-3

EVERSOURCE ENERGY				
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BY	GJC	DRW	JFAP	APP
DATE	02/28/23	DATE	02/28/23	DATE
H-SCALE	N.T.S.	SIZE	D	FIELD BOOK & PAGES
V-SCALE	N.T.S.	V.S.		R.E. DRW
R.E. PROJ. NUMBER	03140646	DRW NO.	01002-85005p001	

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 ES: VER: 05/2015



**EXISTING R.O.W. CONFIGURATION
TYPICAL DOUBLE CIRCUIT STEEL LATTICE TOWER DESIGN
LOOKING FROM NORWALK JCT. TO WESTON S/S.
IN THE TOWNS OF WILTON & WESTON, CT**



**PROPOSED R.O.W. CONFIGURATION
TYPICAL DOUBLE CIRCUIT STEEL POLE DESIGN
LOOKING FROM NORWALK JCT. TO WESTON S/S.
IN THE TOWNS OF WILTON & WESTON, CT**

NOTE:
LINE ARRESTERS TO BE
ADDED AS REQUIRED

XS-4

EVERSOURCE ENERGY				
NORWALK JCT. - WESTON S/S 115-kV TRANSMISSION LINES 1637/1720 RIGHT OF WAY CROSS SECTION WILTON & WESTON, CT				
BY	GJC	CHKD	JFAP	APP
DATE	02/28/23	DATE	02/28/23	DATE
H-SCALE	N.T.S.	SIZE	D	FIELD BOOK & PAGES
V-SCALE	N.T.S.	V.S.		R.E. DRG
R.E. PROJ. NUMBER	03140646			DRG NO.
				01002-85005p002

Attachment D
1637/1720 Lines Rebuild Project
List of Replacement and New Structures

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Existing Structure #	Line(s)	New Structure #	*Existing Structure Type	*Proposed Structure Type	Existing Height	Proposed Height	Height Increase
Grist Mill Road to Norwalk Junction							
962	1637	962	DCLT	SCSP	74	101.5	27.5
	1720	962A		SCSP		101.5	27.5
961	1637/1720	961	DCLT	DCSP	61	84	23
960	1637/1720	960	DCLT	DCSP	70	88.5	18.5
959	1637/1720	959	DCLT	DCSP	73	102	29
957-1	1637	957	SCSP	SCSP	100	111.5	11.5
957-2	1720	957A	SCSP	SCSP	100	111.5	11.5
956	1637	956	DCLT	SCSP	69	101.5	32.5
	1720	956A		SCSP		101.5	32.5
955	1637/1720	955	DCLT	DCSP	73	104	31
954	1637/1720	954	DCLT	DCSP	73	106.5	33.5
953	1637/1720	953	DCLT	DCSP	75	93.5	18.5
952	1637/1720	952	DCLT	DCSP	72	86.5	14.5
951	1637/1720	951	DCLT	DCSP	73	91.5	18.5
950	1637/1720	950	DCLT	DCSP	73	84	11
949	1637/1720	949	DCLT	DCSP	72	93.5	21.5
948	1637/1720	948	DCLT	DCSP	68	106.5	38.5
New Mid Span	1637/1720	947	NA	DCSP	NA	111.5	New Str.
Norwalk Junction to Weston Substation							
946	1637/1720	19811	DCLT	DCSP	92	126	34
945	1637/1720	19810	DCLT	DCSP	92	131.5	39.5
944	1637/1720	19809	DCLT	DCSP	95	127.5	32.5
943	1637	19808	DCLT	SCSP	94	112	18
	1720	19808A		SCSP		112	18
942	1637/1720	19807	DCLT	DCSP	88	112	24
941	1637/1720	19806	DCLT	DCSP	92	112	20
940	1637/1720	19805	DCLT	DCSP	92	121.5	29.5
939	1637	19804	DCLT	SCSP	93	106.5	13.5
	1720	19804A		SCSP		106.5	13.5
New Mid Span	1637/1720	19803	NA	DCSP	NA	121.5	New Str.
938	1637/1720	19802	DCLT	DCSP	94	126.5	32.5
937	1637/1720	19801	DCLT	DCSP	92	116.5	24.5
**936	1637/1720	19800	DCLT	DCSP	101	111.5	10.5
935	1637/1720	19799	DCLT	DCSP	92	121.5	29.5
934	1637	19798	DCLT	SCSP	93	121.5	28.5
	1720	19798A		SCSP		121.5	28.5
New Mid Span	1637/1720	19796A	NA	DCSP	NA	157	New Str.
932	1637/1720	19796	DCLT	DCSP	83	122.5	39.5
931	1637	19795	DCLT	SCSP	90	116.5	26.5
	1720	19795A		SCSP		116.5	26.5
930	1637/1720	19794	DCLT	DCSP	92	116.5	24.5
929	1637/1720	19793	DCLT	DCSP	93	116.5	23.5
928	1637/1720	19792	DCLT	DCSP	93	121.5	28.5
927	1637/1720	19791	DCLT	DCSP	93	116.5	23.5

* Table for typical structure type naming conventions:

Structure Type	Definition
DCLT	Double Circuit Lattice Tower
DCSP	Double Circuit Steel Pole
SCSP	Single Circuit Steel Pole

**Transmission structure supports an additional 26 foot cellular extension. (137 feet, 6 inches total height).

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Attachment E
1637/1720 Lines Rebuild Project
Wetlands and Watercourses Report

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Inland Wetlands and Watercourses Report

Prepared:

November 30, 2022

Prepared for:

Eversource Energy

107 Selden Street

Berlin, CT 06037

Attn: Andrew Lord

Eversource Project Name:

1637/1720 Line Partial Rebuild Project

Project Location:

Norwalk, Wilton and Weston, Connecticut

Survey Dates:

March 2022

Wetland and watercourse delineation performed by¹:

BSC Group, Inc.

Jake Bartha

Qualified Soil Scientist

¹Wetlands and watercourses were delineated by BSC soil scientist Jake Bartha and assisted by wetland scientists Jonathan Kuziel, and Paul M. Knapik

Executive Summary:

On behalf of Eversource Energy (Eversource), BSC Group, Inc. (BSC) conducted inland wetland and watercourse delineations within an existing right-of-way between Grist Mill Road in Norwalk, Connecticut, Norwalk Junction in Milton, Connecticut, and the Weston Substation in Weston, Connecticut. The delineations were conducted in March 2022 and in support of Eversource's 1637 Line Partial Rebuild Project (Project).

BSC Group identified the following inland wetlands and watercourses within the Project area during the delineation surveys:

- 11 watercourses, consisting of:
 - 8 intermittent streams, and
 - 3 perennial streams

- 20 inland wetlands, consisting of:
 - 9 palustrine emergent wetlands,
 - 10 palustrine scrub/shrub wetlands, and
 - 1 palustrine forested wetland.

Resources delineated for the Project area are described in **Table 1** and **Table 2**. Wetland Determination Data Forms for resources delineated in March 2022 are appended.

Field Conditions:

At the time of the wetland delineation, the state of Connecticut was experiencing lower than normal precipitation that progressed into drought conditions in the spring and throughout the summer 2022. As of this writing, although drought conditions are no longer present, the state of Connecticut remains abnormally dry. No precipitation occurred within 48 hours prior to or during the investigation.

Delineation Methodology:

Wetlands and watercourses were delineated in accordance with state and/or federal wetland criteria pursuant to the Connecticut Inland Wetlands and Watercourses Act: Section 22a-36 through Section 22a-45, the Corps of Engineers Wetlands Delineations Manual (Environmental Laboratory, 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0) (USACE, 2012). The limits of streams were established based on the USACE's definition of the ordinary high-water mark provided at 33CFR 328.3. Vernal Pools were identified during field work in March 2022 using aural and visual methods including dip net surveys. Vernal pools were assessed using both the Connecticut Department of Energy and Environmental Protection (CT DEEP) and USACE definitions as guidance. Obligate vernal pool species were documented and released when encountered during the vernal pool surveys. The results of the Vernal Pool survey can be found in Table 1 within the vernal pool report.

Results:

Table 1: Delineated Wetlands Within the 1637/1720 Line Partial Rebuild Project Area

WetlandName ¹	NWI Classification ²	Associated Watercourses ³	Soil Map Units Within Delineated Wetland	CT Inland Wetland Soil ⁴
W3	PEM1	S1	Udorthents-Pitts complex, gravelly	CT non-wetland
W4	PEM1	S2	Charlton-Chatfield complex, 0-15% slopes, very rocky	CT non-wetland
W5	PSS1	S3	Charlton-Chatfield complex, 0-15% slopes, very rocky	CT non-wetland
W6	PEM1	-	Charlton-Chatfield complex, 0-15% slopes, very rocky	CT non-wetland
W7	PSS1	-	Haven silt loam, 3-8% slopes	CT wetland
W8	PSS1	S4	Haven silt loam, 3-8% slopes	CT non-wetland
W11	PFO1	-	Haven silt loam, 3-8% slopes	CT wetland
W12	PSS1	-	Haven silt loam, 3-8% slopes	CT wetland
W13	PSS1	S5 - Norwalk River	Pootatuck fine sandy loam	CT wetland
W14	PFO1	S6 - Copt's Brook	Ridgebury, Leicester and Whitman soils. 0-8% slopes, extremely stony	CT wetland
W16	PSS1	-	Udorthents, urban land complex	CT non-wetland
W17	PSS1	S6 - Copt's Brook	Timakwa and Nachaug soils, 0-2% slopes	CT wetland
W18	PSS1	S7	Charlton-Chatfield complex, 0-15% slopes, very rocky	CT non-wetland

W19	PEM1	-	Ridgebury fine sandy loam, 0-3% slopes	CT wetland
W19A	PEM1	-	Woodbridge fine sandy loam, 0-3% slopes	CT wetland
W20	PEM1	-	Hollis-Chatfield rock outcrop complex, 15-45% slopes	CT non-wetland
W21	PEM1	-	Hollis-Chatfield rock outcrop complex, 15-45% slopes	CT non-wetland
W22	PSS1	S9	Ridgebury, Leicester and Whitman soils. 0-8% slopes, extremely stony	CT wetland
W23	PEM1	S10	Charlton-Chatfield complex, 15-45% slopes, very rocky	CT wetland
W24	PEM1	S11	Charlton-Chatfield complex, 0-15% slopes, very rocky	CT wetland

NOTES

¹Wetland name is a BSC Group generated naming convention during the 2022 field survey within the 1637/1720 Line Partial Rebuild Project area.

²Wetlands classified according to *Classification of Wetlands and Deepwater Habitats of the United States, Second Edition* (FGDC, 2013); PSS1 = Palustrine Scrub/Shrub Broad-Leaved Deciduous; PEM1 = Palustrine Emergent Persistent; PFO1 = Palustrine Forested Broad-Leaved Deciduous

³Associated Watercourse refers to the name and stream type assigned during the 2022 field survey within the 1637/1720 Line Partial Rebuild Project area.

⁴CT Inland Wetland Soil status is based upon GIS data maintained by the Connecticut branch of the Natural Resources Conservation Service (NRCS), accessible here: [Connecticut Inland Wetland Soils | NRCS Connecticut \(usda.gov\)](https://www.nrcs.usda.gov/wetland-soils)

Table 2: Delineated Watercourses Within the 16737/1720 Line Partial Rebuild Project Area

Stream Name ¹	Flow Regime	NWI Classification ²	Stream Name	Ordinary High Water MarkWidth (ft)
S1	Intermittent	R4SB3	Unnamed intermittent tributary to Norwalk River	2
S2	Intermittent	R4SB3	Unnamed intermittent tributary to Norwalk River	2
S3	Intermittent	R4SB3	Unnamed intermittent tributary to Norwalk River	3
S4	Intermittent	R4SB3	Unnamed intermittent tributary to Norwalk River	3
S5	Perennial	R2UB1	Norwalk River	35
S6	Perennial	R2UB1	Copt's Brook	12
S7	Intermittent	R4SB3	Unnamed intermittent stream	3
S8	Perennial	R2UB1	West Branch of Saugatuck River	70
S9	Intermittent	R4SB3	Unnamed intermittent stream	4
S10	Intermittent	R4SB3	Unnamed intermittent stream	3
S11	Intermittent	R4SB3	Unnamed intermittent stream	2.5

NOTES

¹Stream name is a BSC generated naming convention during the 2022 field survey within the 1637/1720 Line Partial Rebuild Project area.

²Streams classified according to *Classification of Wetlands and Deepwater Habitats of the United States, Second Edition* (FGDC, 2013); R4SB3 = Riverine Intermittent Streambed Cobble-Gravel; R2UB1 = Riverine Lower Perennial Unconsolidated Bottom Cobble-Gravel.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Norwalk/Fairfield County Sampling Date: 3/29/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W3
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.15598 Long: -72.42544 Datum: WGS 1984
 Soil Map Unit Name: Udorthents-Pitts complex, gravelly NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>W8</u>
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
--	---

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>6</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: W3

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	<u>Rosa multiflora</u>	10	Yes	FACU
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
	_____ =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>Solidago rugosa</u>	10	No	FAC
2.	<u>Phragmites australis</u>	85	Yes	FACW
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	_____ =Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	<u>Vitis labrisca</u>	10	Yes	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	_____ =Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>85</u>	x 2 = <u>170</u>
FAC species <u>10</u>	x 3 = <u>30</u>
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>105</u> (A)	<u>240</u> (B)
Prevalence Index = B/A = <u>2.29</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W3

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 ¹	Loc ²		
0-10	10YR 3/1	90	10YR 5/2	10	RM	M	Loamy/Clayey	Depletions

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

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

Restrictive Layer (if observed):	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Type: _____ Depth (inches): _____	

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Norwalk/Fairfield County Sampling Date: 3/29/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W4
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.155909 Long: -72.42335 Datum: WGS 1984
 Soil Map Unit Name: Charlton-Chatfield complex, 0-15% slopes, v. rocky NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation NO, Soil NO, or Hydrology NO 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 _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) <input checked="" type="checkbox"/> 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) <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) _____ 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) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: 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): <u>6</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: W4

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		=Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	10	Yes	FACU	
2.				
3.				
4.				
5.				
6.				
7.				
	10	=Total Cover		
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	10	No	FAC	
2.	60	Yes	FACW	
3.	20	Yes	OBL	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	90	=Total Cover		
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	10	Yes		
2.				
3.				
4.				
	10	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>20</u>	x 1 = <u>20</u>
FACW species <u>60</u>	x 2 = <u>120</u>
FAC species <u>10</u>	x 3 = <u>30</u>
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>100</u> (A)	<u>210</u> (B)
Prevalence Index = B/A = <u>2.10</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W4

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 ¹	Loc ²		
0-8	10YR 3/2	90	10YR 5/2	10	RM	M	Loamy/Clayey	Depletions

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input checked="" 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) (LRR K, L)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

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

Restrictive Layer (if observed):	
Type: _____	
Depth (inches): _____	
	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks:
 This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Norwalk & Wilton/ Fairfield County Sampling Date: 3/23/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W5
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.15965 Long: -72.42292 Datum: WGS 1984
 Soil Map Unit Name: Charlton-Chatfield complex, 0-15% slopes, v. rocky NWI classification: PSS
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>W1, W2</u>
Remarks: (Explain alternative procedures here or in a separate report.) Sampling point is representative of W2	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: W5

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: <u>30ft radius</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.0%</u> (A/B)																
1.	_____	_____	_____																	
2.	_____	_____	_____																	
3.	_____	_____	_____																	
4.	_____	_____	_____																	
5.	_____	_____	_____																	
6.	_____	_____	_____																	
7.	_____	_____	_____																	
			=Total Cover	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">Total % Cover of:</td> <td style="width:50%; text-align: center;">Multiply by:</td> </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>																				
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)																				
1.	<u>Lonicera japonica</u>	<u>Yes</u>	<u>FACU</u>																	
2.	<u>Rosa multiflora</u>	<u>Yes</u>	<u>FACU</u>																	
3.	<u>Ilex verticillata</u>	<u>Yes</u>	<u>FACW</u>																	
4.	_____	_____	_____																	
5.	_____	_____	_____																	
6.	_____	_____	_____																	
7.	_____	_____	_____																	
			=Total Cover																	
Herb Stratum (Plot size: <u>5ft radius</u>)																				
1.	<u>Onoclea sensibilis</u>	<u>Yes</u>	<u>FACW</u>																	
2.	<u>Phragmites australis</u>	<u>Yes</u>	<u>FACW</u>																	
3.	_____	_____	_____																	
4.	_____	_____	_____																	
5.	_____	_____	_____																	
6.	_____	_____	_____																	
7.	_____	_____	_____																	
8.	_____	_____	_____																	
9.	_____	_____	_____																	
10.	_____	_____	_____																	
11.	_____	_____	_____																	
12.	_____	_____	_____																	
			=Total Cover																	
Woody Vine Stratum (Plot size: <u>15ft</u>)																				
1.	_____	_____	_____																	
2.	_____	_____	_____																	
3.	_____	_____	_____																	
4.	_____	_____	_____																	
			=Total Cover																	
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>																				

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

SOIL

Sampling Point: W5

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 ¹	Loc ²		
0-8	10YR 3/2	90	10YR 5/8	10	C	M	Sandy	Organic material
8-12	10YR 5/3	95	7.5YR 4/6	5	C	M	Loamy/Clayey	Redox

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input checked="" type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input checked="" type="checkbox"/> Dark Surface (S7)			

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

Restrictive Layer (if observed):	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Type: _____ Depth (inches): _____	

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/Fairfield County Sampling Date: 3/29/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W6
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.15979 Long: -72.42285 Datum: WGS 1984
 Soil Map Unit Name: Charlton-Chatfield complex, 0-15% slopes, v. rocky NWI classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: W6

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		=Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	<u>Multiflora rose</u>	10	Yes	FACU
2.				
3.				
4.				
5.				
6.				
7.				
	10	=Total Cover		
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>Solidago rugosa</u>	10	No	FAC
2.	<u>Onoclea sensibilis</u>	40	Yes	FACW
3.	<u>Symplocarpus</u>	30	Yes	OBL
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	80	=Total Cover		
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	<u>Vitus labrisca</u>	15	Yes	
2.				
3.				
4.				
	15	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>30</u>	x 1 = <u>30</u>
FACW species <u>40</u>	x 2 = <u>80</u>
FAC species <u>10</u>	x 3 = <u>30</u>
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>90</u>	(A) <u>180</u> (B)
Prevalence Index = B/A = <u>2.00</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W6

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 ¹	Loc ²		
0-10	10YR 3/1	90	10YR 5/2	15	RM	M	Loamy/Clayey	Depletions

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

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

Restrictive Layer (if observed):	Hydric Soil Present? Yes <u>X</u> No _____
Type: _____ Depth (inches): _____	

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Norwalk & Wilton/ Fairfield County Sampling Date: 3/23/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W7
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.16112 Long: -73.42191 Datum: WGS 1984
 Soil Map Unit Name: Haven silt loam, 3-8% slopes NWI classification: PSS

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

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

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

HYDROLOGY

<p>Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply)</p>	<p><u>Secondary Indicators</u> (minimum of two required)</p>
<p><u>X</u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) ___ 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) <u>X</u> 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) <u> </u> Sparsely Vegetated Concave Surface (B8)</p>	<p>___ Surface Soil Cracks (B6) <u>X</u> 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)</p>

<p>Field Observations:</p> <p>Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): _____ Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <u>X</u> No <u> </u></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: W7

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				=Total Cover
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
				=Total Cover
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
				=Total Cover
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.				
2.				
3.				
4.				
				=Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>50</u>	x 2 = <u>100</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>85</u> (A)	<u>240</u> (B)
Prevalence Index = B/A = <u>2.82</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W7

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 ¹	Loc ²		
0-10	10YR 3/1	90	10YR 5/4	10	C	M	Sandy	Organic material
10-16	10YR 5/3	95	7.5YR 4/4	5	C	M	Loamy/Clayey	Redox

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

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

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
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Remarks:
 This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/ Fairfield County Sampling Date: 3/23/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W8
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.16684 Long: -73.41982 Datum: WGS 1984
 Soil Map Unit Name: Haven silt loam, 3-8% slopes NWI classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: W8

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	<u>Lonicera japonica</u>	20	Yes	FACU
2.	<u>Rosa multiflora</u>	15	Yes	FACU
3.	<u>Ilex verticillata</u>	15	Yes	FACW
4.	<u>Cornus amomum</u>	10	No	FACW
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
	60 =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>Onoclea sensibilis</u>	10	Yes	FACW
2.	<u>Phragmites australis</u>	20	Yes	FACW
3.	<u>Phalaris arundinacea</u>	20	Yes	FACW
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	50 =Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>75</u>	x 2 = <u>150</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>110</u> (A)	<u>290</u> (B)
Prevalence Index = B/A = <u>2.64</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W8

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 ¹	Loc ²		
0-10	10YR 3/2	90	10YR 5/4	10	C	M	Sandy	Organic material
10-16	10YR 5/3	95	10YR 4/4	5	C	M	Loamy/Clayey	Redox

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input checked="" type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Dark Surface (S7)</p>	<p><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)</p> <p><input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input checked="" type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Marl (F10) (LRR K, L)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)</p> <p><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</p> <p><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)</p> <p><input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</p> <p><input type="checkbox"/> Red Parent Material (F21)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
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Remarks:
 This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/Fairfield County Sampling Date: 3/22/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W11
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Toe of slope Local relief (concave, convex, none): Concave Slope (%): 3-10
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.1744 Long: -72.4188 Datum: WGS 1984
 Soil Map Unit Name: Haven silt loam, 3-8% slopes NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>W3</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: W11

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: <u>30ft radius</u>)																				
1. <u><i>Acer rubrum</i></u>	<u>50</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</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>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="width:50%; text-align:center;">Total % Cover of:</td> <td style="width:50%; text-align:center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>55</u></td> <td>x 2 = <u>110</u></td> </tr> <tr> <td>FAC species <u>55</u></td> <td>x 3 = <u>165</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>110</u></td> <td>(A) <u>275</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>2.50</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>55</u>	x 2 = <u>110</u>	FAC species <u>55</u>	x 3 = <u>165</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>110</u>	(A) <u>275</u> (B)	Prevalence Index = B/A = <u>2.50</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>55</u>	x 2 = <u>110</u>																			
FAC species <u>55</u>	x 3 = <u>165</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>110</u>	(A) <u>275</u> (B)																			
Prevalence Index = B/A = <u>2.50</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>50</u> =Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)																				
1. <u><i>Ilex verticillata</i></u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u><i>Vaccinium corymbosum</i></u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
<u>20</u> =Total Cover																				
Herb Stratum (Plot size: <u>5ft radius</u>)																				
1. <u><i>Impatiens capensis</i></u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	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 <input checked="" type="checkbox"/> No <input type="checkbox"/>																
2. <u><i>Onoclea sensibilis</i></u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>35</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>15ft</u>)																				
1. <u><i>Smilax rotundifolia</i></u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
<u>5</u> =Total Cover																				

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

SOIL

Sampling Point: W11

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 ¹	Loc ²		
0-12	10YR 2/1	90	2.5YR 7/1	10	D	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:
 This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/ Fairfield County Sampling Date: 3/29/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W12
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.17656 Long: -73.41972 Datum: WGS 1984
 Soil Map Unit Name: Haven silt loam, 3-8% slopes NWI classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: W12

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	<u>Alnus glutinosa</u>	30	Yes	FACW
2.	<u>Lonicera japonica</u>	20	Yes	FACU
3.	<u>Ilex verticillata</u>	15	Yes	FACW
4.	<u>Cornus amomum</u>	10	No	FACW
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
	_____ =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>Onoclea sensibilis</u>	5	No	FACW
2.	<u>Phragmites australis</u>	20	Yes	FACW
3.	<u>Phalaris arundinacea</u>	20	Yes	FACW
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	_____ =Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	_____ =Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>100</u>	x 2 = <u>200</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>20</u>	x 4 = <u>80</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>120</u> (A)	<u>280</u> (B)
Prevalence Index = B/A = <u>2.33</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W12

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 ¹	Loc ²		
0-12	10YR 4/2	90	10YR 5/4	10	C	M	Sandy	Organic material
12-16	7.5YR 4/4	95	10YR 5/6	5	C	M	Loamy/Clayey	Redox

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input checked="" type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7)		<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> High Chroma Sands (S11) (LRR K, L) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Marl (F10) (LRR K, L)		Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)	
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
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Remarks:
 This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/ Fairfield County Sampling Date: 3/23/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W13
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.17668 Long: -73.41779 Datum: WGS 1984
 Soil Map Unit Name: Pootatuck fine sandy loam NWI classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
If yes, optional Wetland Site ID: <u> </u>			

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	<u> </u> Surface Soil Cracks (B6)
<u>X</u> Surface Water (A1)	<u>X</u> Drainage Patterns (B10)
<u> </u> High Water Table (A2)	<u> </u> Moss Trim Lines (B16)
<u>X</u> Saturation (A3)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Water Marks (B1)	<u> </u> Crayfish Burrows (C8)
<u> </u> Sediment Deposits (B2)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Drift Deposits (B3)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Algal Mat or Crust (B4)	<u> </u> Geomorphic Position (D2)
<u> </u> Iron Deposits (B5)	<u> </u> Shallow Aquitard (D3)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Microtopographic Relief (D4)
<u> </u> Sparsely Vegetated Concave Surface (B8)	<u> </u> FAC-Neutral Test (D5)

Field Observations:	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u>	
Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u>	
Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: W13

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	<u>Alnus glutinosa</u>	20	Yes	FACW
2.	<u>Lonicera japonica</u>	30	Yes	FACU
3.	<u>Ilex verticillata</u>	10	No	FACW
4.	<u>Cornus amomum</u>	10	No	FACW
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
	=Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>Onoclea sensibilis</u>	10	No	FACW
2.	<u>Phragmites australis</u>	30	Yes	FACW
3.	<u>Phalaris arundinacea</u>	20	Yes	FACW
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	=Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>100</u>	x 2 = <u>200</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>30</u>	x 4 = <u>120</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>130</u> (A)	<u>320</u> (B)
Prevalence Index = B/A = <u>2.46</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W13

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 ¹	Loc ²		
0-12	10YR 3/2	90					Sandy	Organic material
12-16	10YR 4/4	95	10YR 5/4	5	C	M	Loamy/Clayey	Redox

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators:</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Stratified Layers (A5)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Dark Surface (S7)</p>	<p><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)</p> <p><input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input checked="" type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p> <p><input type="checkbox"/> Marl (F10) (LRR K, L)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)</p> <p><input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)</p> <p><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</p> <p><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)</p> <p><input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)</p> <p><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)</p> <p><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)</p> <p><input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</p> <p><input type="checkbox"/> Red Parent Material (F21)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p>Restrictive Layer (if observed):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <u>X</u> No _____</p>
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Remarks:
 This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/ Fairfield County Sampling Date: 3/23/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W16
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.17582 Long: -73.41072 Datum: WGS 1984
 Soil Map Unit Name: Udorthents, urban land complex NWI classification: PSS
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <table style="width: 100%;"> <tr> <td><input checked="" type="checkbox"/> Surface Water (A1)</td> <td><input checked="" type="checkbox"/> Water-Stained Leaves (B9)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Marl Deposits (B15)</td> </tr> <tr> <td><input type="checkbox"/> Water Marks (B1)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<p><u>Secondary Indicators (minimum of two required)</u></p> <table style="width: 100%;"> <tr><td><input type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td><input checked="" type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td><input type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td><input type="checkbox"/> Stunted or Stressed Plants (D1)</td></tr> <tr><td><input type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td><input type="checkbox"/> Microtopographic Relief (D4)</td></tr> <tr><td><input type="checkbox"/> FAC-Neutral Test (D5)</td></tr> </table>	<input type="checkbox"/> Surface Soil Cracks (B6)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Moss Trim Lines (B16)	<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Crayfish Burrows (C8)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	<input type="checkbox"/> Geomorphic Position (D2)	<input type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> Microtopographic Relief (D4)	<input type="checkbox"/> FAC-Neutral Test (D5)
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<p>Field Observations:</p> <table style="width: 100%;"> <tr> <td>Surface Water Present? Yes <u>X</u> No <u> </u></td> <td>Depth (inches): <u>0</u></td> </tr> <tr> <td>Water Table Present? Yes <u>X</u> No <u> </u></td> <td>Depth (inches): _____</td> </tr> <tr> <td>Saturation Present? Yes <u>X</u> No <u> </u></td> <td>Depth (inches): <u>0</u></td> </tr> </table> <p>(includes capillary fringe)</p>	Surface Water Present? Yes <u>X</u> No <u> </u>	Depth (inches): <u>0</u>	Water Table Present? Yes <u>X</u> No <u> </u>	Depth (inches): _____	Saturation Present? Yes <u>X</u> No <u> </u>	Depth (inches): <u>0</u>	<p>Wetland Hydrology Present? Yes <u>X</u> No <u> </u></p>																									
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																																
Remarks:																																

VEGETATION – Use scientific names of plants.

Sampling Point: W16

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: <u>30ft radius</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</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>100.0%</u> (A/B)																
1.																				
2.																				
3.																				
4.																				
5.																				
6.																				
7.																				
			=Total Cover	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">Total % Cover of:</th> <th style="width:50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>90</u></td> <td>x 2 = <u>180</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>40</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u></td> <td>(A) <u>220</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.20</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>90</u>	x 2 = <u>180</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>10</u>	x 4 = <u>40</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u>	(A) <u>220</u> (B)	Prevalence Index = B/A = <u>2.20</u>	
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Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)																				
1.	<u><i>Ilex verticillata</i></u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>																
2.	<u><i>Vaccinium corymbosum</i></u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																
3.	<u><i>Lonicera japonica</i></u>	<u>10</u>	<u>No</u>	<u>FACU</u>																
4.	<u><i>Cornus amomum</i></u>	<u>10</u>	<u>No</u>	<u>FACW</u>																
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6.																				
7.																				
			=Total Cover	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: <u>5ft radius</u>)																				
1.	<u><i>Onoclea sensibilis</i></u>	<u>10</u>	<u>Yes</u>		<u>FACW</u>															
2.	<u><i>Phalaris arundinacea</i></u>	<u>20</u>	<u>Yes</u>		<u>FACW</u>															
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
			=Total Cover																	
Woody Vine Stratum (Plot size: <u>15ft</u>)				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.																
1.																				
2.																				
3.																				
4.																				
			=Total Cover																	
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				

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

SOIL

Sampling Point: W16

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 ¹	Loc ²		
0-12	10YR 2/2	90					Sandy	Organic material
12-16	10YR 3/4	95	10YR 5/4	5	C	M	Loamy/Clayey	Redox

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Dark Surface (S7)		

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
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Remarks:
 This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/ Fairfield County Sampling Date: 3/23/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W17
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.17699 Long: -73.4066 Datum: WGS 1984
 Soil Map Unit Name: Timakwa and Nachaug soils, 0-2% slopes NWI classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: W17

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	=Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	<u><i>Ilex verticillata</i></u>	10	Yes	FACW
2.	<u><i>Vaccinium corymbosum</i></u>	15	Yes	FACW
3.	<u><i>Lonicera japonica</i></u>	5	No	FACU
4.	<u><i>Cornus amomum</i></u>	20	Yes	FACW
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	50 =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u><i>Onoclea sensibilis</i></u>	10	No	FACW
2.	<u><i>Phalaris arundinacea</i></u>	50	Yes	FACW
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
8.	_____	_____	_____	
9.	_____	_____	_____	
10.	_____	_____	_____	
11.	_____	_____	_____	
12.	_____	_____	_____	
	60 =Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	=Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>105</u>	x 2 = <u>210</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>5</u>	x 4 = <u>20</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>110</u> (A)	<u>230</u> (B)
Prevalence Index = B/A = <u>2.09</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W17

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 ¹	Loc ²		
0-32	10YR 2/1	90					Mucky Peat	Organic material

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Polyvalue Below Surface (S8) (LRR R, **MLRA 149B**)
- Thin Dark Surface (S9) (LRR R, **MLRA 149B**)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, **MLRA 149B**)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/Fairfield County Sampling Date: 3/29/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W19
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.18169 Long: -72.39198 Datum: WGS 1984
 Soil Map Unit Name: Ridgebury fine sandy loam. 0-3% slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: W19

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ = Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u><i>Phragmites australis</i></u>	<u>60</u>	<u>Yes</u>	<u>FACW</u>
2.	<u><i>Onoclea sensibilis</i></u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>
3.	<u><i>Symplocarpus</i></u>	<u>10</u>	<u>No</u>	<u>OBL</u>
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
8.	_____	_____	_____	
9.	_____	_____	_____	
10.	_____	_____	_____	
11.	_____	_____	_____	
12.	_____	_____	_____	
	<u>90</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	_____ = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>10</u>	x 1 = <u>10</u>
FACW species <u>80</u>	x 2 = <u>160</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>90</u> (A)	<u>170</u> (B)
Prevalence Index = B/A = <u>1.89</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

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 ¹	Loc ²		
0-10	10YR 2/1	90					Mucky Loam/Clay	
10-16	10YR 4/2		10YR 5/6	10	D	M	Mucky Loam/Clay	Depletions

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input checked="" 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) (LRR K, L)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <u>X</u> No _____
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Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/Fairfield County Sampling Date: 3/29/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W20
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.18342 Long: -72.38817 Datum: WGS 1984
 Soil Map Unit Name: Hollis-Chatfield rock outcrop complex, 15-45% slopes NWI classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: W20

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>Carex lurida</u>	30	Yes	OBL
2.	<u>Onoclea sensibilis</u>	15	Yes	FACW
3.	<u>Symplocarpus</u>	10	No	OBL
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
8.	_____	_____	_____	
9.	_____	_____	_____	
10.	_____	_____	_____	
11.	_____	_____	_____	
12.	_____	_____	_____	
	_____ =Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	_____ =Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>40</u>	x 1 = <u>40</u>
FACW species <u>15</u>	x 2 = <u>30</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>55</u> (A)	<u>70</u> (B)
Prevalence Index = B/A = <u>1.27</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W20

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 ¹	Loc ²		
0-10	10YR 2/1	90					Mucky Loam/Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input checked="" 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) (LRR K, L)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

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

Restrictive Layer (if observed):	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Type: _____ Depth (inches): _____	

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/Fairfield County Sampling Date: 3/29/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W21
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.18342 Long: -72.38817 Datum: WGS 1984
 Soil Map Unit Name: Hollis-Chatfield rock outcrop complex, 15-45% slopes NWI classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation NO, Soil NO, or Hydrology NO 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 _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	<table style="width:100%;"> <tr> <td style="width:50%;">Is the Sampled Area within a Wetland?</td> <td style="width:50%; text-align: right;">Yes <u>X</u> No _____</td> </tr> <tr> <td colspan="2">If yes, optional Wetland Site ID: _____</td> </tr> </table>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No _____	If yes, optional Wetland Site ID: _____	
Is the Sampled Area within a Wetland?	Yes <u>X</u> No _____				
If yes, optional Wetland Site ID: _____					
Remarks: (Explain alternative procedures here or in a separate report.)					

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<u>X</u> Surface Water (A1)	_____ Water-Stained Leaves (B9)	_____ Surface Soil Cracks (B6)	_____ Drainage Patterns (B10)
_____ High Water Table (A2)	_____ Aquatic Fauna (B13)	_____ Moss Trim Lines (B16)	_____ Dry-Season Water Table (C2)
<u>X</u> Saturation (A3)	_____ Marl Deposits (B15)	_____ Crayfish Burrows (C8)	_____ Saturation Visible on Aerial Imagery (C9)
<u>X</u> Water Marks (B1)	_____ Hydrogen Sulfide Odor (C1)	_____ Stunted or Stressed Plants (D1)	_____ Geomorphic Position (D2)
_____ Sediment Deposits (B2)	_____ Oxidized Rhizospheres on Living Roots (C3)	_____ Shallow Aquitard (D3)	_____ Microtopographic Relief (D4)
_____ Drift Deposits (B3)	_____ Presence of Reduced Iron (C4)	_____ FAC-Neutral Test (D5)	
_____ 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)			

Field Observations: 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): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? 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: W21

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>Carex lurida</u>	20	Yes	OBL
2.	<u>Onoclea sensibilis</u>	20	Yes	FACW
3.	<u>Symplocarpus</u>	15	Yes	OBL
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
8.	_____	_____	_____	
9.	_____	_____	_____	
10.	_____	_____	_____	
11.	_____	_____	_____	
12.	_____	_____	_____	
	_____ 55 =Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	_____ =Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>35</u>	x 1 = <u>35</u>
FACW species <u>20</u>	x 2 = <u>40</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>55</u> (A)	<u>75</u> (B)
Prevalence Index = B/A = <u>1.36</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W21

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 ¹	Loc ²		
0-8	10YR 2/1	90					Mucky Loam/Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Dark Surface (S7)		

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

Restrictive Layer (if observed):	Hydric Soil Present? Yes <u>X</u> No _____
Type: _____ Depth (inches): _____	

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Wilton/ Fairfield County Sampling Date: 3/23/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W22
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.18415 Long: -73.38312 Datum: WGS 1984
 Soil Map Unit Name: Ridgebury, Leicester and Whitman soils, 0-8% slopes, extremely stony NWI classification: PSS
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

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

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: W22

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	<u>Vaccinium corymbosum</u>	15	Yes	FACW
2.	<u>Cornus amomum</u>	10	Yes	FACW
3.	<u>Ilex verticillata</u>	5	No	FACW
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
	_____ =Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>Onoclea sensibilis</u>	10	Yes	FACW
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____
11.	_____	_____	_____	_____
12.	_____	_____	_____	_____
	_____ =Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
	_____ =Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>40</u>	x 2 = <u>80</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>40</u> (A)	<u>80</u> (B)
Prevalence Index = B/A = <u>2.00</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W22

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 ¹	Loc ²		
0-12	10YR 2/1	90					Loamy/Clayey	
12-16	10YR 4/3		10YR 4/4	5	D	M	Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- High Chroma Sands (S11) (**LRR K, L**)
- Loamy Mucky Mineral (F1) (**LRR K, L**)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- Coast Prairie Redox (A16) (**LRR K, L, R**)
- 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- Polyvalue Below Surface (S8) (**LRR K, L**)
- Thin Dark Surface (S9) (**LRR K, L**)
- Iron-Manganese Masses (F12) (**LRR K, L, R**)
- Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:
 This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Weston/Fairfield County Sampling Date: 3/22/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W23
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.18556 Long: -72.37903 Datum: WGS 1984
 Soil Map Unit Name: Charlton-Chatfield complex, 15-45% slopes, v. rocky NWI classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.)			

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: W23

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
	_____ = Total Cover			
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>Carex stricta</u>	10	No	OBL
2.	<u>Onoclea sensibilis</u>	20	Yes	FACW
3.	<u>Symplocarpus</u>	20	Yes	OBL
4.	<u>Dichantheium clandestinum</u>	20	Yes	FACW
5.	_____	_____	_____	
6.	_____	_____	_____	
7.	_____	_____	_____	
8.	_____	_____	_____	
9.	_____	_____	_____	
10.	_____	_____	_____	
11.	_____	_____	_____	
12.	_____	_____	_____	
	_____ 70 = Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.	_____	_____	_____	
2.	_____	_____	_____	
3.	_____	_____	_____	
4.	_____	_____	_____	
	_____ = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>30</u>	x 1 = <u>30</u>
FACW species <u>40</u>	x 2 = <u>80</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>70</u> (A)	<u>110</u> (B)
Prevalence Index = B/A = <u>1.57</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W23

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 ¹	Loc ²		
0-12	10YR 2/1	90					Mucky Loam/Clay	
12-16	10YR 4/2		10YR 5/4	20	D	M	Mucky Sand	Depletions

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

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

Restrictive Layer (if observed):	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Type: _____ Depth (inches): _____	

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 1637/1720 Line Partial Rebuild Project City/County: Weston/Fairfield County Sampling Date: 3/22/2022
 Applicant/Owner: Eversource Energy State: CT Sampling Point: W24
 Investigator(s): BSC Wetland Scientists Section, Township, Range: NA
 Landform (hillside, terrace, etc.): Basin Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.18671 Long: -72.37657 Datum: WGS 1984
 Soil Map Unit Name: Charlton-Chatfield complex, 15-45% slopes, v. rocky NWI classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation NO, Soil NO, or Hydrology NO 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 <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: W24

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30ft radius</u>)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		=Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15ft radius</u>)				
1.	<u>15</u>	Yes	FACW	
2.				
3.				
4.				
5.				
6.				
7.				
	<u>15</u>	=Total Cover		
Herb Stratum (Plot size: <u>5ft radius</u>)				
1.	<u>10</u>	No	OBL	
2.	<u>30</u>	Yes	FACW	
3.	<u>20</u>	Yes	OBL	
4.	<u>30</u>	Yes	FACW	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	<u>90</u>	=Total Cover		
Woody Vine Stratum (Plot size: <u>15ft</u>)				
1.				
2.				
3.				
4.				
		=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>30</u>	x 1 = <u>30</u>
FACW species <u>75</u>	x 2 = <u>150</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>105</u> (A)	<u>180</u> (B)
Prevalence Index = B/A = <u>1.71</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators 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 No

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

SOIL

Sampling Point: W24

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 ¹	Loc ²		
0-10	10YR 2/1	90					Mucky Loam/Clay	
10-18	10YR 4/2		10YR 5/6	15	D	M	Mucky Sand	Depletions

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <u>X</u> No _____
---	---

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

Attachment F
1637/1720 Lines Rebuild Project
Vernal Pool Survey

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Vernal Pool Survey Report

Prepared:

November 30, 2022

Prepared for:

Eversource Energy

107 Selden Street
Berlin, CT 06037
Attn: Andrew Lord

Eversource Project Name:

1637/1720 Line Partial Rebuild Project

Project Location:

Norwalk, Wilton and Weston Connecticut

Survey Dates:

March 2022

Vernal pool survey was performed by¹:

BSC Group, Inc.

¹Vernal pools were surveyed by BSC scientist Jonathan Kuziel, assisted by wetland scientists Jake Bartha and Paul M. Knapik

INTRODUCTION

The following details vernal pool surveys conducted by BSC Group in support of the Connecticut Light and Power Company doing business as Eversource Energy's ("Eversource") petition to the Connecticut Siting Council for structure replacements along the 1637/1720 transmission line within an existing right-of-way ("ROW") in Norwalk, Wilton and Weston, Connecticut (the "Project").

VERNAL POOL DEFINITION

Several vernal pool definitions have been developed by both regulatory authorities and conservation organizations. The Connecticut Department of Energy and Environmental Protection (CT DEEP) generally describes vernal pools on its website but cautions that the data provided is informational in nature and should not supplant regulations of municipal inland wetlands agencies. CT DEEP describes vernal pools as "*small bodies of standing fresh water found throughout the spring*" that are "*usually temporary*" and "*result from various combinations of snowmelt, precipitation and high water tables associated with the spring season.*"

Calhoun and Klemens (2002) *Best development practices: Conserving pool-breeding amphibians in residential and commercial developments in the northeastern United States* (BDP Manual) provides the following operational definition of vernal pools:

*Vernal pools are seasonal bodies of water that attain maximum depths in the spring or fall and lack permanent surface water connections with other wetlands or water bodies. Pools fill with snowmelt or runoff in the spring, although some may be fed primarily by groundwater sources. The duration of surface flooding, known as hydroperiod, varies depending upon the pool and the year; vernal pool hydroperiods range along a continuum from less than 30 days to more than one year. Pools are generally small in size (<2 acres), with the extent of vegetation varying widely. They lack established fish populations, usually as a result of periodic drying, and support communities dominated by animals adapted to living in temporary, fishless pools. In the region, they provide essential breeding habitat for one or more wildlife species including Ambystomid salamanders (*Ambystoma* spp., called "mole salamanders" because they live in burrows), wood frogs (*Lithobates sylvatica*), and fairy shrimp (*Eubranchipus* spp.).*

Vernal pool physical characteristics can vary widely while still providing habitat for indicator species. "Classic" vernal pools are natural depressions in a wooded upland with no permanent hydrologic connection to other wetland systems. Anthropogenic depressions such as quarry holes, old farm ponds and borrow pits can also provide similar habitat. Often, vernal pools are depressions or impoundments embedded within larger wetland systems. These vernal pool habitats are commonly referred to as "cryptic" vernal pools.

Several species of amphibians depend on vernal pools for reproduction and development. These species are referred to as indicator (a.k.a. obligate) vernal pool species, and the presence of breeding adults, egg masses or larvae within a seasonally flooded wetland provides confirmation of a vernal pool.

Facultative vernal pool species are fauna that utilize but do not necessarily require vernal pools for reproductive success. Examples of facultative species include spotted turtles (*Clemmys guttata*) and four-toed salamander (*Hemidactylium scutatum*). These species may breed or feed in vernal pools but are also capable of carrying out all phases of their lifecycle in other types of wetlands or water bodies. Evidence of breeding by facultative species alone is not considered indicative of the presence of a vernal pool.

EXISTING WETLANDS ALONG THE PROJECT ROW

Project wetlands are predominantly characterized by wetlands with a “saturated” hydrology. Mitsch and Gosselink (2007)¹ defines a saturated hydrology as a wetland with a substrate that is saturated for extended periods during the growing season, but standing water is rarely present. Wetlands with a saturated hydrology are not capable of supporting breeding by vernal pool indicator species, as they lack prolonged standing water. In order for successful breeding by vernal pool amphibians to occur, a wetland must have standing water from approximately March through June for most indicator species². Such wetlands, referred to as seasonally flooded wetlands, provide optimal habitat for vernal pool indicator species and often fit the definition of “classic” vernal pool described above. Additionally, while seasonally flooded conditions are optimal, permanently (or semi-permanently) flooded wetlands can also provide suitable breeding habitat for vernal pool dependent wildlife, particularly if they occur in a forested landscape and contain shallow water with emergent and/or submergent vegetation. The predominantly saturated hydrology wetlands may also have embedded deeper-water pockets that support seasonal or semi-permanent flooding conditions which may meet the definition of “cryptic” vernal pools.

VERNAL POOL SURVEY

Concurrent with wetland delineation work, vernal pool surveys were conducted within the Project area in March 2022 by BSC wetland scientists. Although the wetland delineation and survey occurred early in the growing season, ground conditions were clear of snow or ice with no frost layer present.

Using the Calhoun and Klemens distinction between “classic” and “cryptic” vernal pools, no pools of the “classic” type were encountered within or adjacent to the ROW. Two (2) “cryptic” type pools, where a basin supporting seasonal flooding (ponding) is contained within a matrix of scrub-shrub or forested wetland with saturated hydrology, were identified during the survey. Among the cryptic pools, one (1), W17, is a very large wetland feature with forested overstory and open canopy areas outside of the managed ROW and variable vegetation characteristics throughout the basin. The entire wetland feature was observed to have ponded water in early spring, so this wetland does not fit clearly in either of the two aforementioned classes. Please refer to the vernal pool descriptions and Table 1 below for a summary of the two (2) cryptic pools found and the attached representative photographs of the pools encountered during the survey.

Wetland W16 contains a cryptic vernal pool adjacent to the south side of the ROW west of Clover Drive. The wetland and vernal pool are characterized by scrub-shrub cover within the maintained ROW which then transitions to a forested wetland beyond the maintained ROW. This wetland has a small vernal pool with the majority of the pool having a seasonally flooded hydrology. The pool lies within a forested wetland and contains some shrub cover, primarily of winterberry (*Ilex verticillata*) and highbush blueberry (*Vaccinium corymbosum*) with occasional tussock sedge (*Carex stricta*) and skunk cabbage (*Symplocarpus foetidus*).

Wetland W17 is a large forested wetland outside of the maintained ROW that includes cryptic vernal pool features including a pool just off ROW within the forested portion near Clover Drive. The wetland is characterized by scrub-shrub and emergent (*Phragmites* sp.) cover within the maintained ROW which then transitions abruptly to a forested wetland beyond the maintained ROW. Several pools were observed within the forested wetland outside of the managed ROW.

¹Mitsch, W.J. and Gosselink, J.G. 2007. Wetlands, fourth edition. John Wiley and Sons, Inc.

²The indicator species marbled salamander (*Ambystoma opacum*) breeds in late-summer and fall, with larval development throughout the winter and spring.

No Decoy Vernal Pools were encountered during vernal pool evaluations by BSC.

Table 1. Surveyed Vernal Pool Descriptions

Associated Wetland #	Page #	Type	Description	Species	Evidence
W16	4	Cryptic	Off-ROW; Within a Forested Wetland	Bull frog, Wood frog	Adult
W17	4 & 5	Cryptic	Off-ROW; Within a Scrub-Shrub/Forested Wetland	Wood Frog	Adult, Tadpoles

Table 2. Comprehensive Vernal Pool Species List throughout Project Site

Common Name	Scientific Name	Life Stage/Observation
Wood Frog	<i>Lithobates sylvaticus</i>	Adult, tadpoles
Bull Frog	<i>Lithobates catesbeianus</i>	Adult

RECOMMENDED BEST MANAGEMENT PRACTICES

The following measures are recommended to avoid or minimize impacts on the above-referenced vernal pools during construction:

- A. Existing scrub-shrub vegetation within 25 feet of the vernal pool should be maintained, consistent with ROW vegetation management requirements. If low growing (scrub-shrub) vegetation must be removed adjacent to the vernal pool, the cut vegetation (slash) will be left in place to serve as recruitment for leaf litter and coarse woody debris;
- B. Where feasible in areas proximate to vernal pools, adhere to the seasonal windows for matting and tree clearing to avoid adverse effects on amphibians during migration periods;
- C. Install appropriate erosion and sediment controls around distinct work sites and access roads to minimize the potential for sediment deposition into vernal pools, and remove such controls promptly after final site stabilization;
- D. Keep temporary timber mat access roads swept and sediment free to avoid impacts to the vernal pools;
- E. For Project activities that must occur within and adjacent to vernal pools during amphibian migration periods, implement measures on a site-specific basis as necessary to facilitate unencumbered amphibian access to and from vernal pools. Mitigation measures will be identified after taking into consideration site-specific conditions, including the type of construction activity in proximity to a vernal pool, the amphibian species known to occur in the vernal pool, and seasonal conditions. Options to allow amphibian access to vernal pools may include, but not be limited to: syncopated silt fencing in the immediate vicinity of vernal pools; elevated construction matting; and aligning erosion and sedimentation controls to avoid bifurcating vernal pool habitat.

Attachment:

Photographs of vernal pools



Photo #1: View of a cryptic vernal pool embedded within wetland W16.



Photo #2: View of a cryptic vernal pool embedded within wetland W17 off-ROW.

Attachment G
1637/1720 Lines Rebuild Project
EMF Graphs

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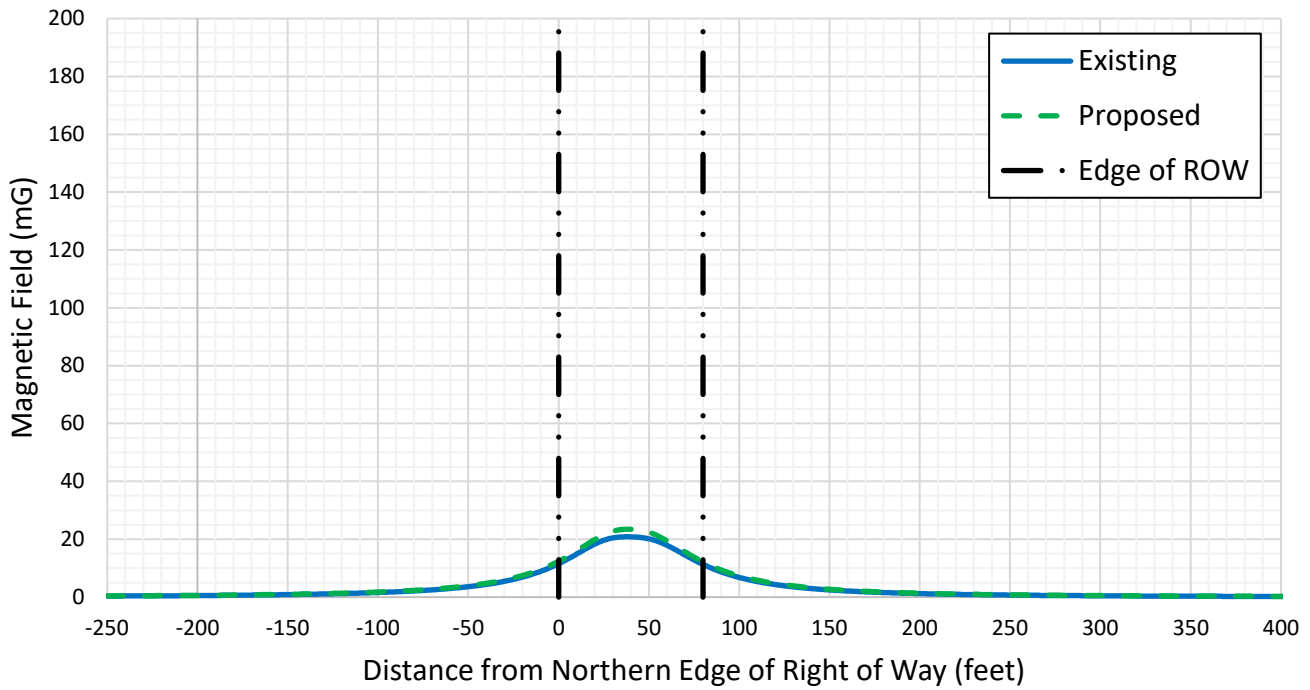
Norwalk Junction - Weston Substation (Annual Average Loads)		North ROW Edge	Max in ROW	South ROW Edge
Magnetic Fields (mG)	Existing	11.6	20.9	11.3
	Proposed	12.5	23.5	12.2
Electric Fields (kV/m)	Existing	0.22	1.75	0.22
	Proposed	0.26	0.26	2.07

Kent Road - Norwalk Jct (Average Annual Loads)		West ROW Edge	Max in ROW	East ROW Edge
Magnetic Fields (mG)	Existing	16.8	66.9	19.0
	Proposed	16.9	66.6	15.7
Electric Fields (kV/m)	Existing	1.14	4.36	0.81
	Proposed	1.13	4.37	0.35

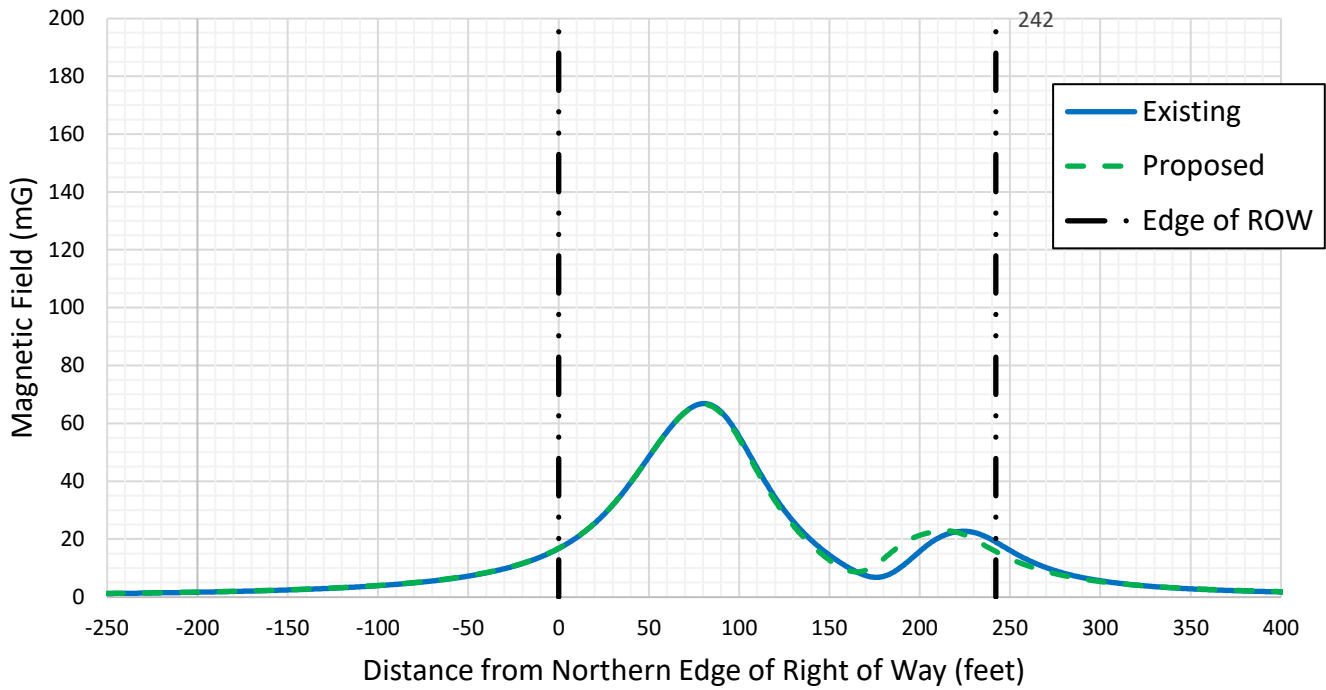
Structure 963 - Kent Road (Average Annual Loads)		West ROW Edge	Max in ROW	East ROW Edge
Magnetic Fields (mG)	Existing	23.3	71.8	25.4
	Proposed	23.6	71.8	26.1
Electric Fields (kV/m)	Existing	1.62	4.04	0.42
	Proposed	1.61	3.95	0.57

	Magnetic Field (mG)	Electric Field (kV/m)
ICNIRP	2000	4.2
ICES	9040	5 (in General)
		10 (on ROW)

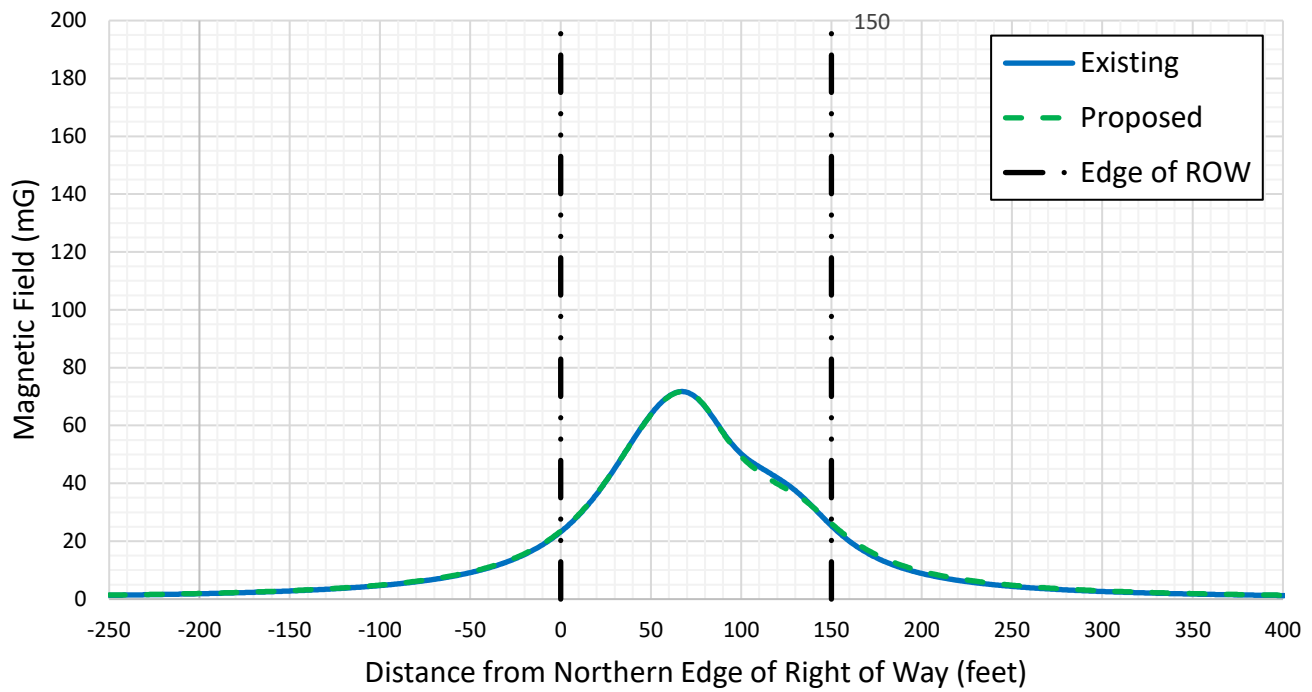
Calculated Magnetic Fields (Annual Average Loads) Norwalk Junction - Weston S/S



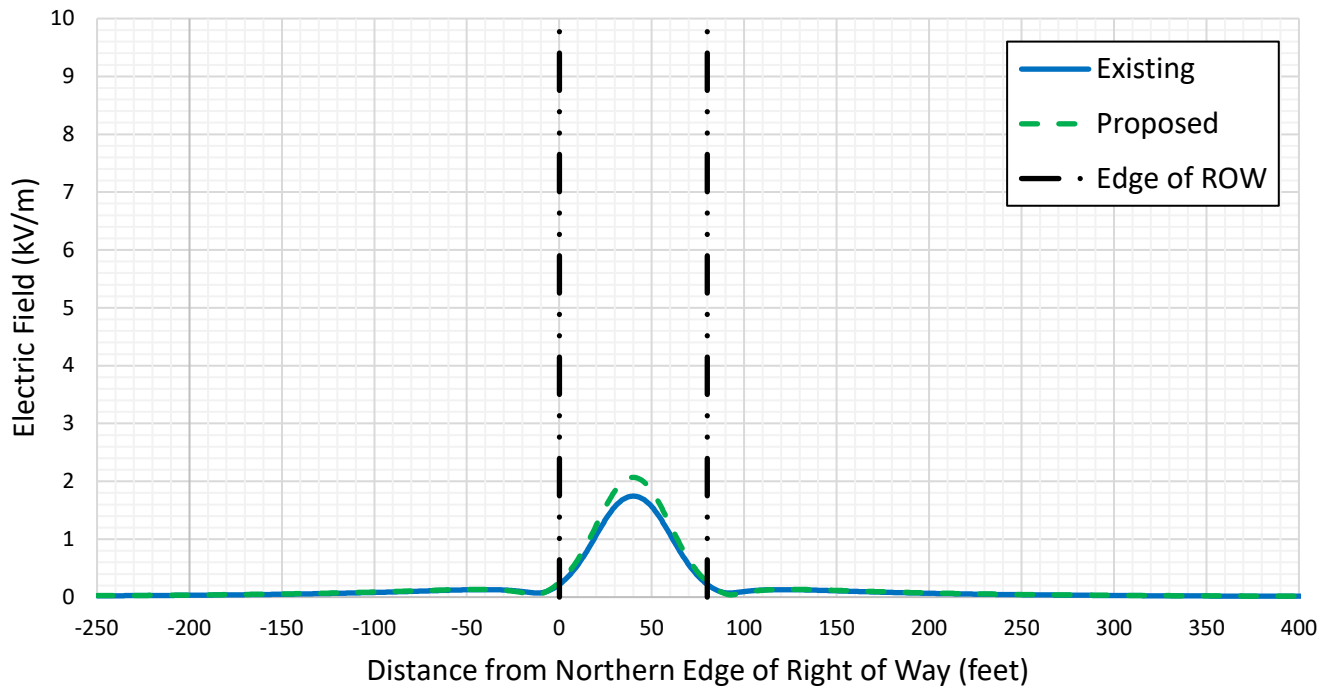
Calculated Magnetic Fields (Annual Average Loads) Kent Road - Norwalk Jct



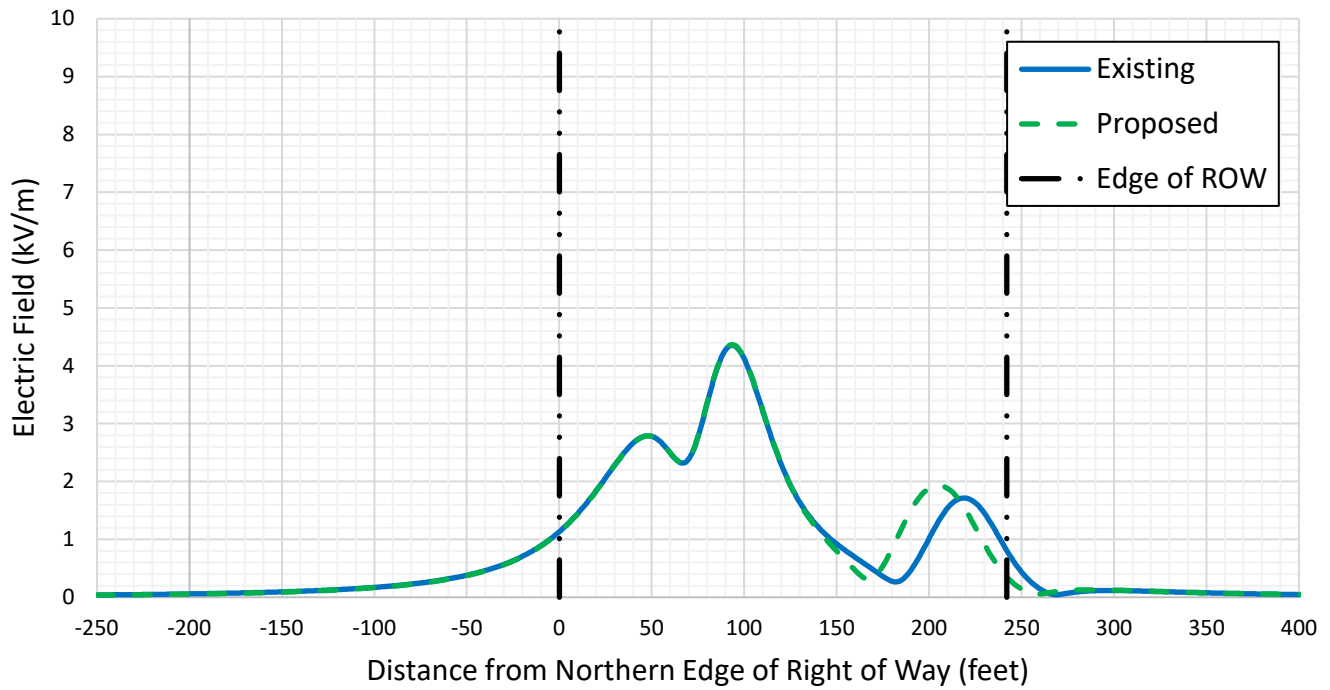
Calculated Magnetic Fields (Annual Average Loads) Structure 962-Kent Road



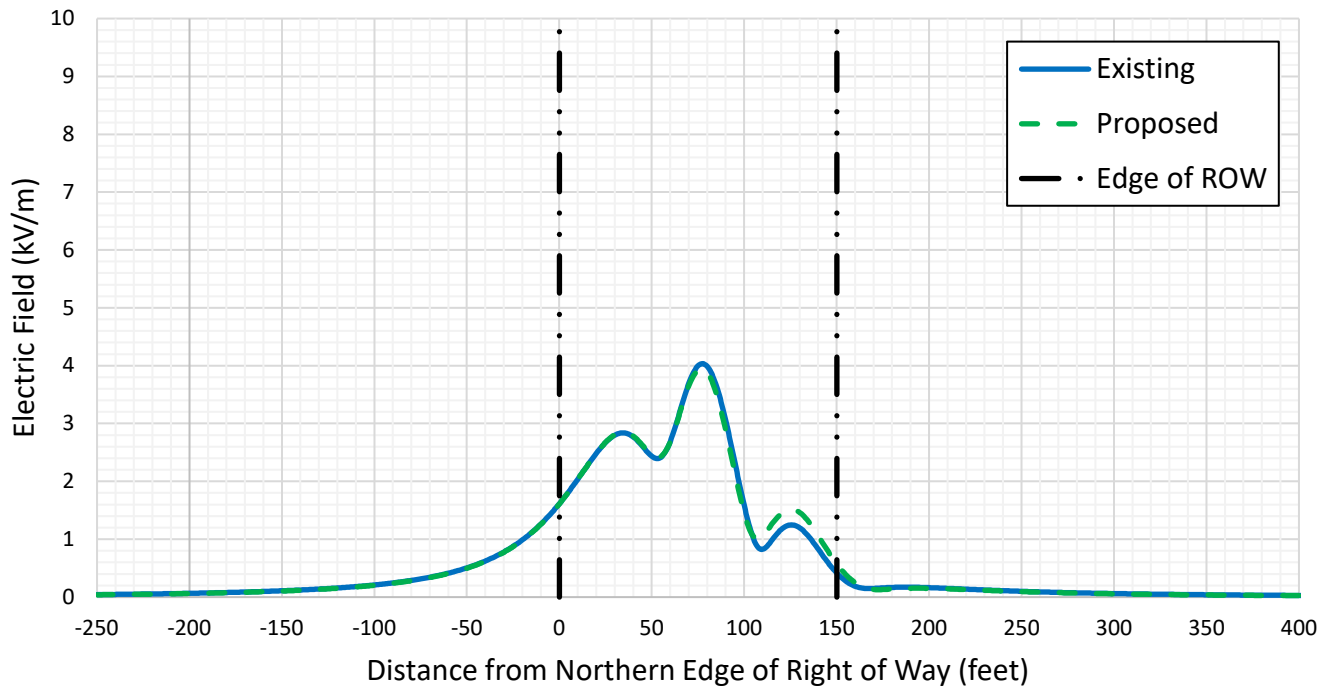
Calculated Electric Fields (Annual Average Loads) Norwalk Junction - Weston S/S



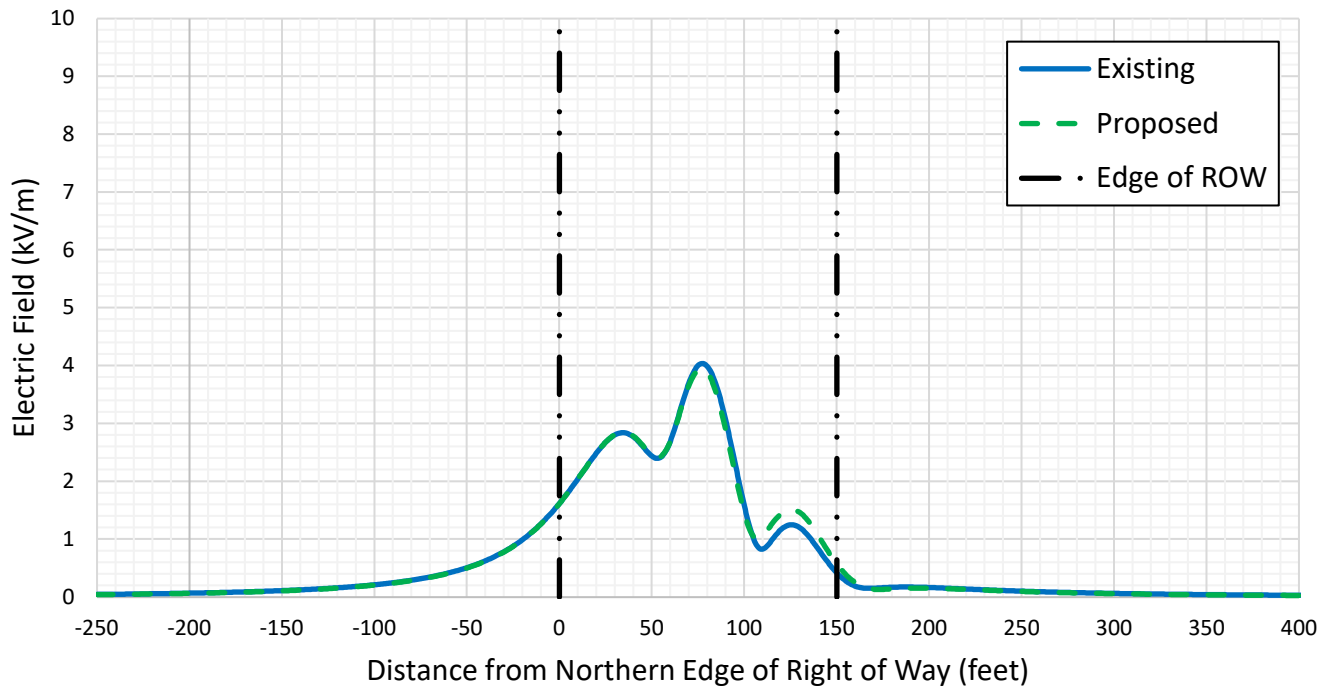
Calculated Electric Fields (Annual Average Loads) Kent Road - Norwalk Junction



Calculated Electric Fields (Annual Average Loads) Structure 962 - Kent Road



Calculated Electric Fields (Annual Average Loads) Structure 962 - Kent Road



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Attachment H
1637/1720 Lines Rebuild Project
Letter to the Abutters and Affidavit

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April 2023

Dear Neighbor,

At Eversource, we're always working to serve you better. We are submitting a Petition to the Connecticut Siting Council (CSC) for a proposed electric reliability project in your area.

Proposed Project Information

The proposed Project, called the 1637/1720 Line Rebuild Project, is designed to bring the electric supply system serving Norwalk, Wilton, and Weston into compliance with current national and regional reliability standards. The Project will also provide greater flexibility in operating the power grid, thereby improving Eversource's ability to reliably meet its customers electric needs in the area.

The Project includes replacing and installing new transmission structures and replacing wire within the right of way (powerline corridor) between Grist Mill Road in Norwalk and Weston Substation located off Old Weston Road in Weston. Selective vegetation will need to be removed within the right of way to comply with updated electrical standards.

The proposed Project includes rebuilding approximately 4 miles of the transmission line infrastructure between Norwalk Junction and Weston Substation. This work includes:

- Replacing many of the existing structures with new steel monopoles, with a finish that weathers or darkens over time. (weathering steel from Weston Substation to Norwalk Junction and galvanized from Norwalk Junction to Grist Mill Road.) The location and heights of the new structures will vary depending on location, topography, and other factors. In select areas, additional new monopole structures will be installed within the right-of-way to meet updated engineering and electric code standards.
- Replacing the existing conductor (energized wires) with new, upgraded conductor of the same voltage (115-kV).
- Replacing the shield wire (top-most wire) with Optical Ground Wire (OPGW) from Norwalk Junction to Grist Mill Road. The new OPGW wire will improve electric reliability by enabling communications between substations.
- Removing select trees and vegetation within the right-of-way as needed for construction within the 165-foot right-of-way.
- Building or improving construction gravel roads, work pads, and pull pads to provide access to structure locations and to create a safe and stable work area for equipment. Temporary construction matting will be used in some sensitive areas (e.g., wetlands).

What You Can Expect

Pending receipt of the necessary approvals for this proposed work, construction is expected to begin in Summer of 2023. We anticipate completing construction, including restoration of affected areas the end of 2024.

Contact Information

Eversource is committed to being a good neighbor and doing our work with respect for you and your property. For more information, please call our Projects Hotline at 1-800-793-2202 or send an email to ProjectInfo@eversource.com.

If you would like to send comments regarding Eversource's Petition to the CSC, please send them via email to siting.council@ct.gov or send a letter to the following address: Melanie Bachman, Executive Director, Connecticut Siting Council, Ten Franklin Square, New Britain, CT 06051.

Sincerely,

J. Patrick Holmes

J. Patrick Holmes

Eversource Project Manager on behalf of Eversource - Transmission

AFFIDAVIT OF SERVICE OF NOTICE

STATE OF CONNECTICUT)
) ss. Fairfield
COUNTY OF FAIRFIELD)

Sec. 16-SOj-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 construction of The Connecticut Light and Power Company doing business as Eversource Energy to be served by mail or courier upon the following municipal officials:

Honorable Harry W. Rilling, Mayor, City of Norwalk
City Hall
125 East Ave.
P.O. Box 5125
Norwalk, CT 06856-5125

Samantha Nestor, First Selectwoman, Town of Weston
Weston Town Hall
56 Norfield Rd.
Weston, CT 06883

Lynne A. Vanderslice, First Selectwoman, Town of Wilton
Wilton Town Hall
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 93 owners of abutting properties shown on the maps in Attachment B in the Petition.



Susan J. Bellion
Project Siting Specialist

On this the 11th day of April 2023, before me, the undersigned representative, personally appeared, Susan J. Bellion, 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:
TANNER D. HANSEN
NOTARY PUBLIC - CONNECTICUT
MY COMM. EXPIRES 09/30/2027
SNPC. 0187412