56 Prospect Street
P.O. Box 270
Hartford, CT 06103

Kathleen M. Shanley
Manager – Transmission Siting
Tel: (860) 728-4527

July 18, 2019

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

Re: SCITICO SUBSTATION AND NUTMEG SOLAR INTERCONNECTION PROJECT ("Project")

Dear Attorney Bachman:

Attached are an original and fifteen (15) copies of a petition on behalf of The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") requesting a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to the Scitico Substation and the existing 1976 Line and the installation of a new underground 115-kV transmission line in the town of Enfield ("Petition").

Prior to submitting this Petition, Eversource representatives briefed town of Enfield municipal officials about the Project and Eversource provided written notice of the proposed work to all abutters as well as notice of the Petition being filed with the Council. Maps and line lists identifying the abutting property owners who were notified of the Project are provided in Attachment A.

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

Sincerely,

Kathleen M. Shanley

Enclosure

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 EXISTING
SCITICO SUBSTATION, 1976 LINE AND A NEW 115-KV UNDERGROUND
TRANSMISSION LINE IN THE TOWN OF ENFIELD, CONNECTICUT

On April 25, 2019, The Connecticut Siting Council ("Council") issue a declaratory ruling in Petition No. 1352 - Nutmeg Solar, LLC, for approving the proposed construction, maintenance and operation of a 19.6-megawatt AC solar photovoltaic electric generating facility to be constructed on approximately 162 acres comprised of 9 separate parcels located generally south of Bailey Road and east of Route 191 (Broad Brook Road), and associated electrical interconnection to Eversource Energy's Scitico Substation at 20 Bailey Road in Enfield, Connecticut.

In the Council's Opinion (Page 3, Electrical Interconnection), "The Council recommends that Eversource file a Petition of Declaratory Ruling for the underground 115-kV connection, any Eversource equipment in the Collector Substation (if applicable), and modifications to the existing Scitico Substation".

Pursuant to the Council's direction, The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") hereby petitions the Connecticut Siting Council ("Council") for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need ("Certificate") is required pursuant to Section 16-50g et seq. of the Connecticut General Statutes for the modifications to the existing Eversource Scitico Substation ("Scitico") and the existing 1976 transmission line that terminates at Scitico, and for installation of a 330-foot new 115-kV underground transmission line on Eversource and private property[1] in Enfield (the "Project") that are described herein.

[1] The privately-held property is subject to a purchase option held by Nutmeg Solar, LLC ("Nutmeg Solar").

Eversource submits that no such Certificate is required because the proposed modifications would not have a substantial adverse environmental effect.

Purpose of the Project

The purpose of the Project is to provide an electrical interconnection between Scitico Substation and the Nutmeg Solar Project's Collector Substation (the "Collector Substation"). The Nutmeg Solar Project includes construction of a 19.6-megawatt AC solar photovoltaic electric generating facility located generally south of Bailey Road and east of Route 191 (Broad Brook Road) in Enfield.

The Collector Substation will interconnect[2] to Scitico via an approximately 330-foot new three-phase single-circuit 115-kV underground cable ("1014 Line") to be located on Eversource property and property subject to a purchase option held by Nutmeg Solar ("the interconnection"). The Project will also require that Scitico be modified from a single bus configuration to a four-breaker ring configuration. The work will also include relocation of the 1976 Line, and new 115-kV terminal structures at Scitico.

Eversource will design, construct, own, and maintain the 115-kV underground cable and all modifications for the Scitico Substation. Nutmeg Solar, LLC will design, construct, own, and maintain the Collector Substation up to the point of change of ownership, which is at the 115-kV terminal structure on Nutmeg Solar's property.

[2] The Project holds ISO-NE Generation Interconnection Queue Position 552. The Project's ISO-NE System Impact Study report (issued June 21, 2016) concluded that the Project will not cause any adverse impacts to the transmission system and no system upgrades will be required to interconnect at the designated POI. Section I.3.9 approval was received from ISO-NE on November 8, 2016. Nutmeg Solar entered into a small generator interconnection agreement (SGIA) with ISO-NE and Connecticut Light and Power on July 5, 2017.

Figure 1: Interconnection Aerial Map

SCITICO SUBSTATION AND OVERHEAD LINE MODIFICATIONS

This section provides further detail regarding the modifications to Scitico and the 1976 Line.

3.1 SCITICO SUBSTATION MODIFICATIONS.

Scitico Substation is a 115- to 23-kV facility with two 115-kV transmission circuits, two 115- to 23-kV power transformers, and eight 23-kV distribution circuits. The modifications to Scitico Substation required to accommodate the new 115-kV underground cable interconnection to the Collector Substation include changing Scitico from a single-bus configuration to a four-breaker ring bus configuration, relocating the existing 1976 transmission line termination to a new terminal structure at a new location within Scitico[3] and adding two new terminal structures on Eversource property, as described in further detail below:

- Installation of a new 115-kV galvanized steel terminal structure with lightning arresters for the new location of the 1976 Line. The new terminal structure will be located approximately 68 feet to the south from the existing 1976 Line termination location. The height of the new terminal structure would be the same height as the existing terminal structures, approximately 63 feet above ground level with the lightning mast. The existing 1976 Line terminal structure will remain to accommodate the line switch and coupling capacitor voltage transformers ("CCVTs") for the new underground cable termination.
- Installation of a new 115-kV galvanized steel cable termination structure to support the new underground 1014 Line to the Collector Substation terminal structure. This structure will be in approximately 4 feet to the east of the existing 1976 Line terminal. The height of the structure is approximately 19 feet above ground level;
- Installation of two 115-kV circuit breakers;
- Installation of four 115-kV manual operated breaker disconnect switches;
- Installation of new 115-kV bus work and support structures;

[3] The existing 1976 Line termination structure will remain to facilitate the underground cable interconnection.

- Installation of new foundations for each of the above equipment and structures;
- Installation of one 115-kV motor operated line disconnect switch, ground switch and three CCVTs on the new 1976 Line terminal structure; and
- Relocation of the wave trap from the existing line 1976 Line terminal structure to the new 1976 Line terminal structure.

The existing substation arrangement with the proposed modifications is shown on Attachment B, Drawing No. 14910-92001– General Arrangement–Plan & Sections – CSC.

3.2 OVERHEAD LINE MODIFICATIONS

The interconnection from Scitico to the Collector Substation requires modifications to Eversource's existing 115-kV 1976 Line facilities (See Attachment A), as described below:

- Replacement of the existing 115-kV wood angle structure 7943A with a new 115-kV weathering steel angle structure[4]. The new structure 7943A will need to be installed approximately 85 feet southeast on Eversource Property to accommodate the shift in location of the new 1976 Line terminal structure. The height of existing structure 7943A is approximately 73 feet above ground level and the height of new structure would be approximately 75 feet above ground level (see Attachment C: Existing and Proposed Cross Section);
- Installation of approximately 200 feet of new 1272 kcmil ACSR (aluminum conductor, steel reinforced) conductor and 7#8 Alumoweld shield wire between the new 1976 Line terminal structure located at Scitico and the new structure 7943A; and
- Removal of the existing 7#8 Alumoweld shield wire between the existing 1976 Line terminal structure and existing structure 7943A.

[4] Replacement of the structure is due to the condition and age of the existing structure and to accommodate the new angle of the structure due to the new location of 1976 Line terminal structure.

4 UNDERGROUND LINE INTERCONNECTION

This section describes the design of the new approximately 330 foot 115-kV underground transmission line interconnection (the new 1014 Line) from Scitico to the Collector Substation.

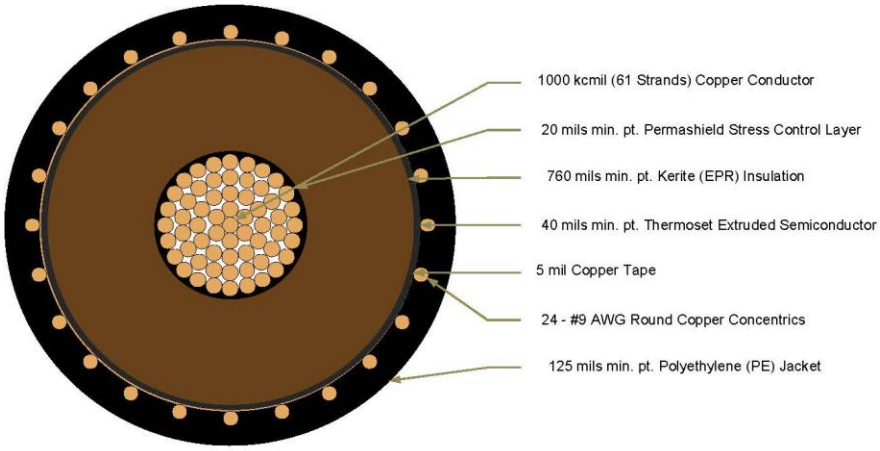
4.1 CABLE DESCRIPTION

A single-circuit underground 115-kV line, consisting of three Ethylene propylene rubber ("EPR") cables, or phases. Each phase of the circuit will include one 1000-kcmil copper conductor cable insulated to 115-kV with approximately 0.8 inches of EPR insulation. Each such cable, which will be approximately 3.5 inches in diameter, will be installed in a separate PVC ("polyvinyl chloride") conduit. In addition, two 24-fiber ADSS (all dielectric, self-supporting) cables for communication and a grounding conductor would be installed from the Scitico terminal structure to the Collector Substation terminal structure. Figure 2 provides a cross-section of a typical 1000-kcmil copper conductor EPR 115-kV cable and EPR duct bank.

The PVC conduits will be encased in concrete to form an approximately 3 foot wide duct bank, and the remainder of the trench backfilled with native soil to efficiently dissipate heat from the cable system. The duct bank will be buried to provide a minimum of 36 inches of cover from the top of the duct bank to the existing surface grade (See Attachment D).

Figure 2: Typical EPR Cable Design

Kerite Catalog Number = 190C95-JE100



Component	Description	Min. Dia.	Dia. (in)	Max. Dia.
Conductor	1000 kcmil (61 Strands) Copper Conductor	---	1.117	---
Conductor Shield	Permashield Stress Control Layer	---	1.175	---
Insulation	800 mils Kerite (EPR) Insulation	2.685	2.825	2.885
Insulation Shield	Thermoset Extruded Semiconductor	2.765	2.925	3.005
Metallic Tape Shield	5 mil Copper Tape	---	2.940	---
Metallic Wire Shield	24 - #9 AWG Round Copper Concentrics	---	3.170	---
Jacket	140 mils Polyethylene (PE) Jacket	---	3.480	---

Cable Weight = 8.48 lbs/ft

Notes on Walls & Tolerances:

Walls on Drawing Labels Represent ICEA Minimum Points
Walls on Cable Descriptions Represent Nominal Values
All Dimensions Subject To Normal Manufacturing Tolerances

Marmon Utility LLC / Kerite
49 Day Street
Seymour, CT 06483-3400
http://www.kerite.com
(800) 777-7483

DESCRIPTION:

1000 kcmil (61 Strands) Copper Conductor, 115 kV SPS 100%, 800 mils Kerite (EPR) Insulation, Thermoset Extruded Semiconductor, 5 mil Copper Tape, 24 - #9 AWG Round Copper Concentrics, 140 mils Polyethylene (PE) Jacket

DRAWING: **190C95-JE100**
SCALE: None
BY: wvmcdonnell
DATE: May 09, 2012

5. ENVIRONMENT EFFECTS AND MITIGATION

The proposed modifications would be constructed on Eversource's property and existing ROW, and on privately-held property. The Project will temporarily impact one wetland by using temporary matting during construction. There were no environmentally sensitive areas or habitat areas identified through review of the National Diversity Data Base ("NDDB") for state-listed species. Work within the wetland would be conducted in accordance with the implementation of the Company's September 2016 *Best Management Practices Manual for Massachusetts and Connecticut* ("BMPs").

5.1 CLEARING AND VEGETATION REMOVAL

Some clearing and vegetation removal would be required to facilitate the work. Approximately 4,351 square feet (0.1 acre) of clearing is required to accommodate the new underground line interconnection and approximately 15,680 square feet (0.36 acre) of vegetation removal is required for construction of work/pull pads and conductor clearance within Eversource's ROW associated with the existing overhead 1976 Line. Eversource would conduct clearing and vegetation removal activities in accordance with its BMPs.

During clearing and vegetation removal activities, construction mats will be used to provide a stable base for equipment within wetlands. Such temporary support would minimize rutting in wetlands and would be removed after the vegetation removal activities are completed.

Eversource would require the contractor to use low-impact mowing/vegetation removal methods, where possible, to maintain vegetation and to protect wetlands, threatened and endangered species and their habitats. Low-impact mowing/vegetation removal incorporates a variety of approaches, techniques, and equipment to minimize site disturbance. Depending on site-specific considerations, these low-impact mowing/vegetation removal methods may include methods such as:

- Take into consideration soil and weather conditions (e.g., heavy rainfall) when scheduling vegetation removal activities.

- Maximize the use of uplands for access routes.
- Use appropriate equipment for the site conditions to minimize impacts to the extent practicable.
- Cut trees and shrubs close to the ground, leaving root systems and stumps, where practical, to provide additional soil stability.

In addition to the effects described above, tree clearing for temporary work pads in wetlands will result in some habitat conversion. Tree clearing in forested wetland areas will result in the modification of approximately 155 square feet of palustrine forested ("PFO") wetlands to palustrine scrub shrub ("PSS") wetlands, representing a cover type change to wetland habitat, but not a net loss of wetlands. Work activities in wetlands, including the proposed tree clearing, will be conducted in accordance with the Eversource BMPs and comply with Project permits and approvals.

5.2 CULTURAL RESOURCES

A cultural resource assessment of the Project was conducted by Heritage Consultants, LLC in October 2018. No cultural resources or resource areas were identified.

5.3 WETLANDS, WATERCOURSES AND FLOOD ZONES

Water resources within the Project area were identified and delineated by Davison Environmental in March 2018 (See Attachment E – Wetland and Watercourse Report). One wetland was identified and delineated on Eversource property. The Project will result in approximately 3,050 square feet (0.07 acre) of temporary wetland effects, which are associated with the temporary use of construction mats for the 60-foot by 40-foot work pad for the structure removal of 7943A.

No watercourses, vernal pools or 100 and 500-year flood zones were identified within the Project area. The Project is not located within a public water supply watershed and no public water supply reservoirs are located within the Project area.

All construction mats will be removed upon Project completion and temporary wetland area will be restored in accordance with Eversource's BMPs.

5.4 WILDLIFE AND HABITAT

The Project would not have a substantial adverse environmental effect on wildlife or wildlife habitat. Project work on Eversource property and in the ROW are not located within an NDDB polygon. However, a representative of Nutmeg Solar has corresponded with the Connecticut Department of Energy and Environmental Protection ("DEEP") NDDB regarding state-listed species within the Nutmeg Solar project area. The NDDB sent Nutmeg Solar a letter indicating that state-listed species are present and provided recommendations for their protection. Though it's work is not located in the NDDB polygon, Eversource will adhere to Nutmeg's NDDB recommended protection measures including restricting tree clearing outside of the fenced area of Scitico to the winter months from November to March.

5.5 VISUAL EFFECTS

The Project would result in some change to the visual character of Scitco Substation and from the shift of the 1976 Line, though Eversource does not believe that these changes will result in a significant impact. As noted above, a new cable design terminal structure would be installed within Scitco and one existing 115-kV wood structure would be replaced with a slightly higher weathering steel structure.

5.6 RADIO AND TELEVISON INTERFERENC

No changes to radio or television interference would result from the Project.

5.7 AIR QUALITY

Short-term, localized effects on air quality may result from the Project construction, primarily from fugitive dust and equipment emissions. To minimize the amount of dust generated by the construction activities, the extent of exposed/disturbed areas at any one time would be minimized. To further minimize dust, water may be used to wet down disturbed soils or work areas with heavy tracking as needed.

Vehicle emissions will be minimized by requiring contractors to properly maintain construction equipment and vehicles, and by minimizing the idling time, including for diesel construction equipment, in accordance with Connecticut regulatory requirements.

5.8 NOISE AND SOUND PRESSURE LEVELS

During construction, any impacts to existing noise levels would be short-term and localized in the vicinity of the work areas. There would be no permanent changes to the noise levels from the Project.

Sound-pressure levels at all points along the Scitico property lines would continue to meet state regulations set out in Regulations of Connecticut State Agencies §§ 22a-69-1 et seq.

5.9 SUBSTATION SECURITY MEASURES AND LIGHTING

Scitico has existing security measures including security cameras, an alarm system and lighting for safety and security purposes. No additional security measures and lighting is required.

5.10 SOIL EROSION AND SEDIMENT CONTROL INSTALLATION

Project construction would conform to best management practices for erosion and sedimentation ("E&S") control, including those provided in the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control ("Connecticut Guidelines") and the Eversource's BMPs.

Typical E&S control measures include, but are not limited to, straw blankets, straw bales, silt fencing, rock construction entrances, soil and slope protection, water bars, check dams, berms, and swales. Silt fence would be installed where necessary 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 inspected and maintained throughout the Project to ensure their integrity and effectiveness. Following completion of construction, seeding and mulching would be undertaken 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.

6. CONSTRUCTION SEQUENCE AND METHODS

Preparation of the Project would include the following activities:

6.1 ESTABLISHING STAGING AREAS

Scitico Substation and work space outside of the substation's fenced area on Eversource property will be used to store construction equipment and materials, (including tools, and supplies) for the Project. Office trailers will be located within Scitico's fenced area. The staging areas may also be used by construction crew members for parking personal vehicles as well as for construction vehicles, and for performing minor maintenance, when needed, on construction equipment. E&S controls would be installed and maintained, as needed, until Project completion in accordance with Eversource's BMPs.

6.2 ACCESS ROAD AND WORK PADS

Access to the proposed new and existing transmission structures, and the new underground line interconnection location would utilize the existing Eversource paved access road off Bailey Road.

At the existing and new transmission structure locations gravel work pads would be required to provide a safe, level work base for the construction equipment and to stage material for final on-site structure assembly and/or removal. There will be three work pads approximately 150 foot by 100 foot. These work pads will be constructed of gravel; however, where the work pad traverses the wetland, temporary construction mats would be used. In addition, a 200 foot by 100 foot pull pad would be required east of the new structure 7943A to support the pulling of the new conductor and shield wire into the new 1976 Line terminal structure.

Along the new underground cable interconnection, a 25-foot-wide work pad is required on each side of the proposed duct bank location for construction and access. These work pads are located in uplands and will be constructed of gravel.

The preliminary location and configuration of the work pads, as determined based on the environmental field studies and constructability reviews, are shown on Attachment A.

A typical upland installation of a work pad at a structure location involves several steps: (1) removal of vegetation, if necessary; (2) grading to create a level work area, and; (3) removal of the upper three to six inches of topsoil (which is typically unsuitable to support the necessary construction activities). The topsoil would be temporarily stockpiled within the ROW, typically near the work pad. A rock base, which allows drainage, would be layered on top of filter fabric, if necessary. Additional layers of rock with dirt/rock fines are typically placed over this rock base.

E&S controls would be installed as necessary before commencing installation of the work pads. Excavated soils that are generated during construction activities would not be stored or stockpiled inside of a wetland. Materials that could not be utilized as backfill would be disposed in accordance with applicable regulations.

After construction, the work pads and the temporary matting in wetlands and for the stream crossing would be removed.

6.3 FOUNDATION INSTALLATION

The proposed monopole structure would have a direct-embedded foundation and the terminal structures would have concrete foundations. The construction would require equipment such as: augers, trucks for hauling excavated material, drill rigs, cranes, and dump trucks for installing pre-cast concrete foundations and processed granular backfill. If groundwater is encountered, pumping (vacuum) trucks or other suitable equipment would be used to pump water from the excavated areas before structure erection. The water would then be discharged in accordance with applicable local, state, and federal requirements.

6.4 STRUCTURE ASSEMBLY

Structure sections, structure components and hardware would be delivered to the structure locations using flat-bed trucks and then assembled using cranes and bucket trucks.

6.5 STRUCTURE REMOVAL

After construction, the existing 7943A structure would be demolished and removed. The equipment required for these activities would be generally the same as required for installing the new structures, as described above.

6.6 DUCT BANK AND CABLE INSTALLATION

Construction of the duct bank and cable system will consist of the following activities:

- excavation of the duct bank trench;
- segregating spoils for subsequent reuse during restoration;
- installation of conduits within the trench;
- placement of concrete around conduits;
- backfilling concrete duct bank with approved material (primarily native subsoil and topsoil); and
- restoring affected areas by revegetating with an appropriate seed mix and stabilizing with mulch, as appropriate.

Once the duct bank is constructed the cable system will be installed. This work will include: pulling the cable, the fiber optic cables, and the ground conductor into the conduits; terminating cables at the Scitico and Nutmeg Solar LLC terminal structures; installing link boxes and making connections for the cable grounding system.

Equipment used during the construction of the duct bank will consist of a concrete truck, backhoe, and pickup trucks. Equipment used during installation of the cable system will consist of a cable pulling winches, cable trailer, and pickup trucks.

6.7 RESTORATION

Restoration activities for the Project would include the removal of construction debris and temporary fencing, as well as the removal of temporary construction mats and work pad areas. Areas affected by construction would be re-graded as practical and stabilized using revegetation before removing temporary E&S controls.

6.8 WASTE MANAGEMENT

Waste materials, such as structure components (i.e., structural steel, shield wire, associated hardware, etc.) and any other construction debris would be disposed of in accordance with Eversource's BMPs and applicable regulations or recycled consistent with regulations and Eversource policies.

Excess soils would be managed in accordance with the *Connecticut Guidelines,* the Company's BMPs, applicable regulations and disposal facility policies.

6.9 CONSTRUCTION SCHEDULE AND WORK HOURS

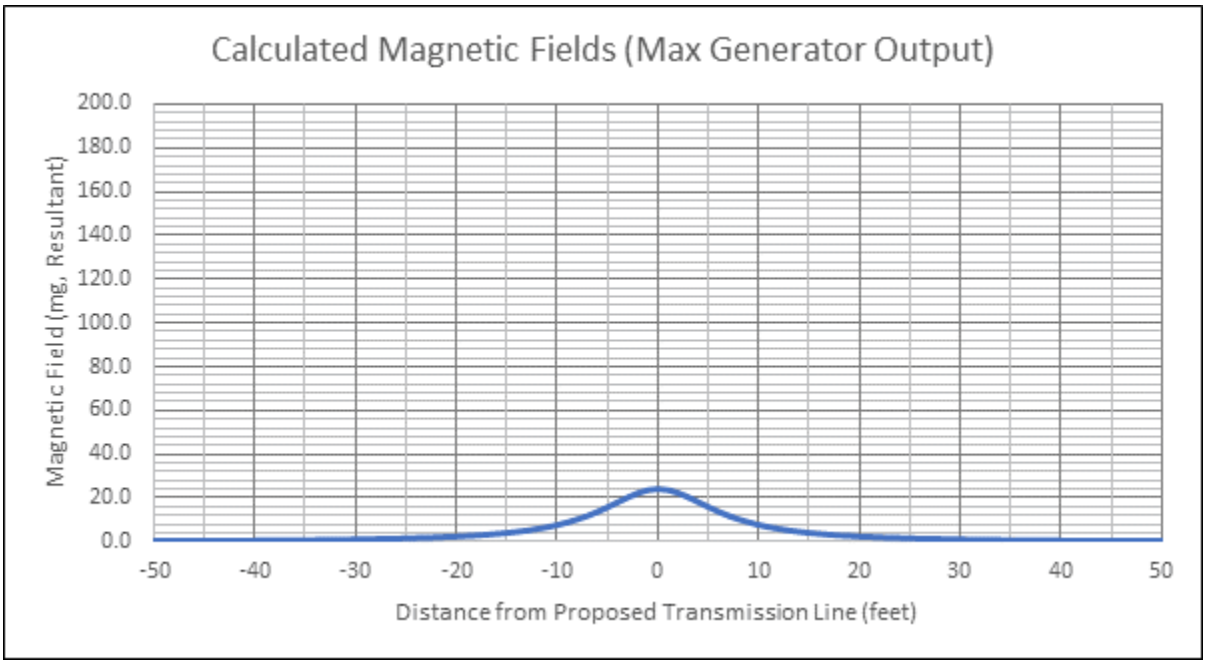
Eversource proposes to begin construction during summer 2019 and expects that the construction, including restoration, would be completed by fall 2020. Normal work hours would be Monday through Saturday from 7:00 AM to 7:00 PM. Sunday work hours may be necessary due to delays caused by inclement weather and/or outage constraints.

7. UNDERGROUND CABLE MAGNETIC FIELDS

The maximum anticipated magnetic field was calculated at 24.4 mG. This was assuming that the cables were carrying 100 amperes per phase, which is equivalent to 20 Mega Volt Amperes at 115-kV. The cables were assumed to be located at a depth of 42 inches below grade level for this calculation.

The modifications that would most contribute to changes in the magnetic field level would be from the addition of the new underground transmission line. These changes are summarized in Figure 3 below. However, the proposed structure relocations (within and outside the substation's fenced area) and installation of approximately 300 feet of an underground 115-kV line to connect into the new Collector Substation are not anticipated to materially affect the magnetic field levels at the boundaries of the (combined) subject property (See Figure 3).

Figure 3: Calculated Magnetic Fields



8. MUNICIPAL AND PROPERTY OWNER OUTREACH

In May 2019, Eversource briefed Enfield municipal officials of the Petition filing. Eversource also provided the Town Manager with written notice of the Petition filing.

In May 2019, Eversource also initiated outreach to owners of properties abutting Scitico Substation and owners of properties abutting that portion of the ROW where the work will occur. In conjunction with the submission of this Petition, all abutting property owners were notified of the filing, provided information on how to obtain additional information on the Project, and how to submit comments to the Council. In addition to conducting outreach to those direct abutters, Project Outreach representatives conducted door-to-door outreach to an expanded area of nearby property owners. Further, Eversource representatives will contact abutting and nearby property owners to provide advance notification to them as to the start of construction activities and continue to update property owners throughout construction and restoration.

9. CONCLUSION

Section 16-50k(a) of the Connecticut General Statutes provides that a Certificate of Environmental Compatibility and Public Need is needed for proposed modifications of a facility that the Council determines may have a "substantial adverse environmental effect." Eversource respectfully submits that the proposed modifications would not result in a substantial adverse effect on the environment or ecology, nor would they 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 and, therefore, no Certificate is required.

10. COMMUNICATION

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

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

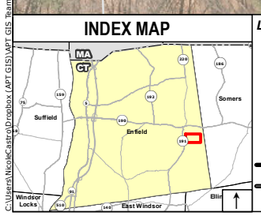
By: _____
Kathleen M. Shanley
Manager – Transmission Siting

List of Attachments

Attachment A: Scitico Substation-Nutmeg Solar Interconnection – Aerial Map
Attachment B: Scitico Plans & Sections - Drawing No. 14910-92001
Attachment C: Existing and Proposed Cross Section
Attachment D: Typical Underground Cable Duct Bank
Attachment E: Wetland and Watercourse Report
Attachment F: Letter to the Abutters and Affidavit

ATTACHMENT A

INDEX MAP



Legend

- Existing Structure
- Proposed Structure
- Existing Structure to be Removed
- Proposed New Structure for Ungerground Line
- Existing Gate
- Existing Right-of-Way (ROW)
- Existing Access
- Proposed Access
- Existing Overhead Eversource Line
- Existing Overhead Eversource Line to be Removed
- New Overhead Conductor Line
- New Underground Eversource Line
- Approximate Tree Line
- Existing Fence
- Proposed Collector Substation (by others)
- Temporary Construction Matting
- Stone Work Pad
- Pull Pad
- Proposed Tree Clearing
- Delineated Wetland Boundary Outline
- Field Delineated Wetland
- Natural Diversity Database Area (Dec 2018)
- Eversource-Owned Property
- Parcel Boundary
- 5' Contour Line
- 1' Contour Line

Base Map Source: CTECO 2016 Aerial Imagery

Map Notes:
Not for Construction.
Parcel and ROW boundaries are approximate (NOT survey).
Repairs to existing access roads within wetlands with permanent fills are exempt discharges under 323.4(a)(2) provided that the limit of fill does not exceed the footprint of the existing fill through wetlands areas. Maintenance repairs do not include modifications that change the character, scope, and size of the original fill design.
Temporary impacts associated with construction mats in previously disturbed wetland and upland areas either within vernal pool (VP) depressions or management area (100' of VP's edge) are eligible under the Army Corps of Engineers CT General Permit as a Self-Verification eligible activity.

1 inch = 100 feet
0 50 100 Feet

NO.	DATE	REVISIONS	BY	CHK	APP	APP

EVERSOURCE ENERGY

Scitico Substation – Nutmeg Solar Interconnection
Bailey Road, Enfield, CT

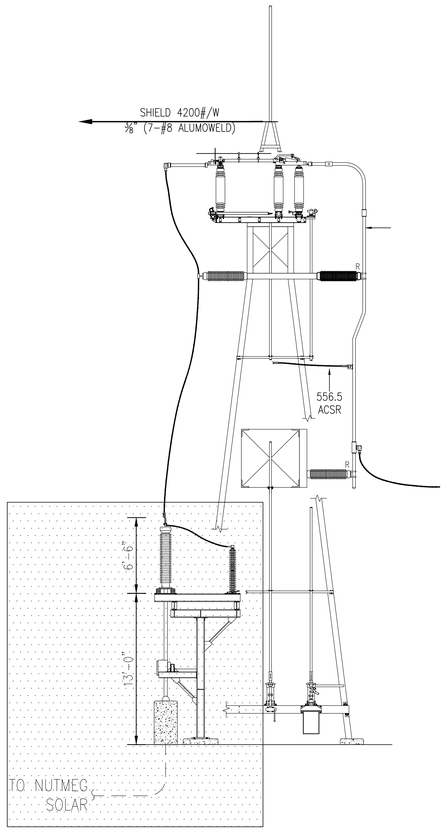
June, 2019

DAVISON ENVIRONMENTAL
ALL-POINTS TECHNOLOGY CORPORATION

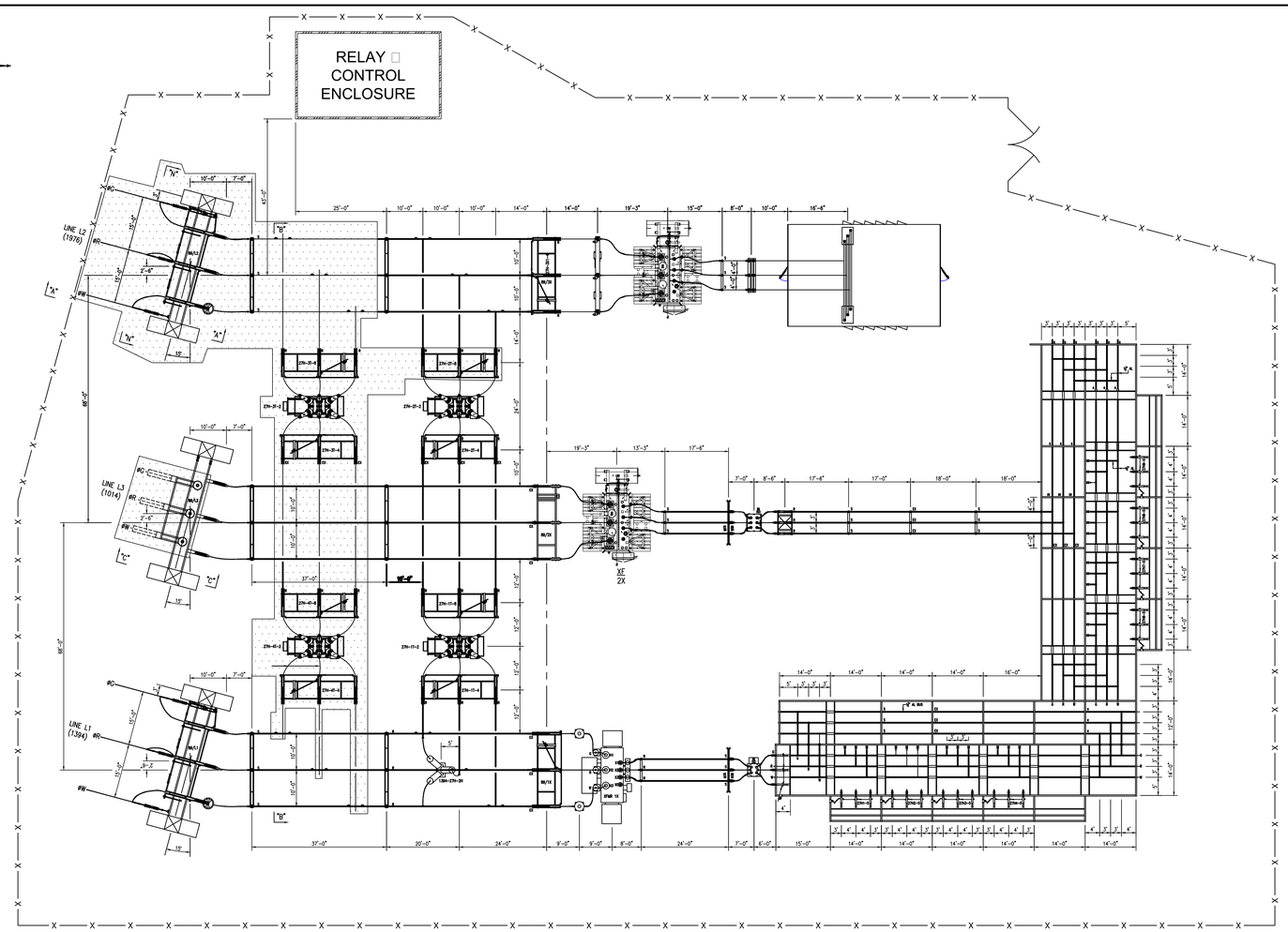
Scitico Substation – Nutmeg Solar Interconnection
Bailey Road, Enfield, CT
Abutters List

LLN Number	Parcel Address	City	State	Owner Name
109-7	38 Bailey Road	Enfield	CT	Robert Berry
109-8	32 Bailey Road	Enfield	CT	Richard & Jean Houle
109-9	28 Bailey Road	Enfield	CT	Joseph & William Sikorski
109-10	26 Bailey Road	Enfield	CT	Joseph Smith Jr
109-11	22 Bailey Road	Enfield	CT	Linda Scott & Aram Brodeur
109-12	Bailey Road	Enfield	CT	James Lefebvre
109-13	18 Bailey Road	Enfield	CT	James Lefebvre
109-34	20 Bailey Road	Enfield	CT	Connecticut Light & Power Company
109-38	36 Bailey Road	Enfield	CT	Richard & Jean Houle

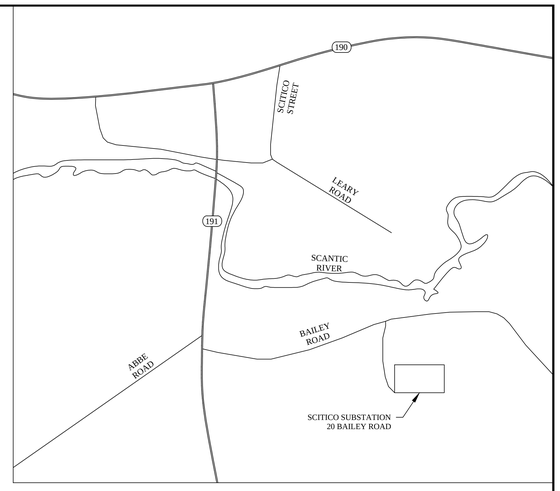
ATTACHMENT B



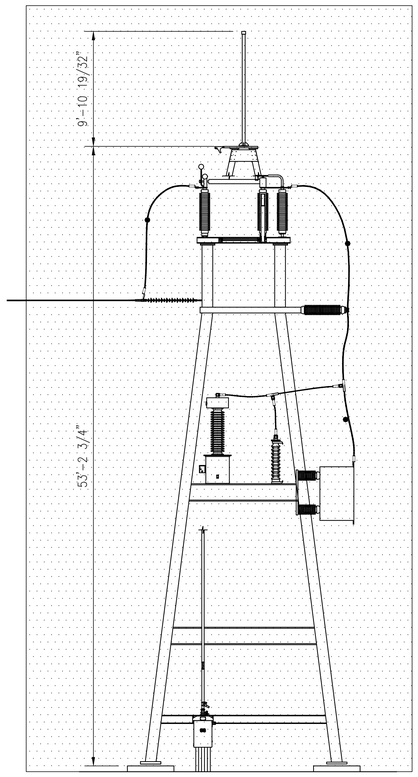
SECTION VIEW C-C
SCALE: 1"=5'



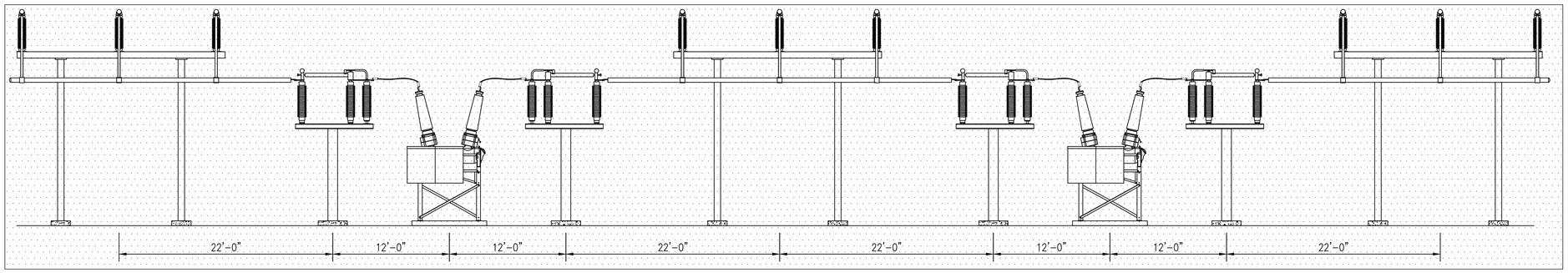
GENERAL ARRANGEMENT PLAN VIEW
SCALE: 1"=15'



LOCATION PLAN
SCALE: 1"=300'



SECTION VIEW A-A
SCALE: 1"=5'



SECTION VIEW B-B
SCALE: 1"=5'

LEGEND

SUBSTATION FENCE — X — X —

2018 ADDITIONS

REV AK AL ADDITIONS

REVISIONS DURING CONSTRUCTION					
AK AL	9/18	RING BUS WO #40453155, BKR INSTALL WO #40485901	JRR	MRC	PCB

NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP

EVERSOURCE ENERGY

TITLE
SCITICO 27H
PLAN & SECTIONS
CONNECTICUT SITING COUNCIL
ENFIELD, CT

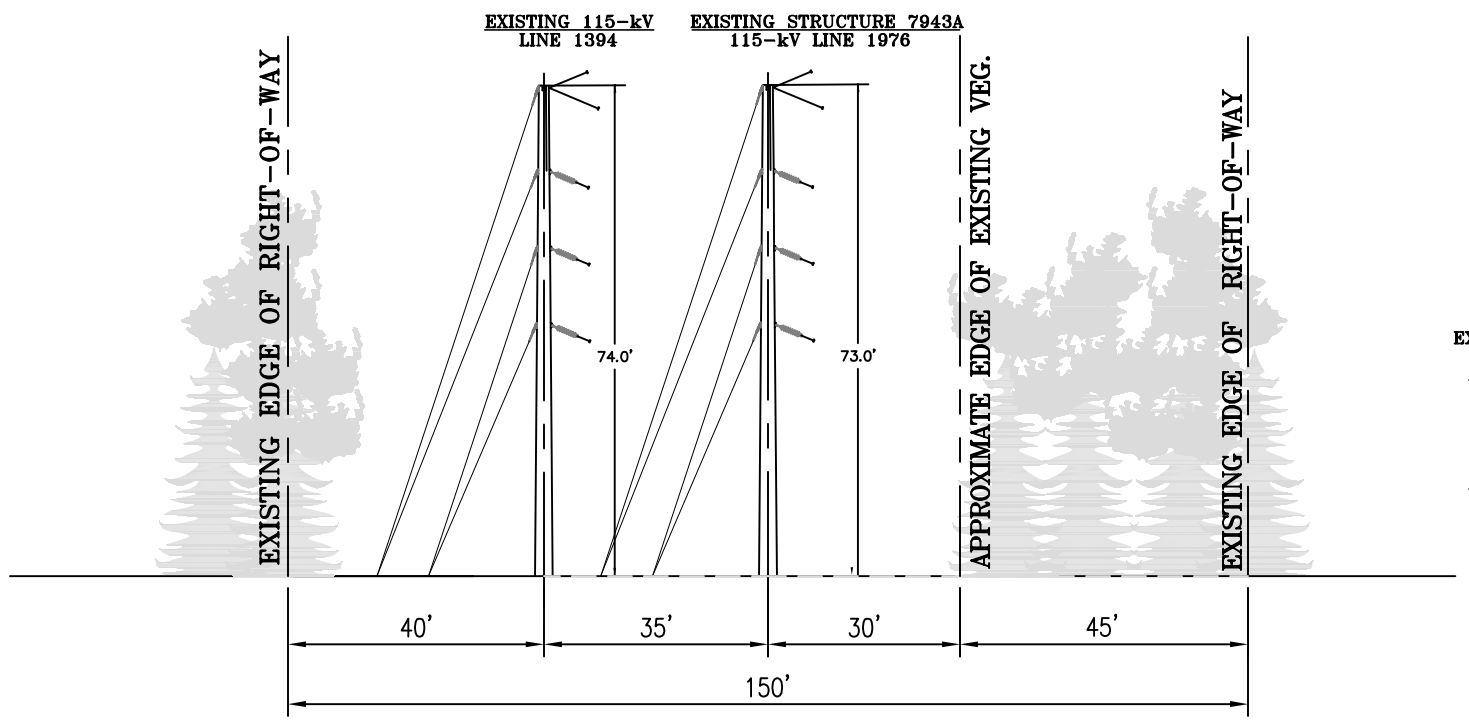
DT JRR (HDR)	CHKD MRC (HDR)	APP	APP
DATE 5/18	DATE 5/18	DATE	DATE
H-SCALE AS NOTED	SIZE E	FIELD BOOK & PAGES	
V-SCALE AS NOTED	V.S.	R.E. DWG	
R.E. PROJ. NUMBER		DWG NO. 14910-92001	

ES VER. 05/2015

4/30/2019 9:21 AM - sstmod - C:\Users\sstmod\OneDrive - Eversource Energy\Substation Projects\Scitico 27H\New Switchgear & T 68\14910-92001.DWG - REV AK AL Additions

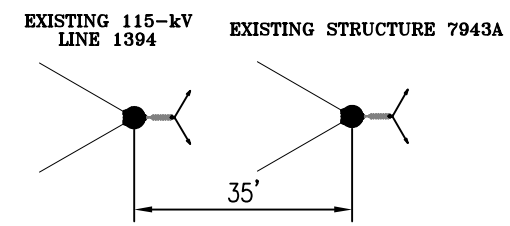
ATTACHMENT C

4/24/2019 2:35 PM - kayanr - K:\Engineering\Cable Engineering\Project Files\Gen...\XS-1_petition_rk1.dwg - Construction-All ES VER: 05/2015

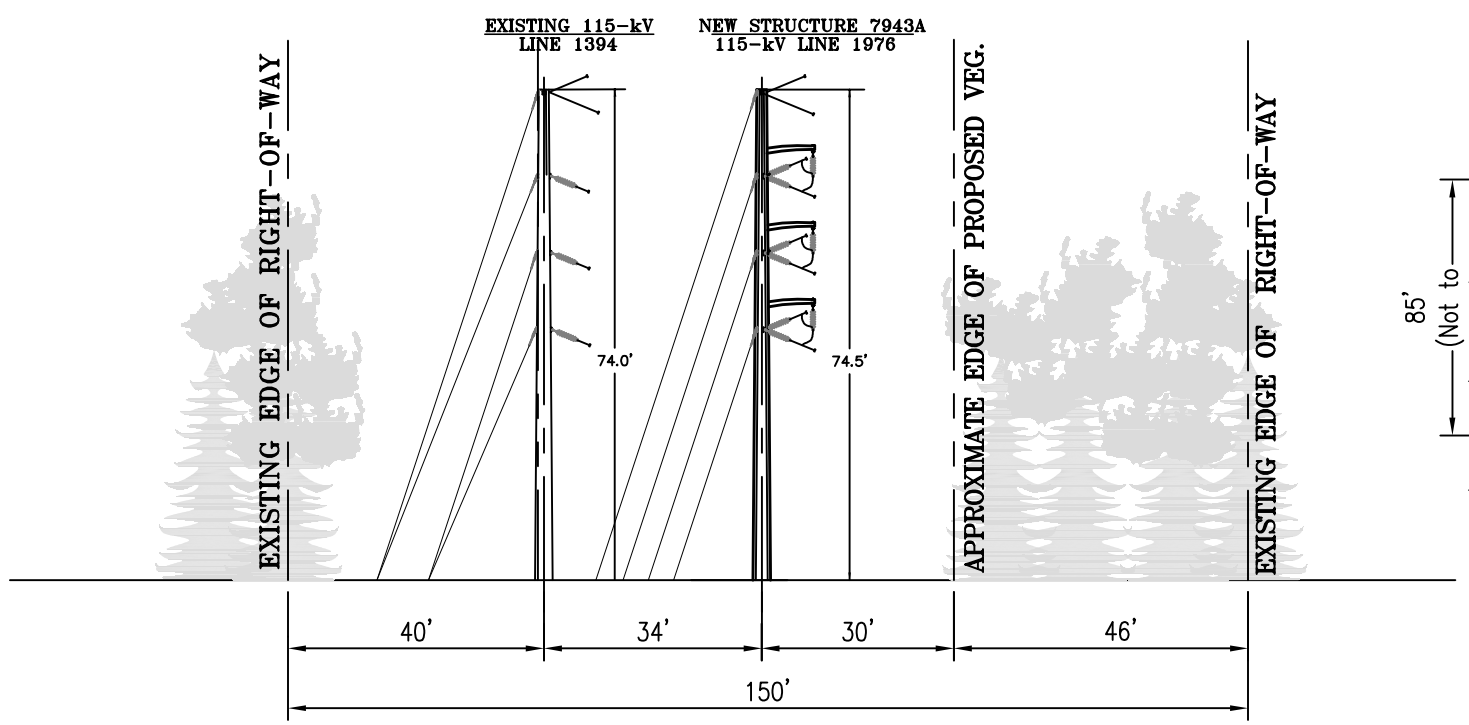


EXISTING R.O.W.

LOOKING EAST
IN THE TOWN OF ENFIELD

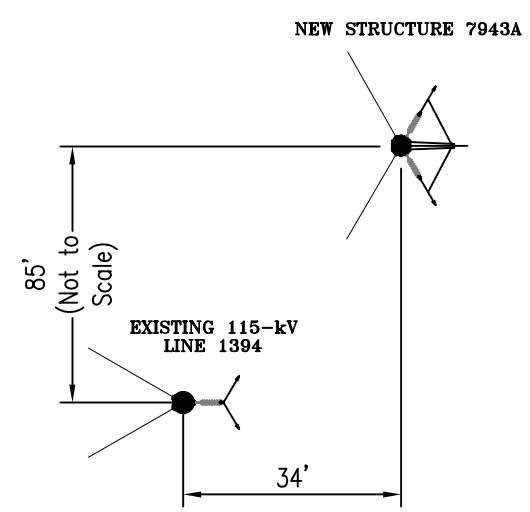


SECTION A-A
EXISTING PLAN VIEW



PROPOSED CONFIGURATION.

LOOKING EAST
IN THE TOWN OF ENFIELD

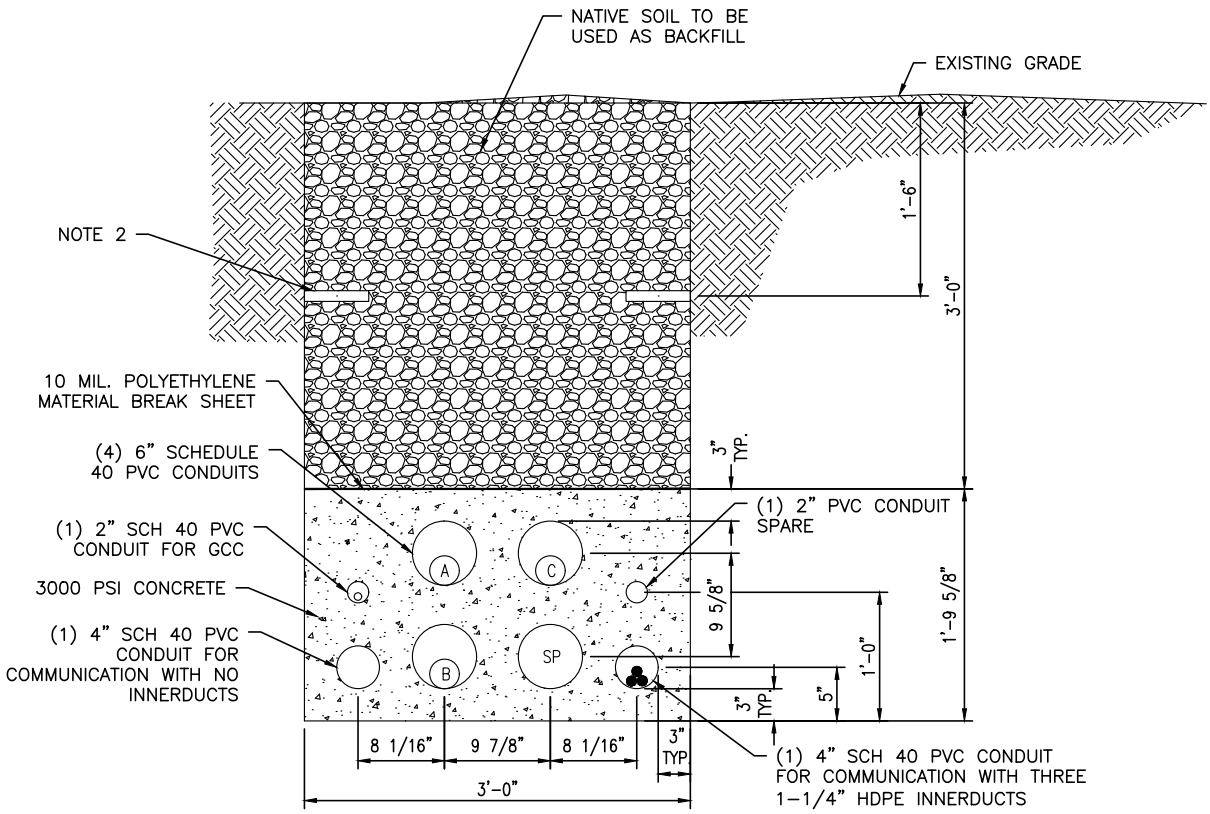


SECTION B-B
PROPOSED PLAN VIEW

EVERSOURCE ENERGY

TITLE	SCITICO SUBSTATION - WEST HAMPDEN LINE 1976 EXISTING/ PROPOSED CROSS SECTION ENFIELD, CT		
BY RK	CHKD	APP	APP
DATE 4/24/19	DATE	DATE	DATE
H-SCALE 1"=30'	SIZE B	FIELD BOOK & PAGES	
V-SCALE 1"=30'	V.S.	R.E. DWG	
R.E. PROJ. NUMBER		DWG NO.	XS-1

ATTACHMENT D



NOTES:

1. DIMENSIONS SHOWN ARE NOMINAL. ACTUAL DIMENSIONS MAY BE ADJUSTED IN ACCORDANCE WITH DUCT SPACER MANUFACTURER'S STANDARD DESIGN.
2. TWO CONTINUOUS 6" WIDE RED WARNING TAPES TO BE SET AT EACH EDGE OF THE DUCTBANK WIDTH.

REVISIONS DURING CONSTRUCTION

NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP

EVERSOURCE ENERGY

TITLE
SCITICO 27H TO NUTMEG
115-kV TRANSMISSION LINE
DUCT BANK DETAILS
ENFIELD, CT

BY (HDR)	CHKD (HDR)	APP (HDR)	APP
DATE	DATE	DATE	DATE
H-SCALE N.T.S.	SIZE A	FIELD BOOK & PAGES	
V-SCALE N.T.S.	V.S.	R.E. DWG	
R.E. PROJ. NUMBER		DWG NO. 14190-11022	

ES VER: 05/2015

4/2/2019 2:10 PM - MKLUCKA - C:\Users\mklucka\appdata\local\temp\AcPublish_12820\MUG-01.dwg - Construction-All

ATTACHMENT E

May 22, 2019

Mark Pappalardo
Eversource Energy
107 Selden Street
Berlin, CT 06037

RE: Wetland and Watercourse Delineation
Scitico Substation – Nutmeg Solar Interconnection Project
Bailey Road, Enfield

Mr. Mark Pappalardo,

At your request, I conducted an inspection on the above-referenced location on March 17, 2018. The purpose of the inspection was to delineate wetlands and watercourses within the Eversource Energy property at Scitico Substation on Bailey Road in Enfield, Connecticut ("Site"). The limits of Connecticut and federal-jurisdiction wetlands at the Site were delineated in accordance with Section 22a-38(15) of the Connecticut General Statutes (CGS); and the U.S. Army Corps of Engineers (ACOE), were delineated in accordance with the Regional Supplement to the Corps of Engineers Wetland Delineation Manual Northcentral and Northeast Region (Version 2.0) (January 2012).

Two isolated wetlands were delineated proximate to structure 7943A on the 1976 Line. WF 1 – 6 delineate a small, seasonally saturated Palustrine Scrub/Shrub (PSS) wetland to the west of the structure. This wetland is located fully within the maintained right-of-way ("ROW") and drains to the west, where it outlets into a drainage swale along the east side of the substation. WF 7 – 15 delineate a seasonally saturated Palustrine Scrub/Shrub (PSS)/Palustrine Emergent (PEM) wetland to the south of the structure. This wetland is located predominantly within the maintained ROW, with only the southern fringe forested.

Wetlands soils within each wetland are characterized by Ridgebury and Leicester soil types. The Ridgebury series consists of very deep, somewhat poorly and poorly drained soils formed in glacial till derived mainly from granite, gneiss and schist. They are nearly level to gently sloping soils in low areas in uplands. This series includes phases that are poorly drained and the wetter part of somewhat poorly drained. A perched, fluctuating water table above the dense till saturates the solum to or near the surface for 7 to 9 months of the year.

The Leicester series consists of very deep, poorly drained loamy soils formed in friable till. They are nearly level or gently sloping soils in drainageways and low-lying positions on hills. Depth to bedrock is commonly more than 6 feet. Rock fragments range from 5 to 35 percent by volume to

a depth of 40 inches and up to 50 percent below 40 inches. Leicester soils have a water table at or near the surface much of the year.

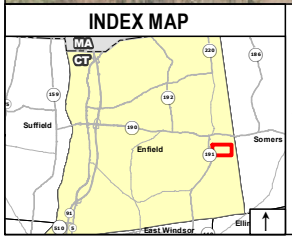
If you have any questions regarding these findings, please feel free to contact me.

Respectfully submitted,

Matthew Davison, PWS, PSS, CPESC, CT Forester

Enclosure: Wetland Map

INDEX MAP



Legend

- Existing Structure
- Existing Gate
- Existing Right-of-Way (ROW)
- Existing Fence
- 5' Contour Line
- 1' Contour Line
- Delineated Wetland Boundary Outline
- Field Delineated Wetland
- Watercourse (not delineated; CTDEEP)*
- Open Water (not delineated; CTDEEP)*
- Critical Habitat (2009)*
- Natural Diversity Database Area (Dec 2018)
- FEMA 100-Year Flood Zone
- Floodway*
- Eversource-Owned Property
- Parcel Boundary

N W E S

1 inch = 150 feet

75 37.5 0 75 Feet

Map Notes:
Parcel and ROW boundaries are approximate (NOT survey).
**Resource not in mapped extent*
Base Map Source: CTECO 2016 Aerial Imagery

EVERSOURCE ENERGY

Scitico Substation
Nutmeg Solar Interconnection
Bailey Road, Enfield, CT

May, 2019

DAVISON ENVIRONMENTAL
ALL-POINTS TECHNOLOGY CORPORATION

C:\Users\Nicole.Castro\Dropbox (APT GIS)\APT GIS Team Folder\Projects\Eversource\Nutmeg_Solar_Interconnection_870\mxd\Nutmeg_Solar_Interconnection_SciticoSS_Wetland_Map_letter.mxd

ATTACHMENT F

P.O. Box 270
Hartford, CT 06141-0270

July 16, 2019

Dear Neighbor,

At Eversource, we're always working to serve you better. We are submitting a Petition to the Connecticut Siting Council (CSC) for proposed modifications to Eversource's Scitico Substation, the existing 1976 transmission line, and a new underground transmission line on Eversource property in Enfield, Conn.

The proposed Scitico Substation Project upgrades are necessary to interconnect to the Nutmeg Solar Collector Substation to the Scitio Substation. On April 25, 2019, The Connecticut Siting Council (CSC) approved Petition No. 1352-Nutmeg Solar, LLC for a solar photovoltaic electric generating facility on approximately 162 acres of nine separate parcels located generally south of Bailey Road and east of Route 191 (Broad Brook Road) and associated electrical interconnection to Eversource Energy's Sciticio Substation at 20 Bailey Road in Enfield. You are receiving this letter because the upgrades would be constructed on Eversource's property, within the existing right of way, as well as on property owned by Nutmeg Solar.

The proposed modifications include:
The Collector Substation (Nutmeg Solar, LLC) will interconnect to the Scitico Substation from a new 115-kV terminal structure to Sciticio via an approximately 300-foot, 115-kV underground cable (1014 line) on Eversource and Nutmeg property. The interconnection will require substation modifications, relocation of the 1976 line, a new terminal structure for the 1976 line, and a cable termination structure for the underground cable on Eversource property. Vegetation removal would be required to facilitate the work.

What You Can Expect
Once we receive all the necessary approvals for this proposed work, construction is expected to begin summer 2019. We anticipate to complete construction, including restoration of affected areas, by fall 2020.

Contact Information
With this letter, Eversource is providing notice to you of our proposed work activity. If you have any comments or concerns about the project, please send them to the CSC at the following address: Melanie Bachman, Executive Director, Connecticut Siting Council, Ten Franklin Square, New Britain, CT, 06051. You may also email them to siting.council@ct.gov.

Our Commitment to You
We are committed to being a good neighbor and doing our work with respect for you and your property. Pending project approvals, an Eversource representative will be in touch with you closer to the start of construction to discuss the schedule in more detail. In the meantime, for more information about this work, please call 1-800-793-2202, or send an email to TransmissionInfo@eversource.com.

Thank you.

Sincerely,

Branden Reid
Eversource Project Manager - Transmission

AFFIDAVIT OF SERVICE OF NOTICE

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

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

Municipal Official:

Christopher Bromson
Town Manager
Town of Enfield
820 Enfield St.
Enfield, CT 06082

I also certify that I caused notice of the proposed modifications to be served by mail or courier upon 6 owners of abutting properties shown on the maps in Attachment A to the Petition.

Branden Reid
Project Manager

On this the 17 day of July, 2019, before me, the undersigned representative, personally appeared, Branden Reid, known to me (or satisfactorily proven) to be the person whose name is subscribed to the foregoing instrument and acknowledged that she executed the same for the purposes therein contained.

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

JOAN M. CIZEK
NOTARY PUBLIC - CT 173654
MY COMMISSION EXPIRES MAR. 31, 2022

Notary Public
My Commission expires: