**STATE OF CONNECTICUT**
**DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION**
**PUBLIC UTILITIES REGULATORY AUTHORITY**

| | | |
|---|---|---|
| PETITION FOR APPROVAL OF METHOD AND MANNER OF CONSTRUCTION AND PERMISSION TO ENERGIZE THE 680 LINE PARTIAL REBUILD PROJECT | : | DOCKET NO. ____ |
| | : | November 05, 2026 |

PETITION OF
THE CONNECTICUT LIGHT AND POWER COMPANY DOING BUSINESS AS EVERSOURCE ENERGY

Pursuant to the Connecticut General Statutes ("CGS") §16-243 and the Regulations of Connecticut State Agencies ("RCSA") §16-11-137 and §16-11-139, The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") respectfully requests that the Public Utilities Regulatory Authority ("PURA") approve the method and manner of construction and provide permission to energize the 680 Line Partial Rebuild Project ("Project"), as specifically described below:

1. The purpose of the Project is to replace wood structures due to asset condition and replace 62-year-old obsolete and degraded 2/0 copper conductor over approximately 0.3-mile of the 69-kilovolt ("kV") 680 Line. The 680 transmission line spans from Black Rock Substation to Burritt Substation, both located in the City of New Britain, and is the sole source of power to Burritt Substation, which is owned by Stanley Black and Decker. The partial rebuild Project subject of this petition extends from Black Rock Substation to Structure 2737. The Project will replace seven existing deteriorating wood structures (with observed woodpecker damage, split pole tops and cracking, and weathered and rusted hardware) with weathering steel structures. There is currently no shield wire on the 680 Line. The Project will maintain reliability by addressing age-related deterioration of the existing 62-year-old conductor, as well as replacing asset condition wood structures.

*Reference RCSA §16-11-137(1).*

2. The Project will take place in the City of New Britain on Eversource owned property and on Connecticut Department of Transportation ("CTDOT") property. The Project will be constructed within the public right-of-way (along Oldfield Street and Corbin Avenue where the existing structures are located), on Eversource-owned property, and on CTDOT property. The Project extends north for approximately 0.3-mile from Black Rock Substation, located off Oldfield Street, to Structure 2737 located adjacent to the City of New Britain Fire Station No. 4 off Corbin Avenue. Please see Exhibit A – Project Area Map – Map Sheets illustrating the Project route and location of the circuit. *Reference RCSA §16-11-137 (2) and §16-11-139(1).*

3. The entire length of the Project is approximately 0.3 circuit mile of overhead line. *Reference RCSA §16-11-137(3).*

4. The Project involves reconductoring the 69-kV, 60-hertz, three-phase circuit and replacing seven existing single-circuit wood structures with seven single-circuit galvanized steel monopole structures). These lines were previously approved by Department of Public Utility Control[1]; with the file number and date of issuance indicated in the table below.

| **680 Line Approval (680 Line Partial Rebuild Project)** | | | | |
|---|---|---|---|---|
| **Section** | | **Line #** | **File #** | **Date** |
| **From** | **To** | | | |
| Black Rock Substation | Burritt Substation (Stanley Works) | 680 Line | 4-T-698 | April 10, 1967 |

*Reference RCSA §16-11-137(4) and RCSA §16-11-137(5).*

5. The materials to be used include:

Structures:
Seven single-circuit weathering steel structures. The proposed structures range in height from 90 feet to 115 feet.

[1] The predecessor of PURA.

Overhead Conductor:

Approximately 0.3 circuit miles of 1590-kcmil 54/19 strand ACSS conductor per circuit from Black Rock Substation to Structure 2736
Approximately 100 feet of 556-kcmil ACSR conductor per circuit from Structure 2736 to Structure 2737.

Overhead Shield Wire:
Approximately 0.3 circuit miles of 0.646-inch-diameter 96-fiber optical ground wire ("OPGW").

Insulators:

Ceramic insulators, 30,000-pound and 40,000-pound and 50,000-pound Mechanical and Electrical strength, Class 52-5,52-8, and 52-11 in accordance with the American National Standards Institute C29.1 Test Methods for Electrical Power Insulators. In addition, line post polymer insulators will be utilized on the Project. The electrical ratings of the insulators are as follows:

| **Configuration** | **Number of Units Per String** | **Minimum 60 Hertz Flashover, kV** | |
|---|---|---|---|
| | | **Wet** | **Dry** |
| 115-kV Steel/Suspension | 9 | 375 | 540 |
| 115-kV Steel/Strain | 10 | 415 | 590 |

*Reference RCSA §16-11-137(5), RCSA §16-11-137(6) and RCSA §16-11-137(7).*

6. Lightning protection will consist of OPGW installed over the circuit with associated grounding. In addition, transmission line lightning arrestors will be installed on selected structures.
*Reference RCSA §16-11-137(7).*

7. The Project will not cross over or under, or affect in any different manner, circuits and facilities of other utilities, railways, or municipalities not already crossed by the existing transmission lines.
*Reference RCSA §16-11-137(8).*

8. Construction shall be in accordance with Part 2 of the 2023 Edition of the National Electrical Safety Code as recommended in RCSA § 16-11-134. Also reference
*Reference RCSA §16-11-137(9).*

9. The Project will not impact the facilities of other utilities, railways, or municipalities, as it will not create any additional crossings over, under, parallel or conflict with such facilities. *Reference RCSA §16-11-137(10) and RCSA §16-11-139(2).*

10. Project construction will begin with civil work in September 2026. Construction is expected to be completed (exclusive of final restoration) by the end of June 2027. The 680 line will be re-energized during and after construction.
*Reference RCSA §16-11-137(11).*

11. Drawings showing the typical arrangement and spacing of conductors on the monopoles, in a typical span for the 69-kV 680 Line attached in Exhibit C, as follows:

- Sketch 1: Single-Circuit Steel Monopole Structure (680 Line)

The sag of the 1590 kcmil ACSS conductors for a typical span of 325 feet will be approximately 4 feet at 60°F and approximately 10 feet at 392°F. The clearance to ground will be typically greater than 43.0 feet at 392°F.
*Reference RCSA §16-11-137(12).*

12. The Project does not include underground transmission line construction.
*Reference RCSA §16-11-137(13).*

13. The Project construction will involve one outage and re-energizing of the 680 line as the proposed work is being performed. For this reason, Eversource seeks permission to energize the circuits during and at the completion of construction.
*Reference § RCSA §16-11-137(14).*

On August 6, 2026, the Connecticut Siting Council ruled on the Project (Petition No. 1707), determining that the Project would not have a substantial adverse effect and that a Certificate of Environmental Compatibility and Public Need is not needed for the Project, pursuant to CGS §16-50k(a).

Pursuant to CGS §16-243 and having met the requirements of *RCSA §16-11-137 and §16-11-139*, Eversource hereby requests PURA's approval of the method and manner of construction and permission to energize the lines, as specifically described above.

**RESPECTFULLY SUBMITTED THIS 5th day of November 2026.**

**THE CONNECTICUT LIGHT AND POWER COMPANY**
**DOING BUSINESS AS**
**EVERSOURCE ENERGY**

By: Stephen Marien Digitally signed by Stephen Marien Date: 2026.11.05 13:05:12-05'00'

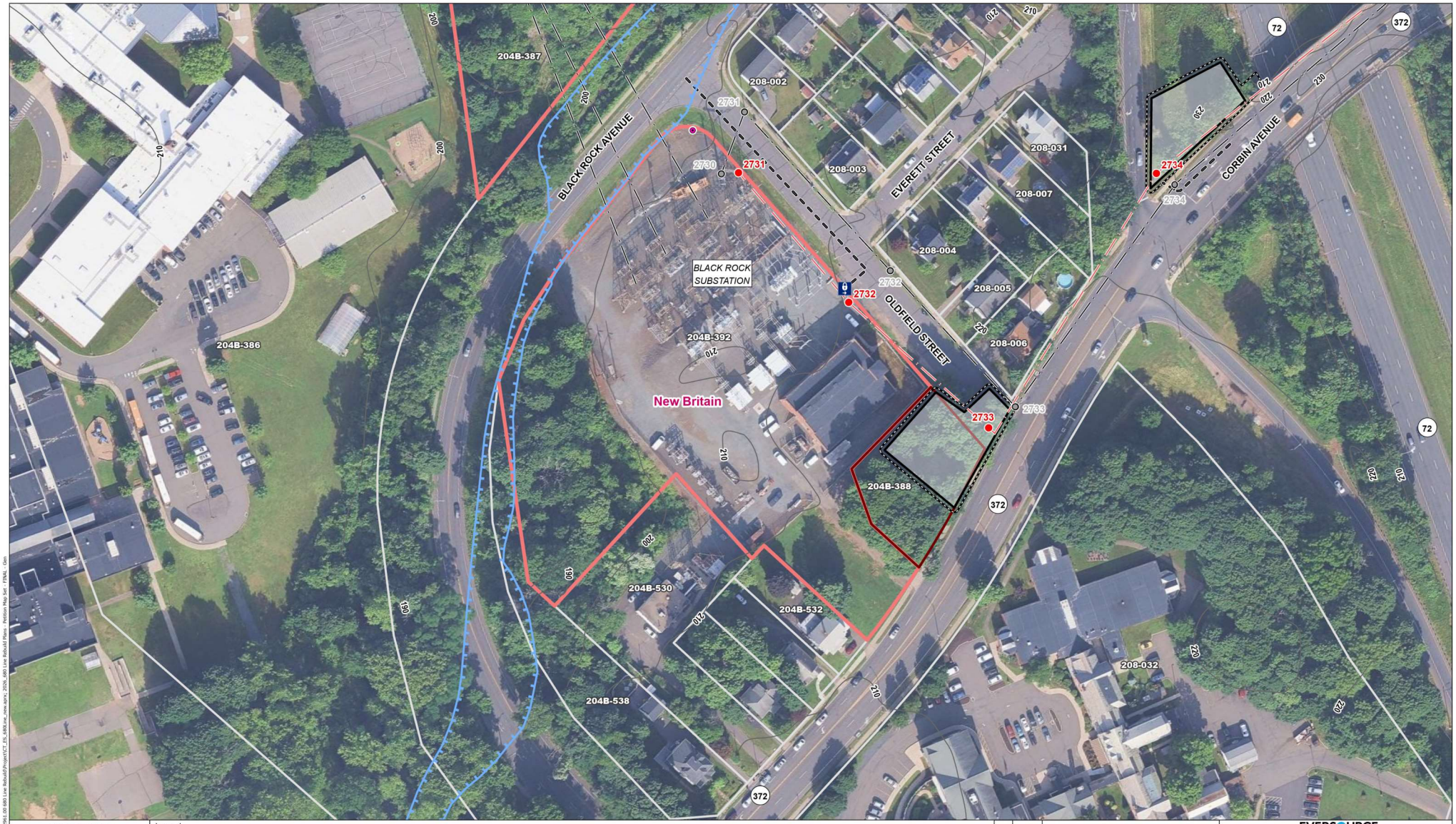
Stephen A. Marien, P.E.
Manager
Transmission Line and Civil Engineering
Eversource Energy
PO Box 270
Hartford, CT 06141-0270

**Attachments:**
Exhibit A: Project Area Map
Exhibit B: Letters of No Objection (None)
Exhibit C: Drawings

**EXHIBIT A**

**PROJECT AREA MAP**
**Required by RCSA §16-11-139(1)**

**Map Sheets**
**Black Rock Substation to Structure 2737**




## INDEX MAP




Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Temporary Pole
- Overhead Eversource Line
- Proposed Overhead Eversource Line
- Culvert
- Gate
- Fence
- Existing Access
- Area of Tree Clearing
- Work Pad/Pull Pad
- Temporary Construction Matting
- 15kV Switch
- 2 MVA XFMR
- 500kW Generator
- Proposed Generator Layout Area
- FEMA 100-Year Flood Zone
- 10' Contour Line
- Railroad
- Eversource Owned Property
- Parcel Boundary
- State Owned Property

N

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| NO. | DATE | REVISIONS |
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EVERSOURCE ENERGY

**680 Line Rebuild Project**

New Britain, CT

MAP SHEET 1 OF 3

Date: March, 2026

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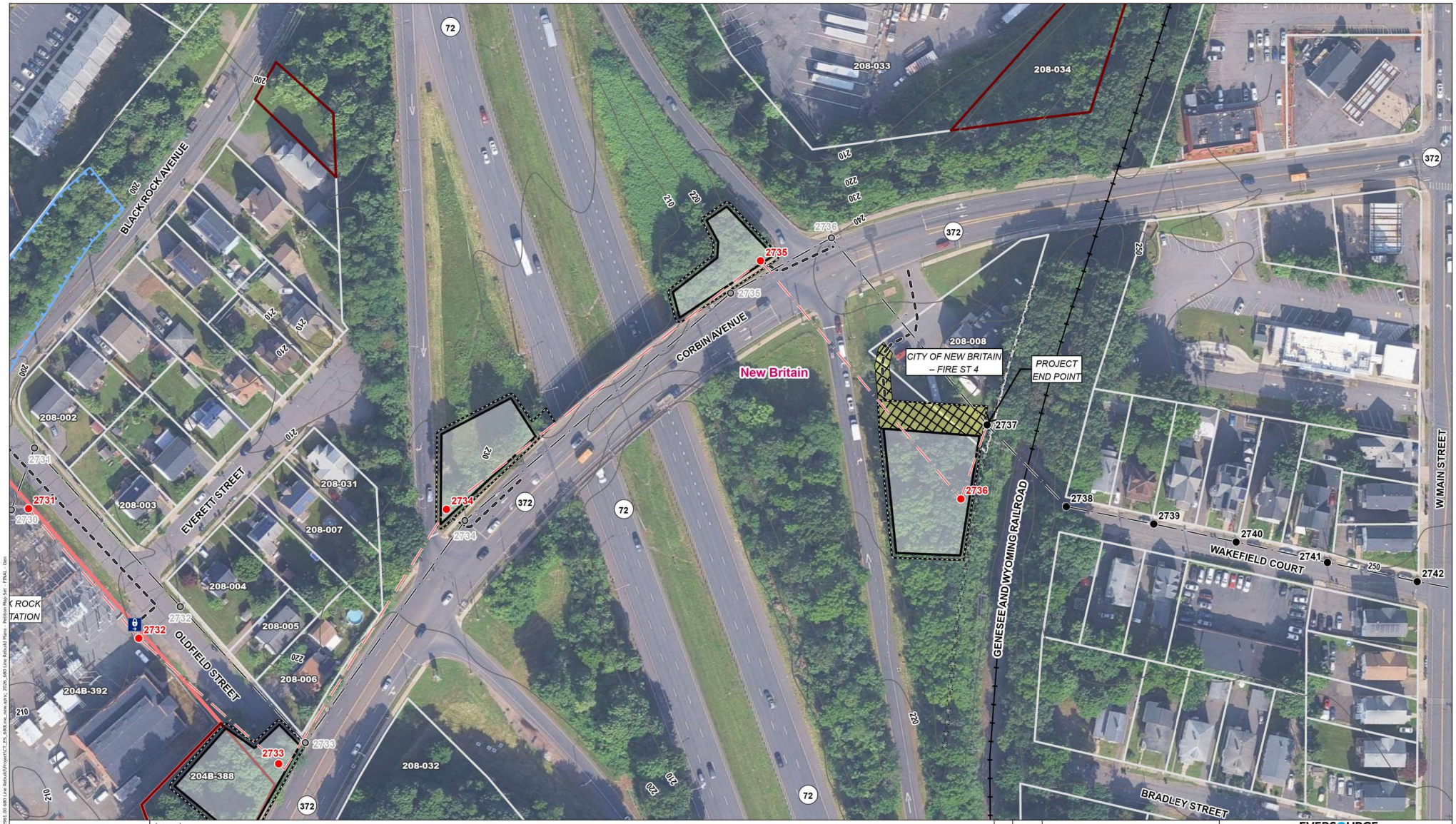


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EVERSOURCE ENERGY

**680 Line Rebuild Project**

New Britain, CT

MAP SHEET 2 OF 3

Date: March, 2026

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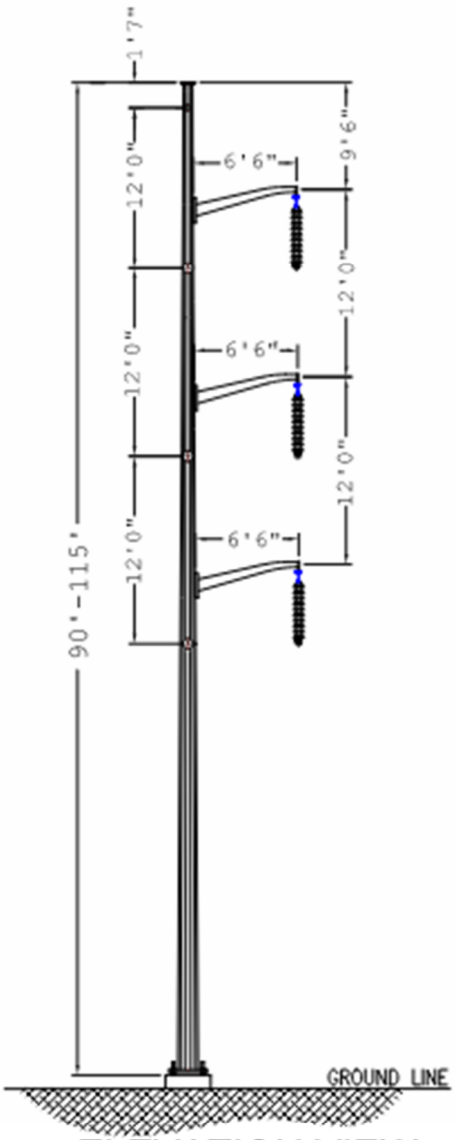
**EXHIBIT B**

**LETTERS OF NO OBJECTION**
**Required by RCSA §16-11-139(2)**

**NONE**

**EXHIBIT C**

**DRAWINGS**
**Required by RCSA §16-11-137(12)**
**(Spacing of conductors, sag and clearances)**




ELEVATION VIEW

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EVERSOURCE ENERGY

BLACK ROCK S/S TO FARMINGTON RIVER POWER COMPANY
69-kV LINE 680
SINGLE CIRCUIT VERTICAL MONOPOLE
NEW BRITAIN

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| DATE | | DATE | | DATE | DATE |
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| V-SCALE | N.T.S. | W.S. | | W.E. DWG | |
| W.E. PROJ. NUMBER | | | | DWG NO. | |