

March 23, 2021

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

Re: Eastern Connecticut Reliability Solution – Modifications to Card Substation

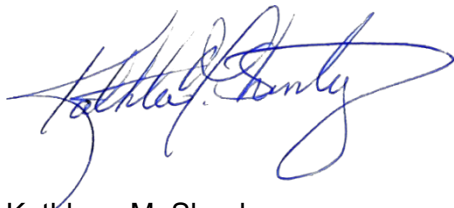
Dear Ms. Bachman:

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 the Card Substation in the Town of Lebanon, Connecticut (“Petition”).

Prior to submitting this Petition, Eversource representatives briefed Lebanon officials about the Project and provided written notice to all abutting property owners of the proposed work and also of the filing of this Petition with the Connecticut Siting Council (“Council”). A list identifying the notified property owners is provided in the Petition.

Per the Council’s instructions in response to COVID-19, Eversource is submitting this filing electronically and will be providing one hard copy for the Council’s records. Eversource further understands that the Council will invoice the Company for the requisite \$625 filing fee.

Sincerely,



Kathleen M. Shanley
Manager – Transmission Siting

Enclosure

cc: Kevin Cwikla, First Selectman, Town of Lebanon

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 CARD
SUBSTATION IN THE TOWN OF LEBANON, CONNECTICUT

1. Introduction

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 proposed modifications to the Card Substation (the “Project”) that are described herein. 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 implement one of the system solutions determined by the Independent System Operator – New England to address multiple thermal overloads and low voltage violations in the Montville Substation to Card Substation corridor caused by contingency scenarios involving the loss of the existing 345/115-kilovolt (“kV”) autotransformer at Card Substation (“Substation”). The proposed solution is to add a second 345/115-kV autotransformer at Card Substation and upgrade certain 115-kV components of the Substation to meet Bulk Power Standards (“BPS”). The proposed modifications within the Card Substation will mitigate the identified contingencies and improve reliability of the transmission system.

3. Project Description

The Project consists of modifications to the Card Substation located on Eversource's approximately 125-acre property at 181 Card Street in Lebanon, as shown on Attachment A – "Aerial Map". The Substation is a 345- to 115-kV, 115- to 69-kV, and 115- to 23-kV facility, with one (1) 345-kV to 115-kV transformer, two (2) 115- to 69-kV transformers, two (2) 115- to 23-kV transformers, four (4) 345-kV transmission circuits, four (4) 115-kV transmission circuits, two (2) 69-kV transmission circuits, and five (5) 23-kV distribution circuits. Most of the planned modifications to the Substation would take place within the existing fenced area. However, it would be necessary to expand the fenced area by approximately 45 feet by 90 feet along the eastern side of the Substation to accommodate a new 115-kV control enclosure. Details of the proposed modifications are described below and are shown on Attachment B: "Card Substation - General Arrangement - Plan & Sections – Connecticut Siting Council":

- Add a second 345/115-kV autotransformer;
- Install one new 345-kV circuit breaker;
- Terminate the 345-kV terminal of the new 345/115-kV autotransformer into the bus;
- Relocate the existing 2X transformer connection to the 115-kV ring bus to share a position with the 1220 Line;
- Terminate the 115-kV terminal of the new 345/115-kV autotransformer into the bus using underground cable;
- Upgrade the existing and proposed protection systems such that the Substation 115-kV system meets BPS standards and satisfies, "NPCC Regional Reliability Reference Directory # 4 – Bulk Power System Protection Criteria";
- Install a new 115-kV control enclosure for 115-kV protection and control equipment;

- Expand the 23-kV substation yard to the south (by 90 by 45 feet) to accommodate the new 115-kV control enclosure;
- Install a new primary and backup trench and conduit between the 115-kV substation equipment and the new control enclosure; and,
- Install a 115-kV circuit breaker in series with the existing 14T circuit breaker located between the 1490 Line and the 5X autotransformer positions to address system planning contingencies.

4. Construction Methods

The Project would be constructed, operated, and maintained in accordance with established industry practices and in accordance with the Company's Best Management Practices ("BMPs"). Construction-related vehicular traffic would utilize the existing Substation access road from Card Street. Project-related traffic is expected to be temporary and highly localized in the vicinity of the Substation. Construction activities would include the following:

Access Road Improvement

Access to the Substation will utilize the existing road from Card Street. E&S controls would be installed as necessary before the commencement of any improvements that might be required.

Clearing

While the majority of the Project would be located within the existing Substation, the small expansion to accommodate the control house will require the removal of a few small trees and some vegetation that have grown along the existing fence line, but otherwise most of the area is already cleared due to the existence of the overhead transmission lines (the 1080 and 1490 Lines).

Grading

No significant grading is required as all aspects of the proposed work will occur on surfaces that are currently at or near the proposed finished grade.

Foundation Installation

The proposed new equipment will be supported by concrete foundations. Foundation installation work would require the use of equipment such as excavators, dump trucks, concrete trucks, and light duty trucks. If groundwater is encountered, pumping (vacuum) trucks or other suitable equipment would be used to pump water from the excavations. The water would then be discharged in accordance with applicable local, state and federal requirements. Excavated soils that are generated during construction activities would be stored or spread in an upland area within Eversource's property, to the extent practicable. Materials that cannot be utilized as backfill would be disposed in accordance with applicable regulations. As needed, additional grounding materials may be installed, depending on site-specific soil conductivity.

Equipment Assembly/Installation/Removal

The proposed equipment, components and hardware would be delivered to the Substation using flat-bed trucks, either pre-assembled or to be assembled on-site and installed. Equipment, materials and construction vehicles will be staged on-site. After installation, the area around the installed equipment will be backfilled and graded with crushed stone.

Construction Schedule and Work Hours

Eversource proposes to begin construction in August 2021 and expects to complete construction by December 31, 2022. 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 and/or outage constraints. In the event this is necessary, the Council, Town and abutters will be provided notice of the proposed Sunday and/or evening work hours.

5. The Project would not have a substantial adverse environmental effect or cause a significant adverse change or alteration in the physical or environmental characteristics because:

a) Radio and Television Interference

There would be no change to the existing television or radio interference at the Substation.

b) Sound Pressure

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

c) Substation Appearance

The Project would result in some minor changes to the visual character of the Substation, though Eversource does not believe that the change would result in a substantial deviation from the existing character of the Substation. The Project is largely surrounded by forest and is only visible from certain locations along Card Street. Accordingly, the Project would not result in a detrimental change to the existing Substation from nearby residences.

d) Substation Security Measures and Lighting

The Substation will use the existing security measures including security cameras, an alarm system. Additional lighting will be installed in the proposed expansion area of the Substation as necessary for safety and security purposes.

e) Environmental Effects

- Eversource's review of the Connecticut Department of Energy and Environmental Protection's ("CT DEEP") Natural Diversity Data Base did not identify any state-listed endangered, threatened, or special concern species within the Project area.
- Eversource does not anticipate the need to disturb or clear any wetland vegetation. The proposed modifications are not located within a 500- or 100-year flood zone.
- A Phase 1A Cultural (archaeological and historical) Resources Assessment of previously recorded cultural resources on file with the Connecticut State Historic Preservation Office (SHPO) was completed by Heritage Consultants ("Heritage") during January 2021. A February 9, 2021 letter from the State of Connecticut Historical Preservation Office indicates that no adverse impacts to cultural resources are anticipated to occur as a result of the proposed modifications.
- The Project would not affect groundwater or surface water resources or cross any aquifer protection areas. No public supply reservoirs are in the vicinity of the Project. Lastly, the Project would not affect public/private water supply wells. Based on Aquifer Protection Areas ("APA") mapping maintained by CT DEEP, there are no APAs within or proximate to the

Project. The Project is not located within a public water supply watershed and no public supply reservoirs or public water supply wells are located within the Project area. No private water supply wells were observed within the Project area during field investigation activities.

Eversource would require its contractors to employ best 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, which would be prepared prior to the commencement of construction.

- 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 Eversource's BMPs.

Typical E&S control measures include, but are not limited to, straw blankets, hay bales, compost filter socks, silt fencing and gravel anti-tracking pads. 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. Temporary E&S control measures would be maintained and inspected throughout the Project to ensure their integrity and effectiveness and for compliance 2002 Connecticut Guidelines for Soil Erosion and Sediment Control ("Connecticut Guidelines") and Eversource's BMPs. Following completion of construction, seeding and mulching or finished surface treatments would

be completed to permanently stabilize the areas disturbed by the work outside the modified Substation fence. The temporary E&S control measures would remain in place until the Project work is complete and all disturbed areas have been stabilized.

- This Project will not require a Stormwater Pollution Control Plan because disturbances would be less than 1 acre.
- No publicly accessible scenic or recreational resources were identified within the Project area.
- Electric and magnetic field levels at the boundary of the Substation property would not change as a result of the modifications.

6. Municipal and Property Owner Outreach

In February 2021, Eversource consulted with the municipal officials in the Town of Lebanon to brief them on the proposed Project. Additionally, Eversource has provided representatives of the Towns with written notice of the Petition filing.

In February 2021, Eversource conducted outreach to property owners abutting the Card Substation property. In conjunction with the submission of this Petition, all 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 C includes the Letter to Abutters, the Affidavit of Service of Notice and the List of Abutters. Eversource representatives will continue contact with adjacent property owners to provide advance notification as to the start of construction activities and will continue to update property owners throughout construction and restoration.

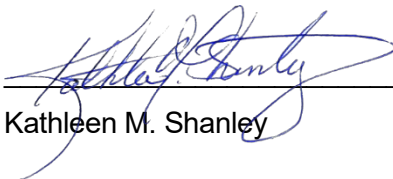
7. Conclusion

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 would have a “substantial adverse environmental effect.” Eversource respectfully submits that the proposed modifications would not result in a substantial adverse effect on the environment or ecology, nor would they 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.

8. 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

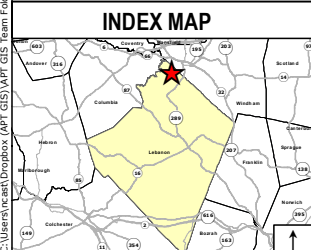
List of Attachments

Attachment A: Card Substation – Aerial Map
Attachment B: Card Substation – General Arrangement – Plan and Sections
Attachment C: Letter to the Abutters, Affidavit of Notice of Service and List of Abutters

Attachment A: Card Substation - Aerial Map



- GENERAL NOTES**
1. THE LIMITS OF DISTURBANCE AS SHOWN DEFINE AREAS WHERE VEGETATION REMOVAL AND GRUBBING, GRADING, AND EXCAVATION MAY OCCUR. MINOR DEVIATIONS MAY BE REQUIRED IN SOME LOCATIONS.
 2. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE RELEVANT PORTIONS OF EVERSOURCE'S BMP MANUAL: CONNECTICUT CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS (BMP MANUAL), UNLESS MORE STRINGENT PROJECT-SPECIFIC MEASURES APPLY.
 3. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF REGULATORY APPROVALS/AUTHORIZATIONS FROM THE CONNECTICUT SITING COUNCIL, AND WITH ALL PROJECT PROTOCOLS.
 4. EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION, AS REQUIRED, TO COMPLY WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, AND EVERSOURCE'S BMP MANUAL, AND APPLICABLE REGULATORY APPROVALS.



Legend

- Existing Structure
- - - Eversource Overhead Line
- Existing Right-of-Way (ROW)
- 5' Contour Line
- - - 1' Contour Line
- X-X-X Existing Fence
- - - Existing Access
- Proposed Underground Cable
- Area of Substation Equipment Upgrades (refer to Site Plan)
- X-X-X Proposed Fence for Substation Expansion
- Proposed Control House
- - - Limit of Disturbance for Substation Expansion
- Proposed 10' Contour Line
- Proposed 2' Contour Line
- Compost Filter Sock
- Delineated Wetland Boundary Outline
- Field Delineated Federal Wetland
- Confirmed Vernal Pool Extent
- 100' Vernal Pool Envelope
- NDDB Area (Dec 2020; none in mapped extent)

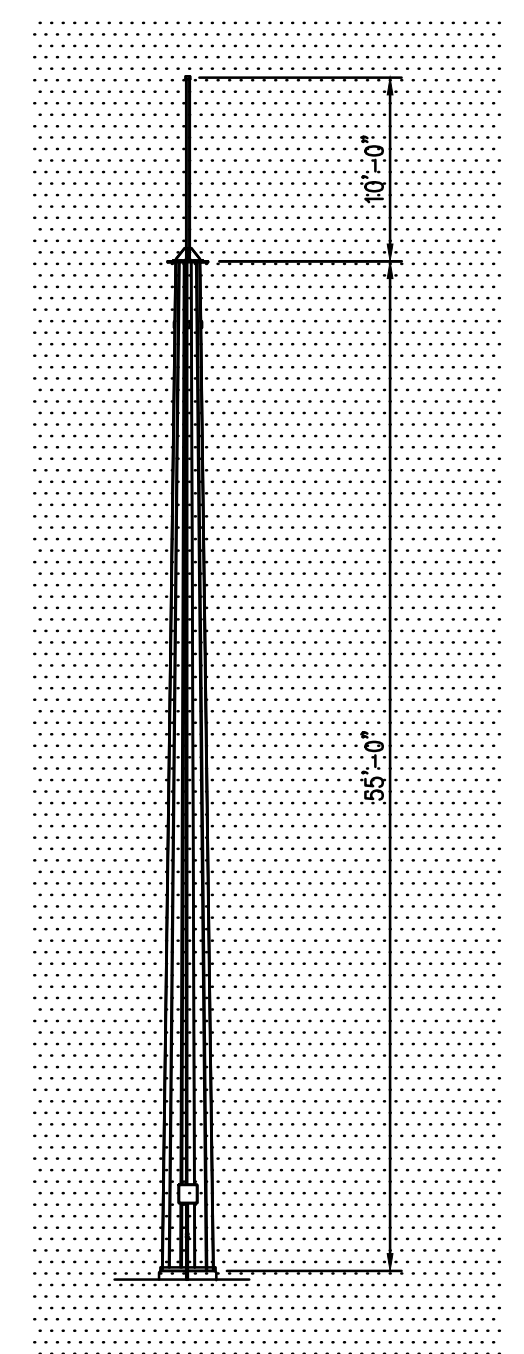
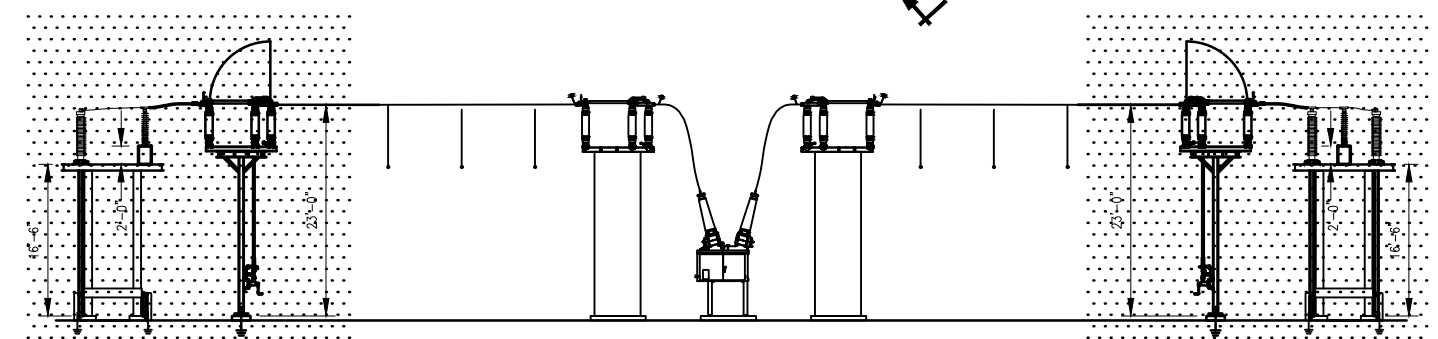
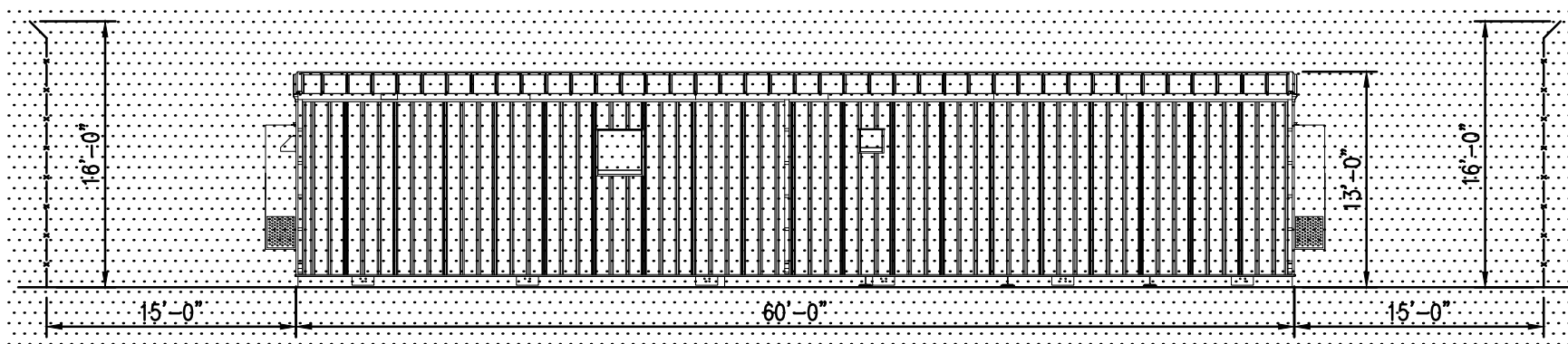
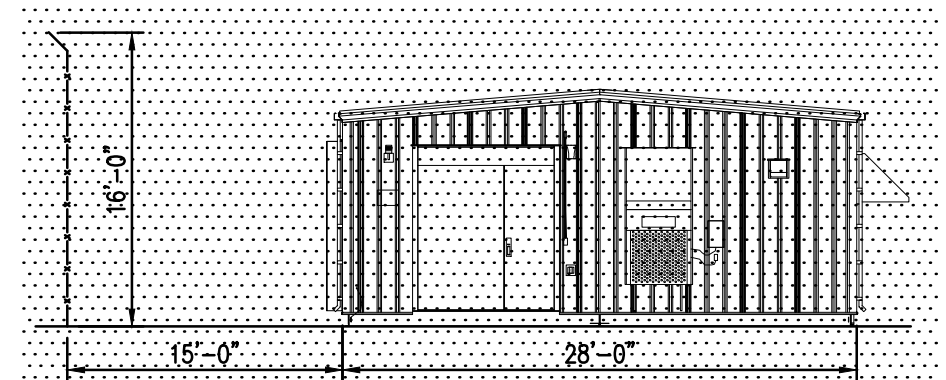
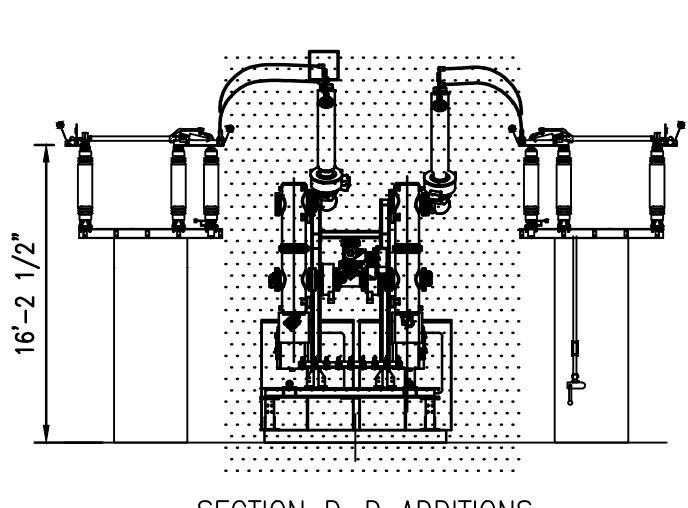
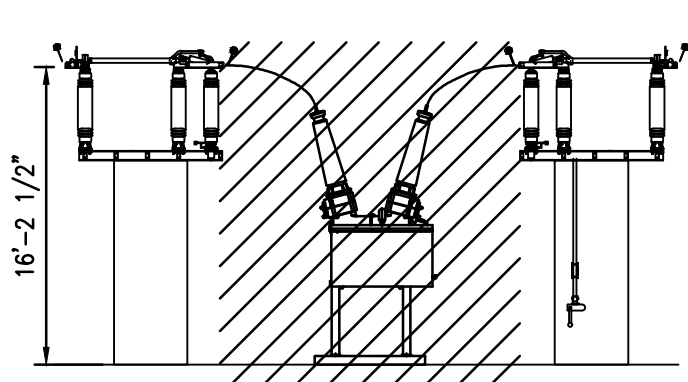
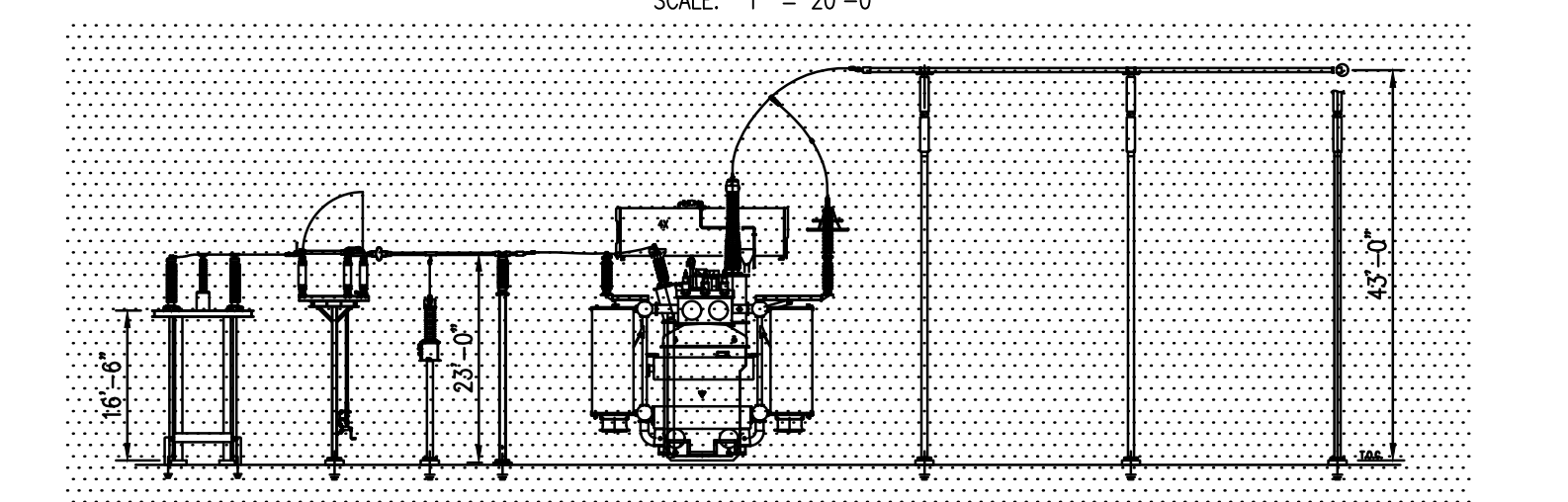
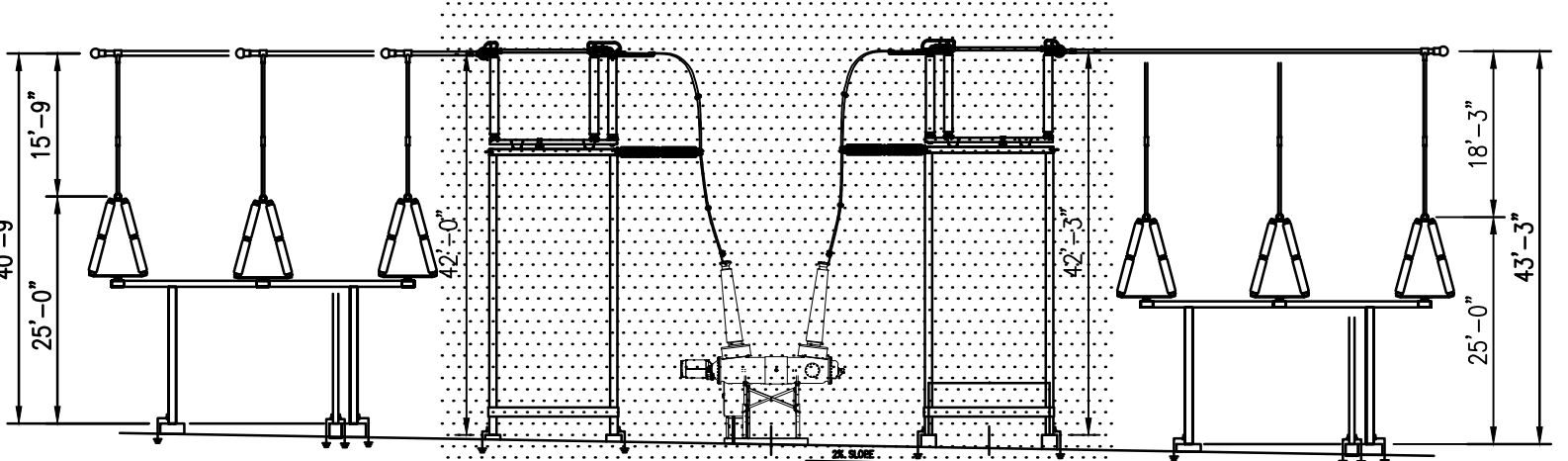
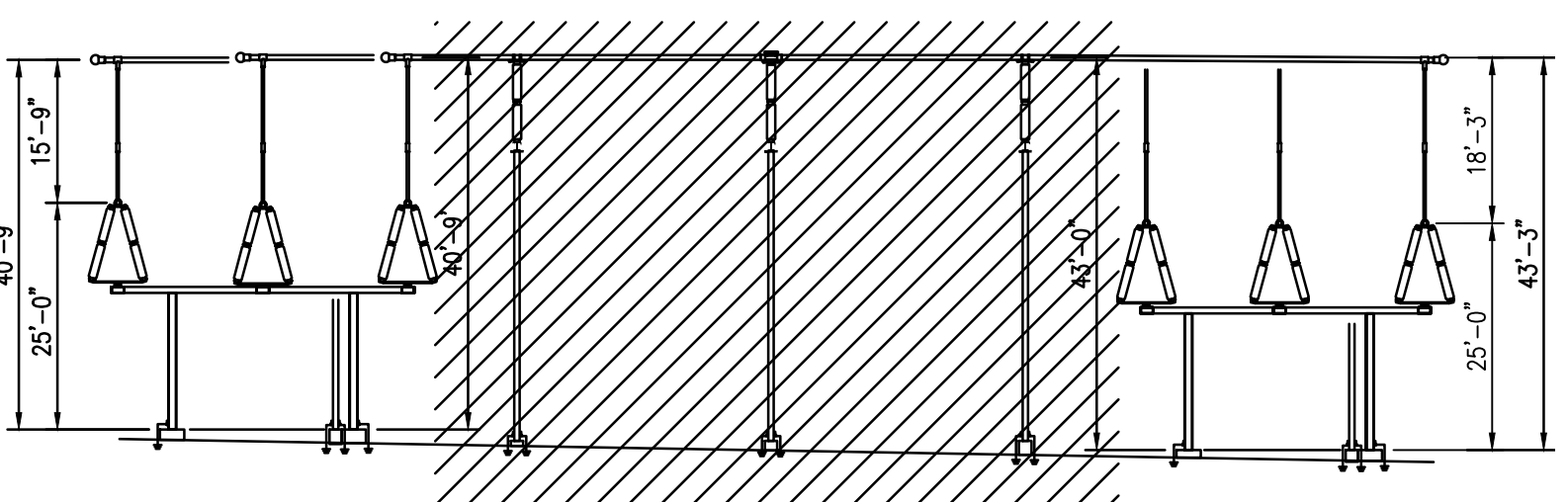
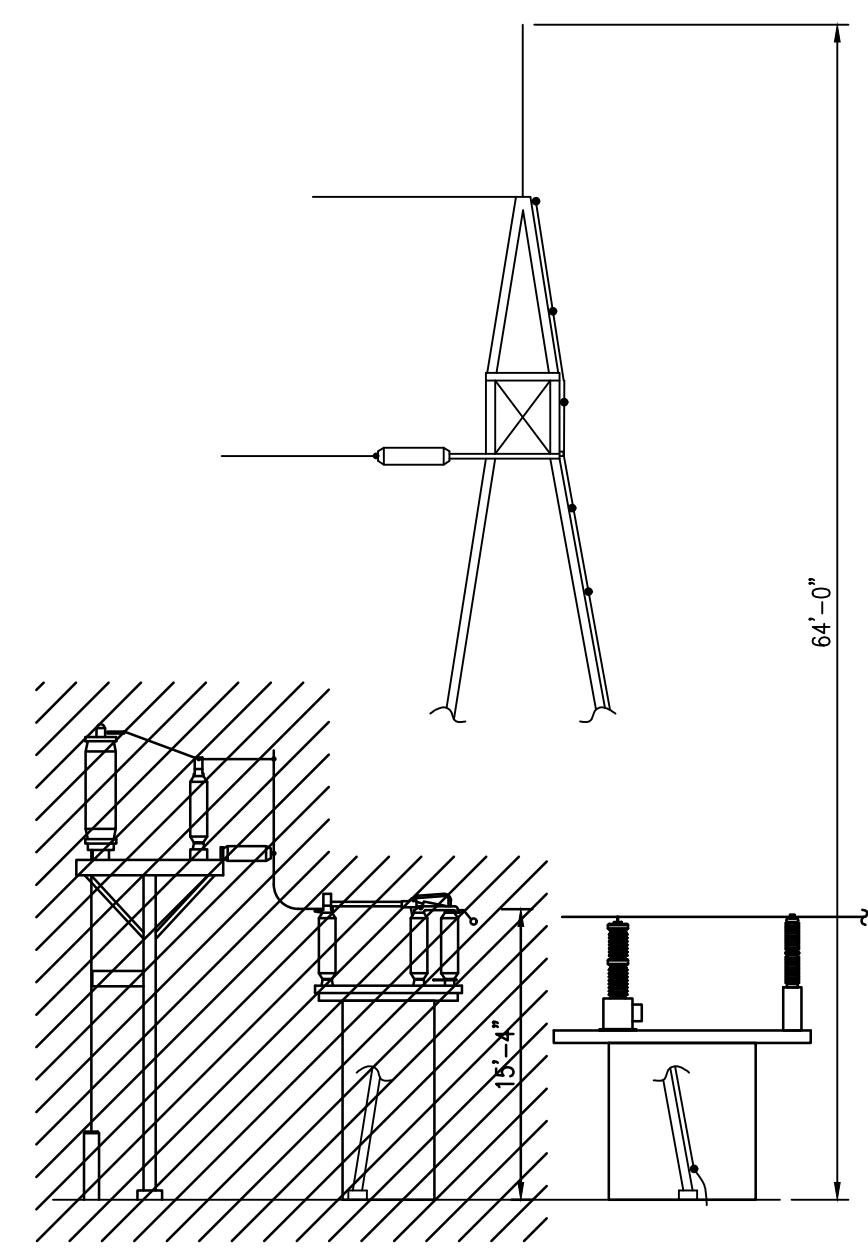
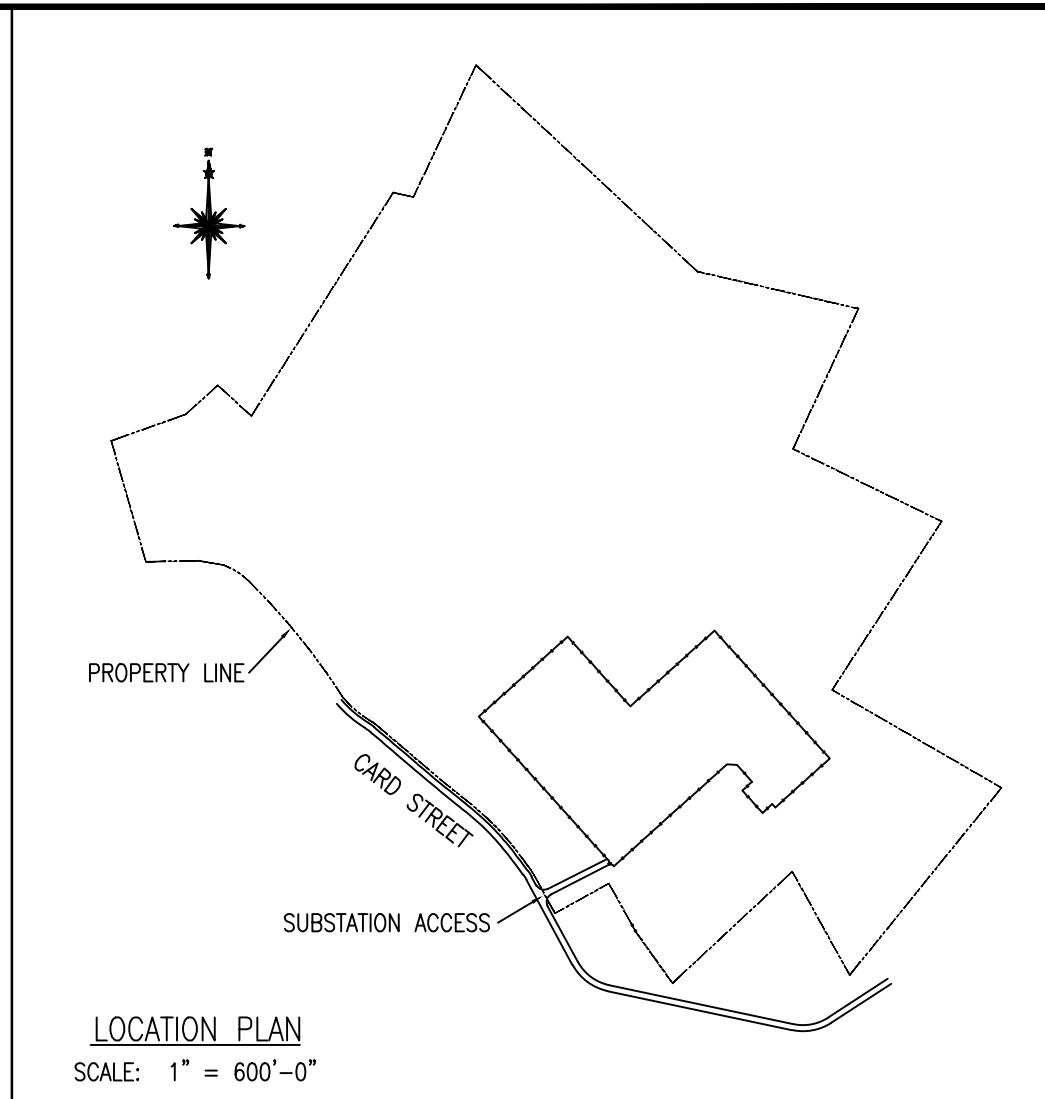
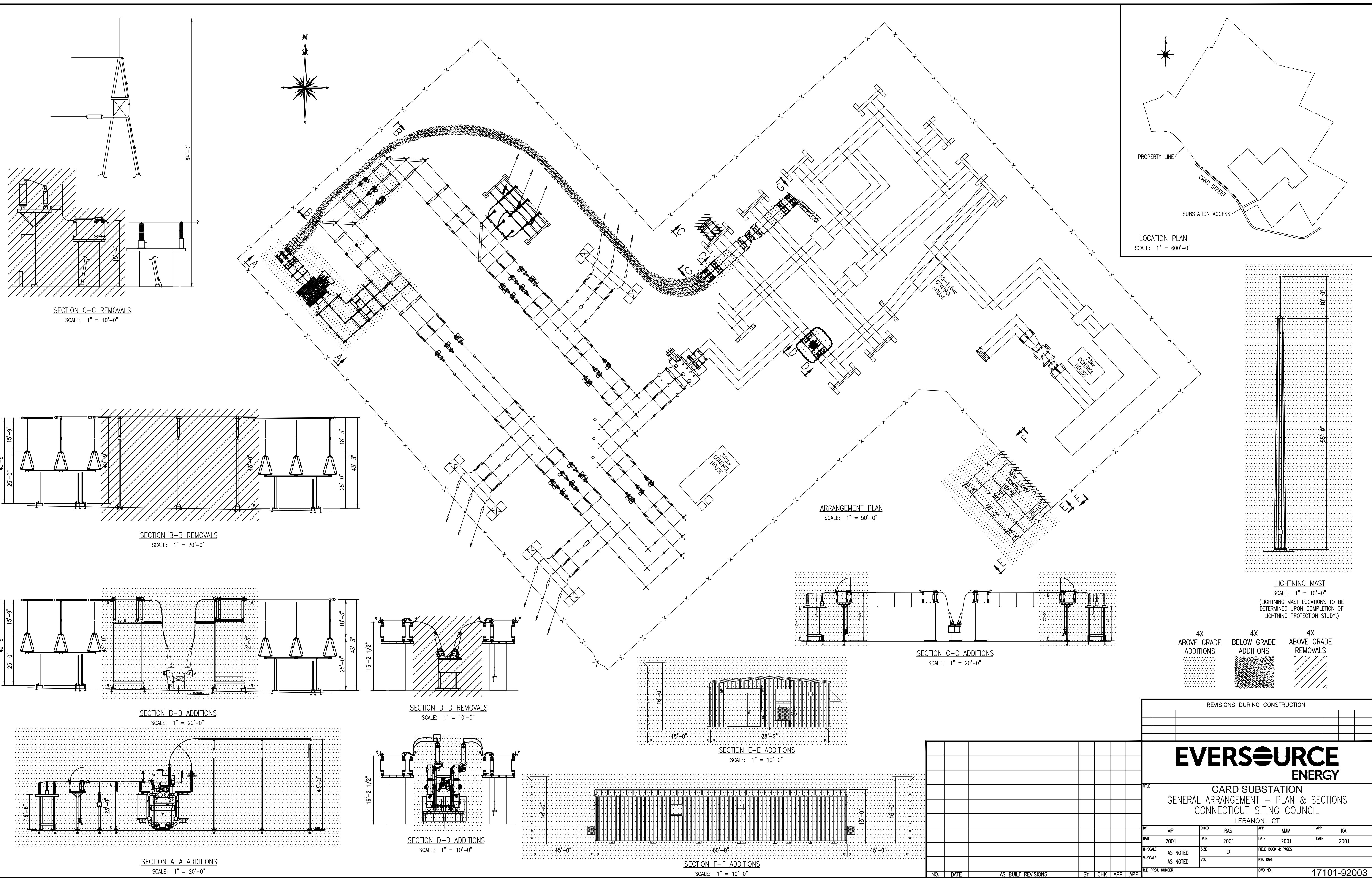
Map Notes:
 Base Map Source: CTECO 2019 Aerial Imagery.
 This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.
 Wetlands field delineated by APT & Burns/IRP.
 Parcel and ROW boundaries are approximate (not survey).

1 inch = 150 feet
 0 75 150 Feet

										EVERSOURCE ENERGY	
										Card Substation Expansion	
										Lebanon, CT	Map Sheet 1 of 1
										March, 2021	
NO.	DATE	REVISIONS	BY	CHK	APP	APP					

**Attachment B: Card Substation – General Arrangement –
Plan and Sections**

ES: VER: 05/2015
 3/9/2021 11:28 AM - jgreen - C:\p_work\proj\green\17101-92003.dwg - CSC PROPOSAL 2019 ADDITIONS 4X



4X ABOVE GRADE ADDITIONS
 4X BELOW GRADE ADDITIONS
 4X ABOVE GRADE REMOVALS

REVISIONS DURING CONSTRUCTION			
NO.	DATE	BY	APP

EVERSOURCE ENERGY

TITLE: **CARD SUBSTATION GENERAL ARRANGEMENT - PLAN & SECTIONS**
 CONNECTICUT SITING COUNCIL
 LEBANON, CT

BY	MP	CHKD	RAS	APP	MJM	APP	KA
DATE	2001	DATE	2001	DATE	2001	DATE	2001
H-SCALE	AS NOTED	SIZE	D	FIELD BOOK & PAGES			
V-SCALE	AS NOTED	V.S.		R.E. DWG			
RE. PROJ. NUMBER		DWG. NO.		17101-92003			

Attachment C: Letter to the Abutters, Affidavit of Notice of Service and List of Abutters

March 23, 2021

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 substation upgrade project in your area.

Proposed Project Information

The upgrade, called the Card Substation Project ("Project"), is necessary to ensure the continued reliability of the transmission system. The modifications include:

- Addition of a second 345/115 kV autotransformer and related equipment, as well as upgrades to existing substation equipment to accommodate the new transformer.
- Expand the existing substation fence south by approximately 90 by 45 feet to accommodate a new control enclosure.
- Some limited tree and vegetation removal along the existing fence line to support the site expansion. The Project would be entirely within the existing substation and adjacent Eversource owned property.

What You Can Expect

Once we receive all the necessary approvals for this proposed work, construction is expected to begin in the third quarter of 2021. We anticipate to complete construction, including restoration of affected areas, by the end of 2022.

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,



Elizabeth Hale Pietrantuono
Eversource Project Manager - Transmission

COVID-19 Safety Information

Meeting Customer Needs During this Critical Time

Safety First and Always

The safety of our employees, our customers and the public is our top priority during the ongoing coronavirus public health crisis. Our commitment to safety, first and always, is continuous.

Providing Reliable Service to Customers

Eversource is committed to delivering safe, reliable service to our customers. This commitment has taken on even more importance during these unsettled times. We continue to call on our employees and contractors to perform essential work in the field that maintains and improves the reliability of our networks and serves customers' best interests, while also adapting our work practices to incorporate social distancing, proper protective equipment, heightened hygiene, and other best practices to protect their, and the public's, health and avoid the spread of coronavirus.

Safely Performing Our Work

Essential work is activity that maintains or improves the condition of our system and supports our delivery of safe and reliable energy and other services, including the replacement or installation of electrical lines, structures/poles, and related equipment.

In addition to relying on alternate communications channels to keep customers safe and informed (letters, emails and phone calls), we will resume our use of door hangers as a part of our outreach efforts. Eversource representatives will leave these notifications that include information on our work in rights-of-way and who to contact with any questions — without knocking on doors. Eversource representatives will continue to abide by all COVID-19 safety guidelines, which include wearing personal protective equipment, following social distancing, enhanced sanitizing requirements and other federal and state health and safety guidelines.

Questions and More Information

For any questions regarding essential work in your area, please call **1-800-793-2202** or email us at **ProjectInfo@eversource.com**.

Owner (First Name)	Owner (Last Name)	Co-Owner (First Name)	Co-Owner (Last Name)
KAZIMIERA CHAIM & ADA	KOZLOWSKI-OPAROWSKI MITLITSKY	DENNIS	OPAROWSKI
GORDON E JR & ROBIN L PHILIP J	MARROTTE INSALACIO		
ESTATE OF EDWIN H HINKEL DEBRA A	ESTATE OF EDWIN H HINKEL HUTTER	PATRICK M DONNA A	PRUE, FIDUCIARY MENDILLLO
DORI A LYNWOOD E	BRUCE SHAW	LAURIE A	SHAW
BRUCE A DANIEL P	CAMPBELL DURNIK	LINDA J ANITA	CAMPBELL DURNIK
STEVEN GORDON E	KORB MARROTTE JR	CHARITY ROBIN L	KORB MARROTTE
GREGG S & LISA R DANNY D JR & JULIANN M	CORCORAN OVERTURF		
BETTY L ROBERT G & MICHELLE L	MONTANY LOUCRAFT		
STEVEN R & APRIL E ROBERT J & CHRISTINE M	COUTU TUTTLE		
DANIEL L & DONNA M PHILIP J JR & ELIZABETH A	REYNOLDS GODECK		
PETER J JR & BARBARA JULIA	PEKAROVIC BURSKI		

Address (Mailing)	City (Mailing)	State (Mailing)	Zip Code (Mailing)
89 KINGSLEY RD	LEBANON	CT	06249
74 CARD ST	LEBANON	CT	06249
137 CARD ST	WILLIMANTIC	CT	06226
164 CARD ST	LEBANON	CT	06249
720 MAIN ST	WILLIMANTIC	CT	06226
124 CARD ST	LEBANON	CT	06249
87 KINGSLEY RD	LEBANON	CT	06249
87 CARD ST	LEBANON	CT	06249
99 CARD ST	LEBANON	CT	06249
116 CARD ST	LEBANON	CT	06249
211 CARD ST	LEBANON	CT	06249
131 CARD ST	WILLIMANTIC	CT	06226
17 KINGSLEY RD	LEBANON	CT	06249
83 KINGSLEY RD	LEBANON	CT	06249
85 KINGSLEY RD	LEBANON	CT	06249
5 CARD ST	LEBANON	CT	06249
17 CARD ST	LEBANON	CT	06249
33 CARD ST	LEBANON	CT	06249
53 CARD ST	LEBANON	CT	06249
115 CARD ST	LEBANON	CT	06249
71 CARD ST	LEBANON	CT	06249
133 CARD ST	LEBANON	CT	06249