

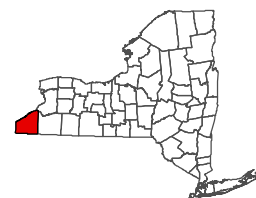
## Arkwright Summit Wind Farm

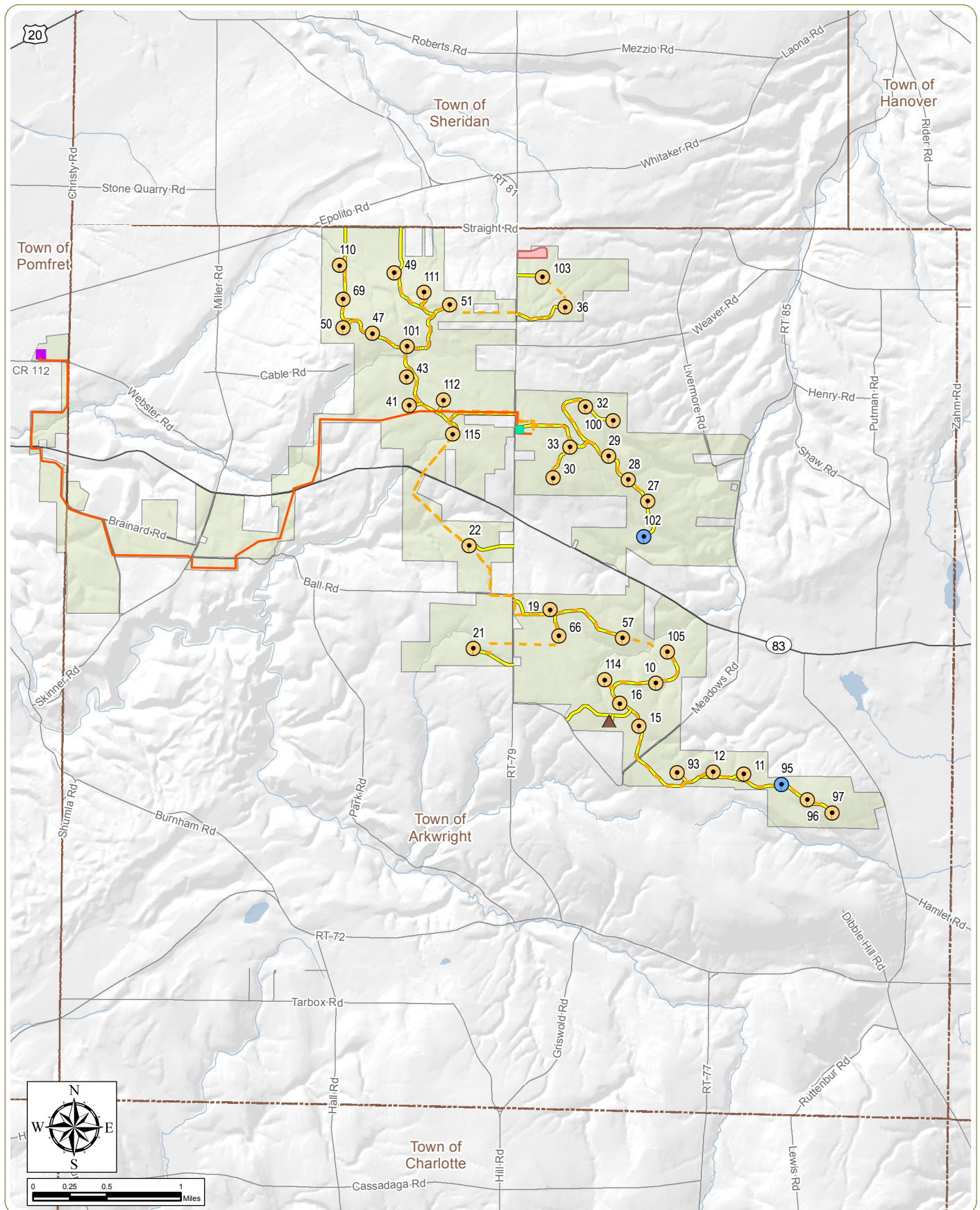
Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 1: Regional Project Location

October 2015

**Notes:** 1. Basemap: ESRI ArcGIS Online "World Shaded Relief" Map Service and ESRI StreetMap North America, 2008.  
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.





## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 2: Revised Project Layout

October 2015

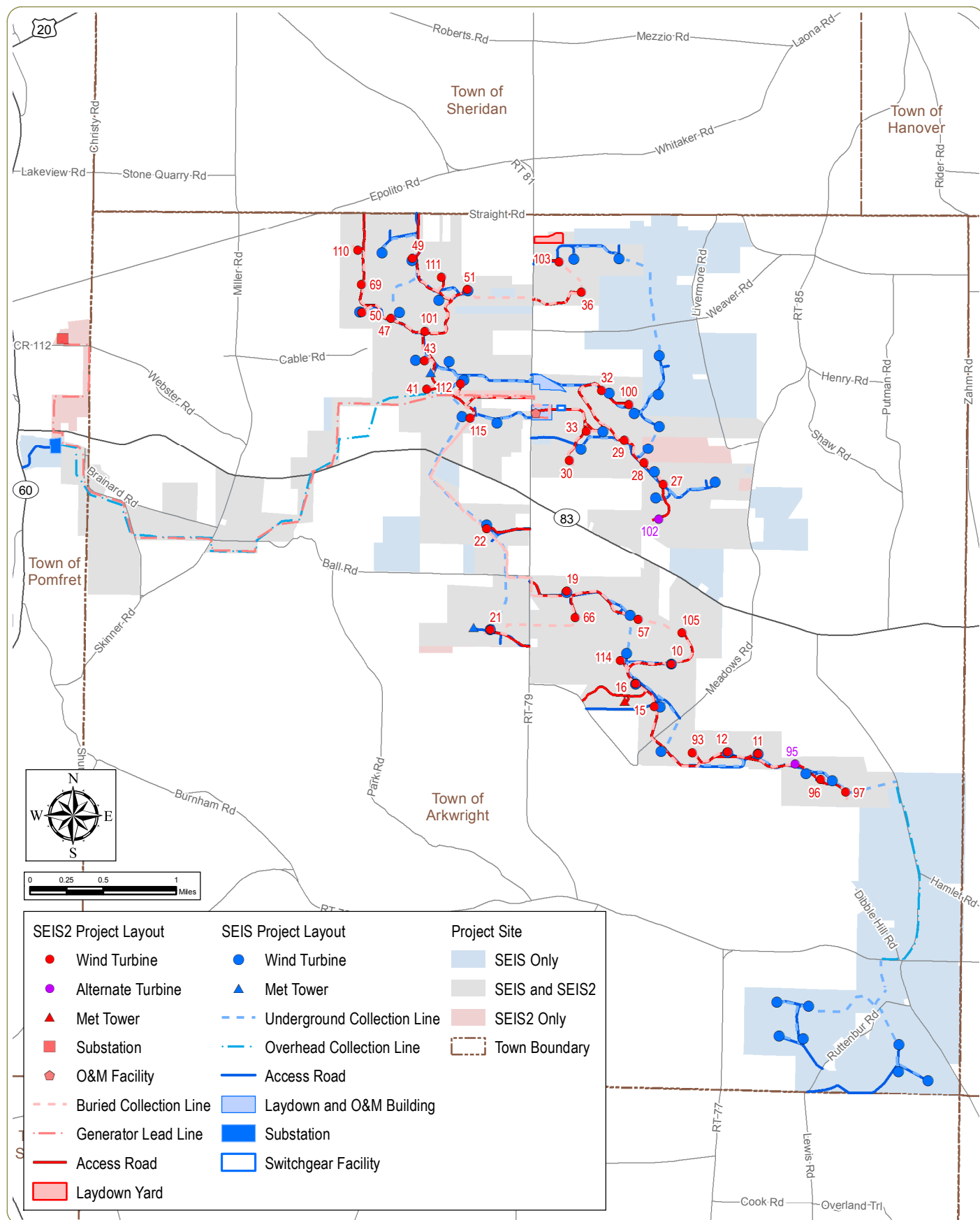
**Notes:** 1. Basemap: Hillshade generated from USGS digital elevation model data and ESRI StreetMap North America, 2008

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Substation
- O&M Facility
- Buried Collection Line
- Generator Lead Line
- Access Road
- Laydown Yard
- Project Site
- Town Boundary







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

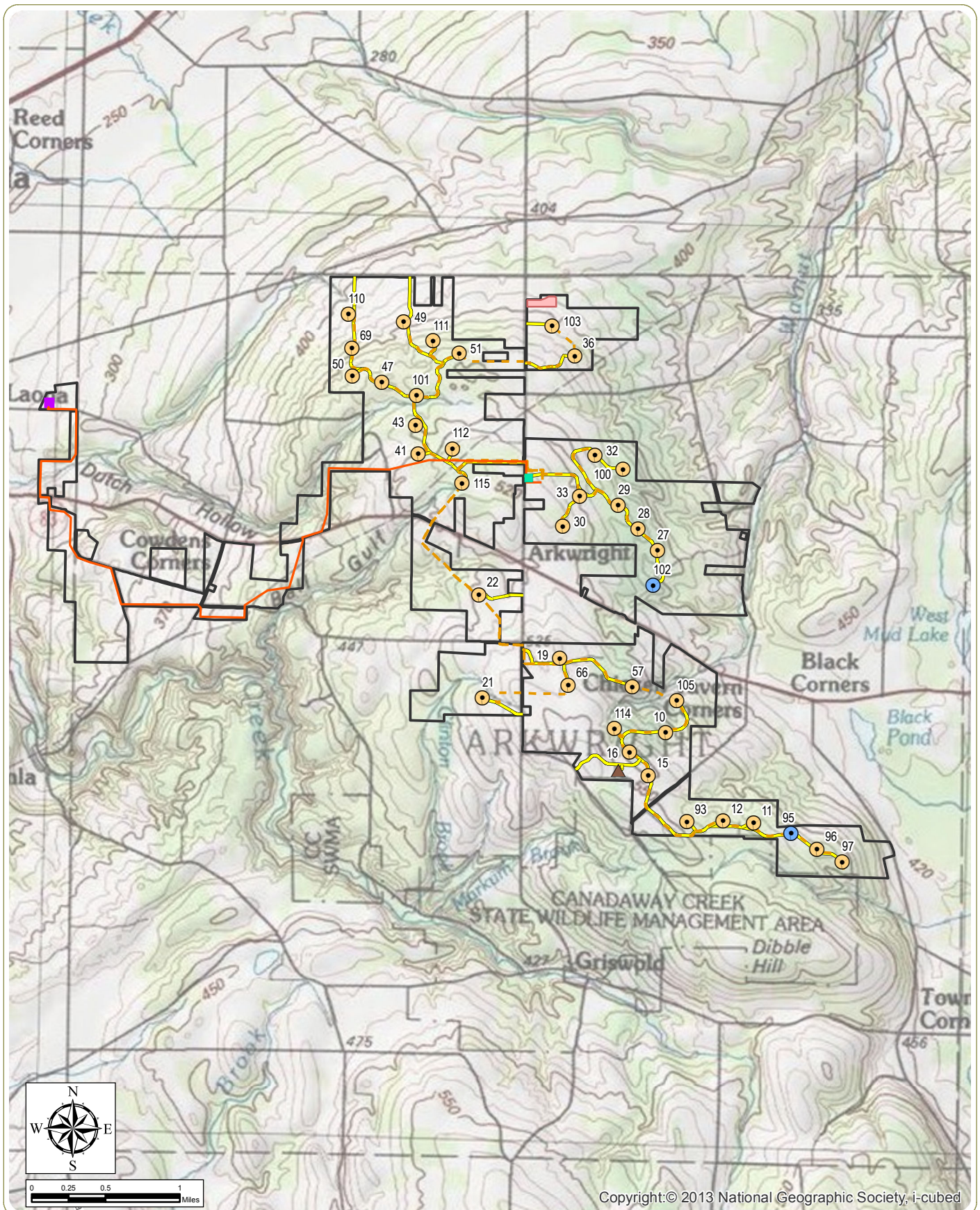
### Figure 3: Project Layout Comparison

October 2015

Notes: 1. Basemap: ESRI StreetMap North America, 2008.

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.





### Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

#### Figure 3: Topography

October 2015

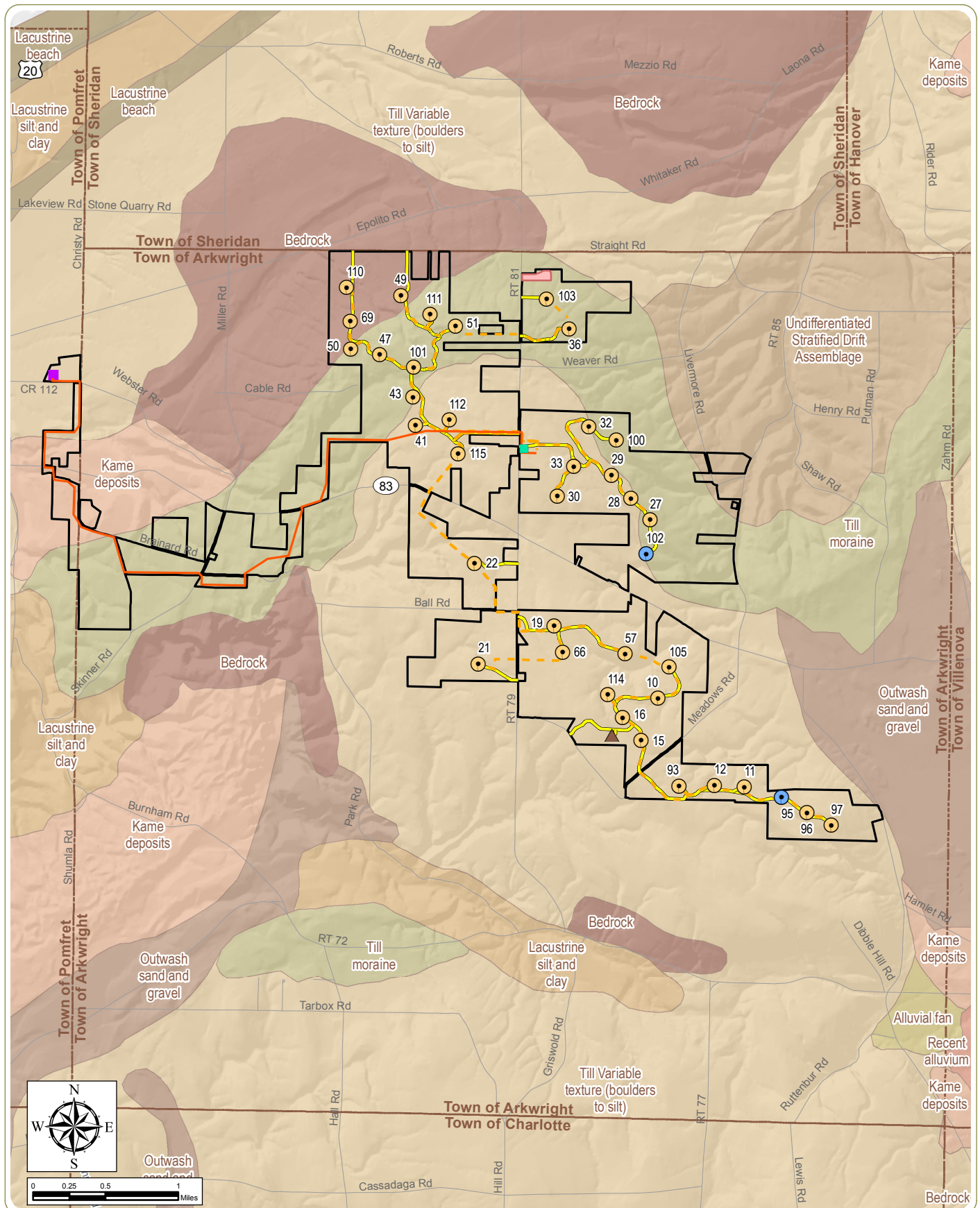
Notes: 1. Basemap: ESRI ArcGIS Online™ USA Topo Maps™ Map Service.

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- Met Tower
- Substation
- O&M Facility
- Buried Collection Line
- Generator Lead Line
- Access Road
- Laydown Yard
- Project Site







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 5: Surficial Geology

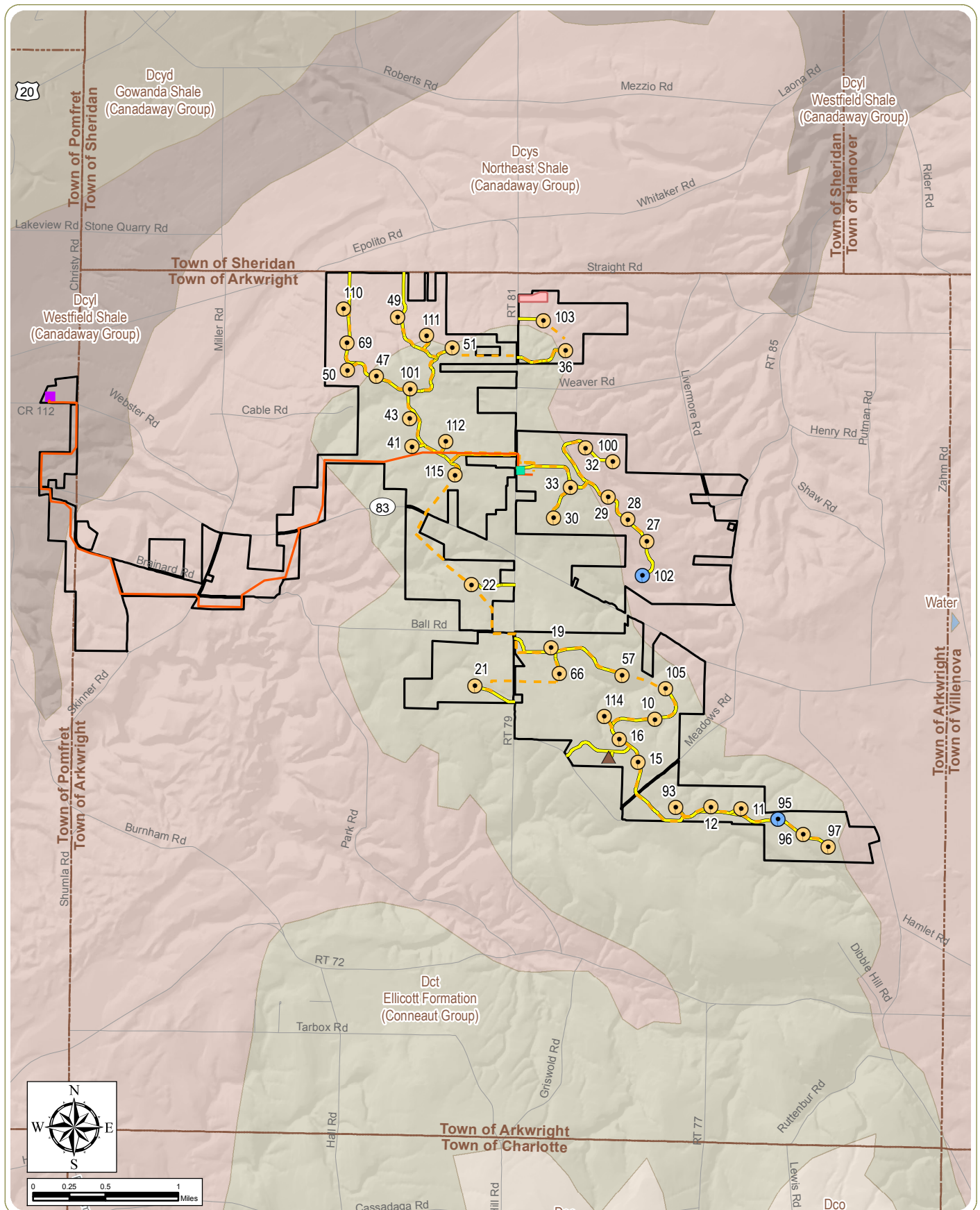
October 2015

**Notes:** 1. Basemap: Hillshade generated from USGS digital elevation model data and NYS Museum Surficial Geology data, Niagara Sheet.

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Substation
- O&M Facility
- Buried Collection Line
- Generator Lead Line
- Access Road
- Laydown Yard
- Project Site
- Town Boundary





## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 6: Bedrock Geology

October 2015

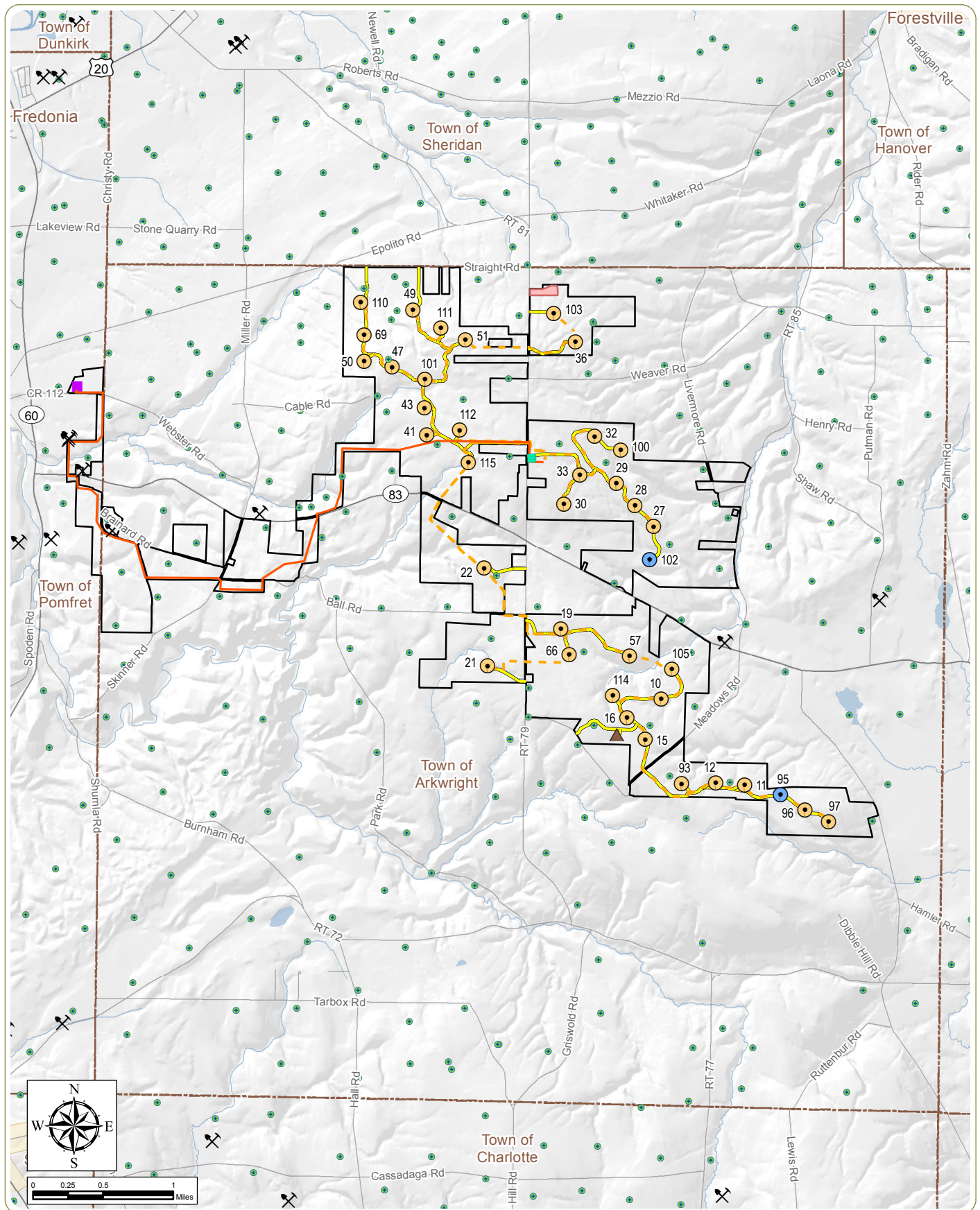
**Notes:** 1. Basemap: Hillshade generated from USGS digital elevation model data and NYS Museum Bedrock Geology data, Niagara Sheet.

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- Met Tower
- Substation
- O&M Facility
- Buried Collection Line
- Generator Lead Line
- Access Road
- Laydown Yard
- Project Site
- Town Boundary







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, NY

### Figure 7: Gas Wells and Mines

October 2015

Notes: 1. Basemap: Hillshade derived from USGS digital elevation model and ESRI StreetMap North America, 2008

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

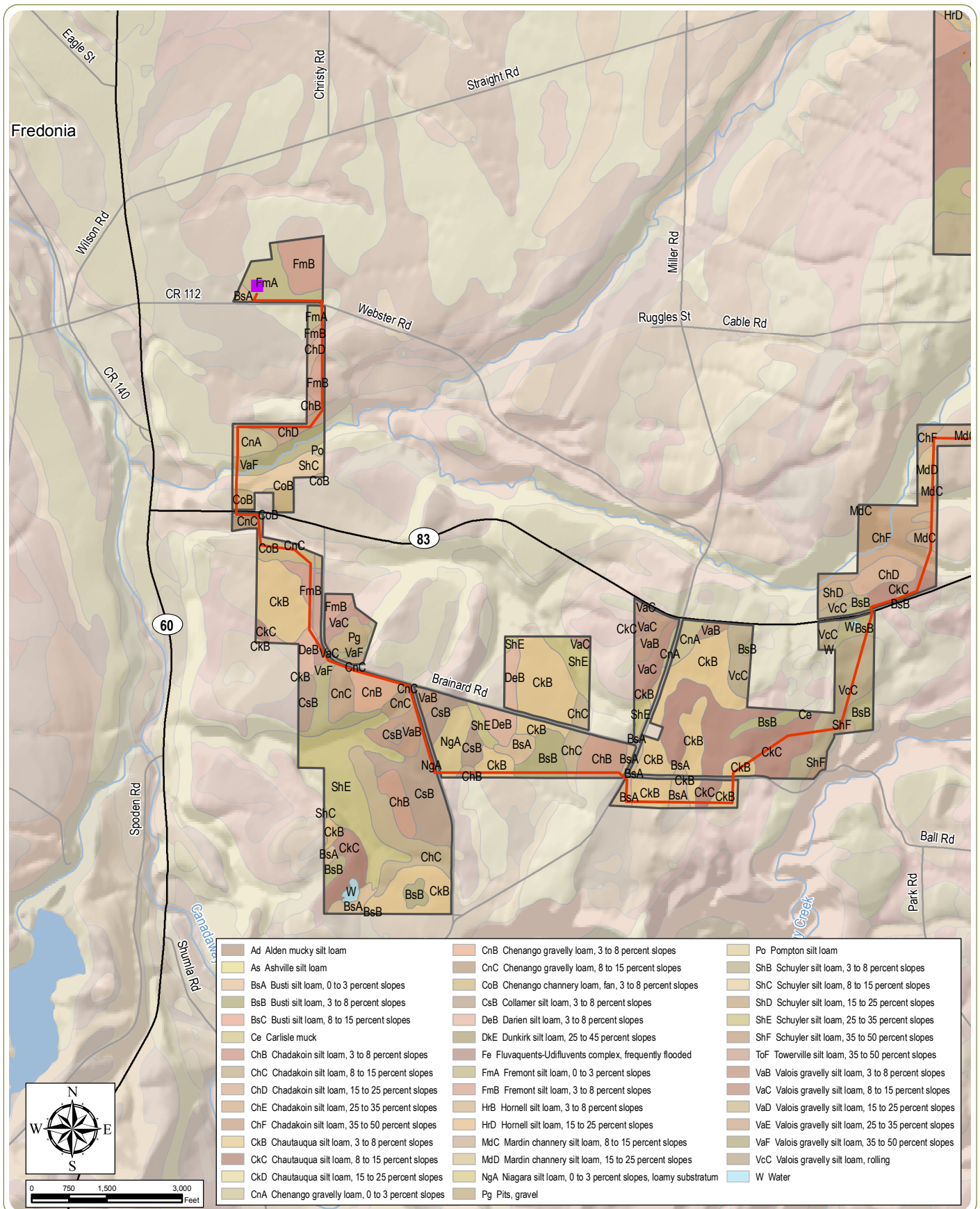
- Oil/Gas Well
- ⚡ Mine
- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Substation
- O&M Facility
- - - Buried Collection Line
- - - Generator Lead Line
- - - Access Road
- - - Laydown Yard
- - - Project Site
- - - Town Boundary











## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 8: Project Site Soils** Sheet 1 of 4

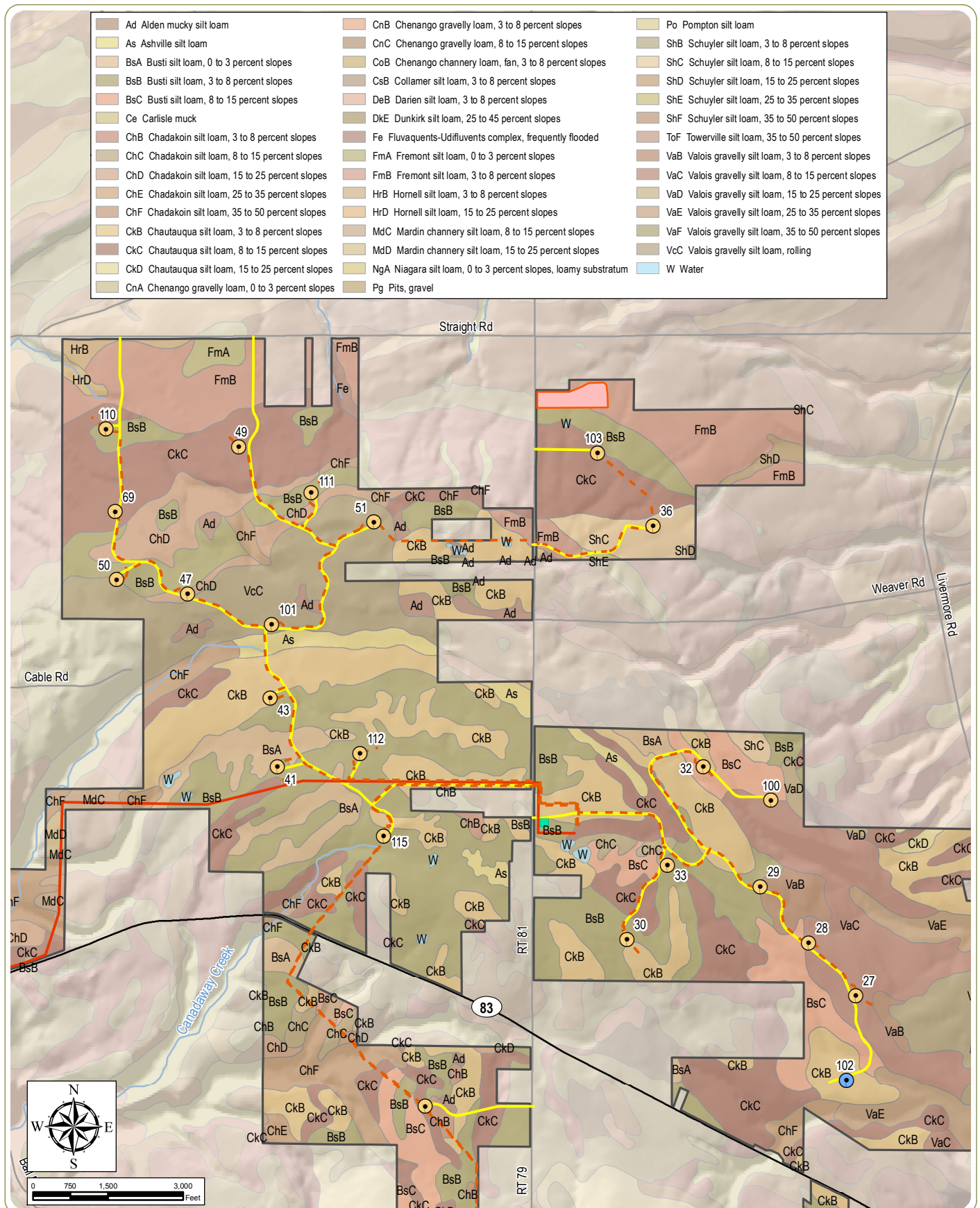
October 2015

**Notes:** 1. Basemap: Hillshade derived from USGS digital elevation model data and ESRI StreetMap North America, 2008

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- - - Buried Collection Line
- ▲ Met Tower
- O&M Facility
- Generator Lead Line
- Access Road
- Substation
- Laydown Yard
- Project Site





## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 8: Project Site Soils** Sheet 2 of 4

October 2015

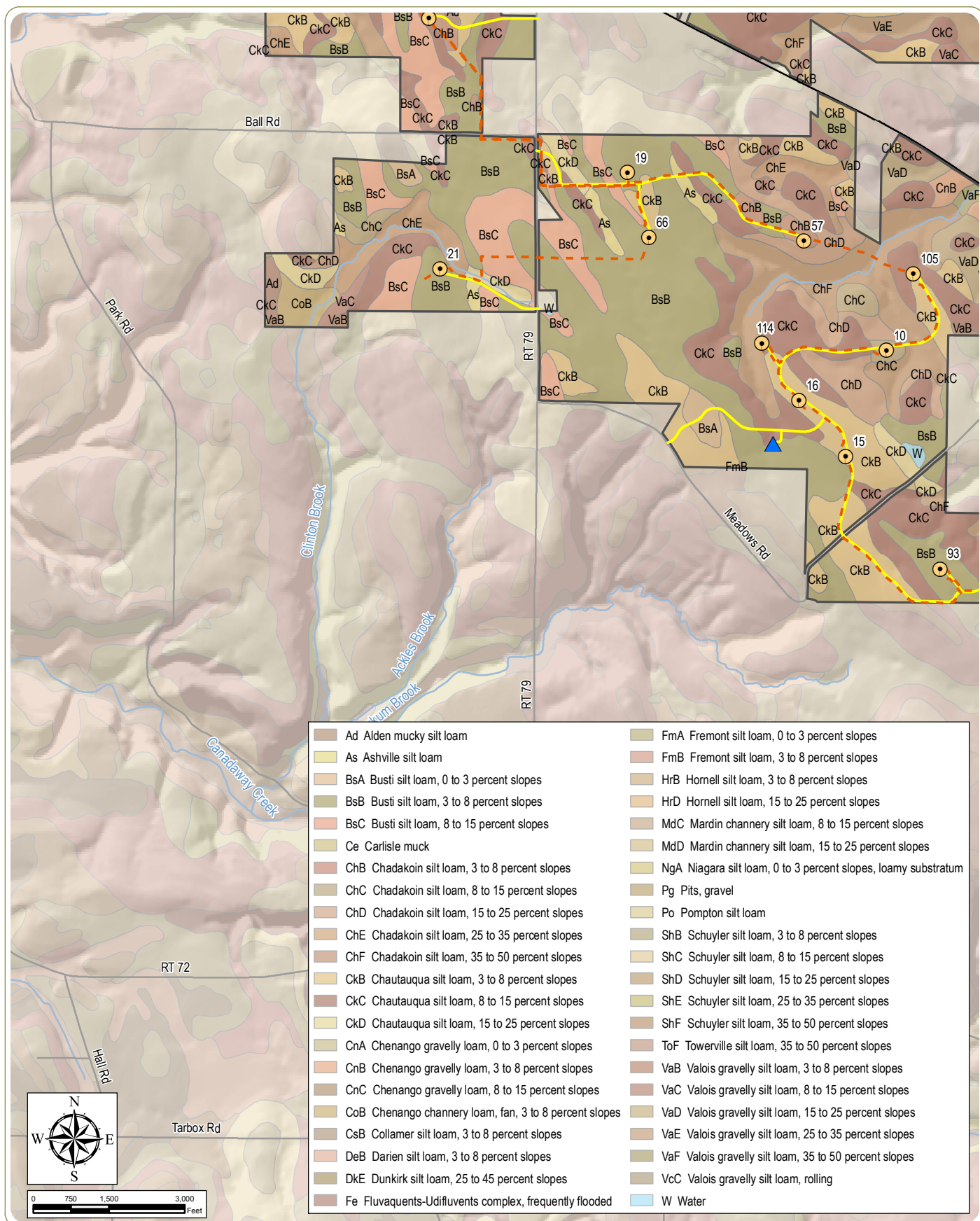
**Notes:** 1. Basemap: Hillshade derived from USGS digital elevation model data and ESRI StreetMap North America, 2008

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- - - Buried Collection Line
- ▲ Met Tower
- O&M Facility
- Generator Lead Line
- Access Road
- Substation
- Laydown Yard
- Project Site







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 8: Project Site Soils** Sheet 3 of 4

October 2015

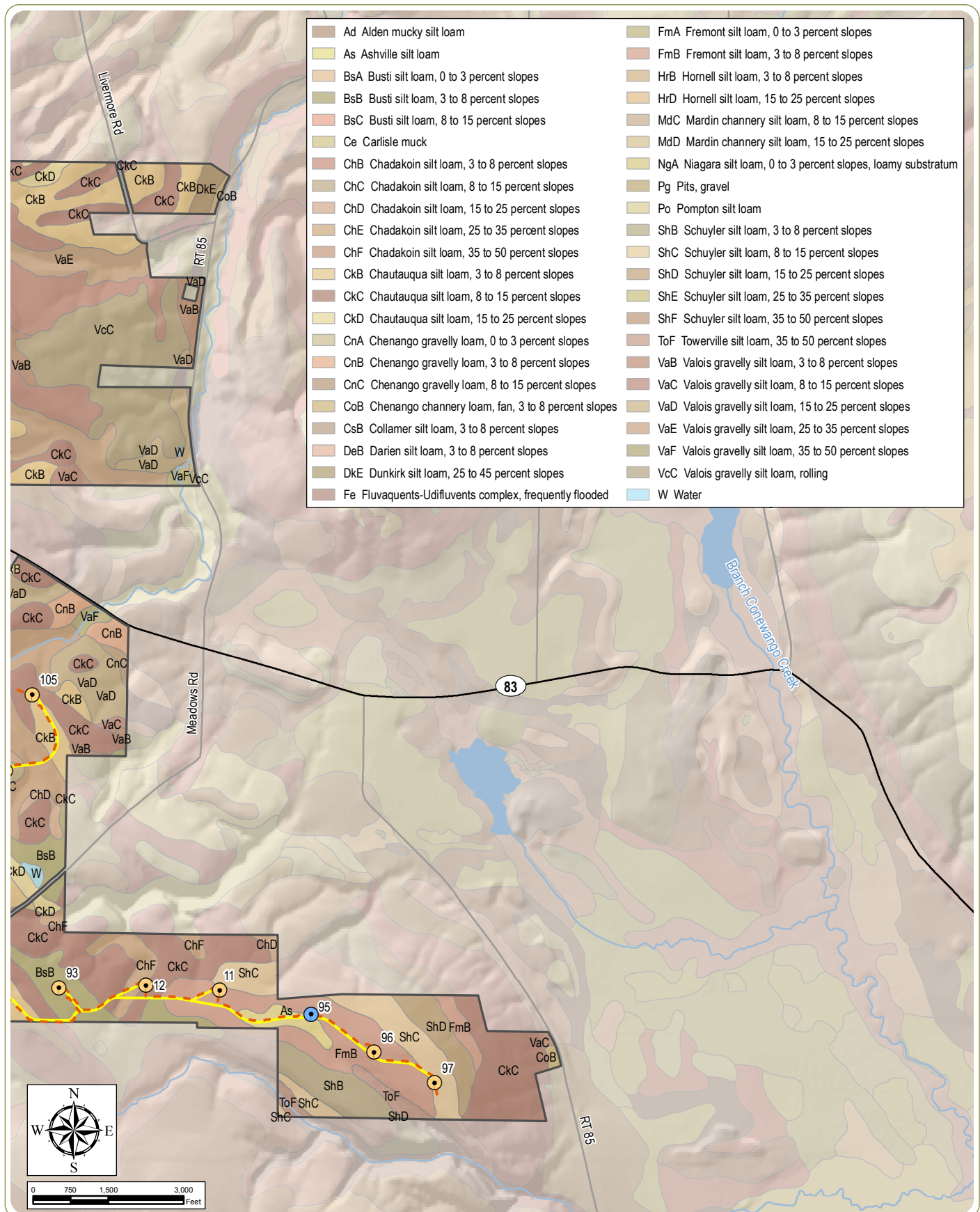
**Notes:** 1. Basemap: Hillshade derived from USGS digital elevation model data and ESRI StreetMap North America, 2008

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- - - Buried Collection Line
- ▲ Met Tower
- O&M Facility
- Generator Lead Line
- Access Road
- Substation
- Laydown Yard
- Project Site







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 8: Project Site Soils** Sheet 4 of 4

October 2015

**Notes:** 1. Basemap: Hillshade derived from USGS digital elevation model data and ESRI StreetMap North America, 2008

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

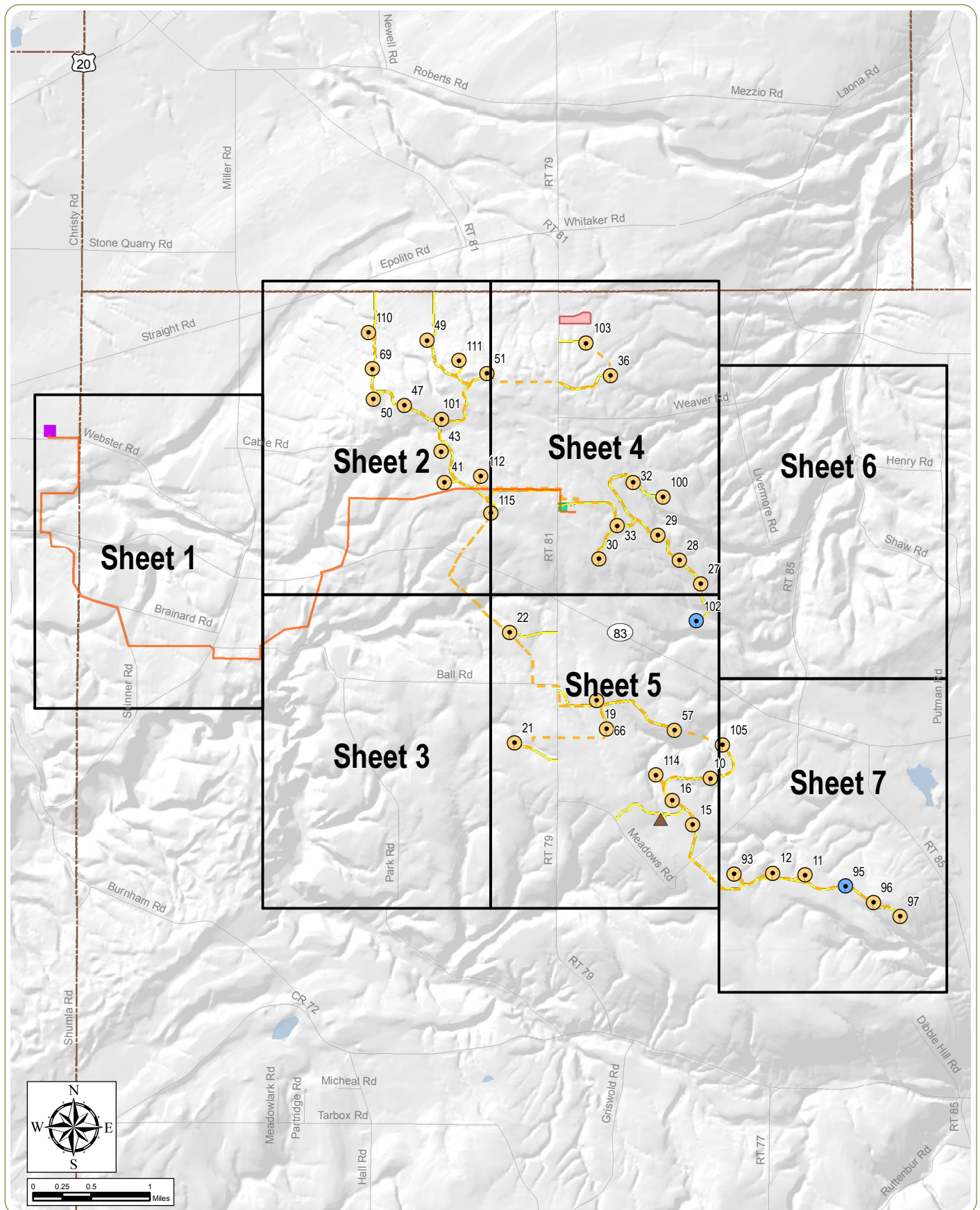
- Wind Turbine
- Alternate Wind Turbine
- - - Buried Collection Line
- ▲ Met Tower
- O&M Facility
- Generator Lead Line
- Access Road
- Substation
- Laydown Yard
- Project Site











## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 10: Delineated Wetlands Index

October 2015

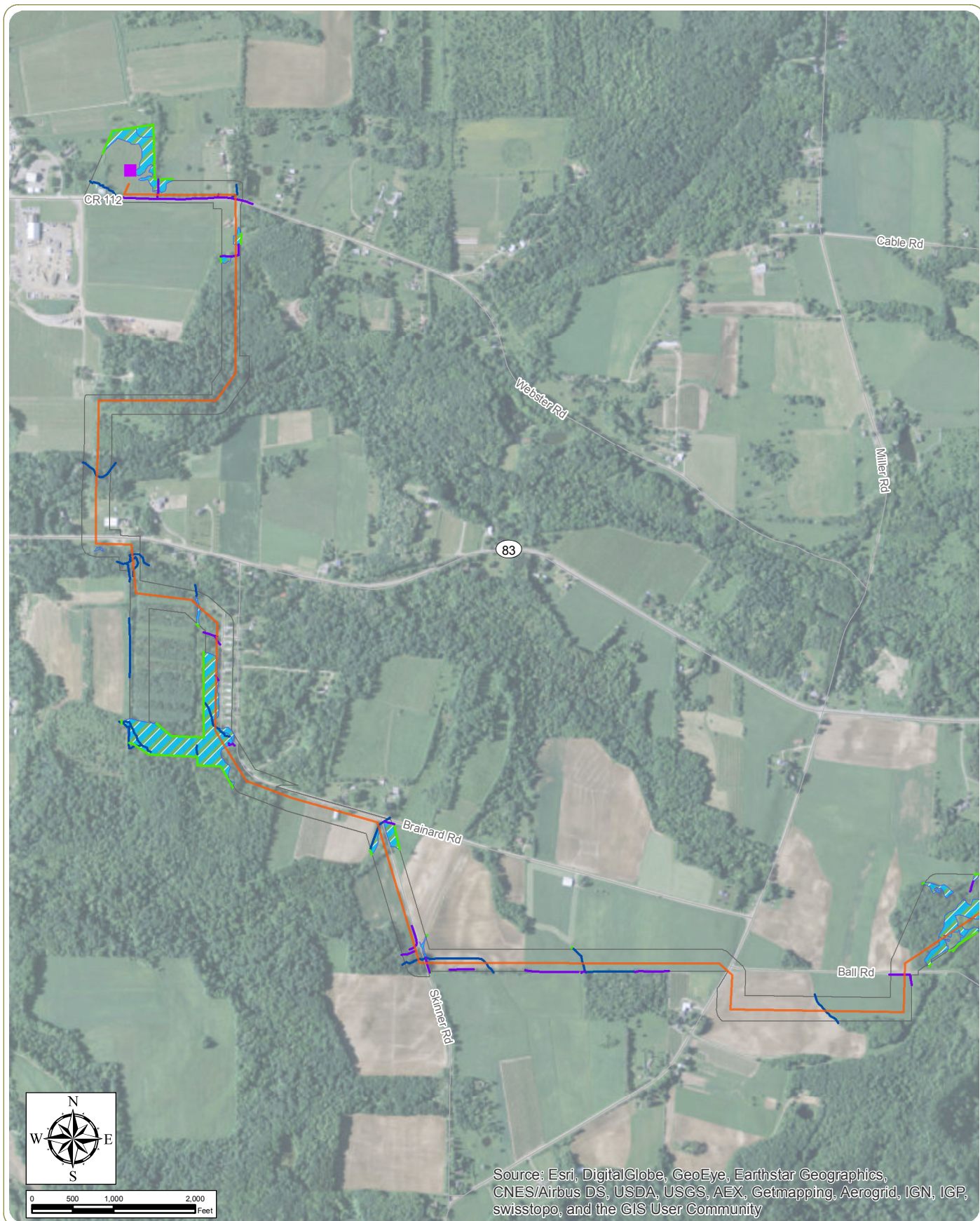
**Notes:** 1. Basemap: Hillshade derived from USGS digital elevation model.

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- Met Tower
- Substation
- O&M Facility
- Buried Collection Line
- Generator Lead Line
- Access Road
- Laydown Yard
- Figure Index







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret -  
Chautauqua County, New York

**Figure 10: Delineated Wetlands** Sheet 1 of 7  
October 2015

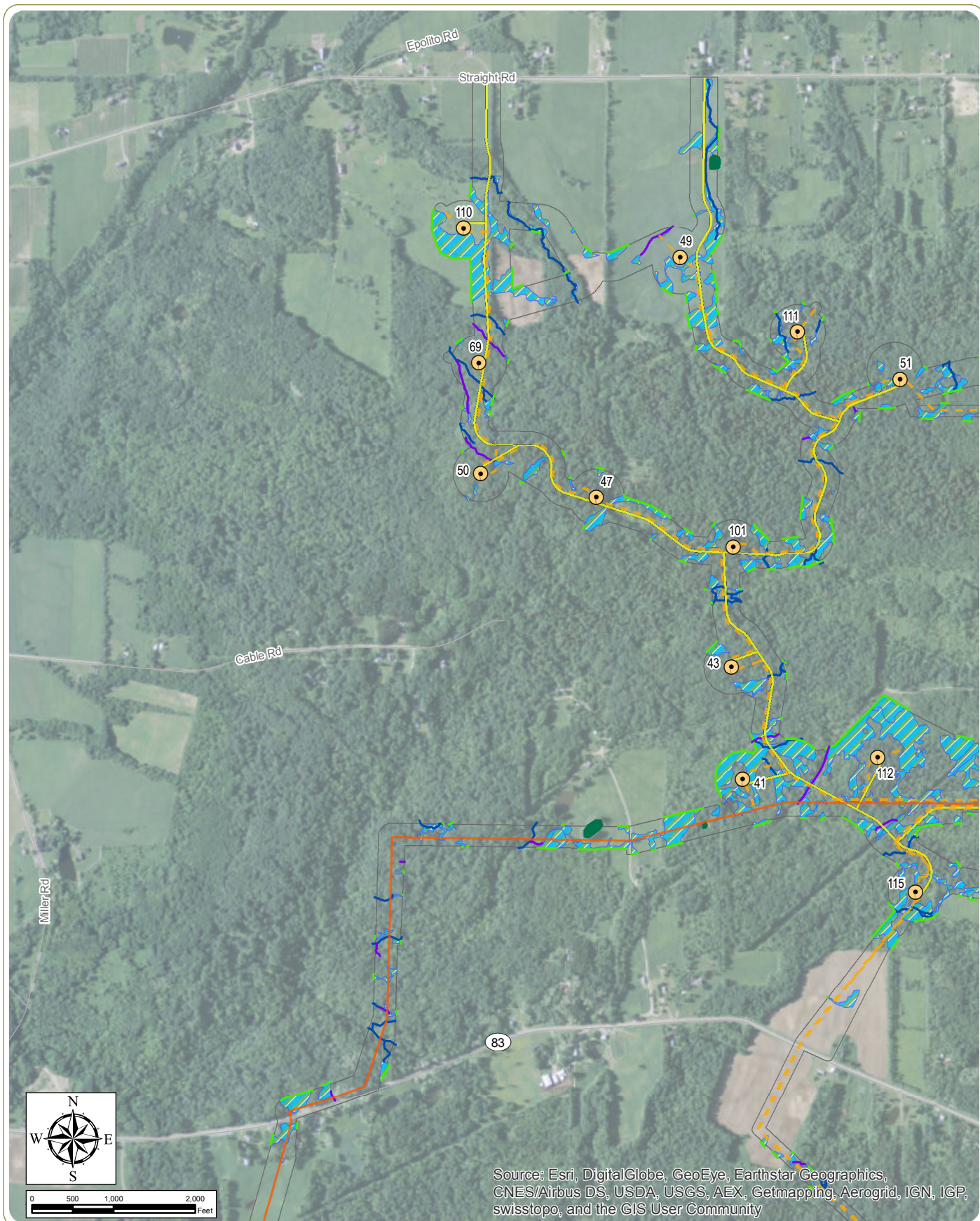
Notes: 1. Basemap: ESRI Online "World Imagery" Map Service

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- |                          |                              |                       |
|--------------------------|------------------------------|-----------------------|
| ● Wind Turbine           | - - - Buried Collection Line | Delineated Features   |
| ● Alternate Wind Turbine | - Generator Lead Line        | - Drain               |
| ▲ Met Tower              | - Access Road                | - Stream              |
| ■ Substation             | ■ Laydown Yard               | - Open-Ended Boundary |
| ■ O&M Facility           | □ Delineation Study Area     | ■ Pond                |
|                          |                              | ■ Wetland             |







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret -  
Chautauqua County, New York

**Figure 10: Delineated Wetlands** Sheet 2 of 7  
October 2015

Notes: 1. Basemap: ESRI Online "World Imagery" Map Service

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- |                          |                              |                       |
|--------------------------|------------------------------|-----------------------|
| ● Wind Turbine           | - - - Buried Collection Line | Delineated Features   |
| ● Alternate Wind Turbine | - Generator Lead Line        | - Drain               |
| ▲ Met Tower              | - Access Road                | - Stream              |
| ■ Substation             | ■ Laydown Yard               | - Open-Ended Boundary |
| ■ O&M Facility           | □ Delineation Study Area     | ■ Pond                |
|                          |                              | ■ Wetland             |







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret -  
Chautauqua County, New York

**Figure 10: Delineated Wetlands** Sheet 3 of 7  
October 2015

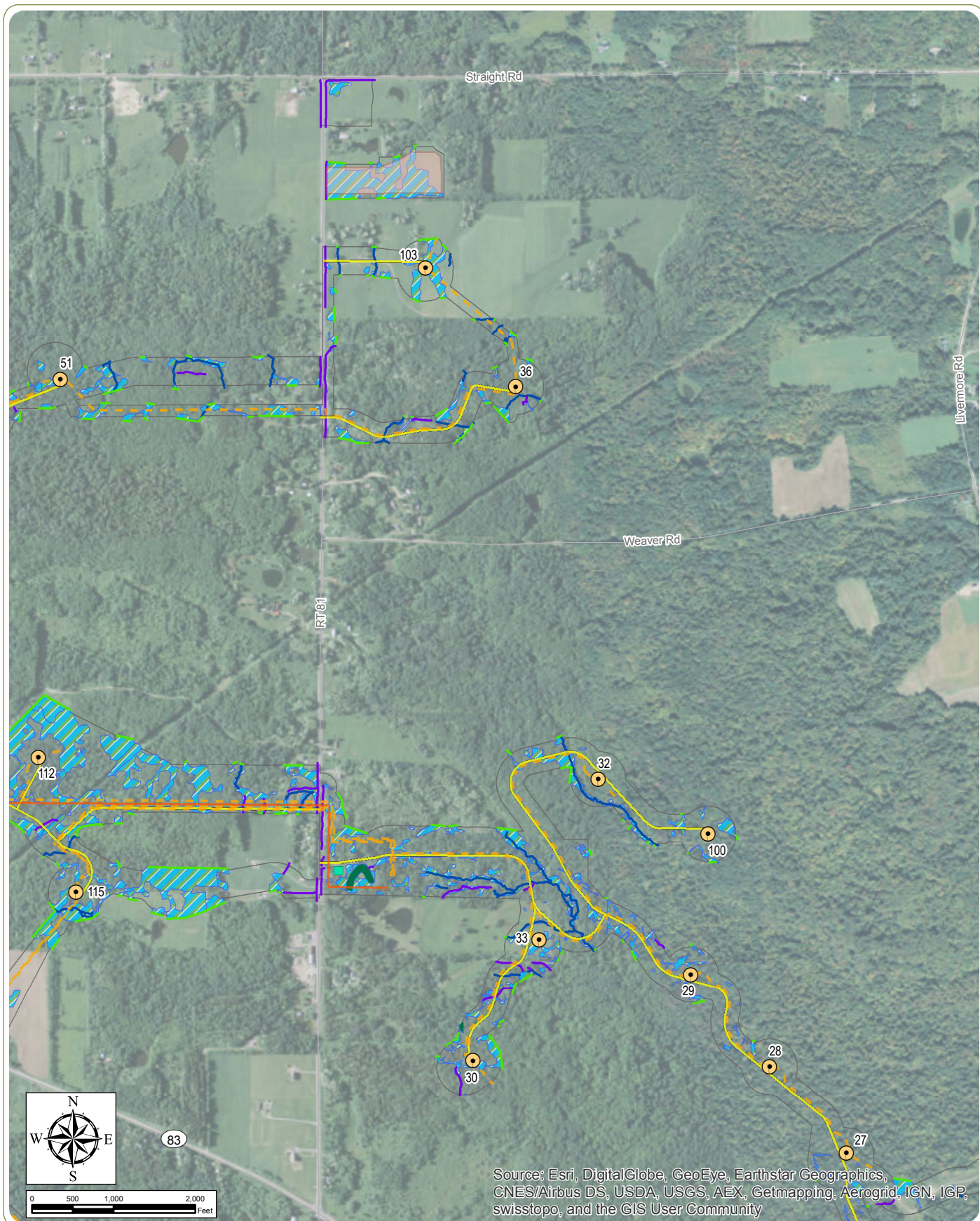
Notes: 1. Basemap: ESRI Online "World Imagery" Map Service

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- |                          |                              |                       |
|--------------------------|------------------------------|-----------------------|
| ● Wind Turbine           | - - - Buried Collection Line | Delineated Features   |
| ● Alternate Wind Turbine | - Generator Lead Line        | - Drain               |
| ▲ Met Tower              | - Access Road                | - Stream              |
| ■ Substation             | ■ Laydown Yard               | - Open-Ended Boundary |
| ■ O&M Facility           | □ Delineation Study Area     | ■ Pond                |
|                          |                              | ■ Wetland             |







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret -  
Chautauqua County, New York

**Figure 10: Delineated Wetlands** Sheet 4 of 7  
October 2015

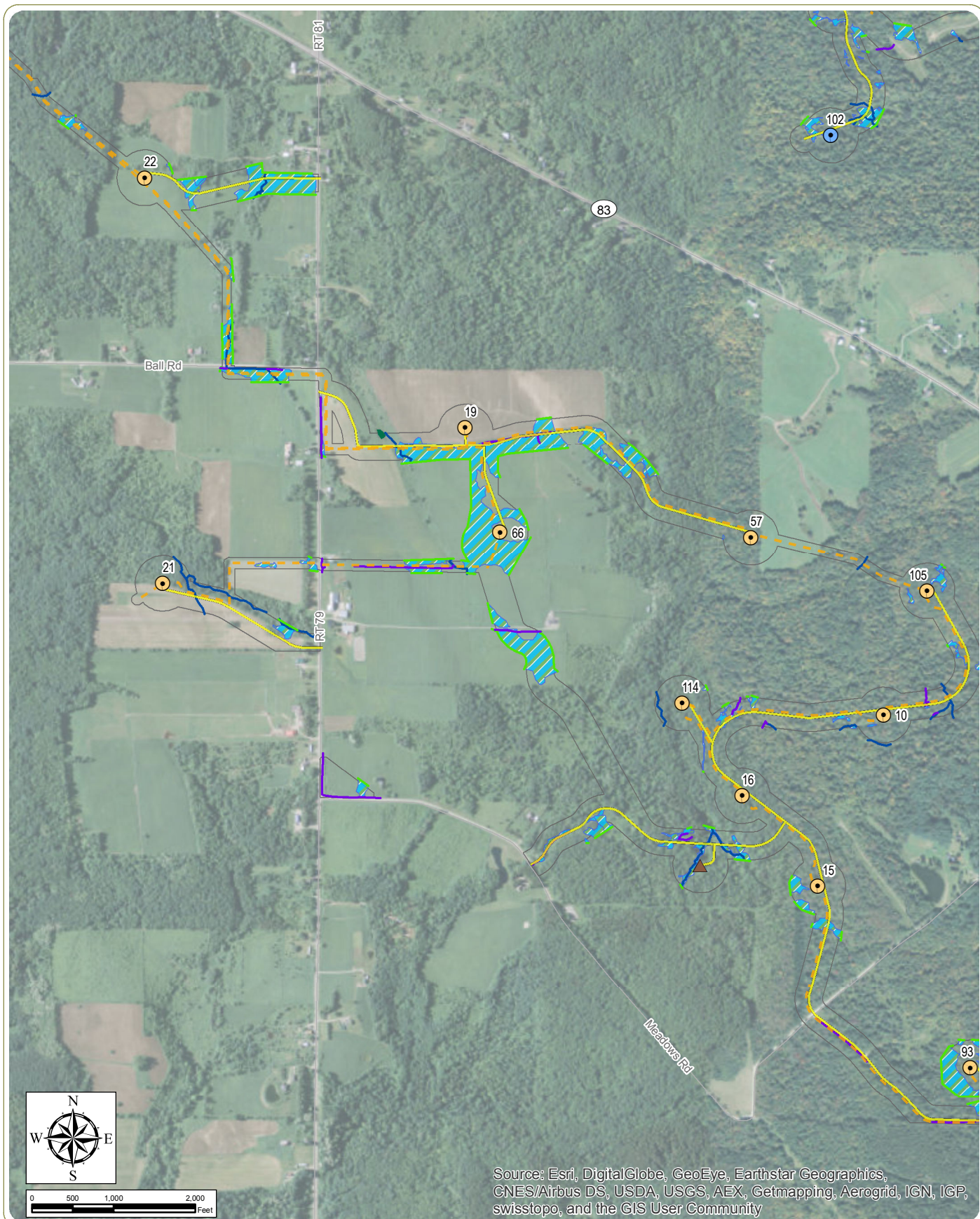
Notes: 1. Basemap: ESRI Online "World Imagery" Map Service

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- |                          |                              |                       |
|--------------------------|------------------------------|-----------------------|
| ● Wind Turbine           | - - - Buried Collection Line | Delineated Features   |
| ● Alternate Wind Turbine | - - - Generator Lead Line    | — Drain               |
| ▲ Met Tower              | - - - Access Road            | — Stream              |
| ■ Substation             | ■ Laydown Yard               | — Open-Ended Boundary |
| ■ O&M Facility           | □ Delineation Study Area     | ■ Pond                |
|                          |                              | ■ Wetland             |







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret -  
Chautauqua County, New York

**Figure 10: Delineated Wetlands** Sheet 5 of 7  
October 2015

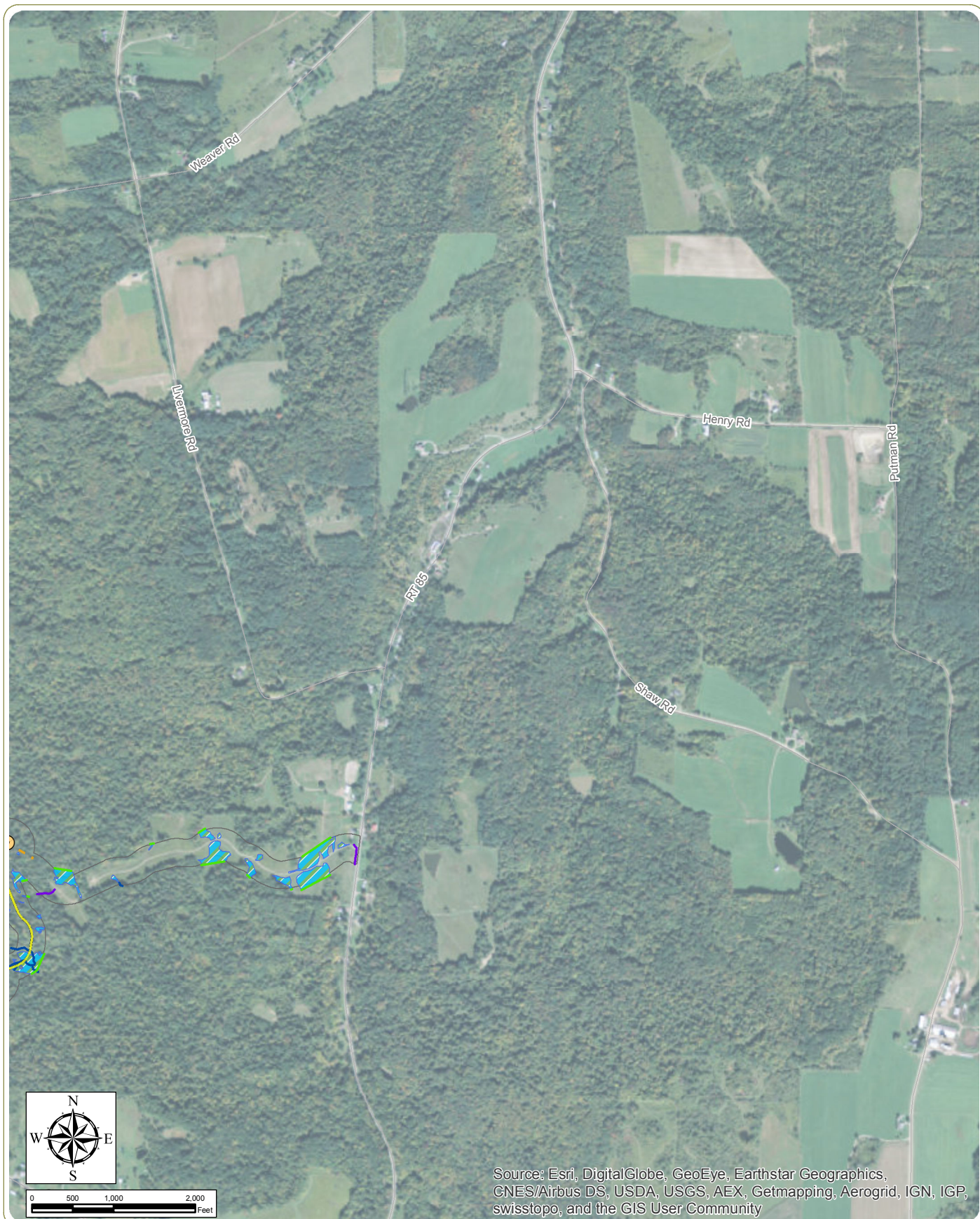
Notes: 1. Basemap: ESRI Online "World Imagery" Map Service

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- |                          |                              |                       |
|--------------------------|------------------------------|-----------------------|
| ● Wind Turbine           | - - - Buried Collection Line | Delineated Features   |
| ● Alternate Wind Turbine | - - - Generator Lead Line    | — Drain               |
| ▲ Met Tower              | — Access Road                | — Stream              |
| ■ Substation             | ■ Laydown Yard               | — Open-Ended Boundary |
| ■ O&M Facility           | □ Delineation Study Area     | ■ Pond                |
|                          |                              | ■ Wetland             |







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret -  
Chautauqua County, New York

**Figure 10: Delineated Wetlands** Sheet 6 of 7  
October 2015

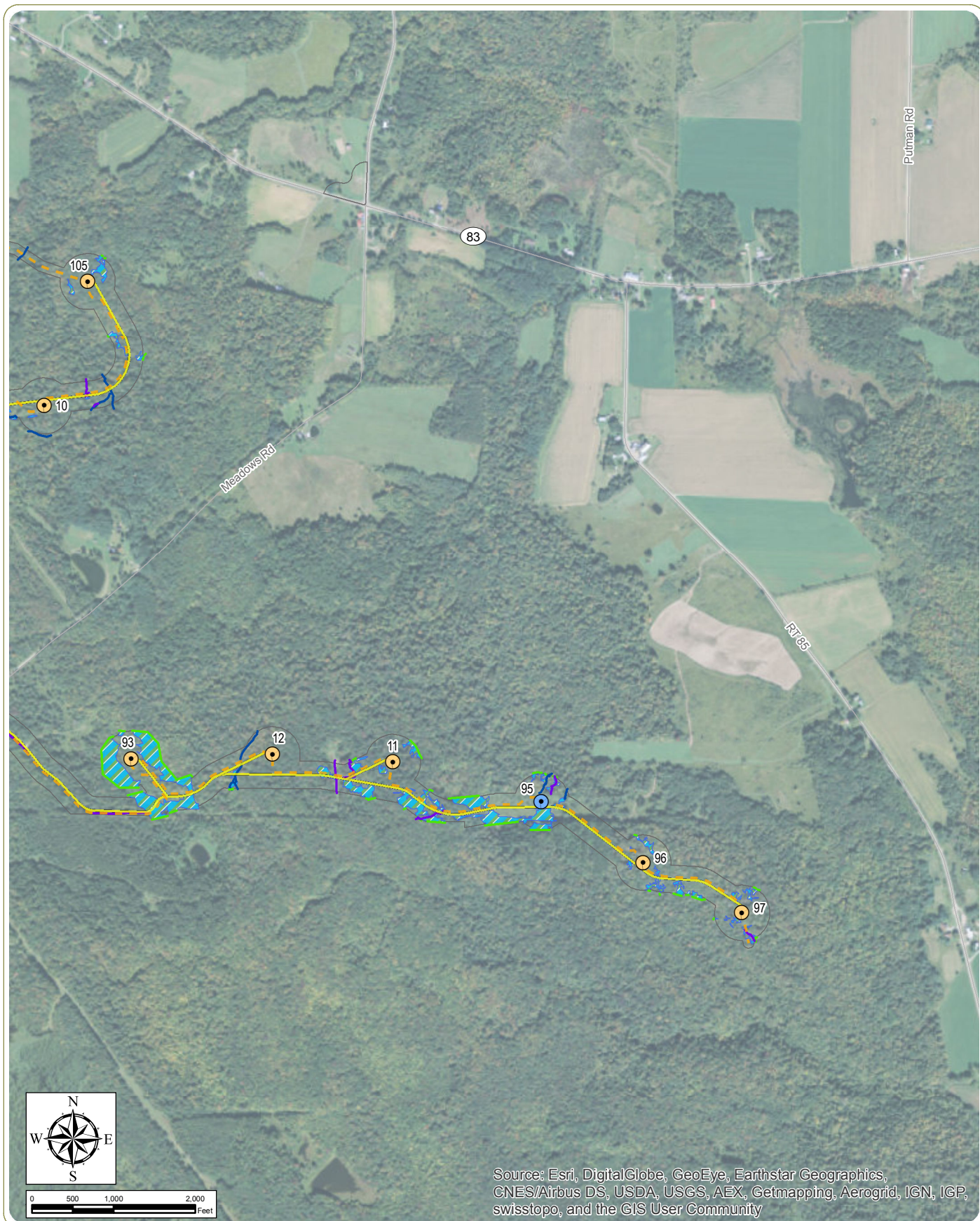
Notes: 1. Basemap: ESRI Online "World Imagery" Map Service

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- |                          |                              |                            |
|--------------------------|------------------------------|----------------------------|
| ● Wind Turbine           | - - - Buried Collection Line | <b>Delineated Features</b> |
| ● Alternate Wind Turbine | - Generator Lead Line        | — Drain                    |
| ▲ Met Tower              | — Access Road                | — Stream                   |
| ■ Substation             | ■ Laydown Yard               | — Open-Ended Boundary      |
| ■ O&M Facility           | □ Delineation Study Area     | ■ Pond                     |
|                          |                              | ▨ Wetland                  |







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret -  
Chautauqua County, New York

**Figure 10: Delineated Wetlands** Sheet 7 of 7  
October 2015

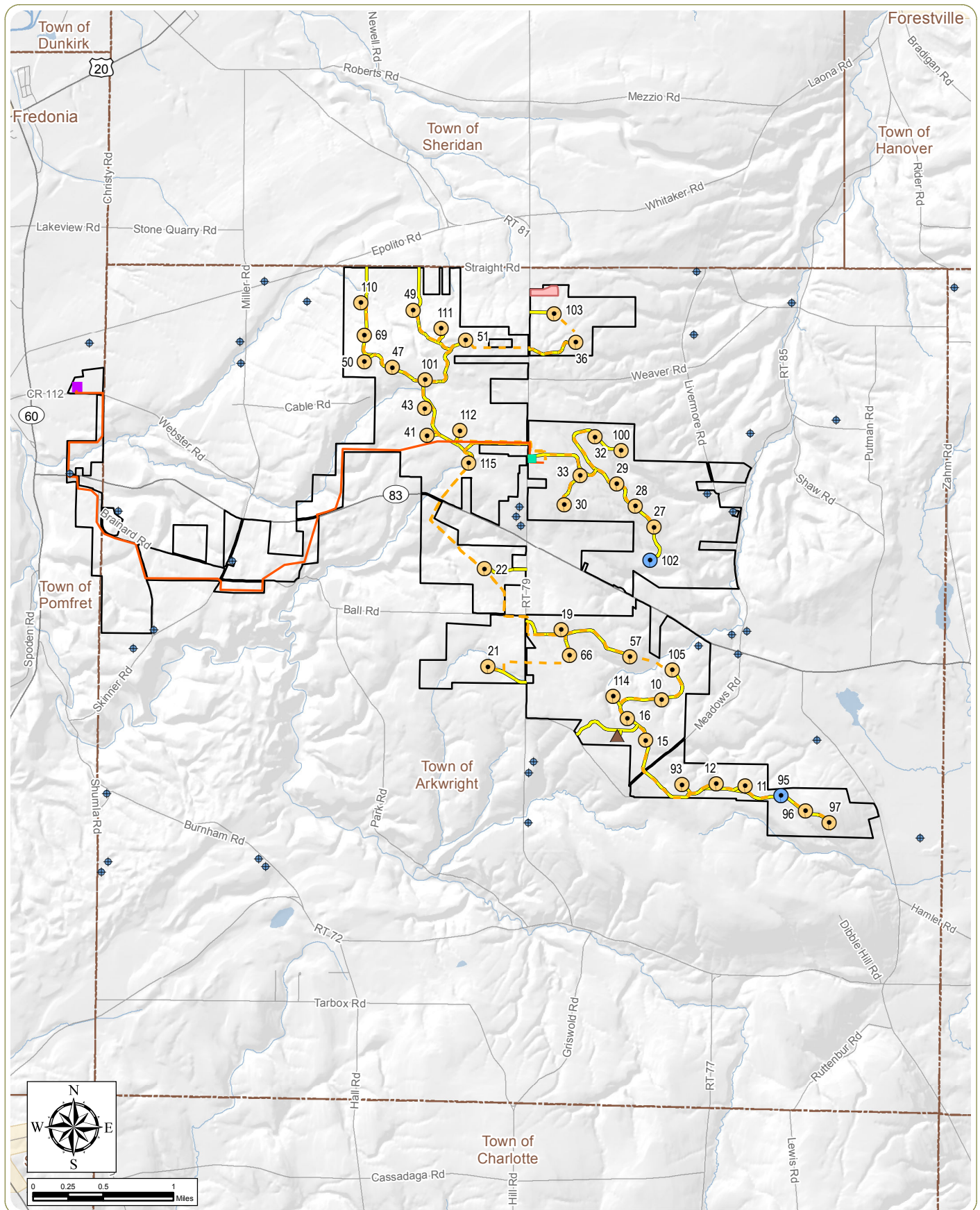
Notes: 1. Basemap: ESRI Online "World Imagery" Map Service

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- |                          |                              |                       |
|--------------------------|------------------------------|-----------------------|
| ● Wind Turbine           | - - - Buried Collection Line | Delineated Features   |
| ● Alternate Wind Turbine | - - - Generator Lead Line    | — Drain               |
| ▲ Met Tower              | - - - Access Road            | — Stream              |
| ■ Substation             | ■ Laydown Yard               | — Open-Ended Boundary |
| ■ O&M Facility           | □ Delineation Study Area     | ■ Pond                |
|                          |                              | ■ Wetland             |







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, NY

### Figure 11: Water Well Locations

October 2015

Notes: 1. Basemap: Hillshade derived from USGS digital elevation model and ESRI StreetMap North America, 2008

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- ◆ Water Well Location
- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Substation
- O&M Facility
- - - Buried Collection Line
- Generator Lead Line
- Access Road
- Laydown Yard
- Project Site
- - - Town Boundary







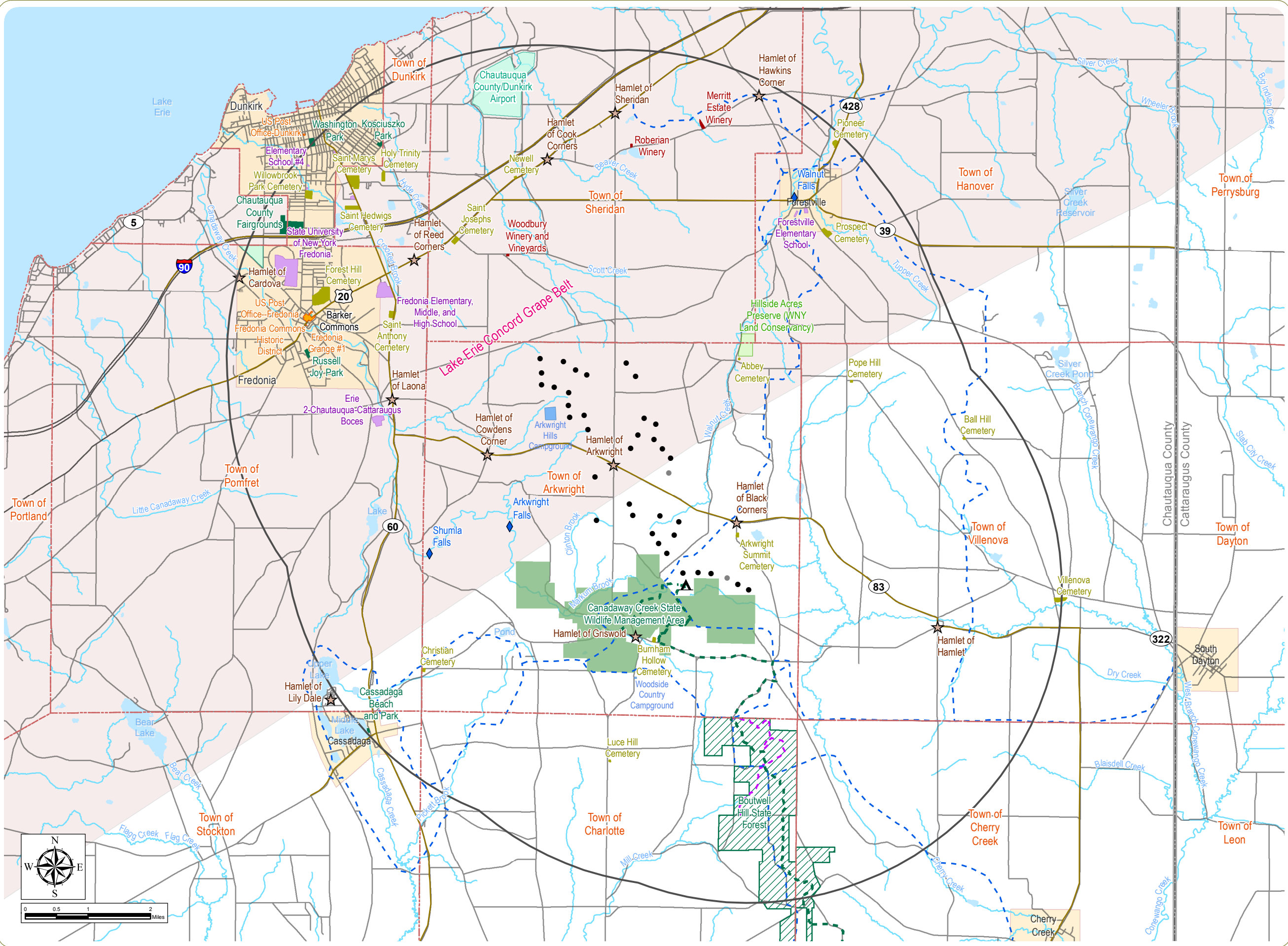


# Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

Figure 13: Visually Sensitive Resources

October 2015

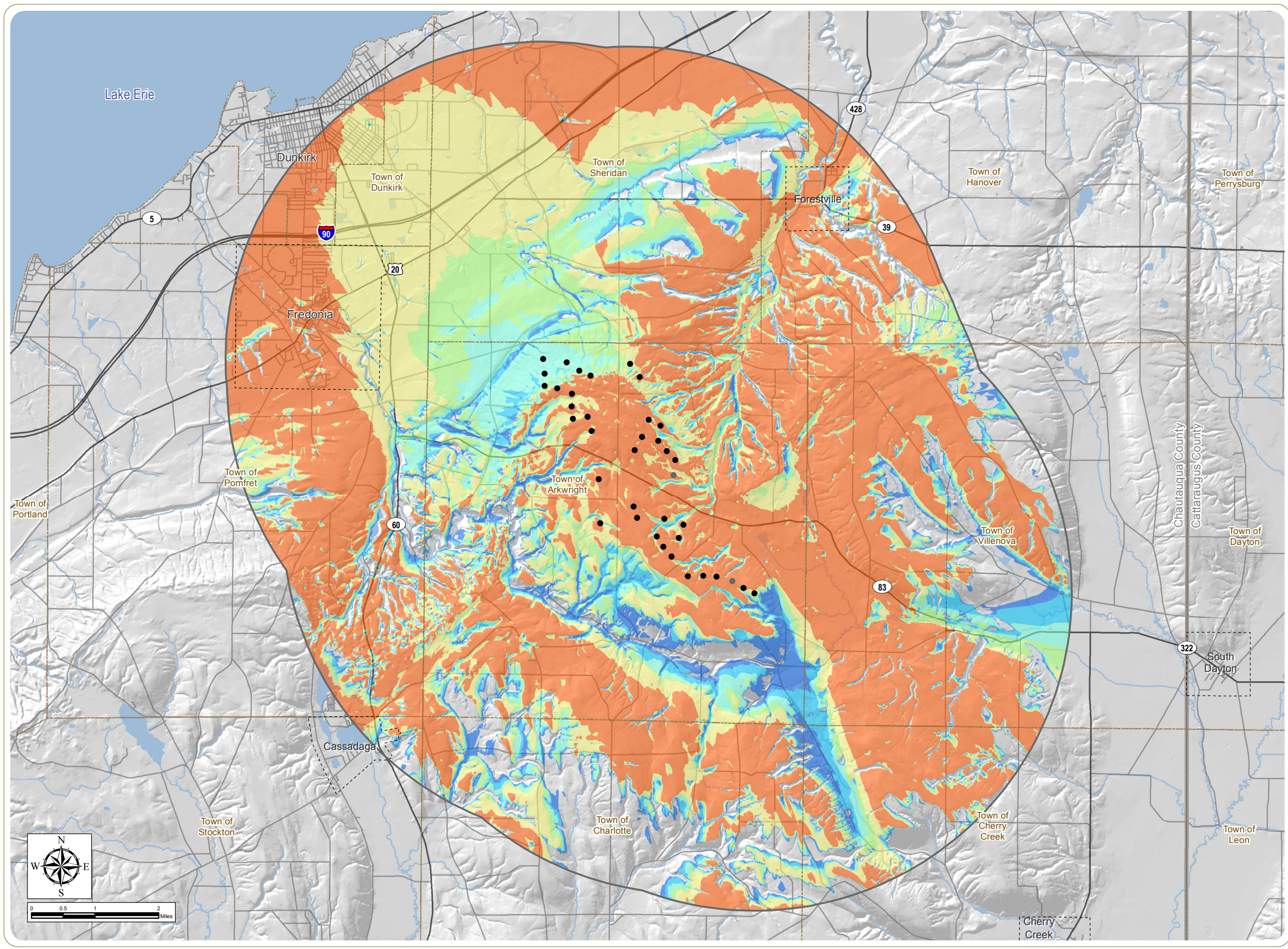


- Wind Turbine
- Alternate Wind Turbine
- ★ Hamlet
- ◆ Waterfall
- ▲ East Side Overland Trail Lean-to
- - - Earl Cardot East Side Overland Trail
- - - Bits-N-Spurs Trail
- - - Snowmobile Trail
- NRHP Listed Site
- Campground
- State WMA
- Cemetery
- Local Park
- School and College
- State Forest
- Winery
- WNY Land Conservancy
- Other Local Resources
- NYS Heritage Area
- Visual Study Area
- Town Boundary
- County Boundary

**Notes:**  
1. Basemap: ESRI StreetMap North America, 2008.  
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.







# Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 14: Viewshed Analysis**  
Sheet 1 of 4: Blade Tip Visibility Based on Topography Only

October 2015

- Wind Turbine
  - Alternate Wind Turbine
  - ▭ SVRA2 Visual Study Area
  - - - Village Boundary
  - - - Town Boundary
  - ▭ County Boundary
- Number of Turbines Potentially Visible
- 1-5 Turbines
  - 6-10 Turbines
  - 11-15 Turbines
  - 16-20 Turbines
  - 21-30 Turbines
  - 30-38 Turbines

**Notes:**  
1. Basemap: Hillshade derived from 10-meter resolution USGS DEM data.  
2. Potential turbine visibility based on topography only. Screening effects of buildings, trees or other factors are not accounted for.  
3. Analysis based on maximum blade tip height of 150 meters.  
4. This is a color graphic. Reproduction in grayscale may misrepresent the data.



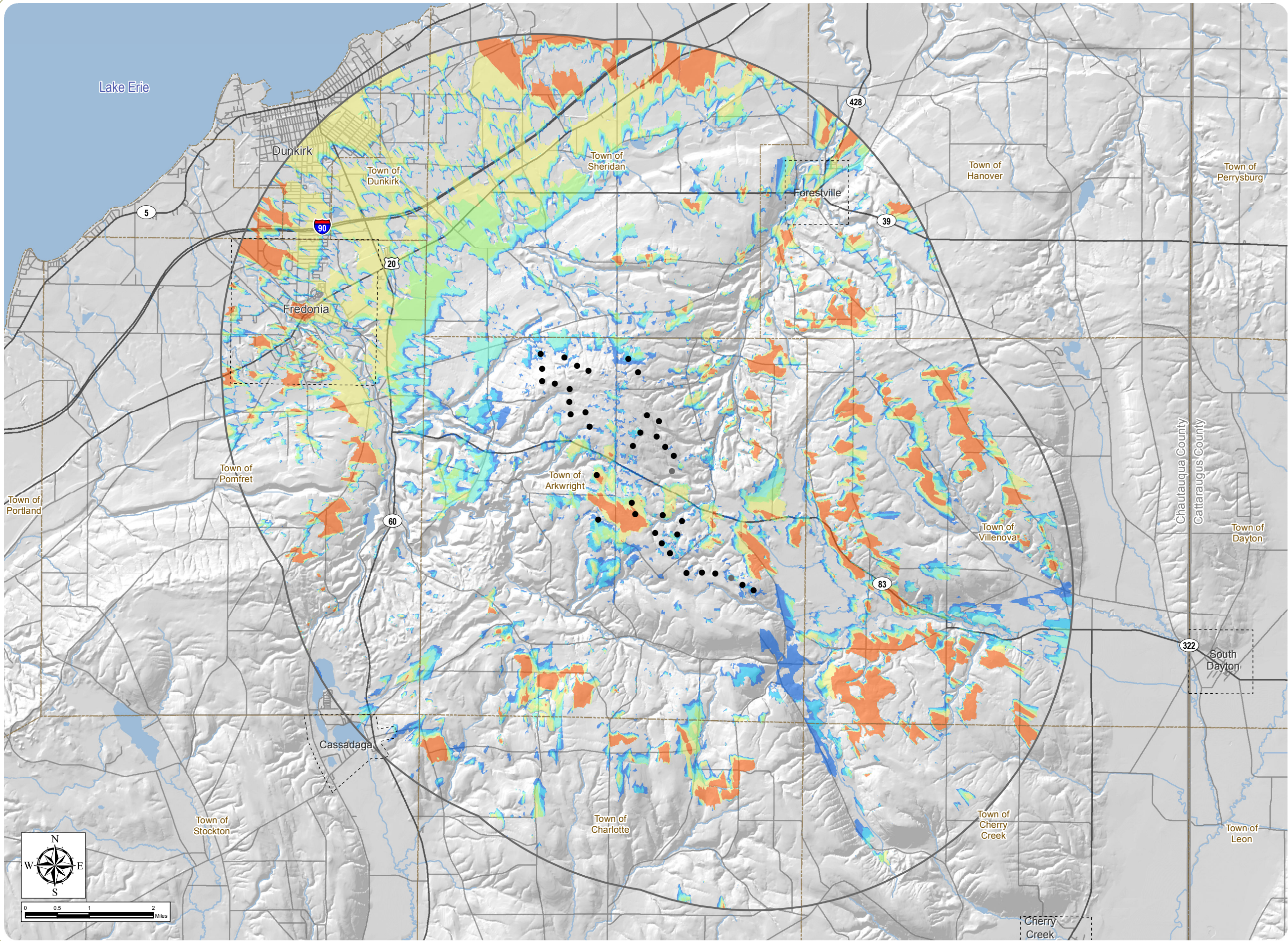


# Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 14: Viewshed Analysis**  
Sheet 2 of 4: Blade Tip Visibility Based on Vegetation and Topography

October 2015



- Wind Turbine
  - Alternate Wind Turbine
  - SVRA2 Visual Study Area
  - Village Boundary
  - Town Boundary
  - County Boundary
- Number of Turbines Potentially Visible
- 1-5 Turbines
  - 6-10 Turbines
  - 11-15 Turbines
  - 16-20 Turbines
  - 21-30 Turbines
  - 30-38 Turbines

**Notes:**  
1. Basemap: Hillshade derived from 10-meter resolution USGS DEM data.  
2. Potential turbine visibility based on topography and screening effects of mapped forest vegetation.  
3. Analysis based on maximum blade tip height of 150 meters.  
4. This is a color graphic. Reproduction in grayscale may misrepresent the data.





Arkwright Summit  
Wind Farm

Towns of Arkwright and  
Pomfret - Chautauqua County,  
New York

Figure 14: Viewshed Analysis  
Sheet 3 of 4: FAA Warning Light  
Visibility Based on Topography Only

October 2015

- FAA Lighted Wind Turbine
  - Wind Turbine
  - Alternate Wind Turbine
  - SVRA2 Visual Study Area
  - Village Boundary
  - Town Boundary
  - County Boundary
- Number of FAA Warning Lights Visible
- 1-2 Lights
  - 3-4 Lights
  - 5-6 Lights
  - 7-8 Lights

**Notes:**

1. Basemap: Hillshade derived from 10-meter resolution USGS DEM data.
2. Potential warning light visibility based on topography only. Screening effects of buildings, trees or other factors are not accounted for.
3. Analysis based on FAA warning light height of 100 meters and anticipated lighting plan, which proposed that eight turbines would be equipped with FAA warning lights.
4. This is a color graphic. Reproduction in grayscale may misrepresent the data.





Arkwright Summit  
Wind Farm

Towns of Arkwright and  
Pomfret - Chautauqua County,  
New York

Figure 14: Viewshed Analysis  
Sheet 4 of 4: FAA Warning Light  
Visibility Based on Vegetation and  
Topography

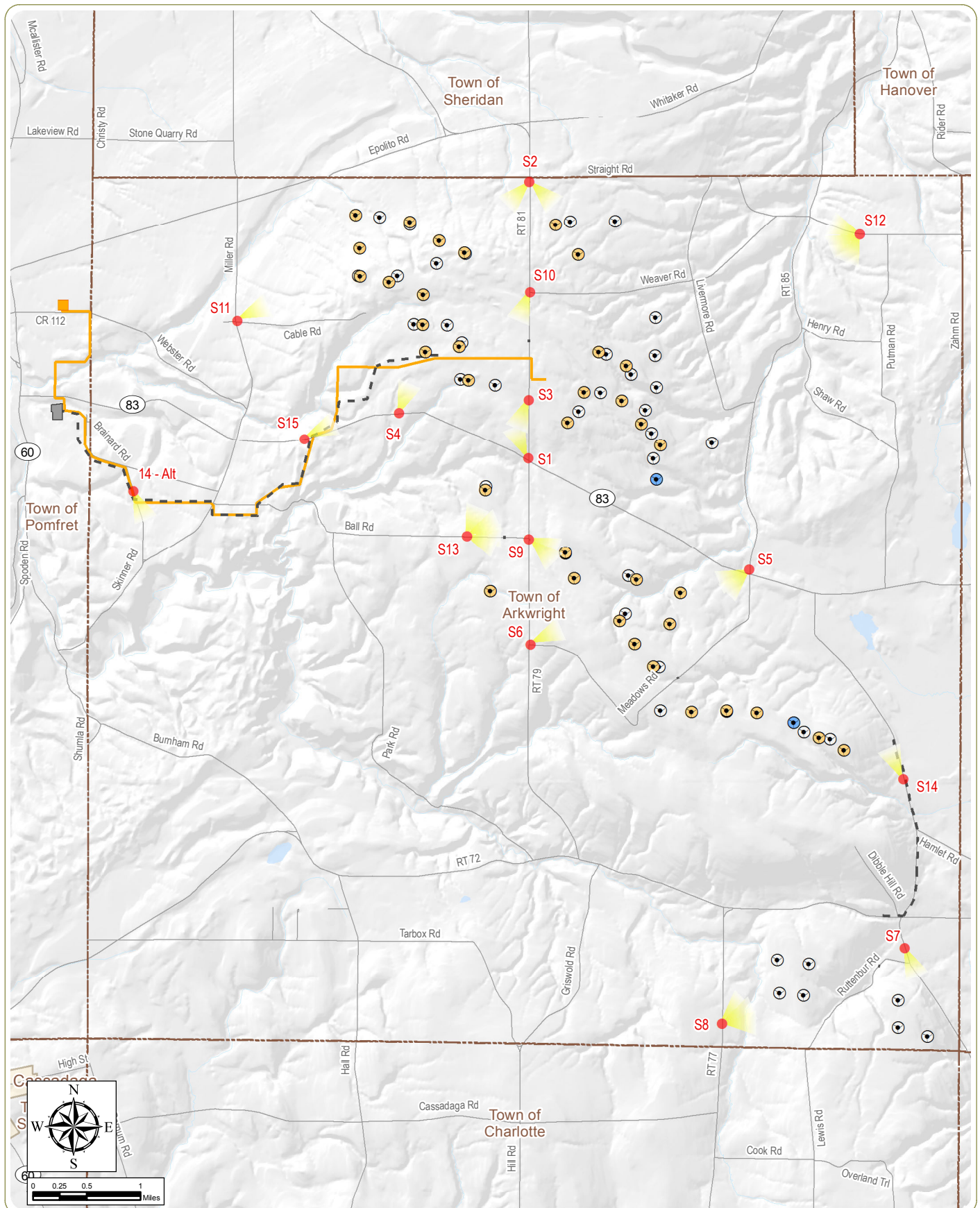
October 2015

- FAA Lighted Wind Turbine
- Wind Turbine
- Alternate Wind Turbine
- ▭ SVRA2 Visual Study Area
- ▭ Village Boundary
- ▭ Town Boundary
- ▭ County Boundary
- Number of FAA Warning Lights Visible
  - 1-2 Lights
  - 3-4 Lights
  - 5-6 Lights
  - 7-8 Lights

**Notes:**  
1. Basemap: Hillshade derived from 10-meter resolution USGS DEM data.  
2. Potential warning light visibility based on topography and screening effects of mapped forest vegetation.  
3. Analysis based on FAA warning light height of 100 meters and anticipated lighting plan, which proposed that eight turbines would be equipped with FAA warning lights.  
4. This is a color graphic. Reproduction in grayscale may misrepresent the data.







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 15: Viewpoint Location Map Sheet 1 of 2

October 2015

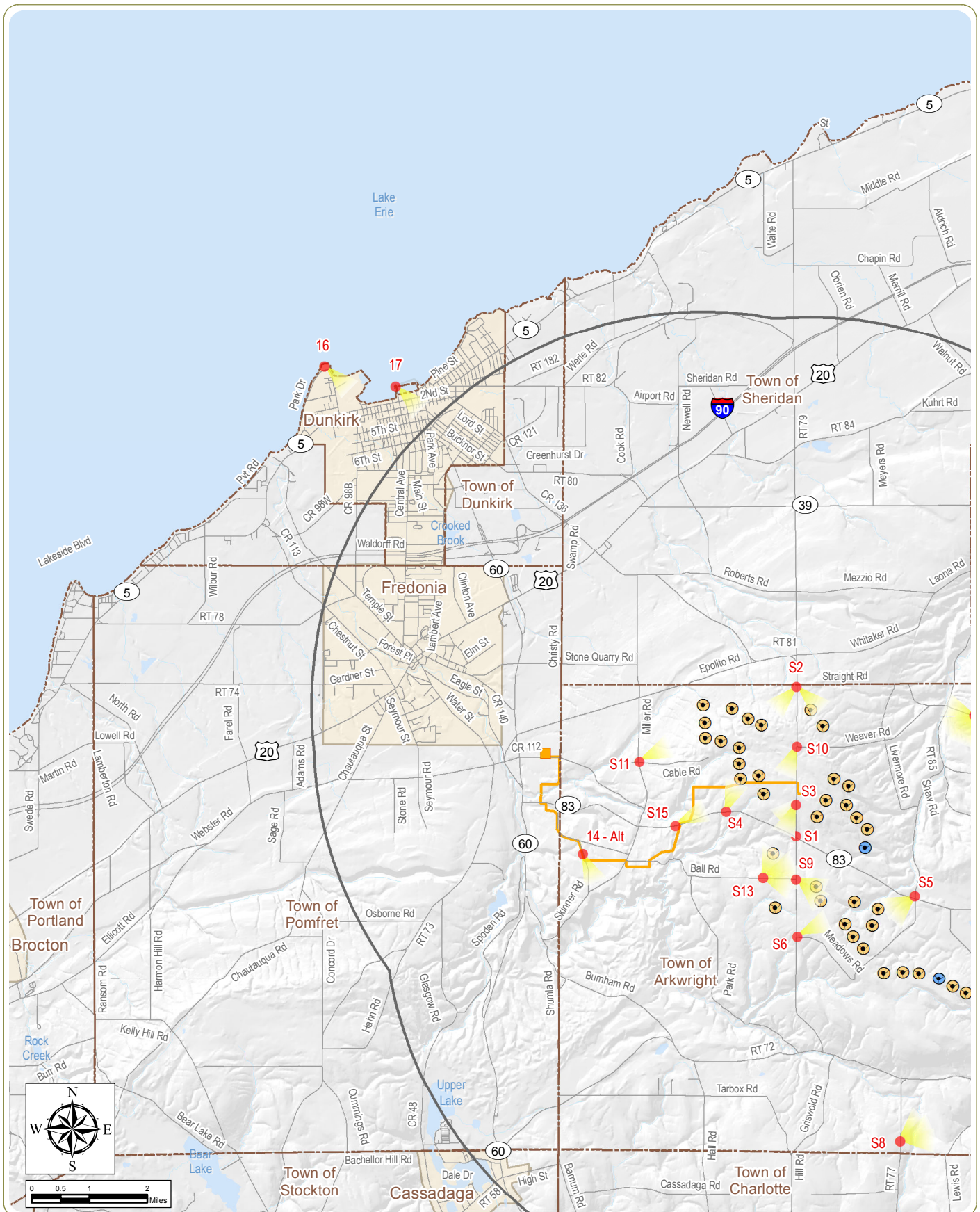
**Notes:** 1. Basemap: Hillshade derived from 10-meter resolution USGS DEM data and ESRI StreetMap North America, 2008.

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Simulation Viewpoint
- SEIS2 Wind Turbine
- SEIS2 Alternate Wind Turbine
- SEIS2 Generator Lead Line
- SEIS2 Substation
- ⊙ SEIS Wind Turbine
- - - SEIS Transmission Line
- SEIS Substation
- Town Boundary







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 15: Viewpoint Location Map Sheet 2 of 2

October 2015

● Simulation Viewpoint

● SEIS2 Wind Turbine

● SEIS2 Alternate Wind Turbine

— SEIS2 Generator Lead Line

■ SEIS2 Substation

▭ SVRA2 Visual Study Area

▭ Town Boundary

Notes: 1. Basemap: Hillshade derived from 10-meter resolution USGS DEM data. ESRI StreetMap North America, 2008.

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.







**Viewpoint - 1**  
**NYS Route 83**  
**& Center Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Northwest*



**Viewpoint - 1**  
**NYS Route 83**  
**& Center Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Northwest*

### Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 2A**  
**Straight Road**  
**& Center Road**  
**SVRA (Simulation 2009)**  
*Direction of View: West*



**Viewpoint - 2A**  
**Straight Road**  
**& Center Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: West*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 2B**  
**Straight Road**  
**& Center Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Southwest*



**Viewpoint - 2B**  
**Straight Road**  
**& Center Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Southwest*

### Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 3**  
**Arkwright Town Hall**  
**SVRA (Simulation 2009)**  
*Direction of View: South*



**Viewpoint - 3**  
**Arkwright Town Hall**  
**SVRA2 (Simulation 2015)**  
*Direction of View: South*

### Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 4**  
 Arkwright Hills Campground  
 (Entrance from NYS Route 83)  
**SVRA (Simulation 2009)**  
*Direction of View: Northeast*



**Viewpoint - 4**  
 Arkwright Hills Campground  
 (Entrance from NYS Route 83)  
**SVRA2 (Simulation 2015)**  
*Direction of View: Northeast*

### Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 5A**  
**Meadows Road &**  
**NYS Route 83**  
**SVRA (Simulation 2009)**  
*Direction of View: Southwest*



**Viewpoint - 5A**  
**Meadows Road &**  
**NYS Route 83**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Southwest*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 5B**  
**Meadows Road &**  
**NYS Route 83**  
**SVRA (Simulation 2009)**  
*Direction of View: Southwest*



**Viewpoint - 5B**  
**Meadows Road &**  
**NYS Route 83**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Southwest*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 6**  
**Meadows Road &**  
**Center Road**  
**SVRA (Simulation 2009)**  
*Direction of View: East*



**Viewpoint - 6**  
**Meadows Road &**  
**Center Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: East*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015

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**Viewpoint - 7**  
**Ruttenburg Road &**  
**Farrington Hollow Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Southeast*



**Viewpoint - 7**  
**Ruttenburg Road &**  
**Farrington Hollow Road**  
**SVRA2 (Existing photo)**  
*Direction of View: Southeast*

### Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 8A**  
**Ruttenburg Road &**  
**Rood Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Northeast*



**Viewpoint - 8A**  
**Ruttenburg Road &**  
**Rood Road**  
**SVRA2 (Existing Photo)**  
*Direction of View: Northeast*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015

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**Viewpoint - 8B**  
**Ruttenburg Road &**  
**Rood Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Northeast*



**Viewpoint - 8B**  
**Ruttenburg Road &**  
**Rood Road**  
**SVRA2 (Existing Photo)**  
*Direction of View: Northeast*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015

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**Viewpoint - 9A**  
**Ball Road & Center Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Southeast*



**Viewpoint - 9A**  
**Ball Road & Center Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Southeast*

**Note:** Existing Met Tower to be Removed.

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015

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**Viewpoint - 9B**  
**Ball Road & Center Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Southeast*



**Viewpoint - 9B**  
**Ball Road & Center Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Southeast*

**Note:** Existing Met Tower to be Removed.

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015

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**Viewpoint - 10**  
**Weaver Road**  
**& Center Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Southwest*



**Viewpoint - 10**  
**Weaver Road**  
**& Center Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Southwest*

## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015

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**Viewpoint - 11**  
**Corner of Cable Road**  
**& Miller Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Northeast*



**Viewpoint - 11**  
**Corner of Cable Road**  
**& Miller Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Northeast*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 12A**  
**Straight Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Southwest*



**Viewpoint - 12A**  
**Straight Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Southwest*

**Note:** Existing Antenna Tower Not Part of Project

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

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**Viewpoint - 12B**  
**Straight Road**  
**SVRA (Simulation 2009)**  
*Direction of View: West*



**Viewpoint - 12B**  
**Straight Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: West*

**Note:** Existing Antenna Tower Not Part of Project

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015

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**Viewpoint - 12C**  
**Straight Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Northwest*



**Viewpoint - 12C**  
**Straight Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Northwest*

### Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015

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**Viewpoint - 13A**  
**Ball Road**  
**SVRA (Simulation 2009)**  
*Direction of View: North*



**Viewpoint - 13A**  
**Ball Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: North*

**Note:** Existing Antenna Towers Not Part of Project

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 13B**  
**Ball Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Northeast*



**Viewpoint - 13B**  
**Ball Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Northeast*

**Note:** Existing Antenna Towers Not Part of Project

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 13C**  
**Ball Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Northeast*



**Viewpoint - 13C**  
**Ball Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Northeast*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 13D**  
**Ball Road**  
**SVRA (Simulation 2009)**  
*Direction of View: East*



**Viewpoint - 13D**  
**Ball Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: East*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 13E**  
**Ball Road**  
**SVRA (Simulation 2009)**  
*Direction of View: East*



**Viewpoint - 13E**  
**Ball Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: East*

**Note:** Existing Antenna Towers Not Part of Project

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

October 2015







**Viewpoint - 13F**  
**Ball Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Southeast*



**Viewpoint - 13F**  
**Ball Road**  
**SVRA2 (Simulation 2015)**  
*Direction of View: Southeast*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

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**Viewpoint - 14**  
**Farrington Hollow Road**  
**SVRA (Simulation 2009)**  
*Direction of View: Northwest*



**Viewpoint - 14**  
**Farrington Hollow Road**  
**SVRA2 (Existing Photo)**  
*Direction of View: Northwest*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

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**Viewpoint - 15**  
**NYS Route 83**  
**SVRA (Simulation 2009)**  
*Direction of View: West*



**Viewpoint - 15**  
**NYS Route 83**  
**SVRA2 (Simulation 2015)**  
*Direction of View: West*

### **Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 16: Visual Simulations:** Comparison of SVRA and SVRA2 Viewpoints

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## EXISTING



## PROPOSED



### Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

Figure 17: Visual Simulations - Additional Viewpoints

October 2015

Sheet 1 of 1: Proposed view  
from Skinner Road facing Southeast

SVRA2 Viewpoint 14 Alternative





EXISTING



**Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 17:** Visual Simulations - Additional Viewpoints

October 2015

**Sheet 1 of 2:** Existing view from  
Dunkirk Lighthouse, facing Southeast

SVRA2 Viewpoint 16



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PROPOSED



**Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 17:** Visual Simulations - Additional Viewpoints

October 2015

**Sheet 2 of 2:** Proposed view from  
Dunkirk Lighthouse, facing Southeast

SVRA2 Viewpoint 16





EXISTING



**Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 17:** Visual Simulations - Additional Viewpoints

October 2015

**Sheet 1 of 2:** Existing view from Dunkirk  
Harbor parking lot, facing Southeast

SVRA2 Viewpoint 17





PROPOSED



**Arkwright Summit Wind Farm**

Towns of Arkwright and Pomfret - Chautauqua County, New York

**Figure 17:** Visual Simulations - Additional Viewpoints

October 2015

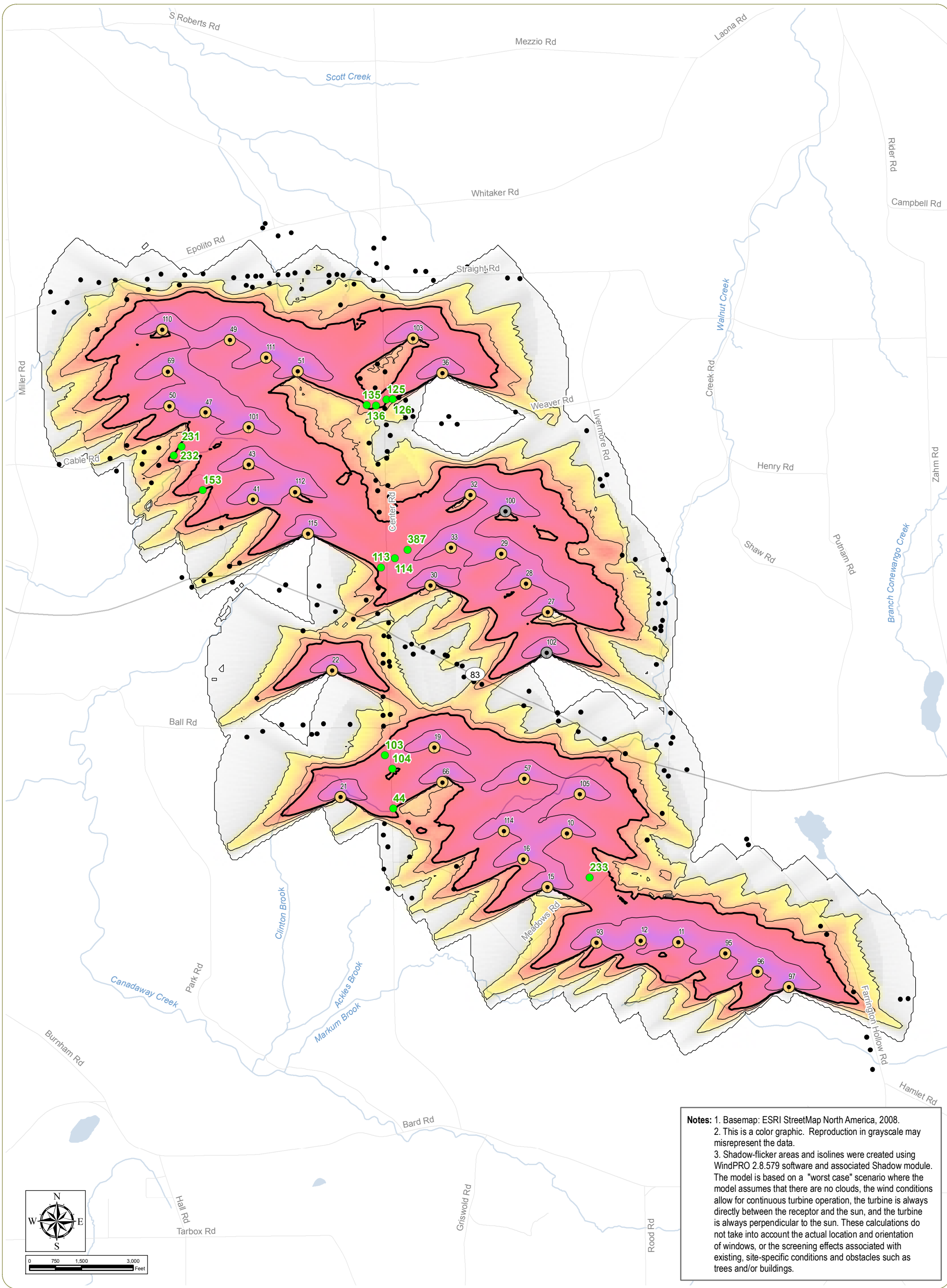
**Sheet 2 of 2:** Proposed view from Dunkirk  
Harbor parking lot, facing Southeast

SVRA2 Viewpoint 17



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# Arkwright Summit Wind Farm Chautauqua County, New York

Figure 18: Projected Shadow Flicker

October 2015

- Receptor receiving < 30 hours/year
- Receptor receiving > 30 hours/year
- Proposed Wind Turbine
- Alternate Wind Turbine

- Shadow Flicker Isolines (hours/year)
- 0
  - 10
  - 20
  - 30
  - 100

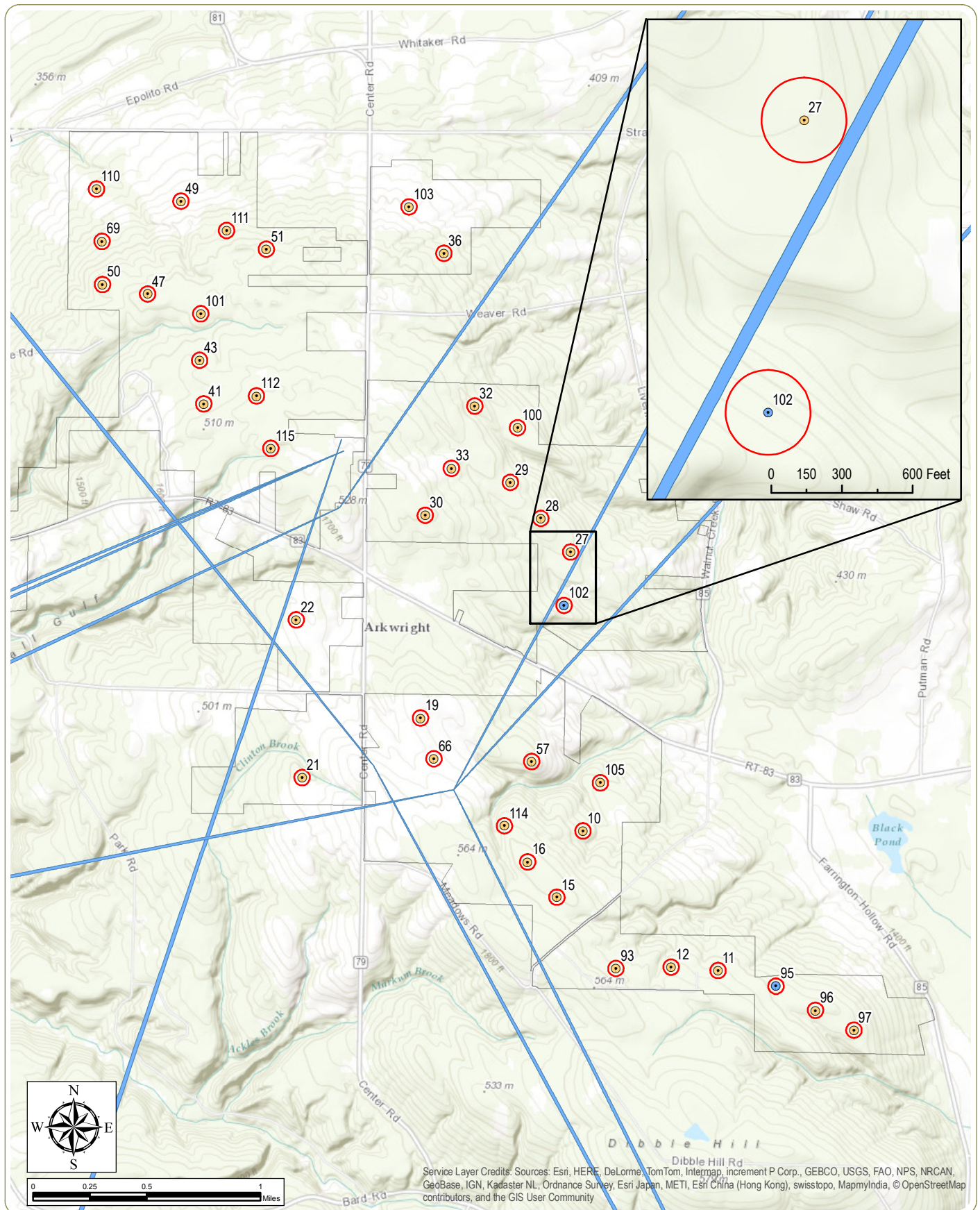
- Shadow Flicker (hours/year)
- < 1
  - 1 - 10
  - 10 - 20
  - 20 - 30
  - 30 - 100
  - > 100











## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 20: Microwave Path Analysis

October 2015

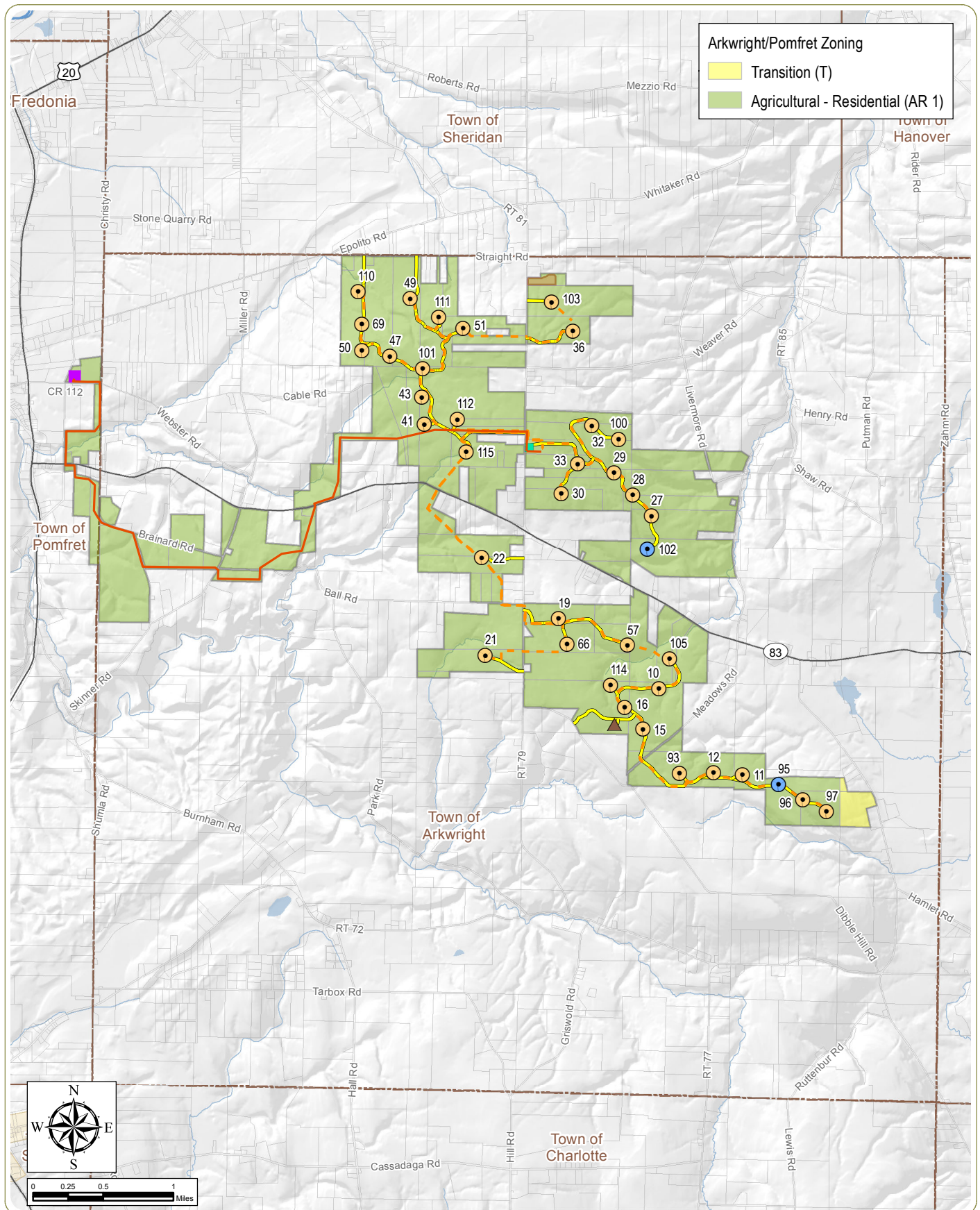
Notes: 1. Basemap: ESRI ArcGIS Online "World Topo Maps" Map Service

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Proposed Wind Turbine
- Alternate Wind Turbine
- Rotor-Swept Area
- Microwave Path Fresnel Zone
- Project Site







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 21: Project Site Zoning

October 2015

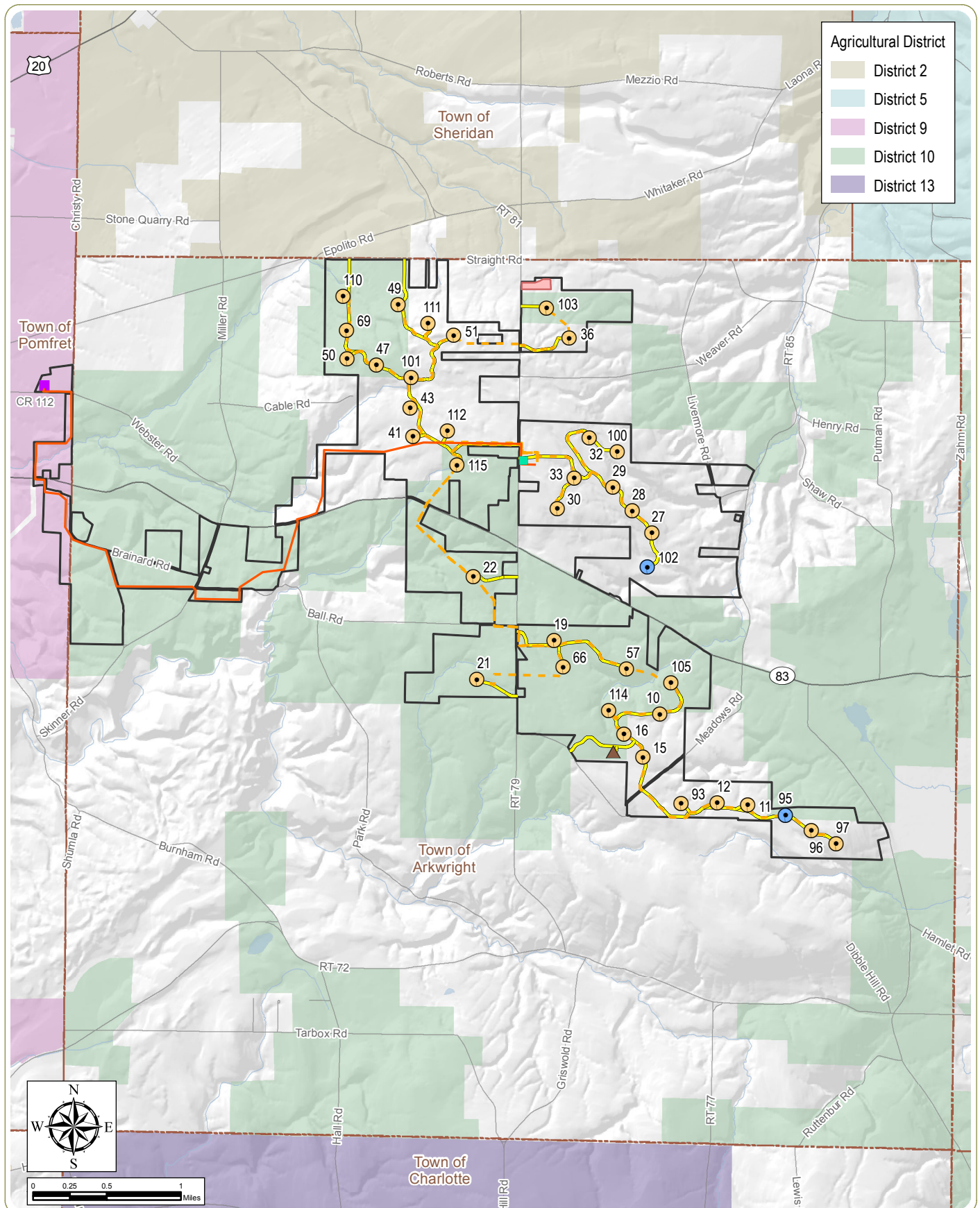
**Notes:** 1. Basemap: Hillshade derived from USGS digital elevation model and ESRI StreetMap North America, 2008

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Substation
- O&M Facility
- Buried Collection Line
- Generator Lead Line
- Access Road
- Laydown Yard
- Project Site
- Town Boundary







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 22: Agricultural Districts

October 2015

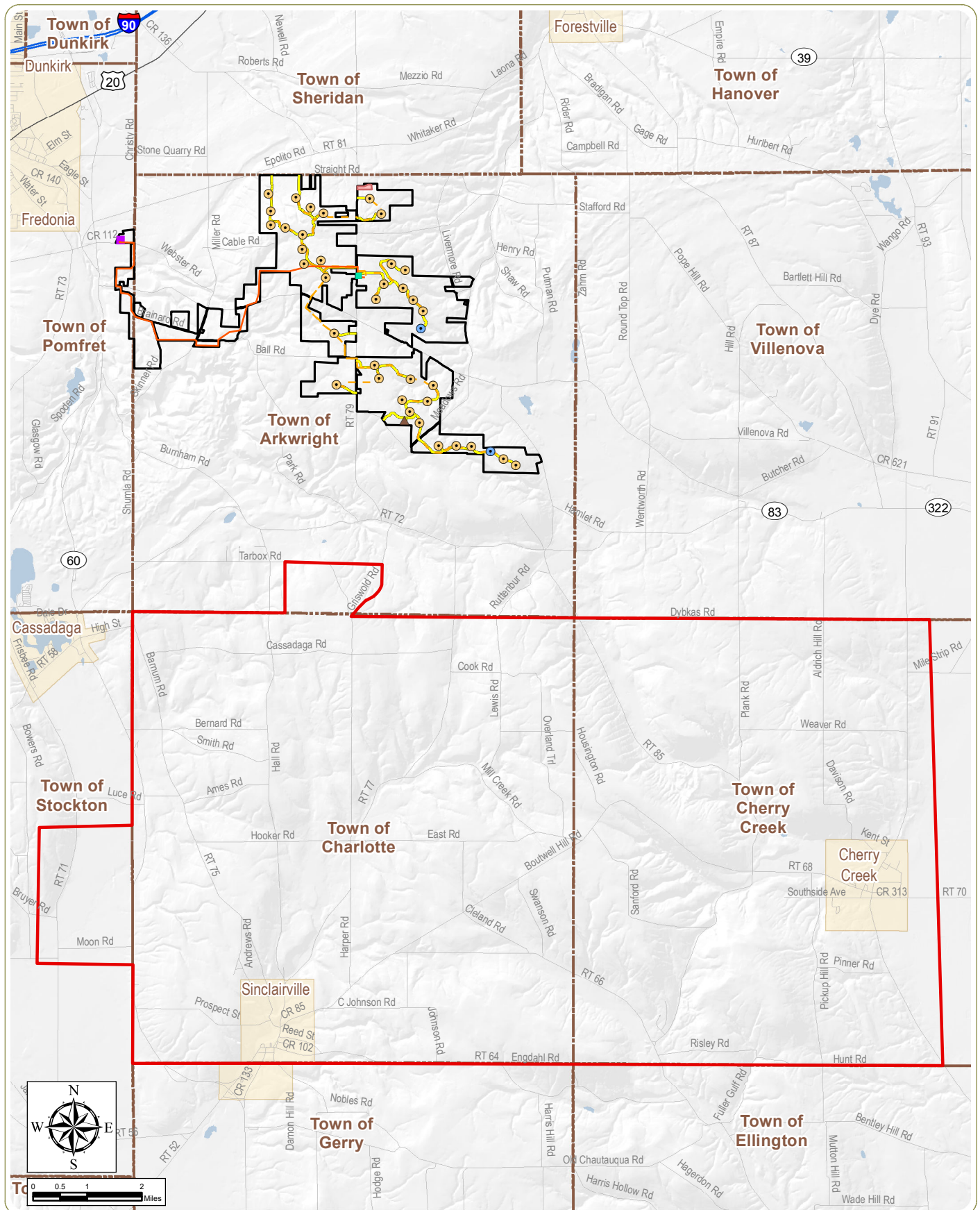
**Notes:** 1. Basemap: Hillshade derived from USGS digital elevation model and ESRI StreetMap North America, 2008

2. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Substation
- O&M Facility
- Buried Collection Line
- Generator Lead Line
- Access Road
- Laydown Yard
- Project Site
- Town Boundary







## Arkwright Summit Wind Farm

Towns of Arkwright and Pomfret - Chautauqua County, New York

### Figure 23: Proposed Regional Wind Projects

October 2015

Notes: 1. Basemap: Hillshade derived USGS digital elevation model and ESRI StreetMap North America, 2008

2. Cassadaga Wind Project Boundary Digitized from Public Involvement Program Plan

- Wind Turbine
- Alternate Wind Turbine
- ▲ Met Tower
- Substation
- O&M Facility
- - - Buried Collection Line
- Generator Lead Line
- Access Road
- ▭ Project Site
- ▭ Laydown Yard
- - - Town Boundary
- ▭ Cassadaga Project Boundary

