

# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit 4**

### **Environmental Impacts**

### **Part 2 of 9**

# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit 4**

### **Figures**

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# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit 4**

#### **Environmental Impacts**

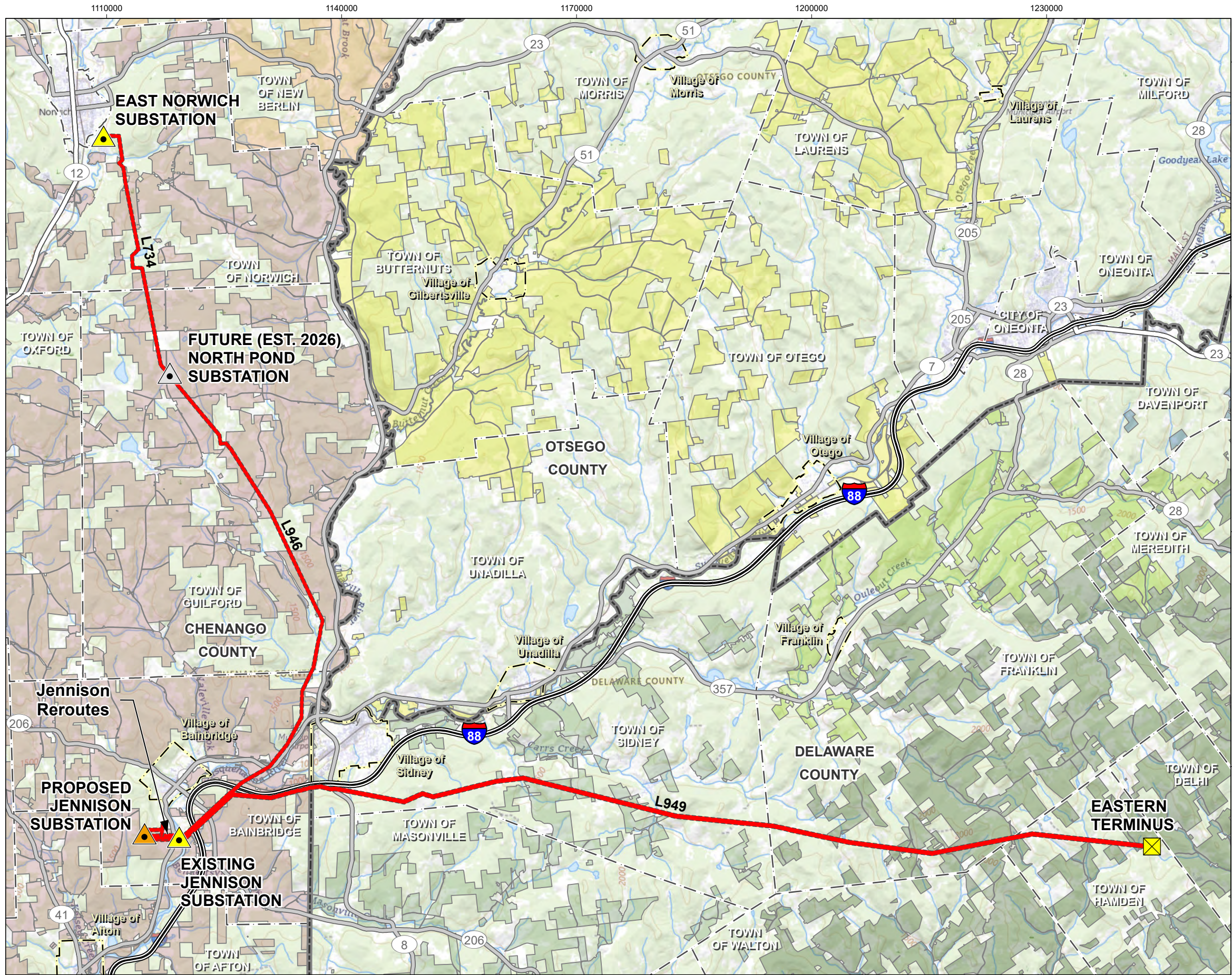
##### **Figure 4-1**

###### **Agricultural Districts**

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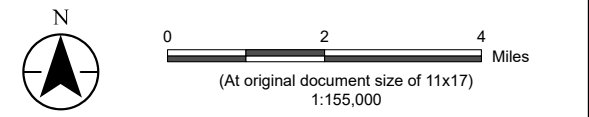


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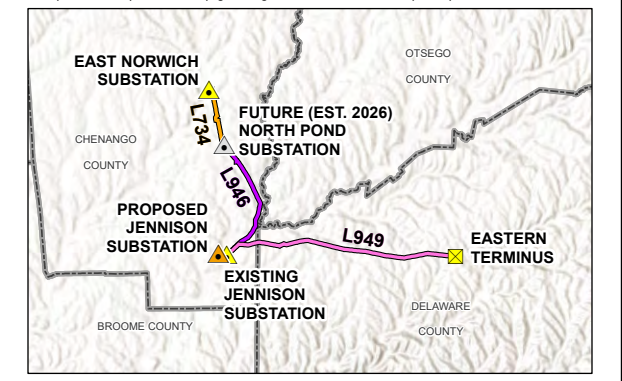


- Jennison Transmission Solution Project**
- Eastern Terminus
  - Substation, Existing
  - Substation, Future
  - Proposed Right-of-Way
  - Substation, Proposed

- Agricultural District**
- Chenango County**
- Agricultural District 1
  - Agricultural District 3
- Delaware County**
- Agricultural District 2
  - Agricultural District 12
  - Agricultural District 14
  - Agricultural District 17
- Otsego County**
- Agricultural District 1
- Road or Highway**
- Interstate
  - U.S. or State Highway
  - Secondary State or County Highway
  - City or Town Boundary
  - County Boundary
  - Village Boundary



- Notes**
- Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet
  - Data Sources: NYSEG Data, 2024; Cornell University Geospatial Information Repository Agricultural Districts, 2023; Esri North American Detailed Streets, 2012; NYS OITS GIS Program Office Civil Boundaries, 2018
  - Background: USGS Topo (The National Map): <https://basemap.nationalmap.gov/arcgis/rest/services/USGSTopo/MapServer>



**Project Location**  
Chenango, Delaware, & Otsego Counties, NY

Prepared by AB on 2024-06-21  
TR by DG on 2024-07-30  
IR by BS on 2024-10-18

**Client/Project**  
Jennison Transmission Solution Project  
NYSEG CLCPA Program

213415070 REVA

**Figure No.**  
4-1

**Title**  
Agricultural Districts  
Mapsheet 1 of 1



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# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit 4**

#### **Environmental Impacts**

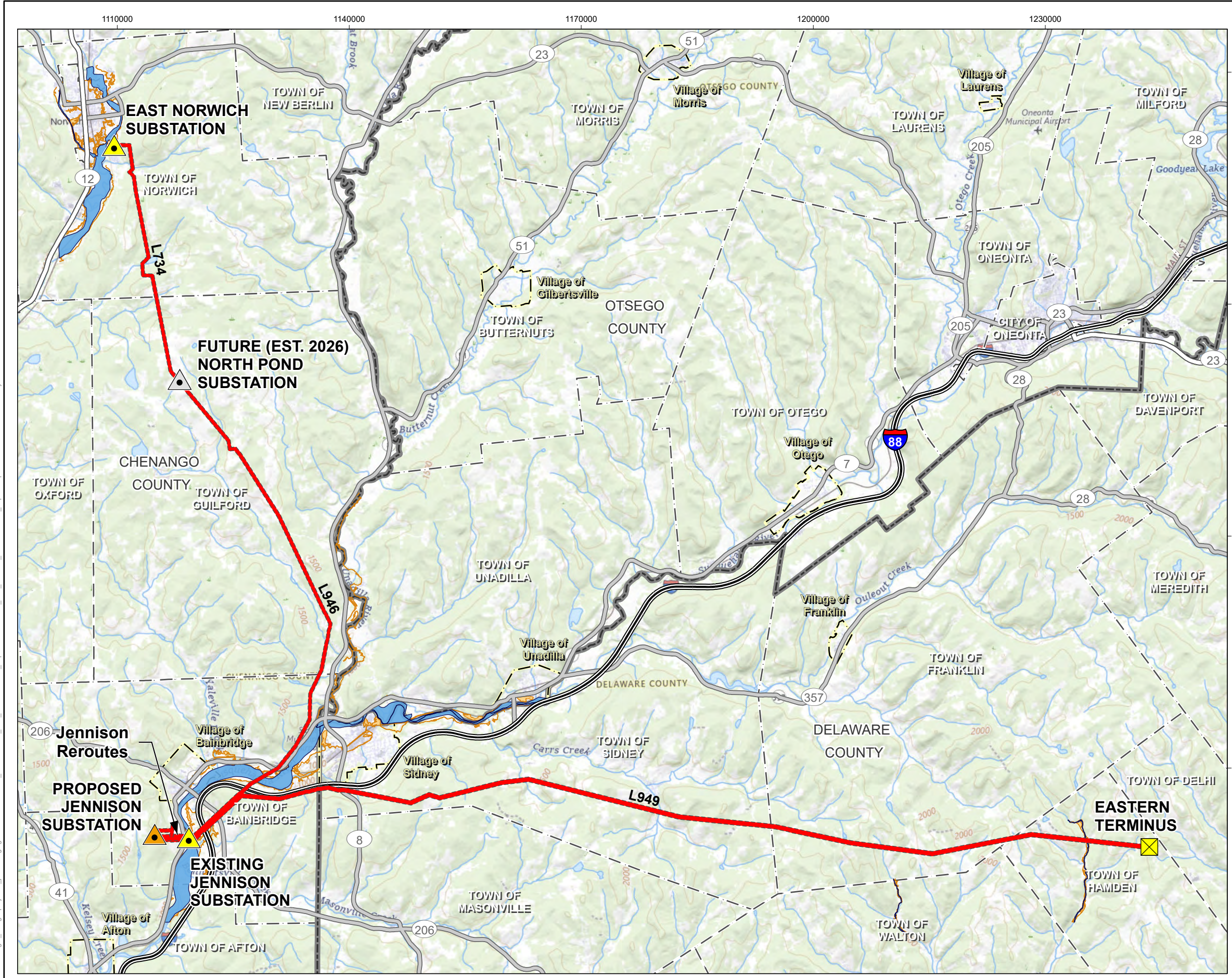
##### **Figure 4-2**

###### **FEMA Floodplains**

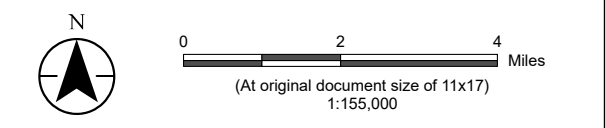


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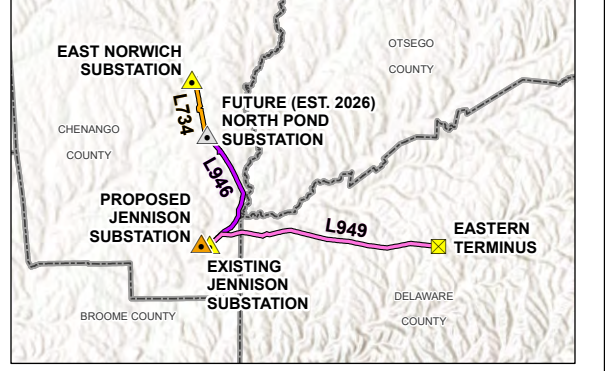


- Jennison Transmission Solution Project**
- Eastern Terminus
  - ▲ Substation, Existing
  - ▲ Substation, Proposed
  - ▲ Substation, Future
  - Proposed Right-of-Way
- Flood Hazard Zone, FEMA**
- Floodway
  - 0.2% Annual Chance of Flood (500-year Flood)
- Road or Highway**
- Interstate
  - U.S. or State Highway
  - Secondary State or County Highway
  - City or Town Boundary
  - County Boundary
  - Village Boundary



**Notes**

- Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet
- Data Sources: NYSEG Data, 2024; FEMA National Flood Hazard Layer, 2023; Esri North American Detailed Streets, 2012; NYS OITS GIS Program Office Civil Boundaries
- Background: USGS Topo (The National Map): <https://basemap.nationalmap.gov/arcgis/rest/services/USGSTopo/MapServer>



**Project Location**  
Chenango, Delaware, & Otsego Counties, NY

Prepared by AB on 2024-06-21  
TR by DG on 2024-07-30  
IR by BS on 2024-10-18

**Client/Project**  
Jennison Transmission Solution Project  
NYSEG CLCPA Program

213415070 REVA

**Figure No.**  
**4-2**

**Title**

**FEMA Floodplains  
Mapsheet 1 of 1**

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# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit 4**

#### **Environmental Impacts**

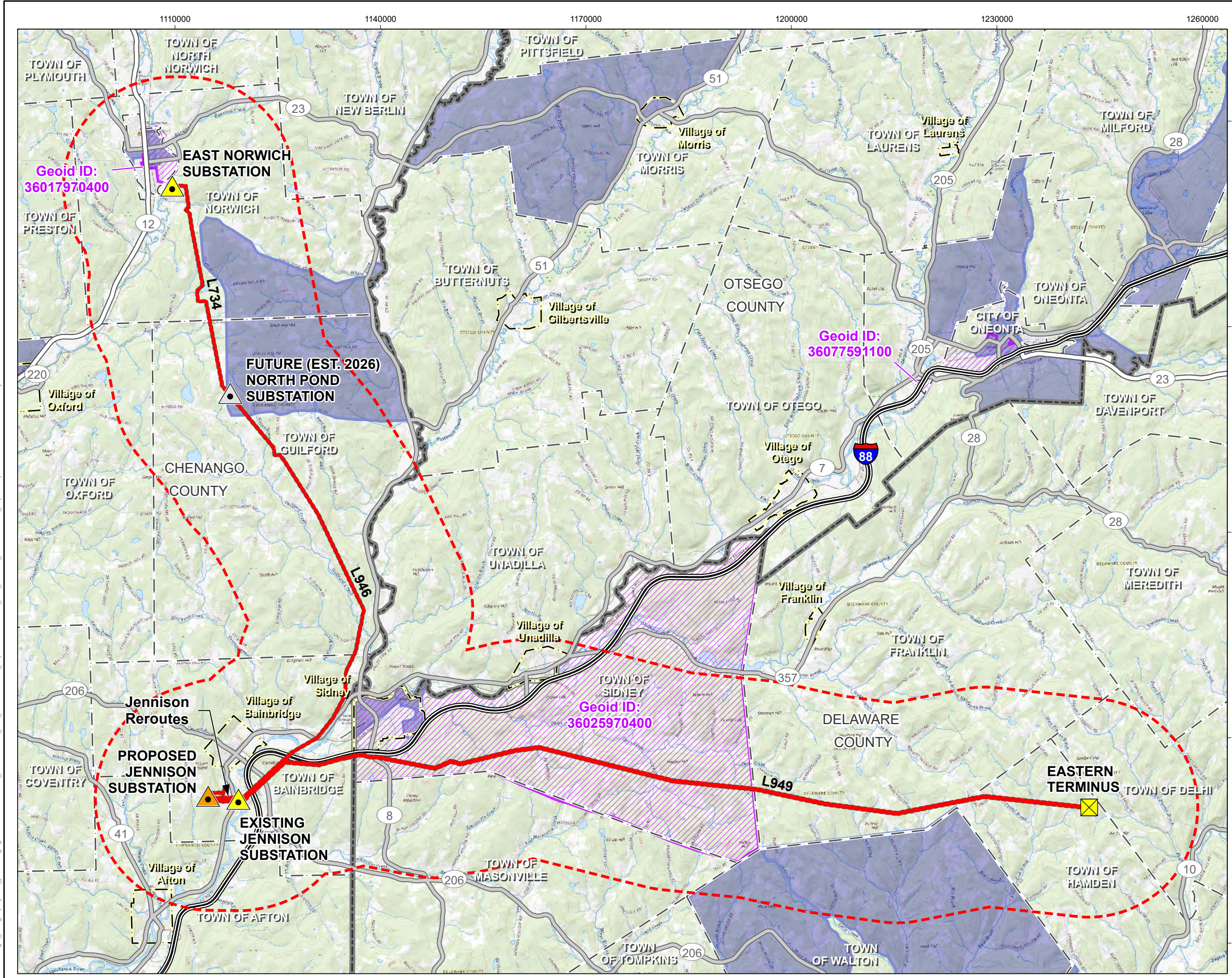
##### **Figure 4-3**

### **Potential Environmental Justice Areas and Disadvantaged Communities**



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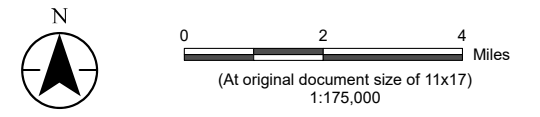




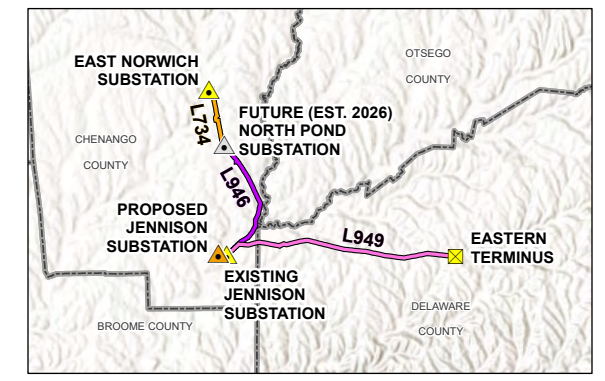
- Jennison Transmission Solution Project**
- Eastern Terminus
  - Substation, Existing
  - Substation, Proposed
  - Proposed Right-of-Way
  - Substation, Future
  - 3-Mile Project Radius

- Disadvantaged Community
- Potential Environmental Justice Area (PEJA) Community

- Road or Highway**
- Interstate
  - U.S. or State Highway
  - Secondary State or County Highway
  - City or Town Boundary
  - County Boundary
  - Village Boundary



- Notes**
- Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet
  - Data Sources: NYSEG Data, 2024; NYSDEC Potential Environmental Justice Area Community, 2022; NYSERDA Final Disadvantaged Communities (DAC), 2023; Esri North American Detailed Streets, 2012; NYS OITS GIS Program Office Civil Boundaries, 2018
  - Background: USGS Topo (The National Map); <https://basemap.nationalmap.gov/arcgis/rest/services/USGSTopo/MapServer>



Project Location: Chenango, Delaware, & Otsego Counties, NY  
 Prepared by AB on 2024-06-21  
 TR by DG on 2024-07-30  
 IR by BS on 2024-10-18

Client/Project: Jennison Transmission Solution Project  
 NYSEG CLCPA Program  
 213415070 REVA

Figure No. **4-3**  
 Title **Potential Environmental Justice Areas & Disadvantaged Communities Mapsheet 1 of 1**

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# **New York State Electric & Gas Corporation**

## **Jennison Transmission Solution Project**

### **Exhibit 4**

#### **Environmental Impacts**

##### **Figure 4-4**

#### **Photographic Simulations**



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**Jennison Transmission Solution Project**

- Eastern Terminus
- Substation, Existing
- Substation, Future
- Substation, Proposed
- Visual Simulation Location
- Proposed Right-of-Way

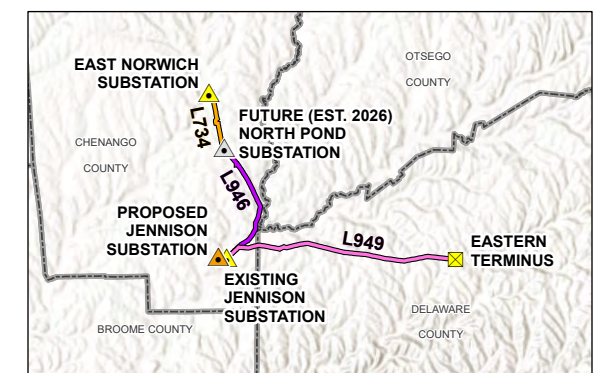
**Road or Highway**

- Interstate
- U.S. or State Highway
- Secondary State or County Highway
- City or Town Boundary
- County Boundary
- Village Boundary



**Notes**

1. Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet
2. Data Sources: Stantec, 2023; Esri North American Detailed Streets, 2012; NYS OIS GIS Program Office Civil Boundaries, 2018
3. Background: USGS Topo (The National Map): <https://basemap.nationalmap.gov/arcgis/rest/services/USGSTopo/MapServer> [https://services.arcgis.com/ArcGIS/rest/services/World\\_Imagery/MapServer](https://services.arcgis.com/ArcGIS/rest/services/World_Imagery/MapServer)



Project Location: Chenango, Delaware, & Otsego Counties, NY  
 Prepared by AB on 2024-10-14  
 TR by BS on 2024-10-15  
 IR by JG on 2024-10-16

Client/Project: Jennison Transmission Solution Project  
 NYSEG CLCPA Program  
 213415070 REVA

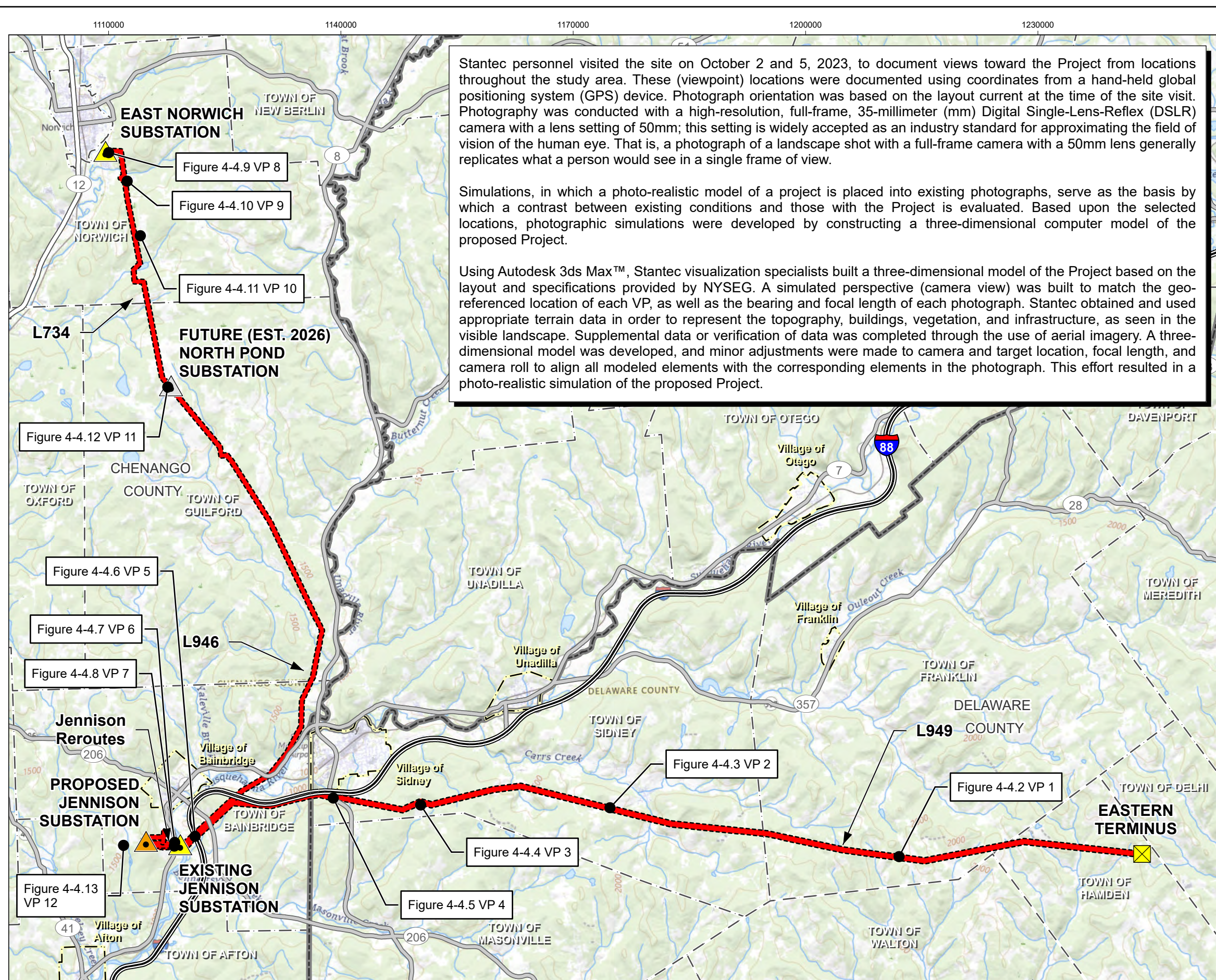
Figure No.  
**4-4.1**

Title  
**Photographic Simulations  
Index Map**

Stantec personnel visited the site on October 2 and 5, 2023, to document views toward the Project from locations throughout the study area. These (viewpoint) locations were documented using coordinates from a hand-held global positioning system (GPS) device. Photograph orientation was based on the layout current at the time of the site visit. Photography was conducted with a high-resolution, full-frame, 35-millimeter (mm) Digital Single-Lens-Reflex (DSLR) camera with a lens setting of 50mm; this setting is widely accepted as an industry standard for approximating the field of vision of the human eye. That is, a photograph of a landscape shot with a full-frame camera with a 50mm lens generally replicates what a person would see in a single frame of view.

Simulations, in which a photo-realistic model of a project is placed into existing photographs, serve as the basis by which a contrast between existing conditions and those with the Project is evaluated. Based upon the selected locations, photographic simulations were developed by constructing a three-dimensional computer model of the proposed Project.

Using Autodesk 3ds Max™, Stantec visualization specialists built a three-dimensional model of the Project based on the layout and specifications provided by NYSEG. A simulated perspective (camera view) was built to match the geo-referenced location of each VP, as well as the bearing and focal length of each photograph. Stantec obtained and used appropriate terrain data in order to represent the topography, buildings, vegetation, and infrastructure, as seen in the visible landscape. Supplemental data or verification of data was completed through the use of aerial imagery. A three-dimensional model was developed, and minor adjustments were made to camera and target location, focal length, and camera roll to align all modeled elements with the corresponding elements in the photograph. This effort resulted in a photo-realistic simulation of the proposed Project.



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Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 16' 02.02"N,  
75° 08' 09.43"W  
Camera Make / Model: Canon 6D Mark II  
Focal Length: 50mm  
Photographer: Stantec  
Date: 10/02/2023  
Time of Photograph: 11:19 a.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 535 feet  
Proposed Structure Identification: 138.5  
Height of Nearest Proposed Structure: 95 feet  
Distance to Nearest Existing Structure (in view)\*\*: 539 feet

\* distances are approximate  
\*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
Chenango and Delaware Counties, New York

VP 1 - Franklin-Walton Road  
Figure 4-4.2





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 17'11.19"N,  
75° 16' 22.2"W  
Camera Make / Model: Canon 6D Mark II  
Focal Length: 50mm  
Photographer: Stantec  
Date: 10/02/2023  
Time of Photograph: 12:48 p.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 410 feet  
Proposed Structure Identification: 88  
Height of Nearest Proposed Structure: 97 feet  
Distance to Nearest Existing Structure (in view)\*\*: 310 feet

\* distances are approximate  
\*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
Chenango and Delaware Counties, New York

VP 2 - Depot Street  
Figure 4-4.3





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 17' 18.6"N,  
75° 21' 48.1"W  
Camera Make / Model: Canon 6D Mark II  
Focal Length: 50mm  
Photographer: Stantec  
Date: 10/02/2023  
Time of Photograph: 1:43 p.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 725 feet  
Proposed Structure Identification: 52  
Height of Nearest Proposed Structure: 92.5 feet  
Distance to Nearest Existing Structure (in view)\*\*: 735 feet

\* distances are approximate  
\*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
Chenango and Delaware Counties, New York

VP 3 - Pine Hill Road (adjacent to Pine Hill S. F.)  
Figure 4-4.4





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 17' 29.2"N,  
75° 24' 18.3"W  
Camera Make / Model: Canon 6D Mark II  
Focal Length: 50mm  
Photographer: Stantec  
Date: 10/02/2023  
Time of Photograph: 2:00 p.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 482 feet  
Proposed Structure Identification: 32  
Height of Nearest Proposed Structure: 110 feet  
Distance to Nearest Existing Structure (in view)\*\*: 495 feet

\* distances are approximate  
\*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
Chenango and Delaware Counties, New York

VP 4 - NYS Route 8  
Figure 4-4.5





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 16' 42.6"N, 75° 28' 15.3"W  
 Camera Make / Model: Canon 6D Mark II  
 Focal Length: 50mm  
 Photographer: Stantec  
 Date: 10/02/2023  
 Time of Photograph: 2:50 p.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 415 feet  
 Proposed Structure Identification: 3A  
 Height of Nearest Proposed Structure: 120 feet  
 Distance to Nearest Existing Structure (in view)\*\*: 419 feet

\* distances are approximate  
 \*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
 Chenango and Delaware Counties, New York

VP 5 - I-88  
 Figure 4-4.6





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 16' 30.7"N,  
75° 28' 50.9"W  
Camera Make / Model: Canon 6D Mark II  
Focal Length: 50mm  
Photographer: Stantec  
Date: 10/02/2023  
Time of Photograph: 3:07 p.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 190 feet  
Proposed Structure Identification: 1-11  
Height of Nearest Proposed Structure: 92.5 feet  
Distance to Nearest Existing Structure (in view)\*\*: 195 feet

\* distances are approximate  
\*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
Chenango and Delaware Counties, New York

VP 6 - NYS Route 7  
Figure 4-4.7





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 16' 35.3"N,  
75° 28' 51.2"W  
Camera Make / Model: Canon 6D Mark II  
Focal Length: 50mm  
Photographer: Stantec  
Date: 10/02/2023  
Time of Photograph: 3:18 p.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 233 feet  
Proposed Structure Identification: 120  
Height of Nearest Proposed Structure: 97 feet  
Distance to Nearest Existing Structure (in view)\*\*: 237 feet

\* distances are approximate  
\*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
Chenango and Delaware Counties, New York

VP 7 - NYS Route 7  
Figure 4-4.8





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 31' 15.7"N,  
75° 30' 29.7"W  
Camera Make / Model: Canon 6D Mark II  
Focal Length: 50mm  
Photographer: Stantec  
Date: 10/02/2023  
Time of Photograph: 9:23 a.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 260 feet  
Proposed Structure Identification: 3  
Height of Nearest Proposed Structure: 95 feet  
Distance to Nearest Existing Structure (in view)\*\*: N/A

\* distances are approximate  
\*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
Chenango and Delaware Counties, New York

VP 8 - River Road  
Figure 4-4.9





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 30' 39.1"N,  
75° 29' 58.5"W  
 Camera Make / Model: Canon 6D Mark II  
 Focal Length: 50mm  
 Photographer: Stantec  
 Date: 10/05/2023  
 Time of Photograph: 9:55 a.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 640 feet  
 Proposed Structure Identification: 15  
 Height of Nearest Proposed Structure: 79 feet  
 Distance to Nearest Existing Structure (in view)\*\*: 615 feet

\* distances are approximate  
 \*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
 Chenango and Delaware Counties, New York

VP 9 - Warner Road  
 Figure 4-4.10





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 19' 29.5"N,  
75° 29' 37.0"W  
Camera Make / Model: Canon 6D Mark II  
Focal Length: 50mm  
Photographer: Stantec  
Date: 10/05/2023  
Time of Photograph: 10:06 a.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 813 feet  
Proposed Structure Identification: 26  
Height of Nearest Proposed Structure: 83.5 feet  
Distance to Nearest Existing Structure (in view)\*\*: 778 feet

\* distances are approximate  
\*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
Chenango and Delaware Counties, New York

VP 10 - Route 36  
Figure 4-4.11





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

Photograph Data:

Latitude / Longitude: 42° 26' 17.6"N, 75° 28' 53.0"W  
 Camera Make / Model: Canon 6D Mark II  
 Focal Length: 50mm  
 Photographer: Stantec  
 Date: 10/05/2023  
 Time of Photograph: 11:34 a.m.

Project Data\*:

Distance to Nearest Proposed Structure (in view): 382 feet  
 Proposed Structure Identification: 58  
 Height of Nearest Proposed Structure: 110 feet  
 Distance to Nearest Existing Structure (in view)\*\*: 408 feet  
 \* distances are approximate  
 \*\* structure being replaced

Prepared By:



Prepared For:



Photographic Simulations

Jennison Transmission Solution Project  
 Chenango and Delaware Counties, New York

VP 11 - Route 36  
 Figure 4-4.12





Existing View



Proposed View



Viewpoint Location and Approximate Angle of View and Distance to the Project.

**Photograph Data:**

Latitude / Longitude: 42° 16' 32.6"N, 75° 30' 19.4"W  
 Camera Make / Model: Canon 6D Mark II  
 Focal Length: 50mm  
 Photographer: Stantec  
 Date: 10/05/2023  
 Time of Photograph: 1:53 p.m.

**Project Data\*:**

Distance to Nearest Proposed Structure (in view): 2,975 feet  
 Proposed Structure Identification: 1-2  
 Height of Nearest Proposed Structure: 79 feet  
 Distance to Nearest Existing Structure (in view)\*\*: N/A

\* distances are approximate  
 \*\* structure being replaced

Prepared By:



Prepared For:



**Photographic Simulations**

Jennison Transmission Solution Project  
 Chenango and Delaware Counties, New York

VP 12 - Stumptown Road  
 Figure 4-4.13



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