

Firelands Wind, LLC
Case No. 18-1607-EL-BGN

Application Part 2 of 17

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- **Figure 03-2** **Aerial Photography**
- **Figure 04-1** **Study Area Evaluated**
- **Figure 04-2** **Constraints Map**
- **Figure 07-1** **Aviation Facilities**
- **Figure 08-1** **Drinking Water Resources**
- **Figure 08-2** **Existing Features**
- **Figure 08-3** **Ecological Features**
- **Figure 08-4** **Delineated Resources**

Date Filed: January 31, 2019

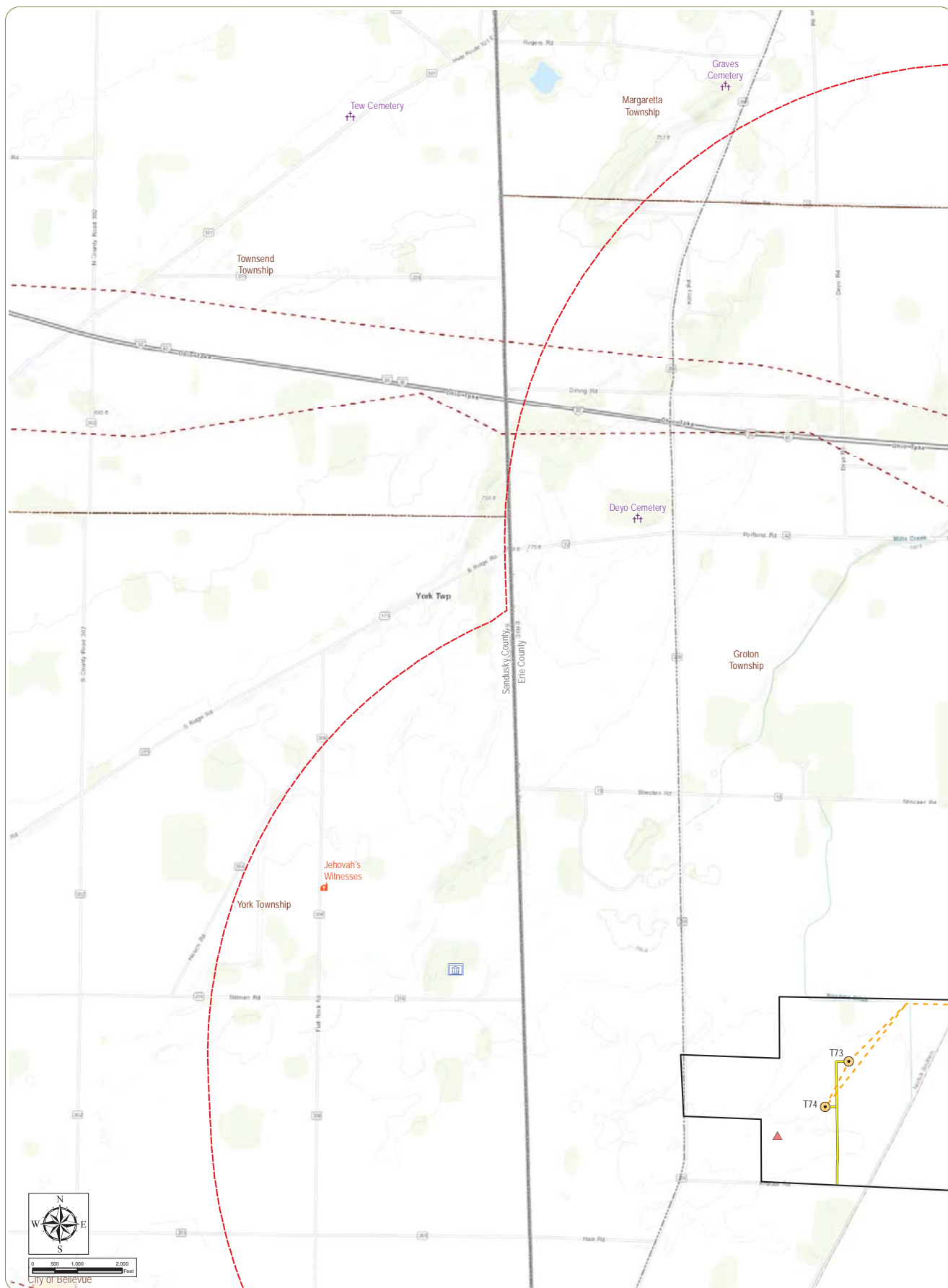
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Attorneys for Firelands Wind, LLC

Figure 03-1 Geography and Topography

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Attorneys for Firelands Wind, LLC



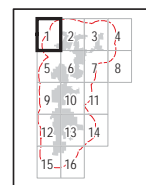
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

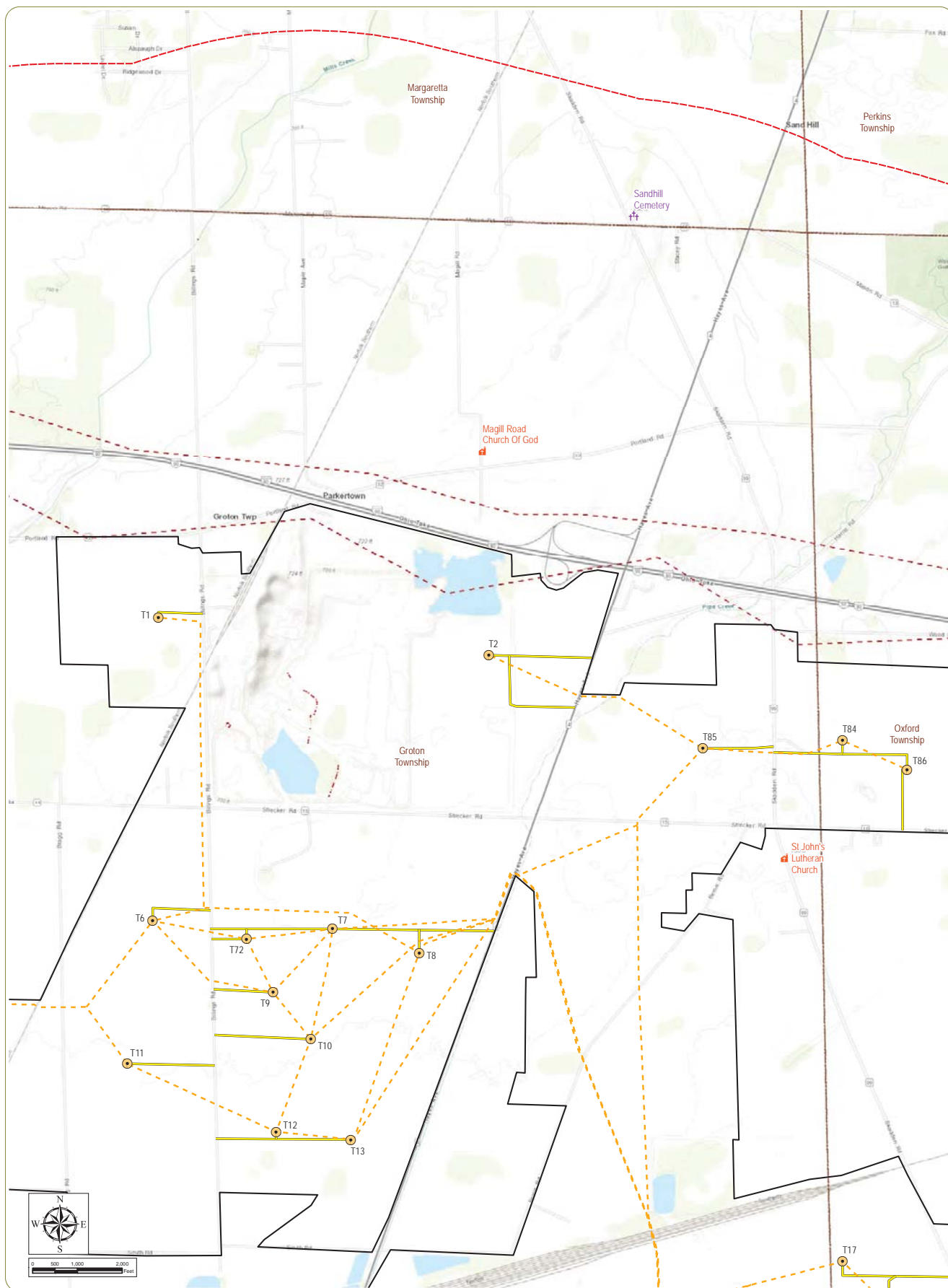
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- Wind Turbine
- ▲ Met Tower
- ⛔ Cemetery
- 🏛️ Government Office
- 🕌 Place of Worship
- Access Road
- Collection Line
- Existing Transmission Line
- Pipeline
- ▭ Project Boundary
- ▭ 2 Mile Study Area
- ▭ City/Village Boundary
- ▭ Township Boundary
- ▭ County Boundary



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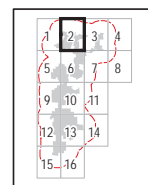
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

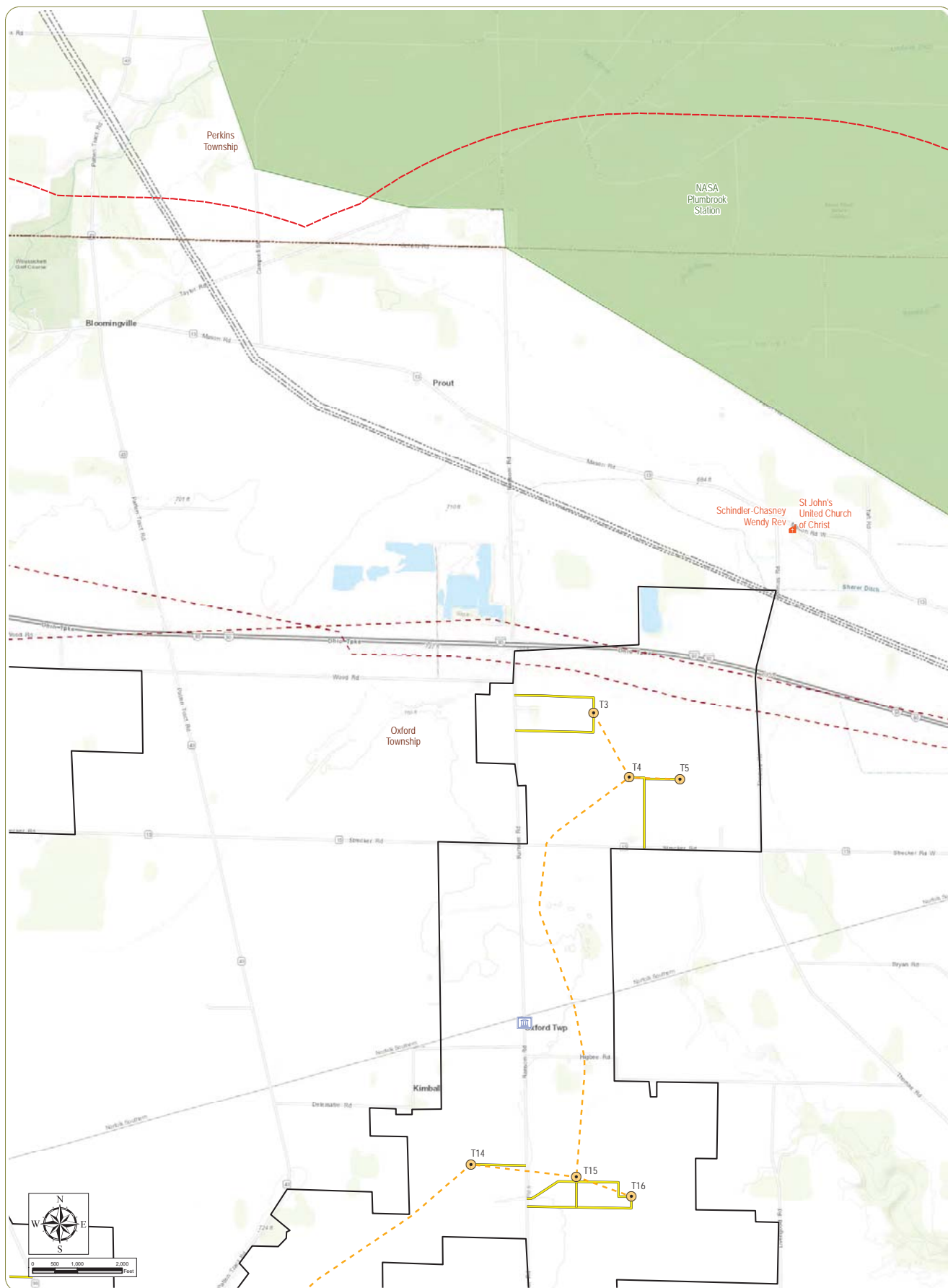
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- Wind Turbine
- ✚ Cemetery
- ⛔ Place of Worship
- Access Road
- - - Collection Line
- - - Pipeline
- ▭ Project Boundary
- ▭ 2 Mile Study Area
- ▭ Township Boundary
- ▭ County Boundary



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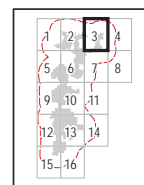
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

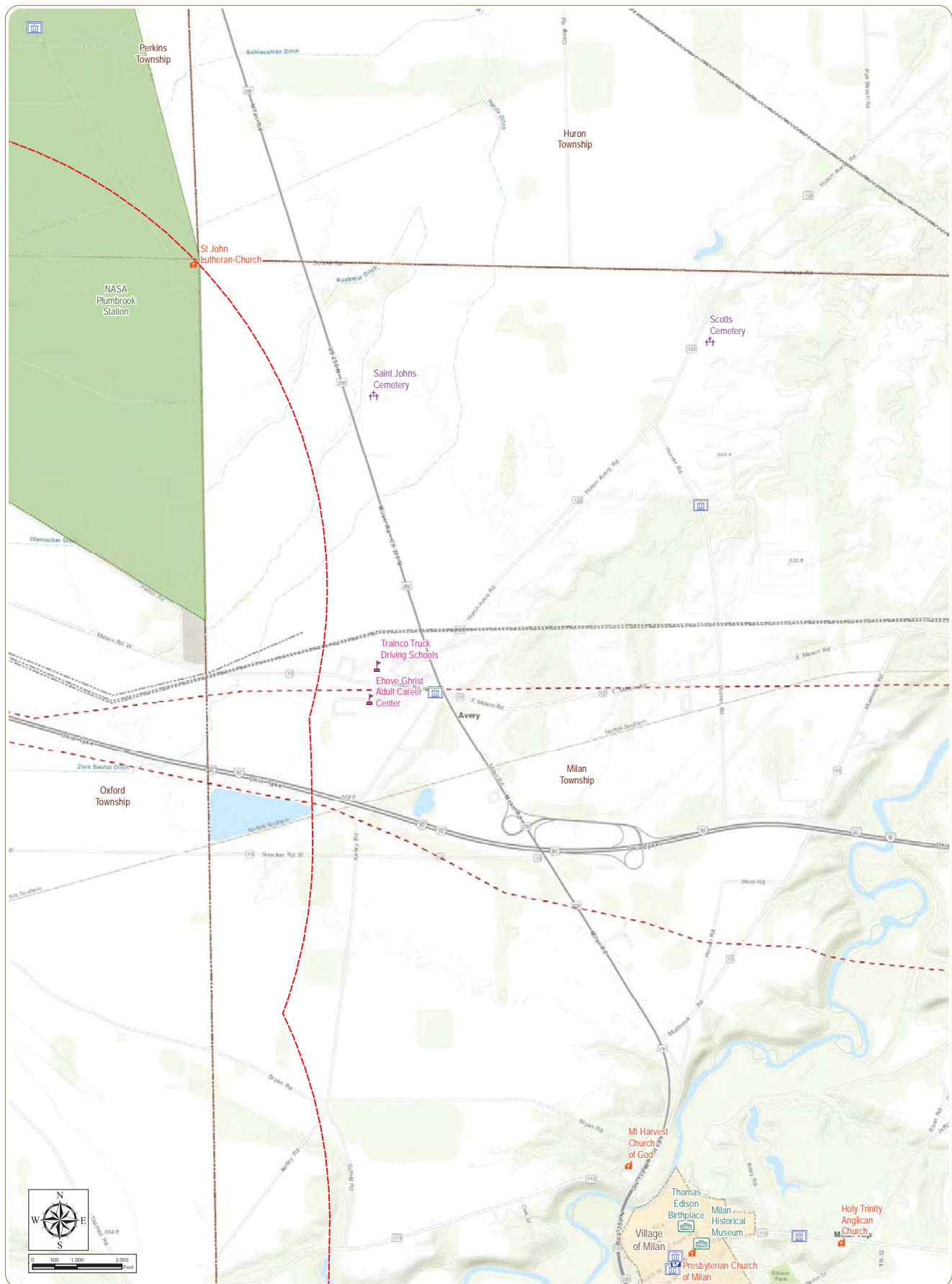
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- Wind Turbine
- Government Office
- Place of Worship
- Access Road
- Collection Line
- Existing Transmission Line
- Pipeline
- Non-ODNR Conservation Land
- Project Boundary
- 2 Mile Study Area
- Township Boundary
- County Boundary



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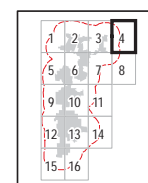
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

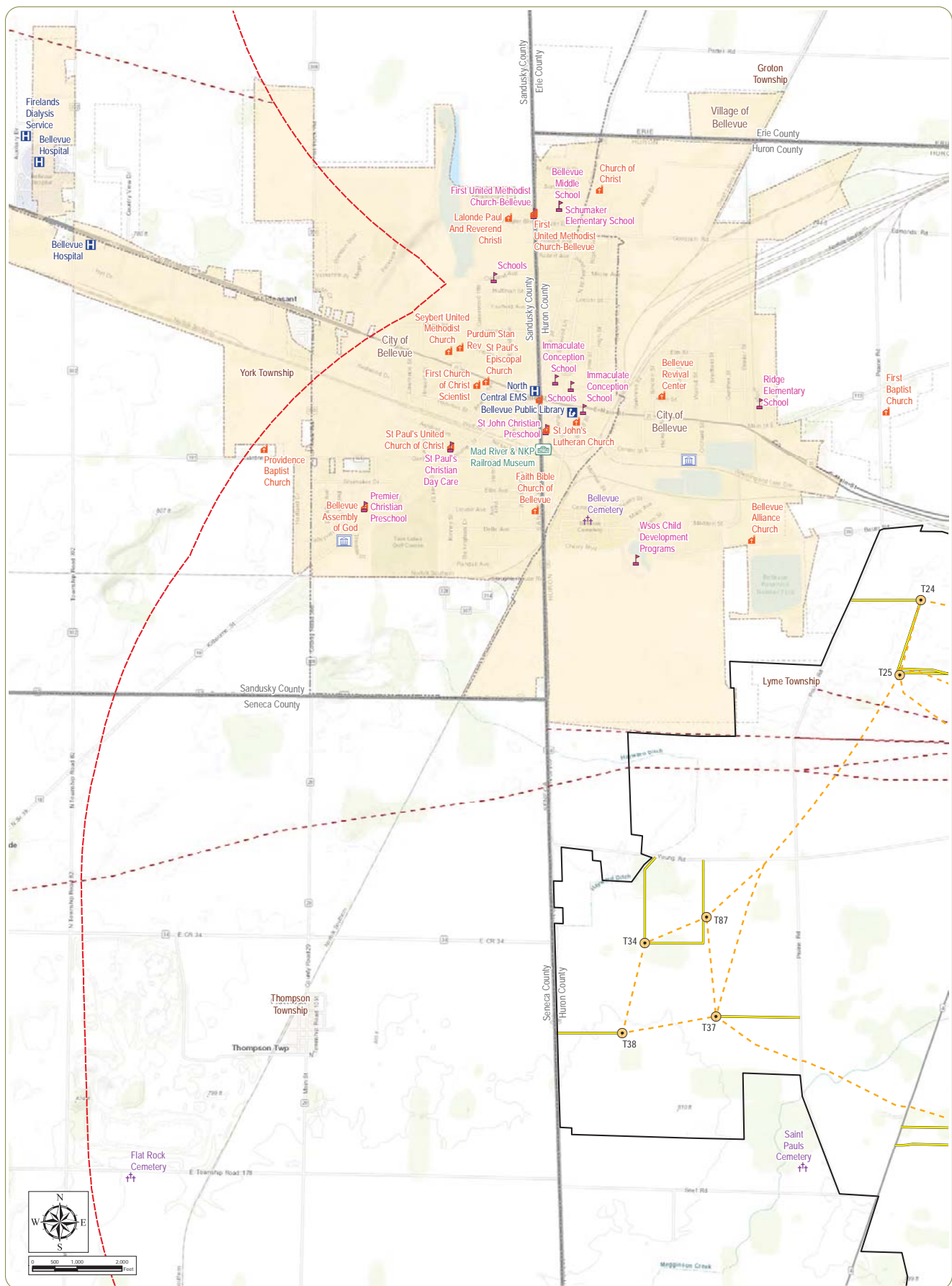
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- Cemetery
- Government Office
- Library
- Museum
- Place of Worship
- School
- Collection Line
- Existing Transmission Line
- Pipeline
- Non-ODNR Conservation Land
- Project Boundary
- 2 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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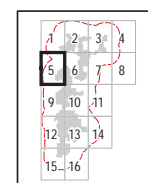
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

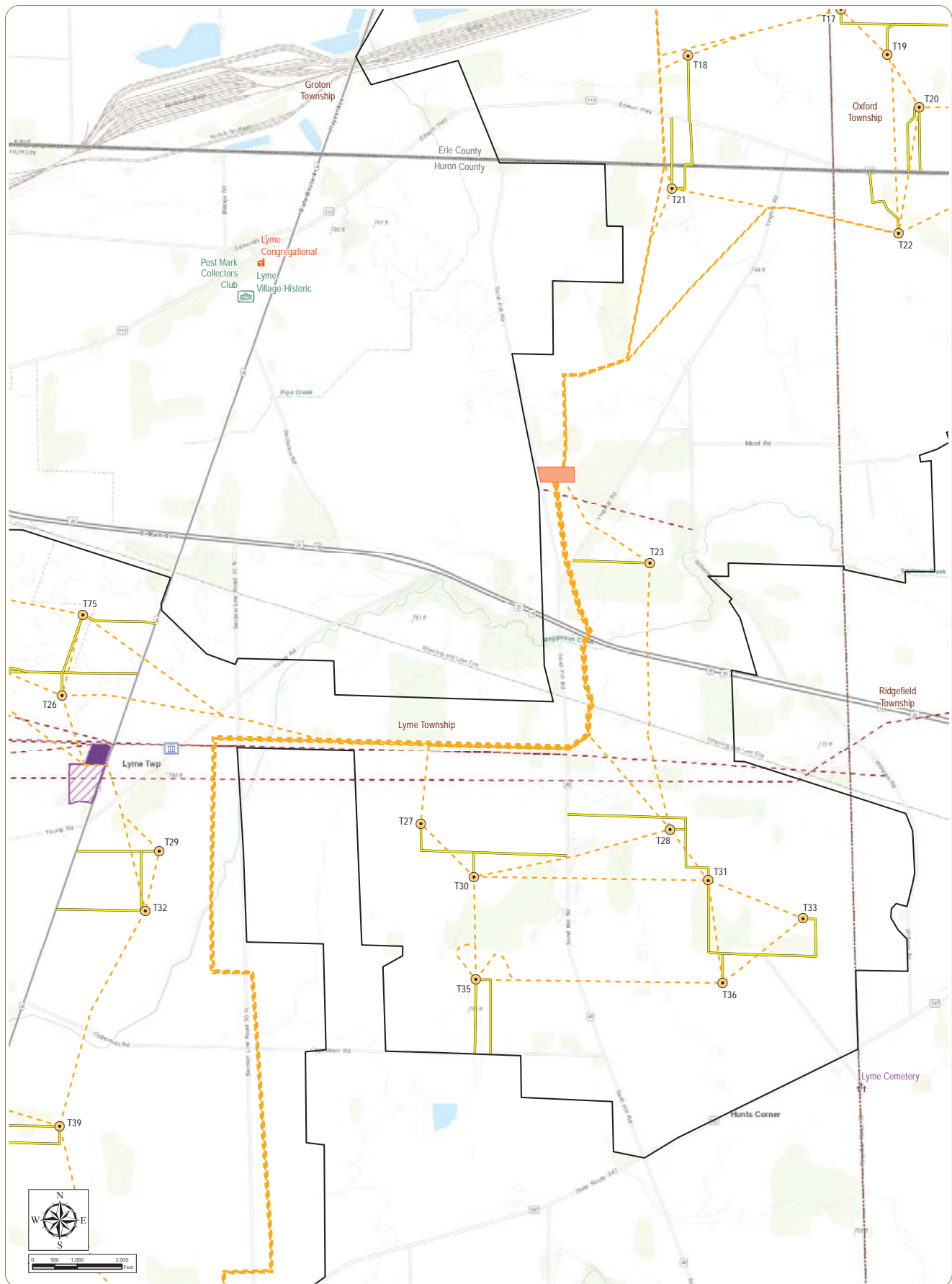
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- Wind Turbine
- Cemetery
- Government Office
- Hospital/Polyclinic
- Library
- Museum
- Place of Worship
- School
- Access Road
- Collection Line
- Existing Transmission Line
- Pipeline
- Project Boundary
- 2 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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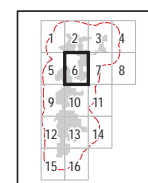
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

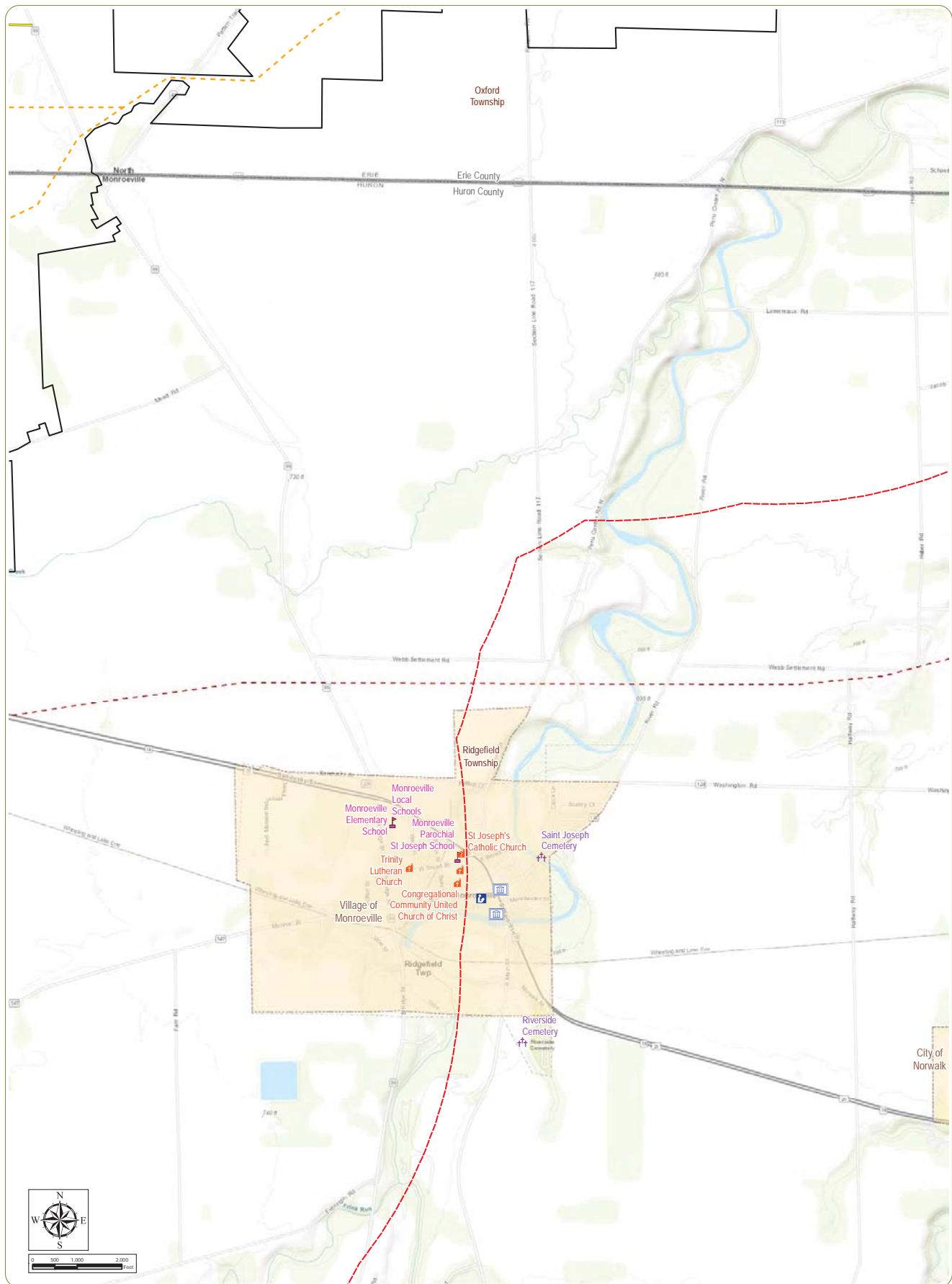
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- Wind Turbine
- Cemetery
- Government Office
- Museum
- Place of Worship
- Access Road
- Collection Line
- Pipeline
- Collection Substation
- Laydown Yard
- O&M Building
- Project Boundary
- 2 Mile Study Area
- Township Boundary
- County Boundary



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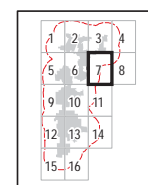
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

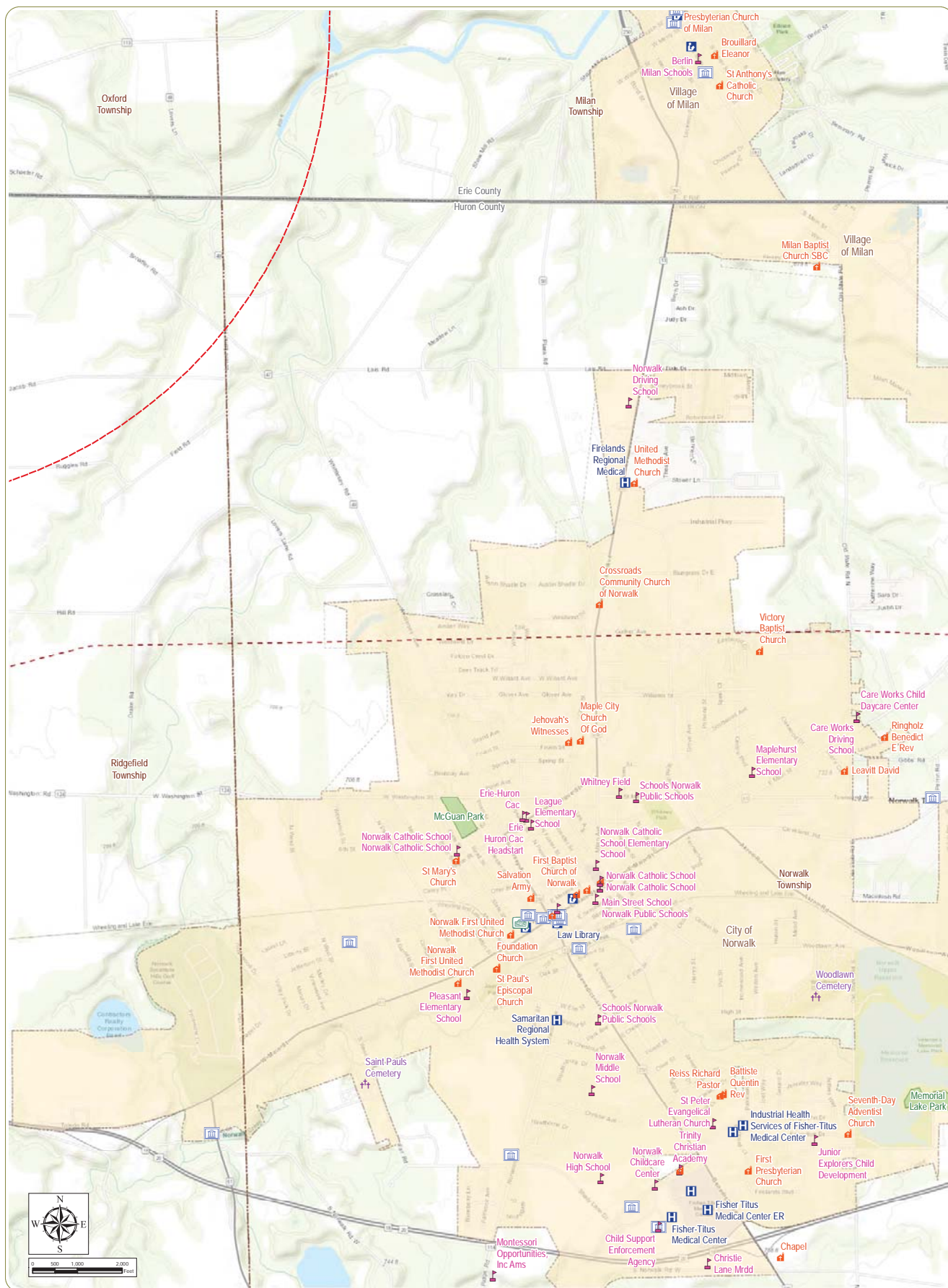
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- Cemetery
- Government Office
- Library
- Place of Worship
- School
- Access Road
- Collection Line
- Pipeline
- Project Boundary
- 2 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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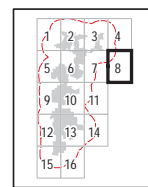
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

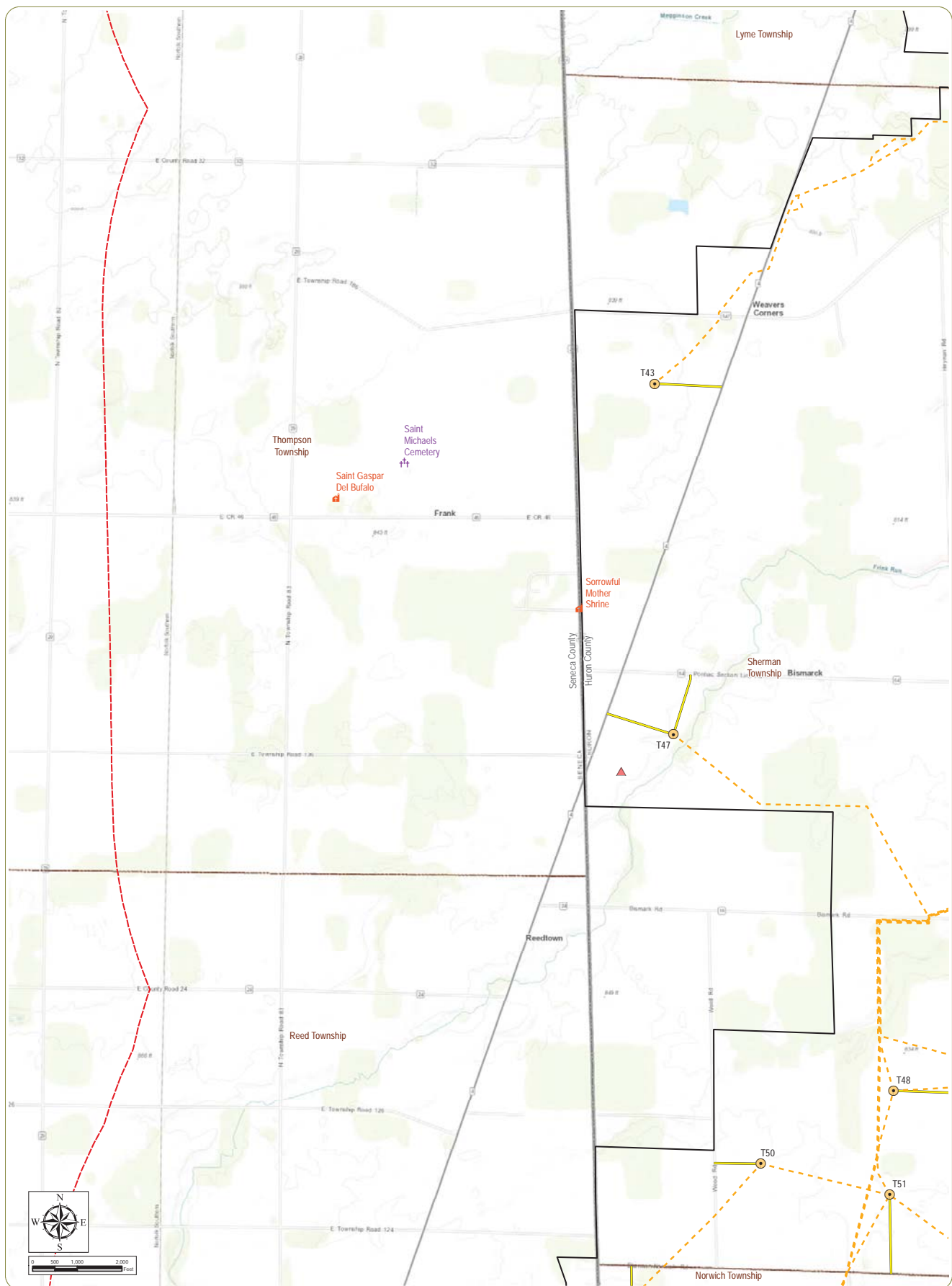
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- Cemetery
- Government Office
- Hospital/Polyclinic
- Library
- Museum
- Place of Worship
- School
- Collection Line
- Pipeline
- Park
- Project Boundary
- 2 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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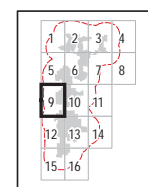
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

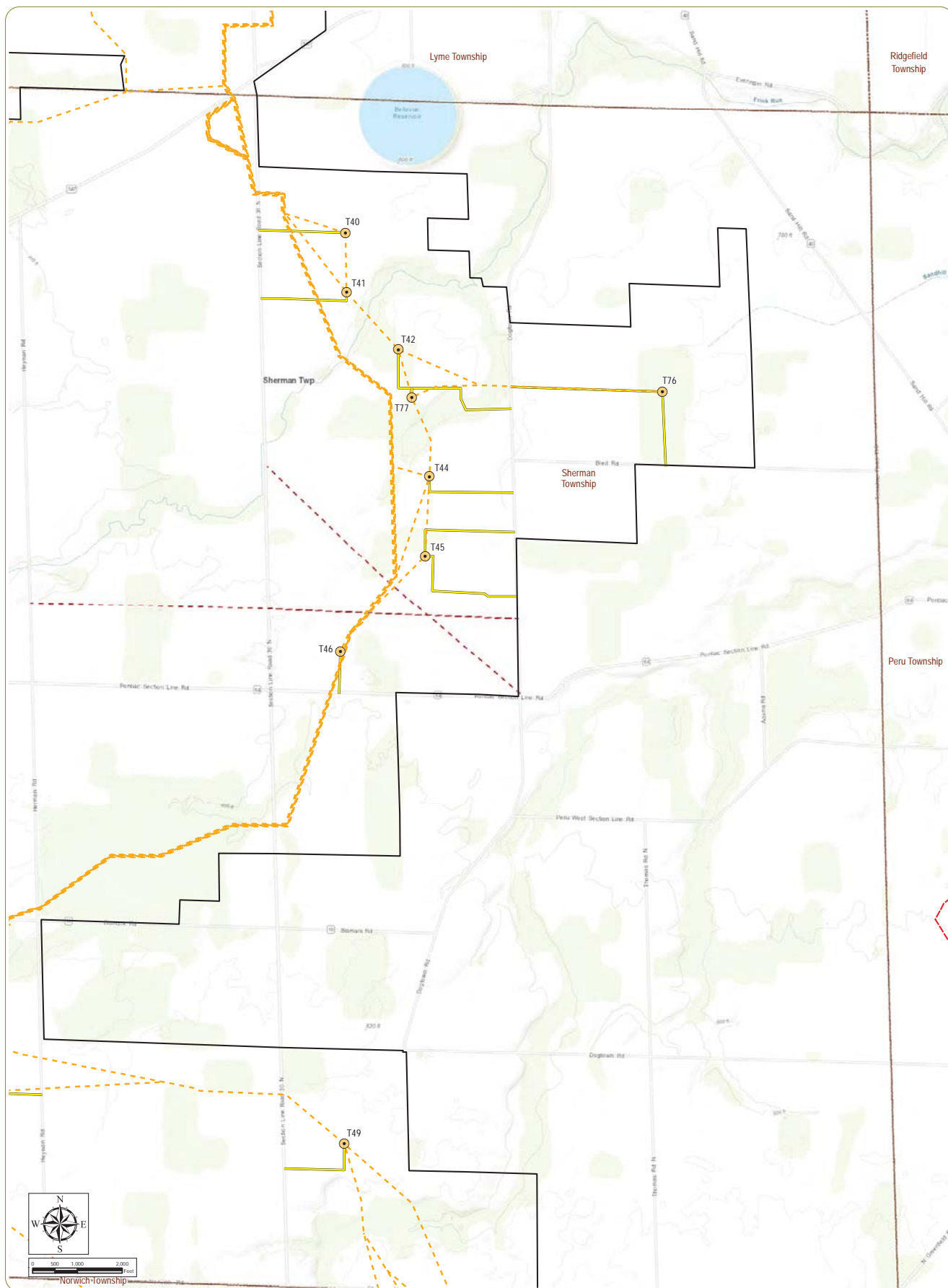
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- Wind Turbine
- ▲ Met Tower
- ✙ Cemetery
- ⛪ Place of Worship
- Access Road
- - - Collection Line
- ▭ Project Boundary
- - - 2 Mile Study Area
- - - Township Boundary
- ▭ County Boundary



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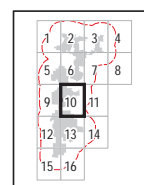
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

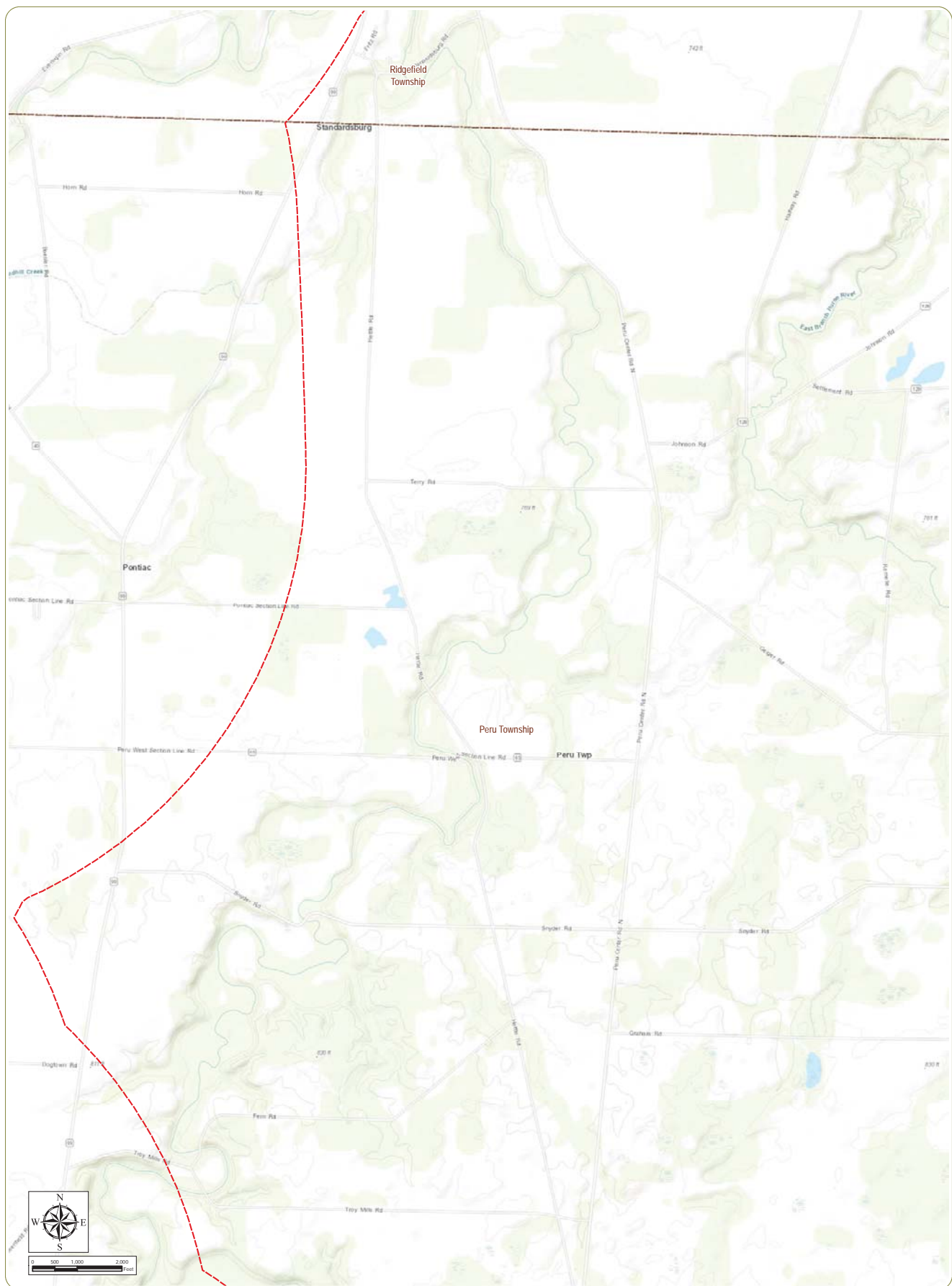
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- Wind Turbine
- - - Collection Line
- Access Road
- - - Pipeline
- Project Boundary
- 2 Mile Study Area
- Township Boundary
- County Boundary



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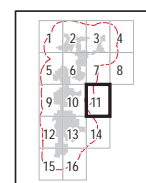
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

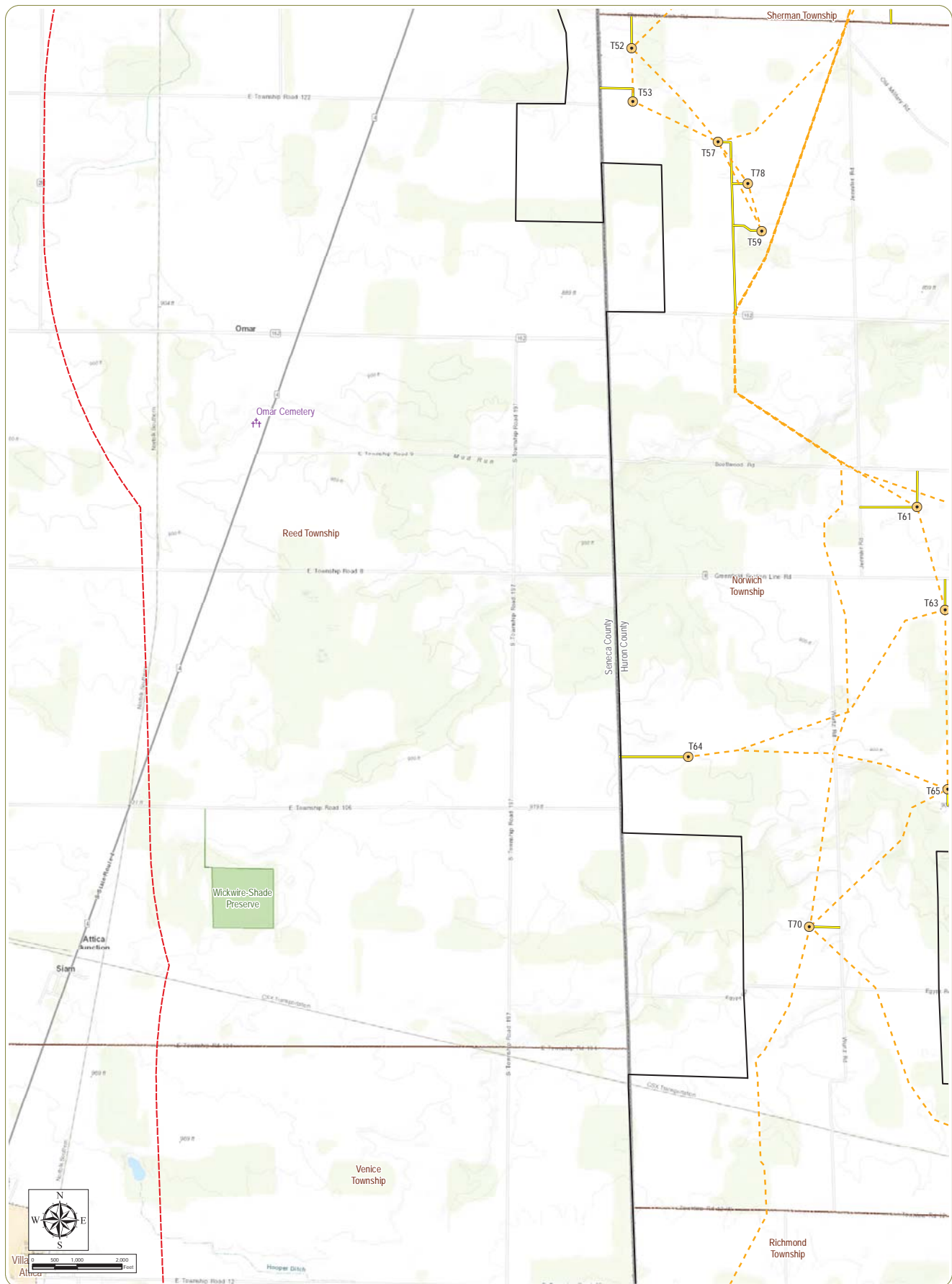
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- Collection Line
- Project Boundary
- 2 Mile Study Area
- Township Boundary
- County Boundary



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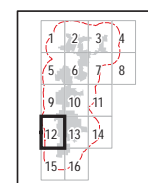
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

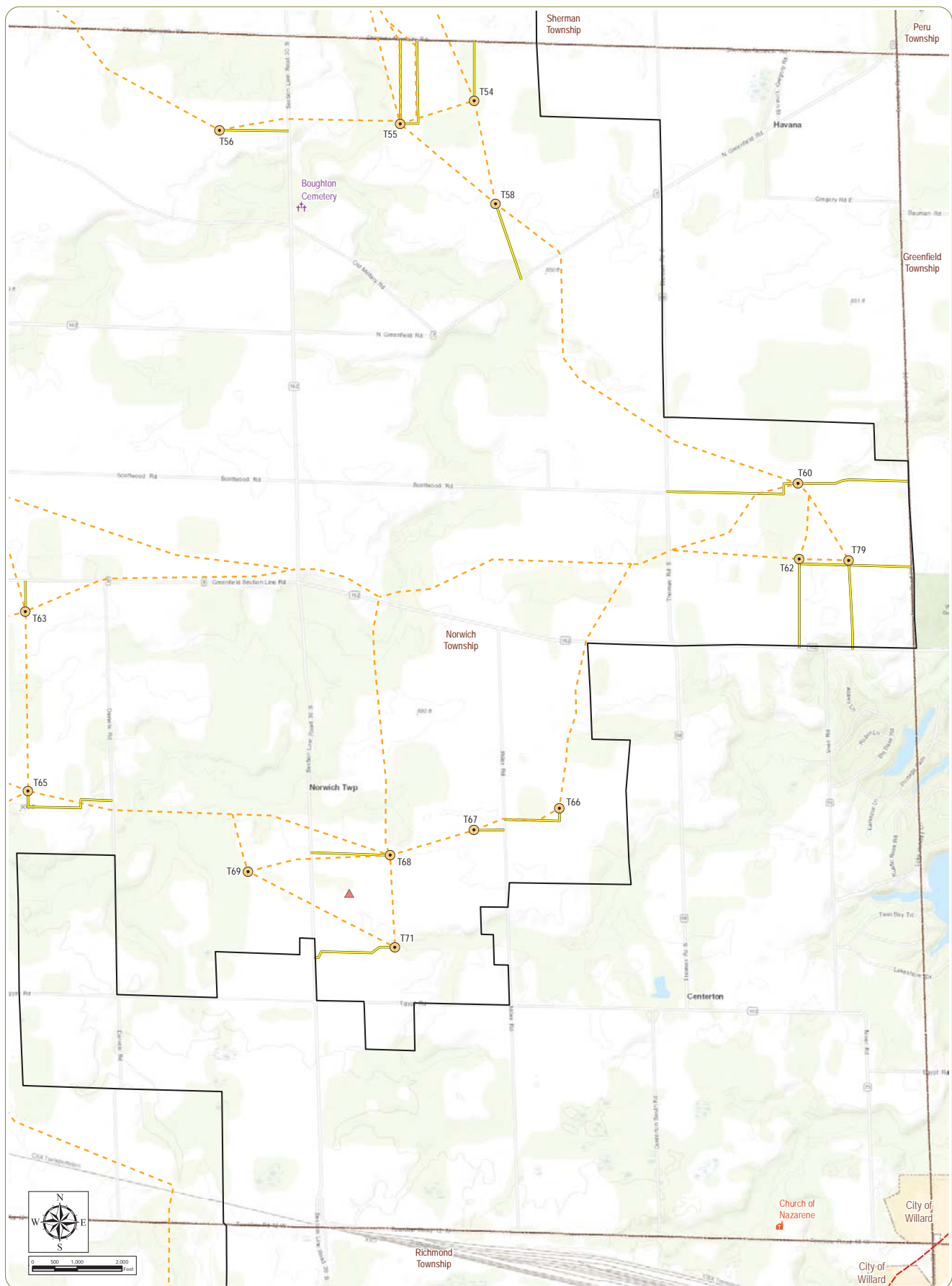
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- Wind Turbine
- Collection Line
- ⛶ Cemetery
- Non-ODNR Conservation Land
- Access Road
- ▭ Project Boundary
- ▭ 2 Mile Study Area
- ▭ City/Village Boundary
- ▭ Township Boundary
- ▭ County Boundary



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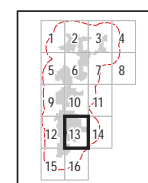
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

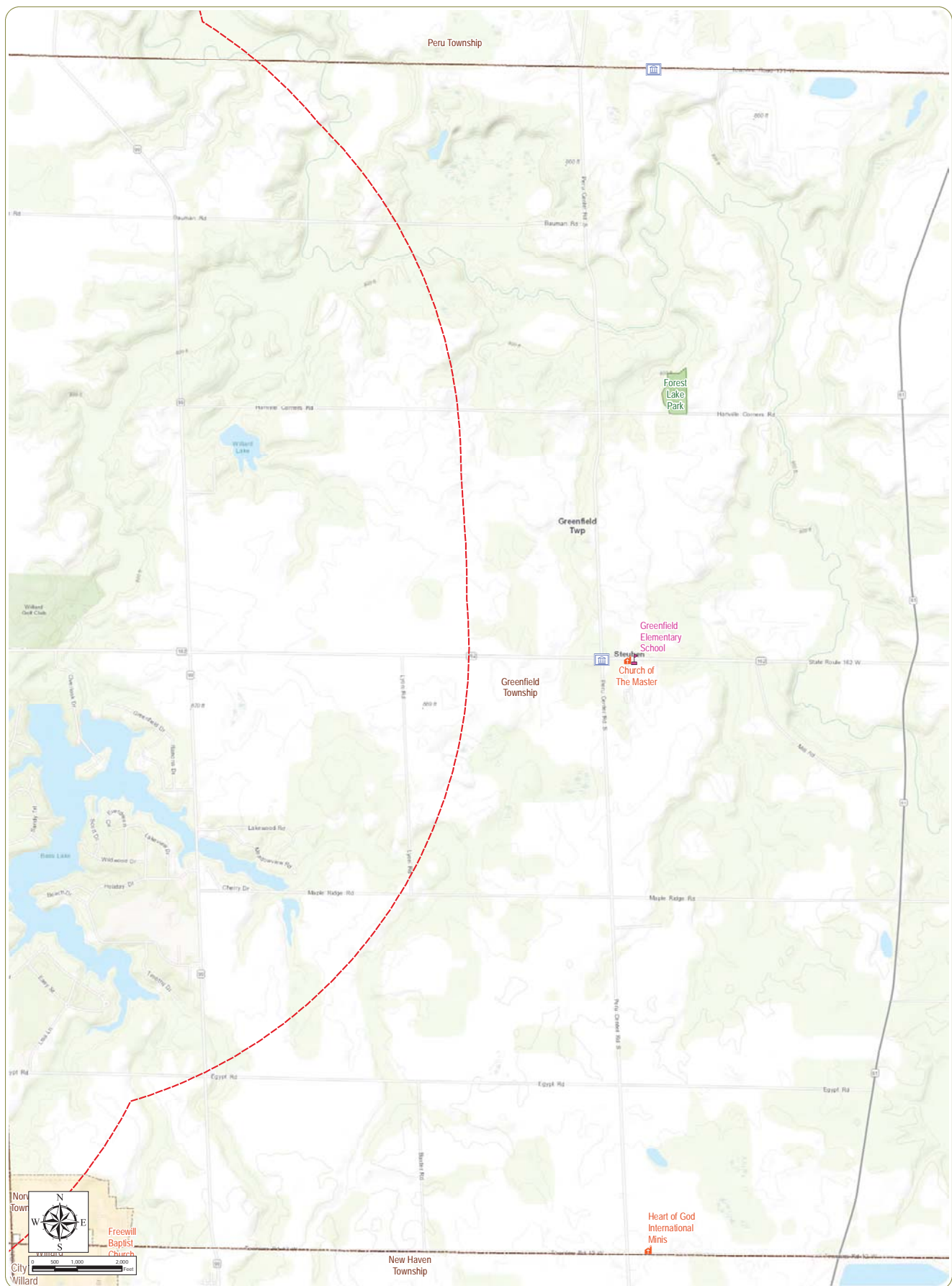
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- Wind Turbine
- ▲ Met Tower
- ✠ Cemetery
- ⛐ Place of Worship
- Access Road
- Collection Line
- Project Boundary
- 2 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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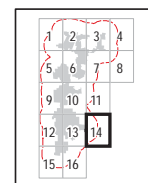
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

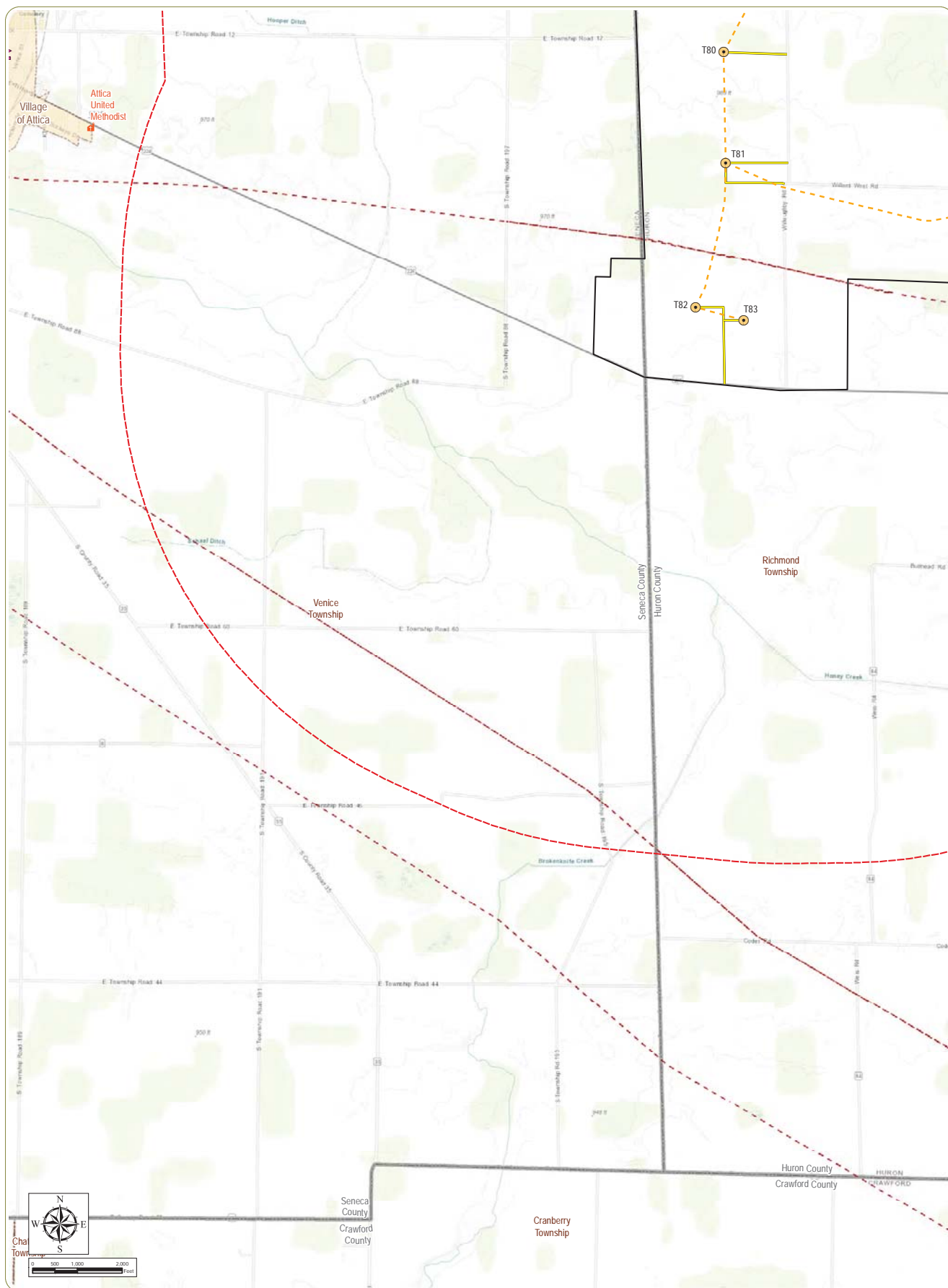
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- Government Office
- Place of Worship
- School
- Collection Line
- Park
- Project Boundary
- 2 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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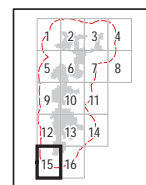
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

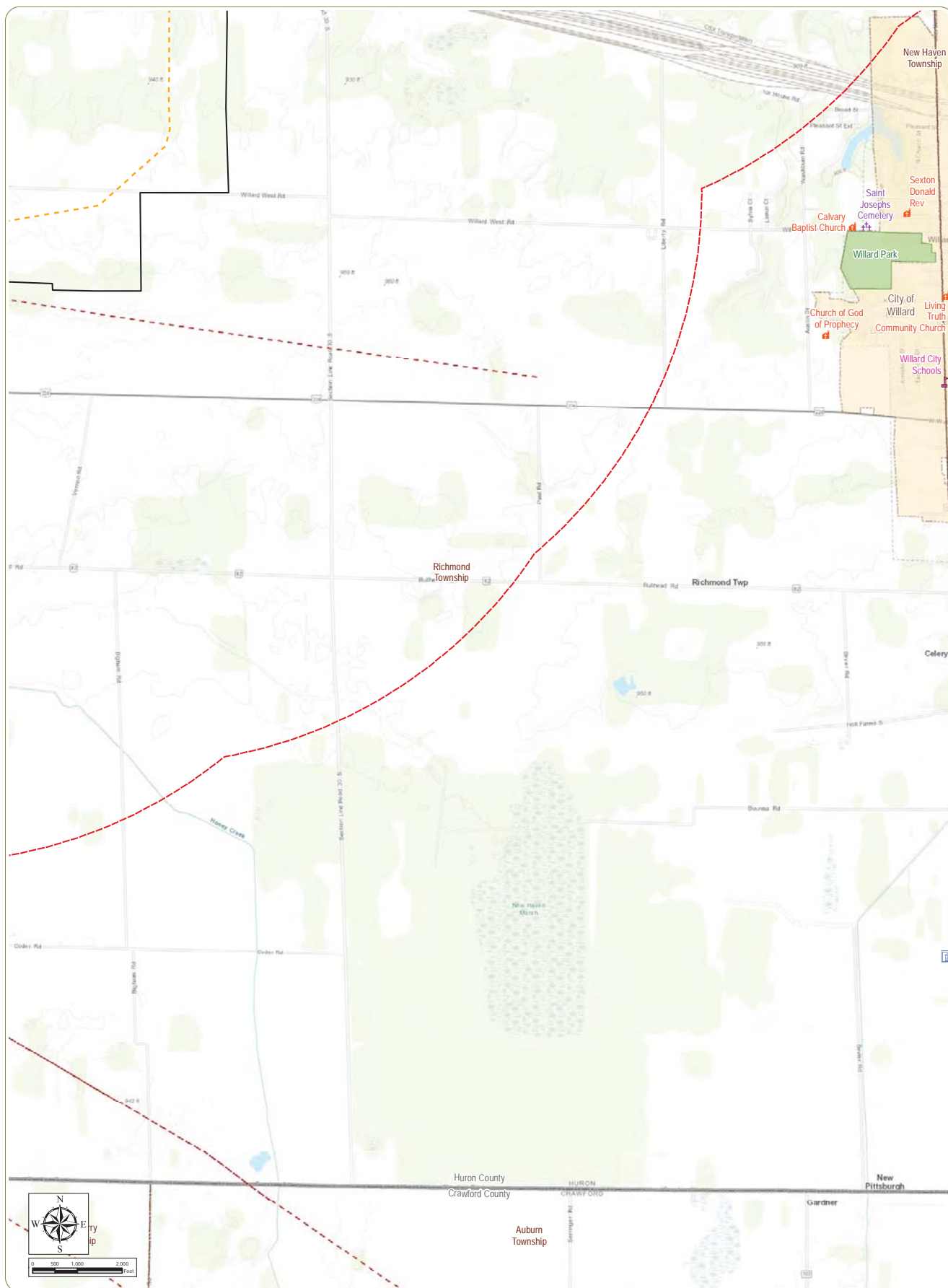
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- Wind Turbine
- Collection Line
- Pipeline
- Access Road
- Project Boundary
- 2 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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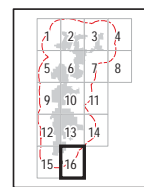
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-1: Geography and Topography

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- Cemetery
- Government Office
- Place of Worship
- School
- Collection Line
- Pipeline
- Park
- City/Village Boundary
- Township Boundary
- County Boundary
- Project Boundary
- 2 Mile Study Area



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Figure 03-2

Aerial Photography

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vvorys@dickinsonwright.com

Attorneys for Firelands Wind, LLC



Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26		

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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25	26		

Sheet 3 of 26





Emerson Creek Wind Farm

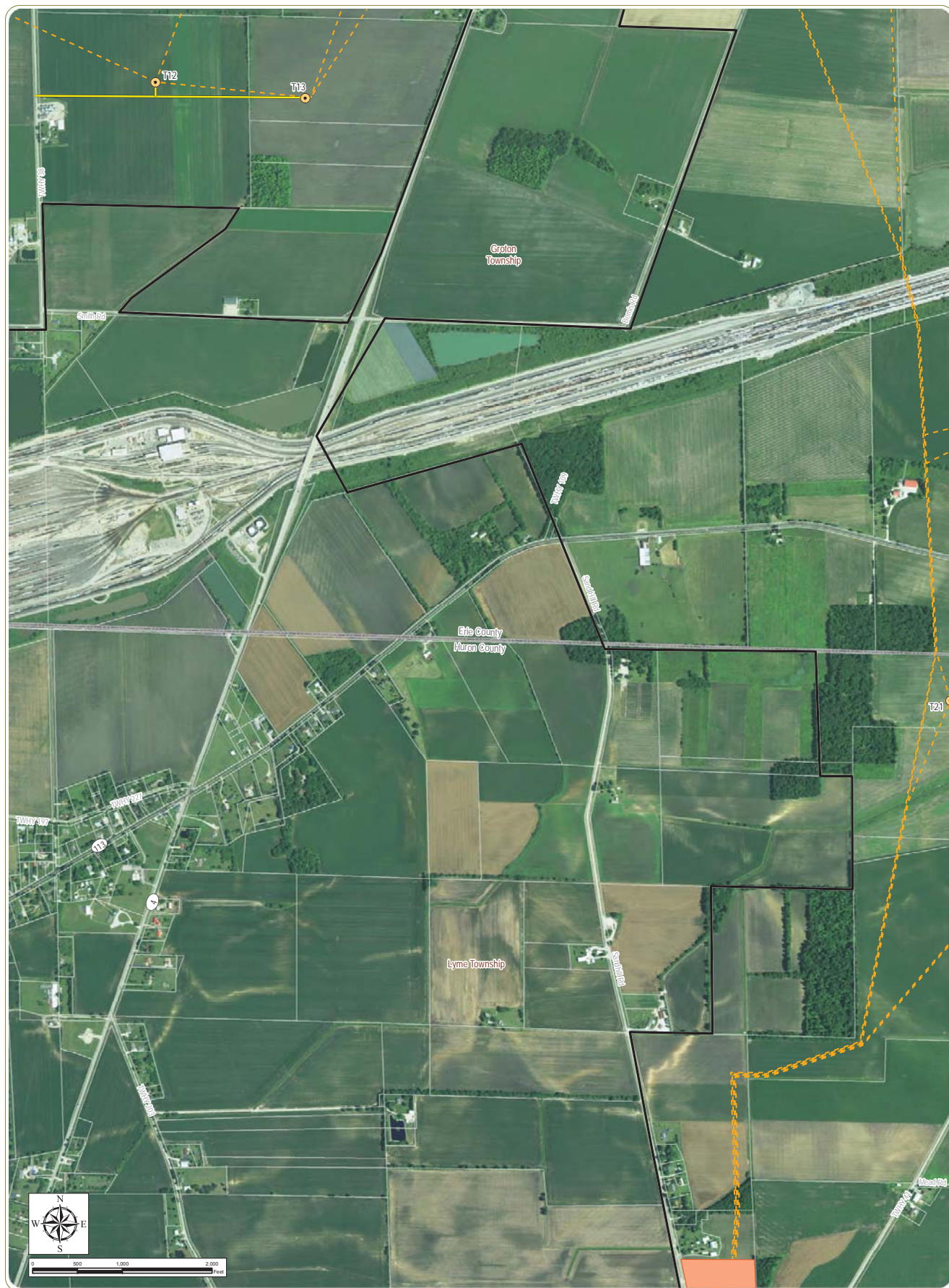
Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

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- Wind Turbine
- ▲ Met Tower
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- City/Village Boundary
- Township Boundary
- County Boundary

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	
16	17	18	
19	20	21	
22	23	24	
25	26		



Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

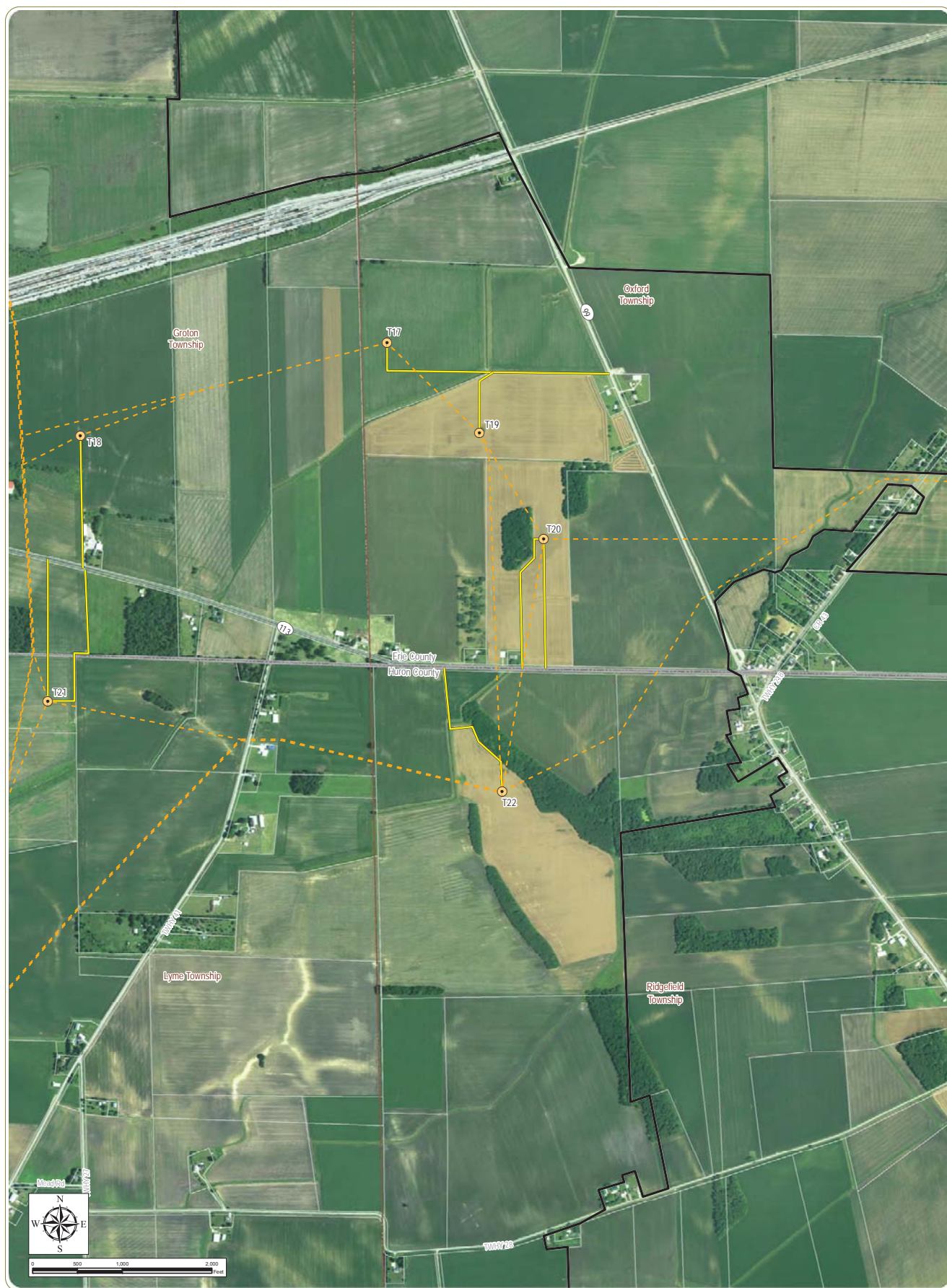
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- Wind Turbine
- Access Road
- Collection Line
- Collection Substation
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26		

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

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- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26		

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

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- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

1	2	3	4
5	6	7	8
9	10	11	12
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17	18	19	20
21	22	23	24
25	26	27	28

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

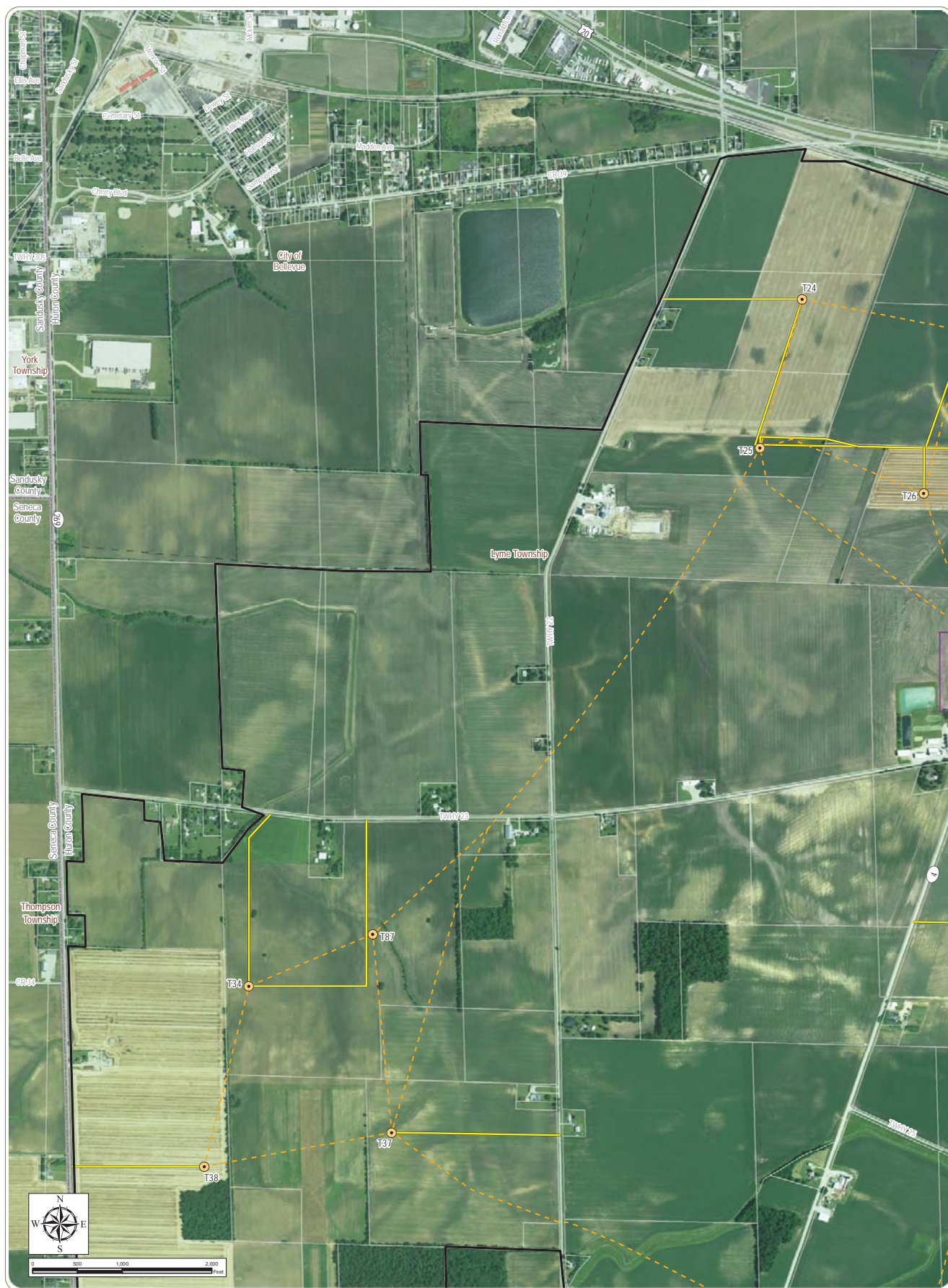
Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Sheet 9 of 26





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

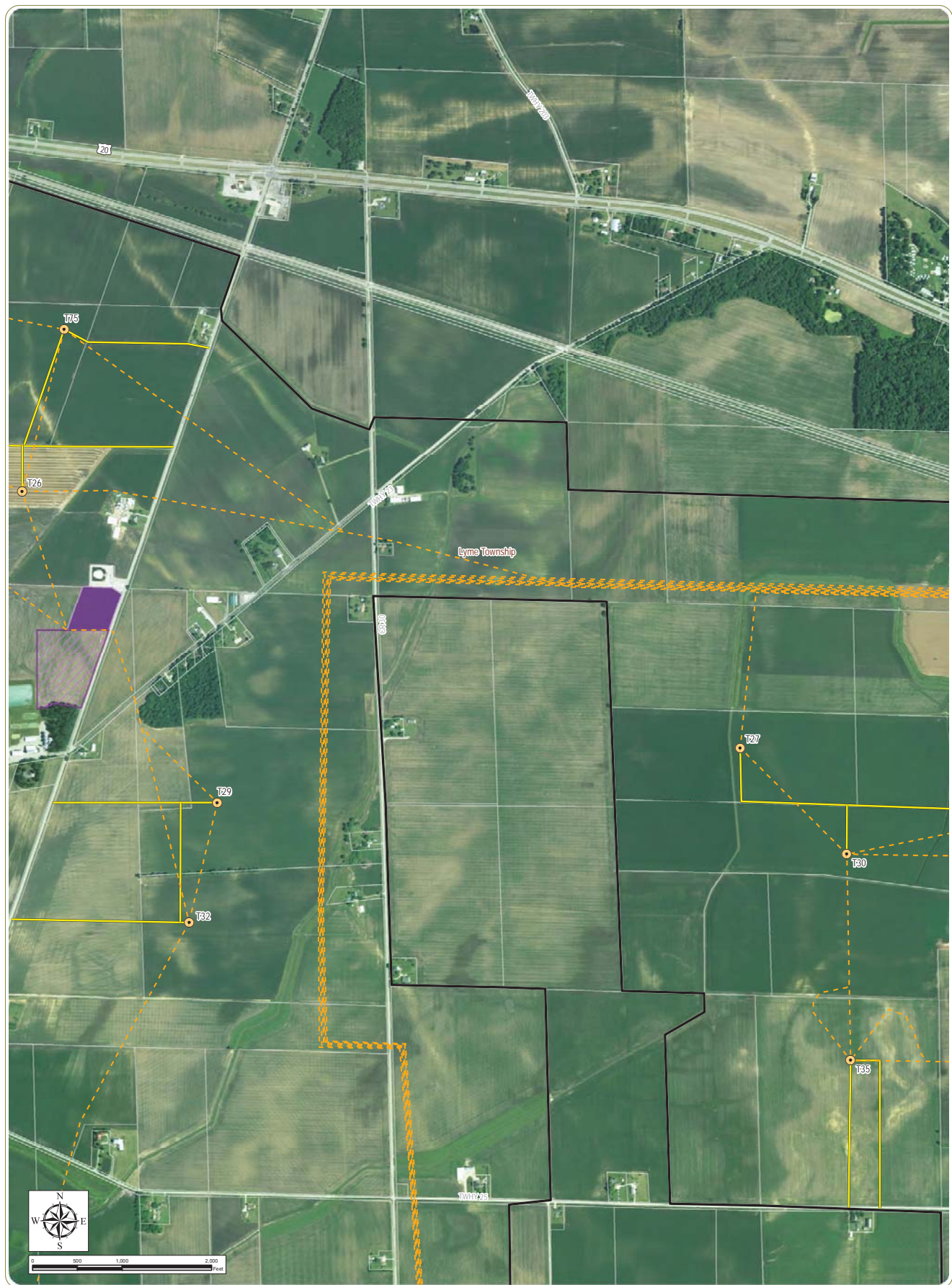
Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- - - Collection Line
- ▨ Laydown Yard
- Project Boundary
- Parcel Boundary
- City/Village Boundary
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- - - Collection Line
- Laydown Yard
- O&M Building
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Sheet 11 of 26





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

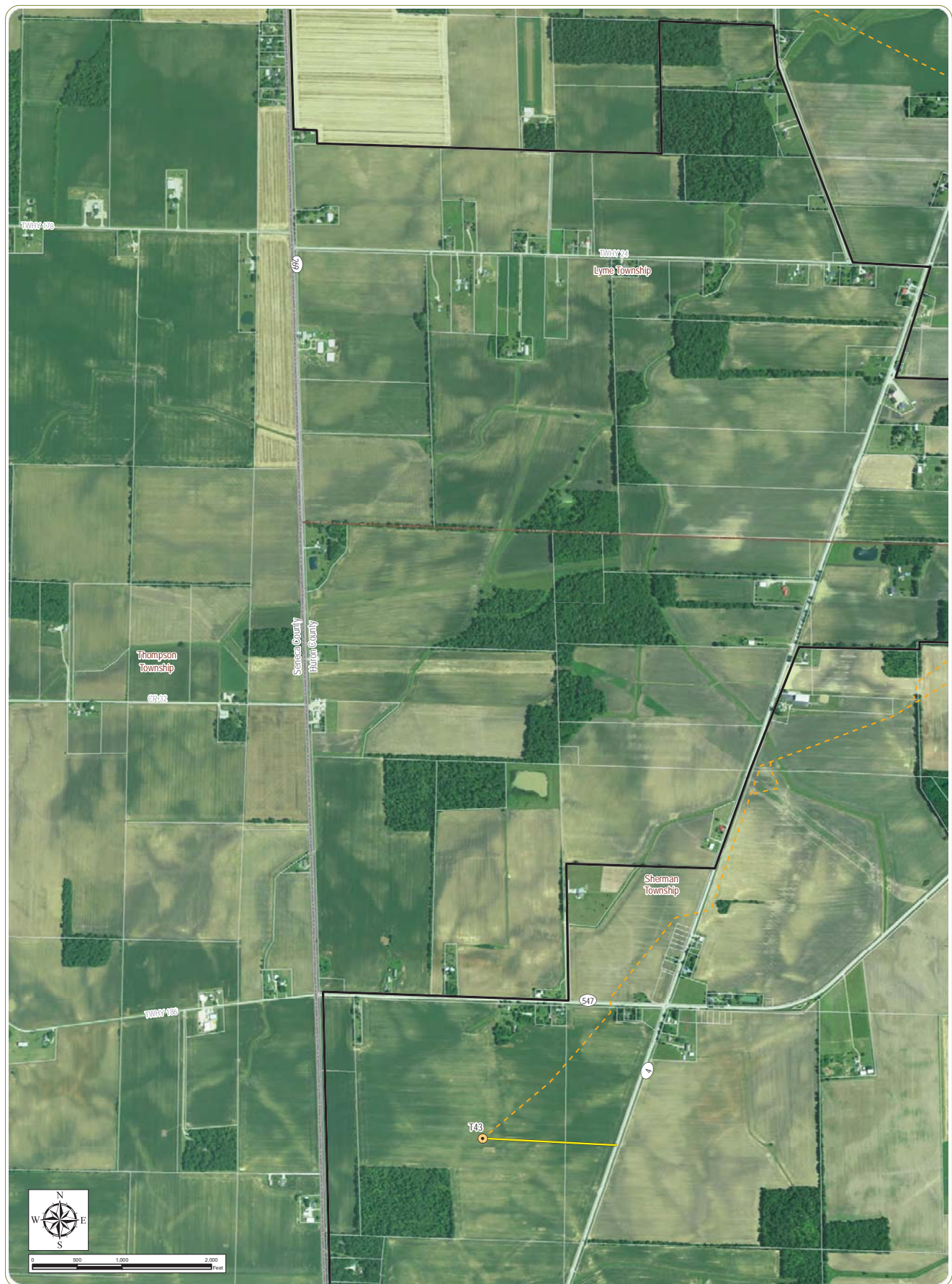
Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Collection Substation
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Sheet 12 of 26





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

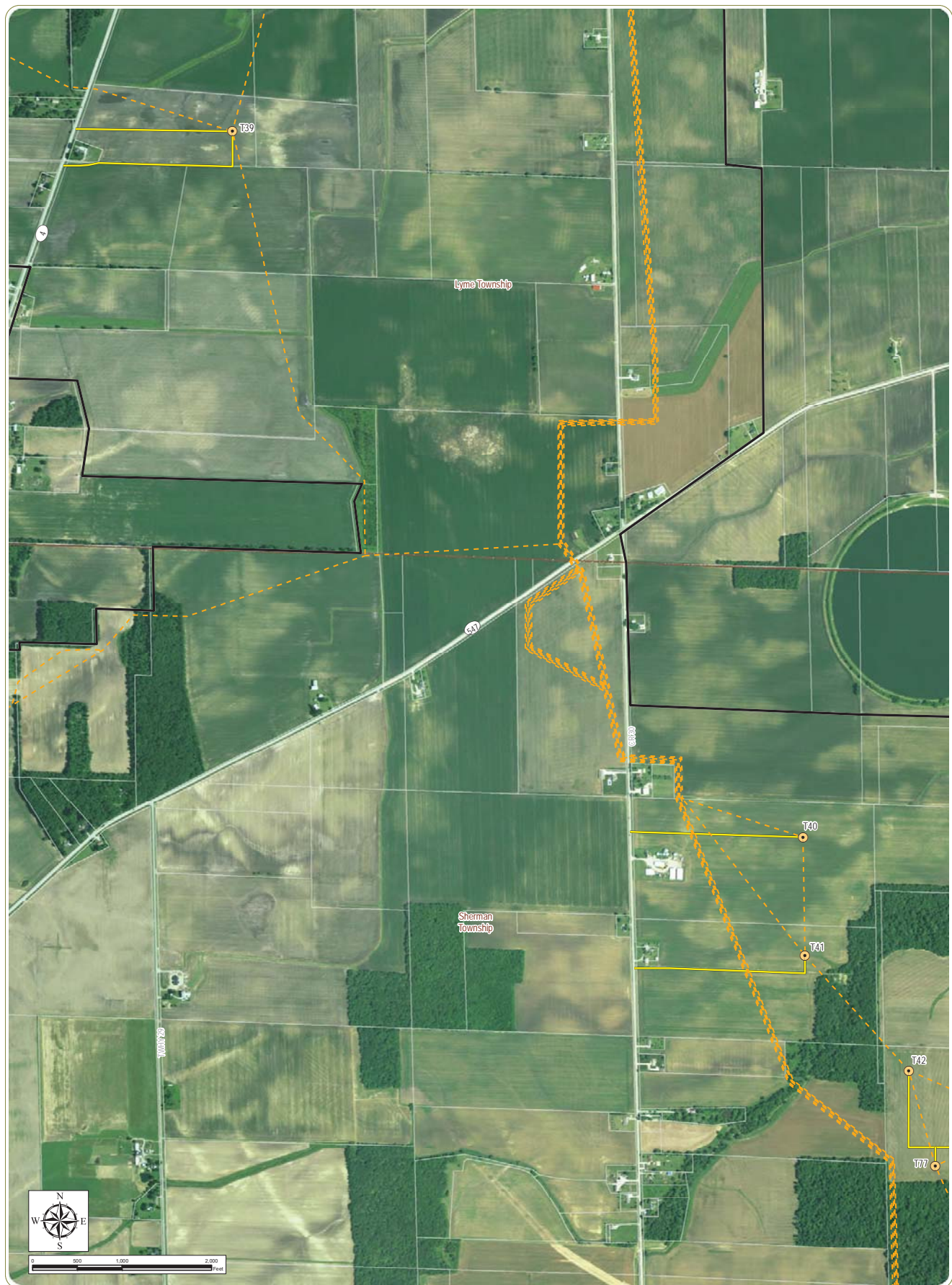
Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Sheet 13 of 26





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- - - Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Sheet 14 of 26





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

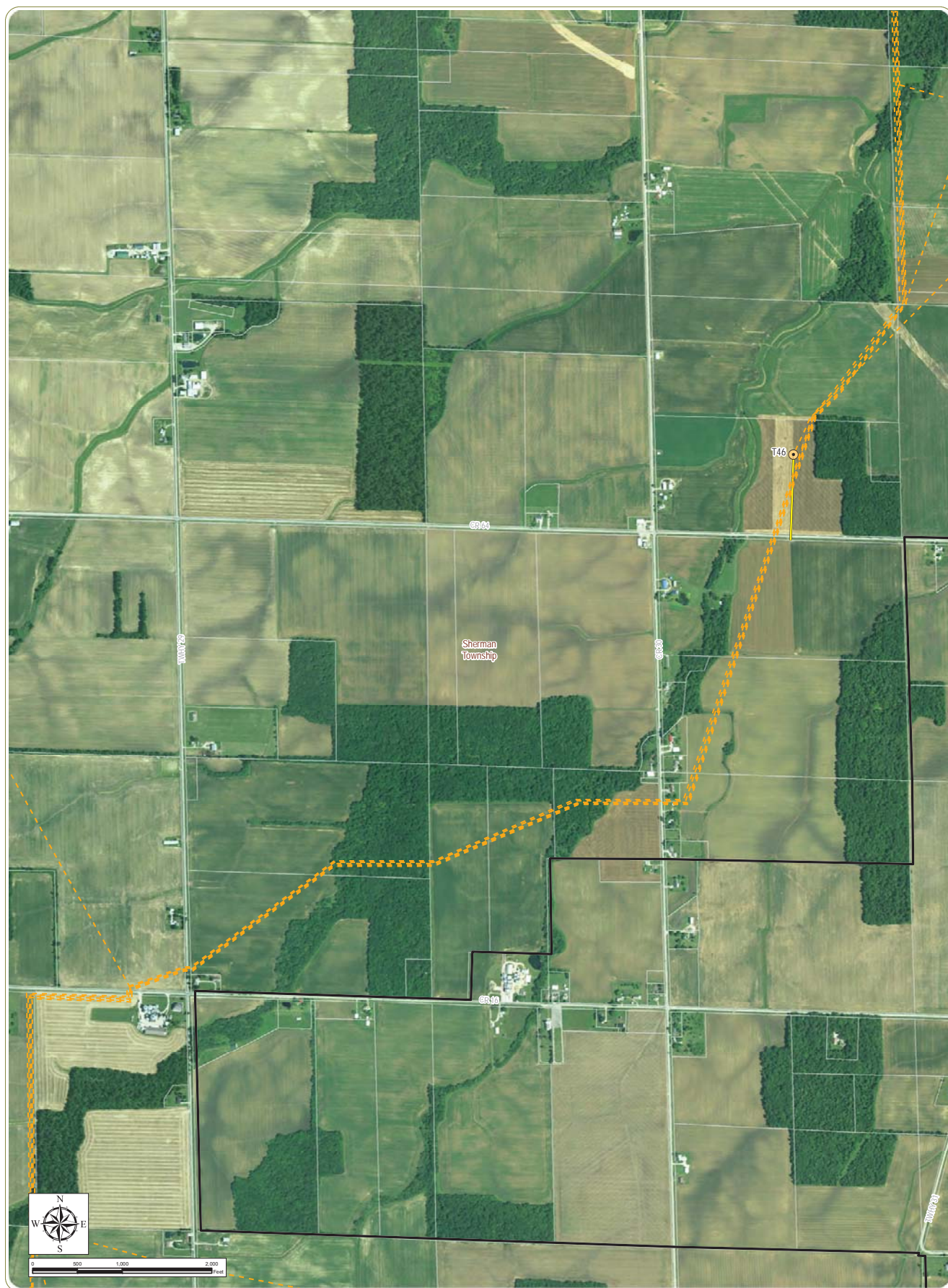
Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- ▲ Met Tower
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- - - Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

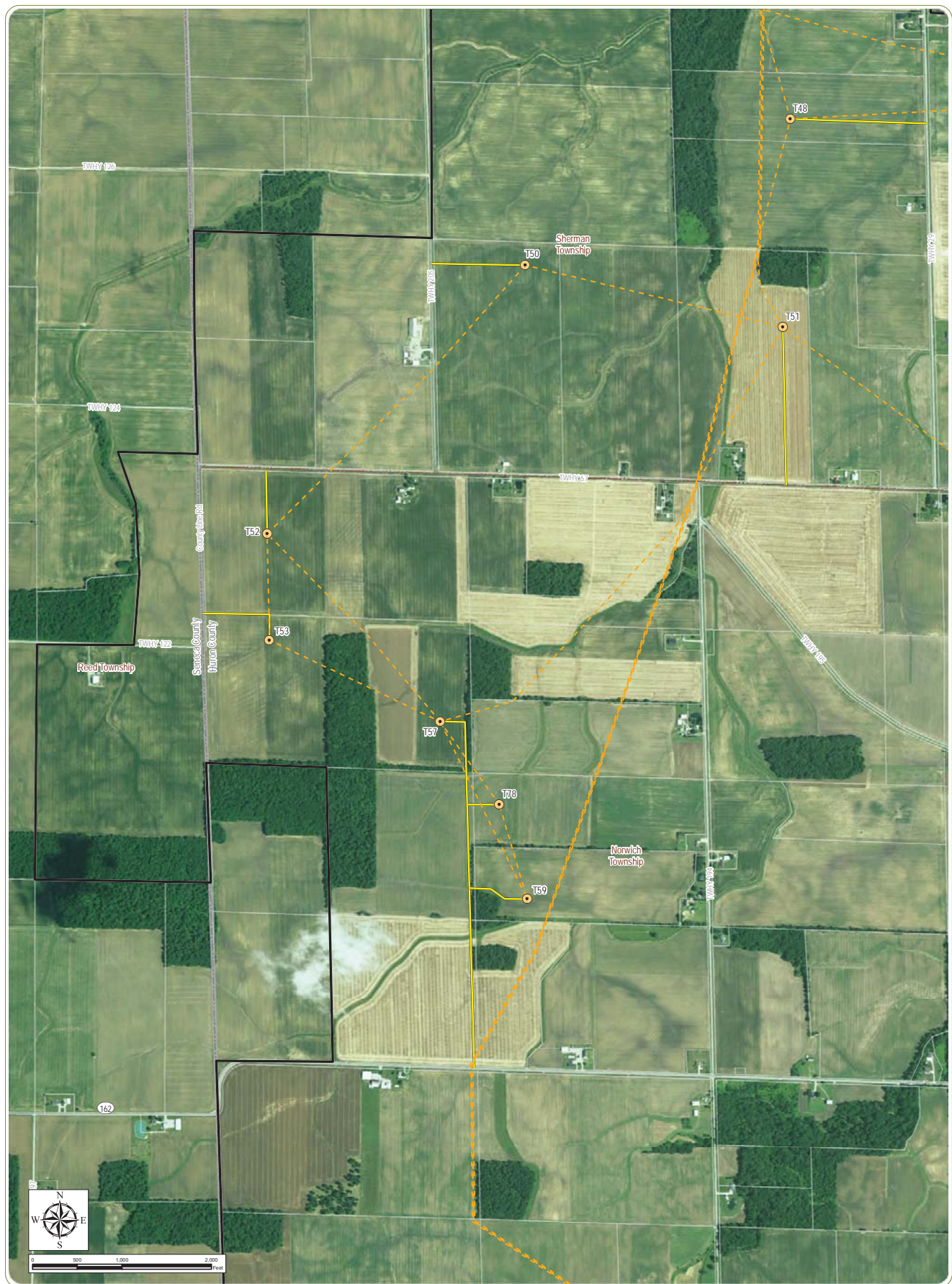
Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Project Boundary
- Access Road
- Parcel Boundary
- Collection Line
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

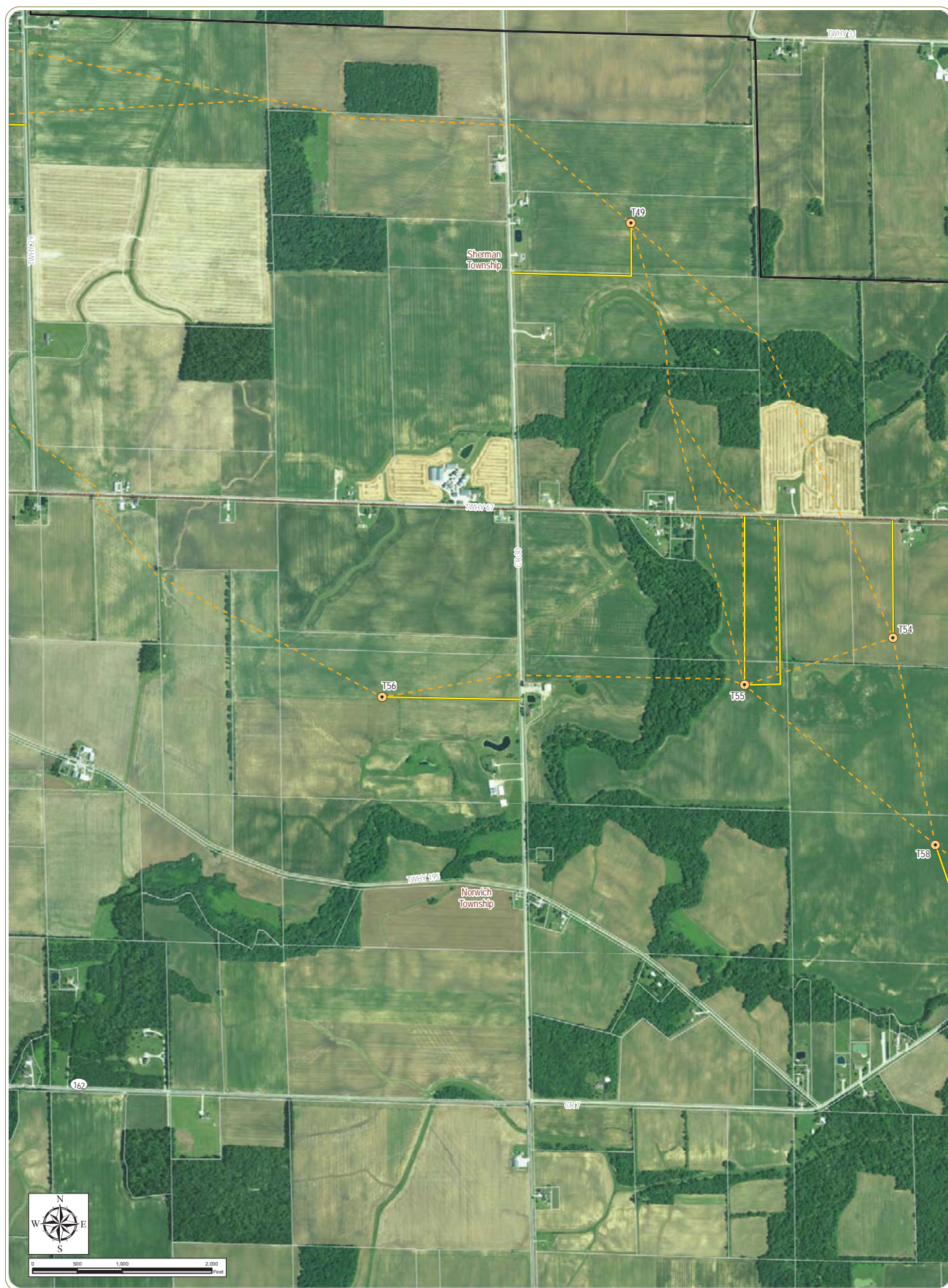
Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Sheet 20 of 26





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

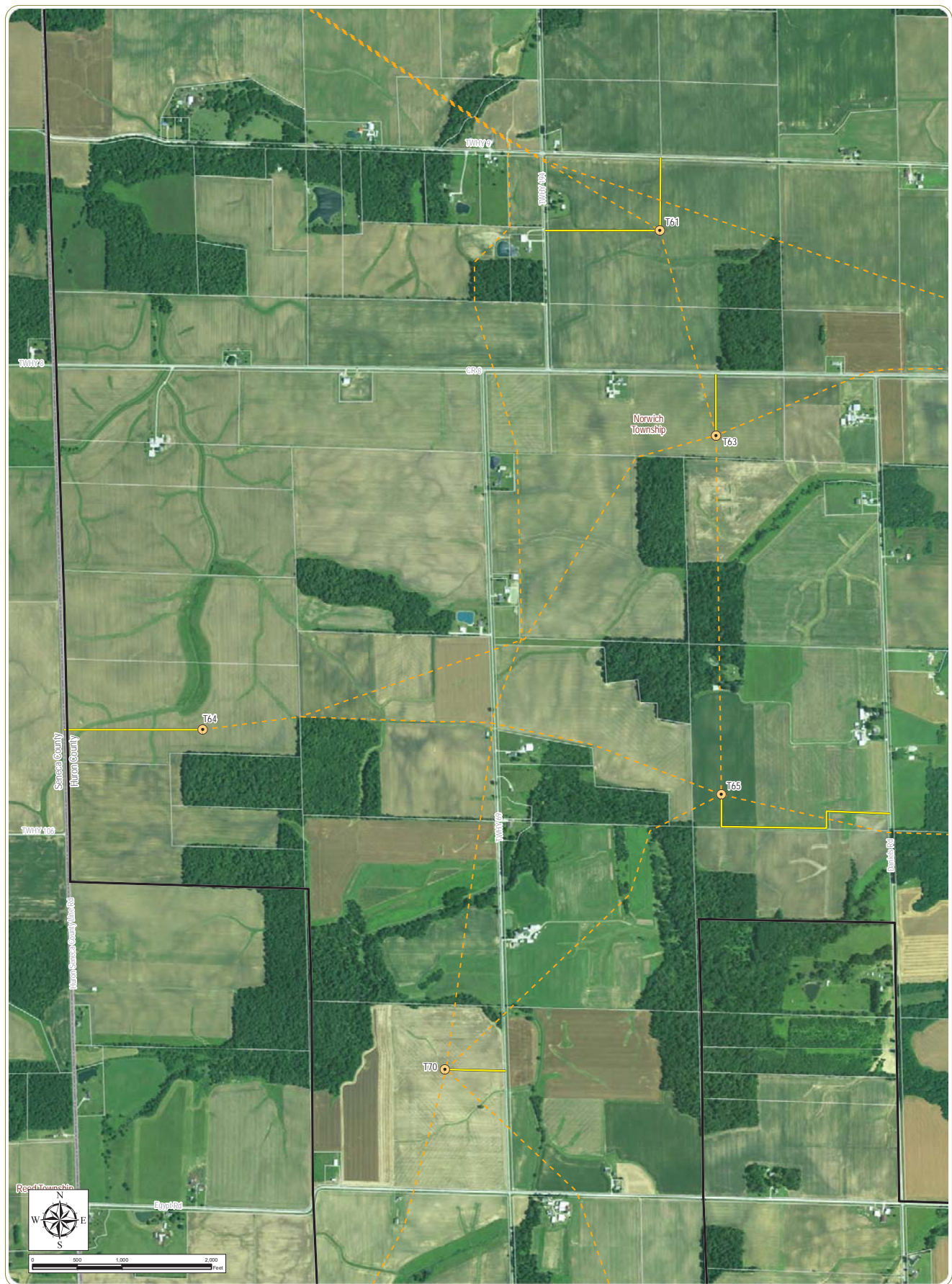
Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- - - Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

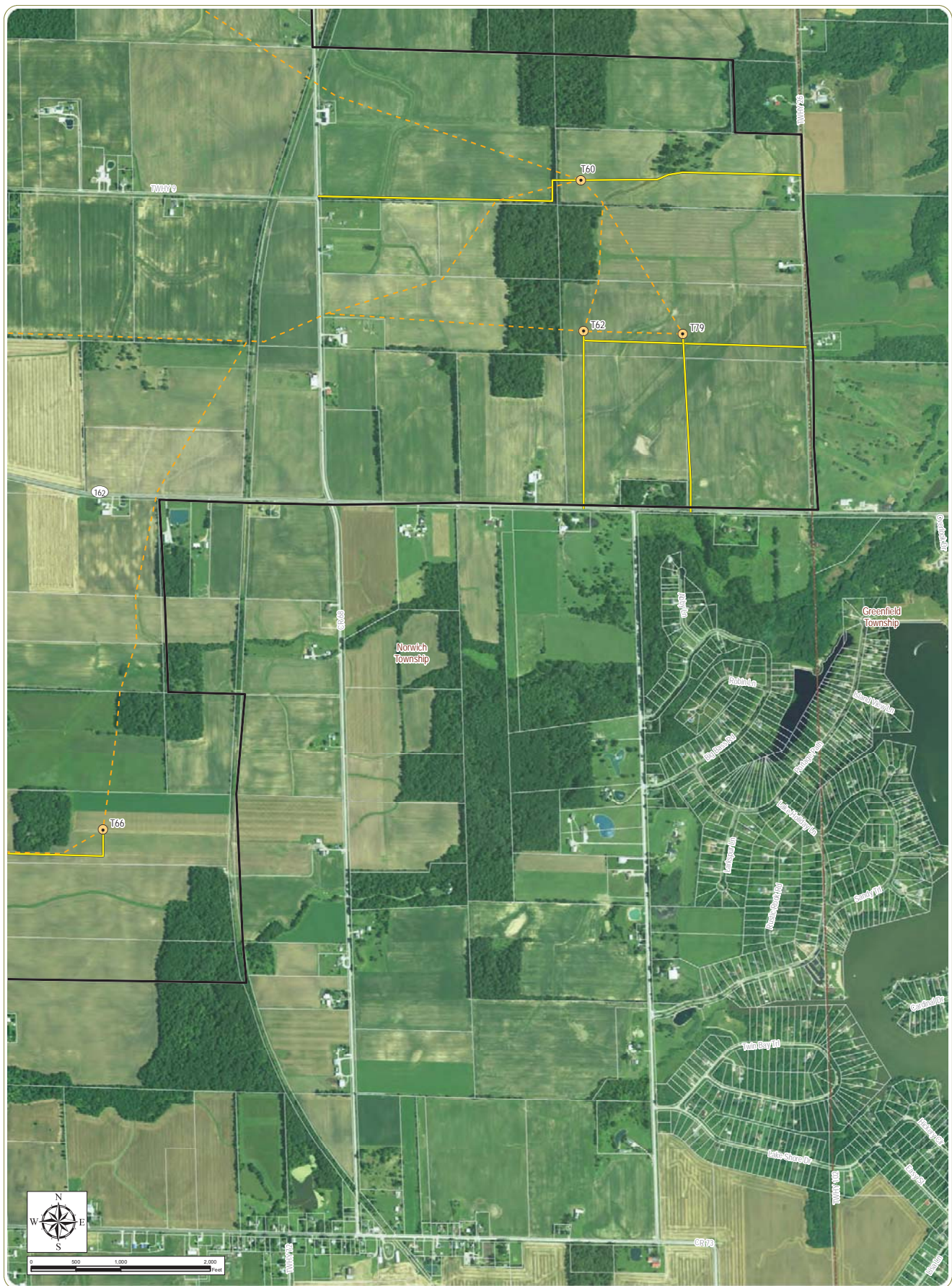
Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- ▲ Met Tower
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- - - Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

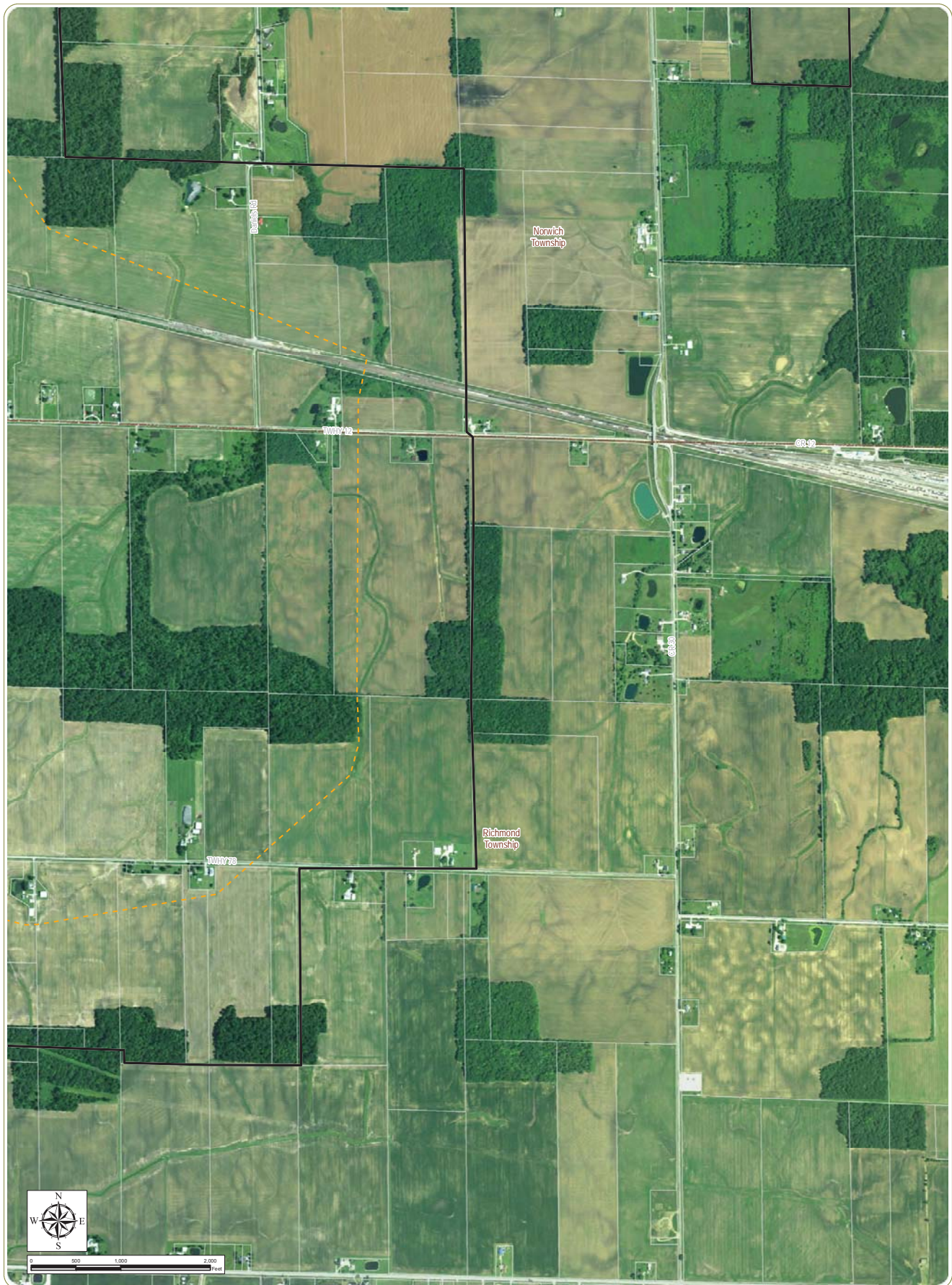
Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

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Sheet 25 of 26





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 03-2: Aerial Photography

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components and parcel boundaries provided by Apex. 5. Map Scale 1:12,000.

- Collection Line
- Project Boundary
- Parcel Boundary
- Township Boundary
- County Boundary

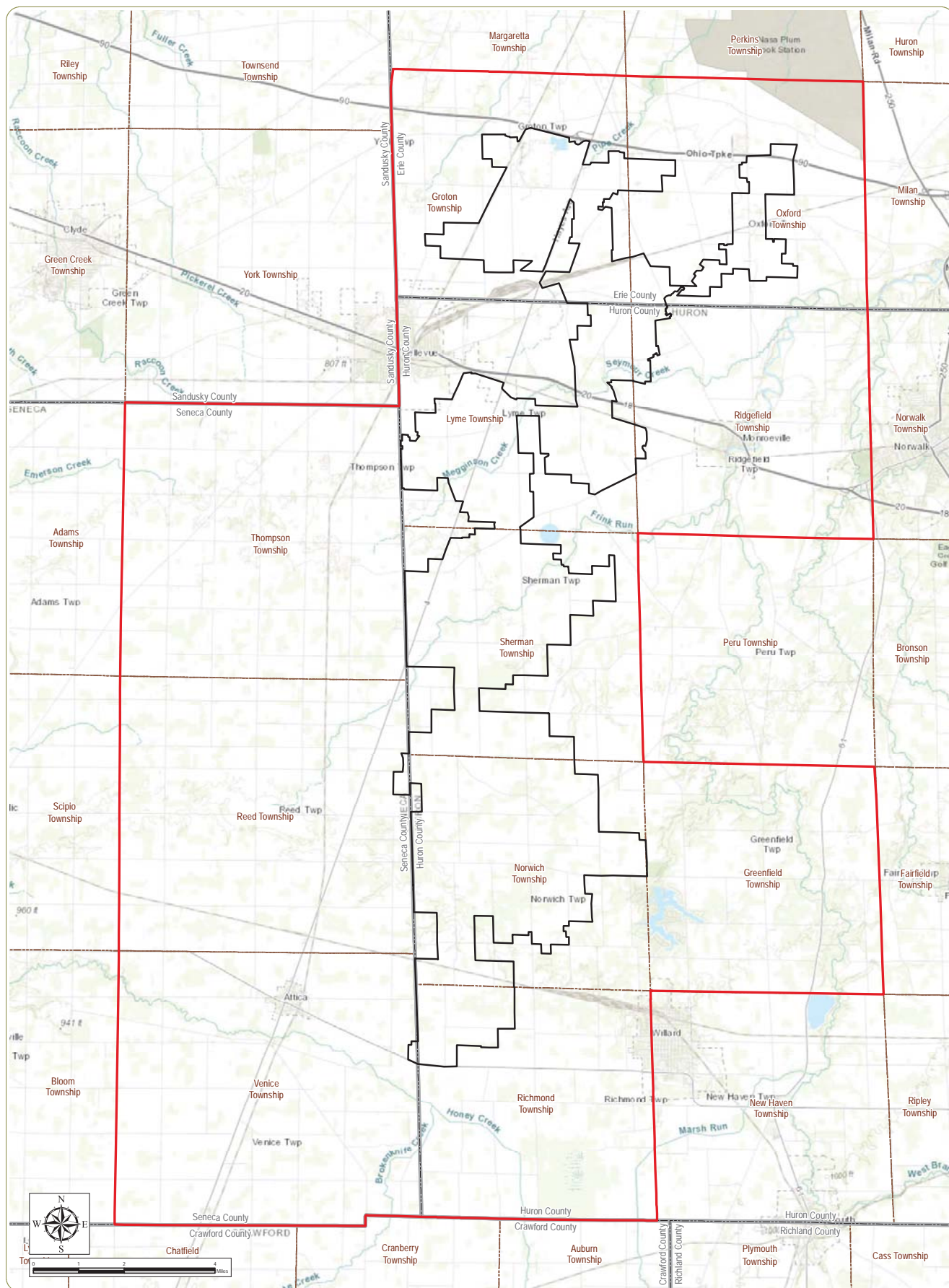
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25	26		



Figure 04-1 Study Area Evaluated

Christine M.T. Pirik (0029759)
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Terrence O'Donnell (0074213)
William V. Vorys (0093479)
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todonnell@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Firelands Wind, LLC



Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 04-1: Study Areas Evaluated

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Project Boundary provided by Apex. 5. Map Scale 1:125,000.

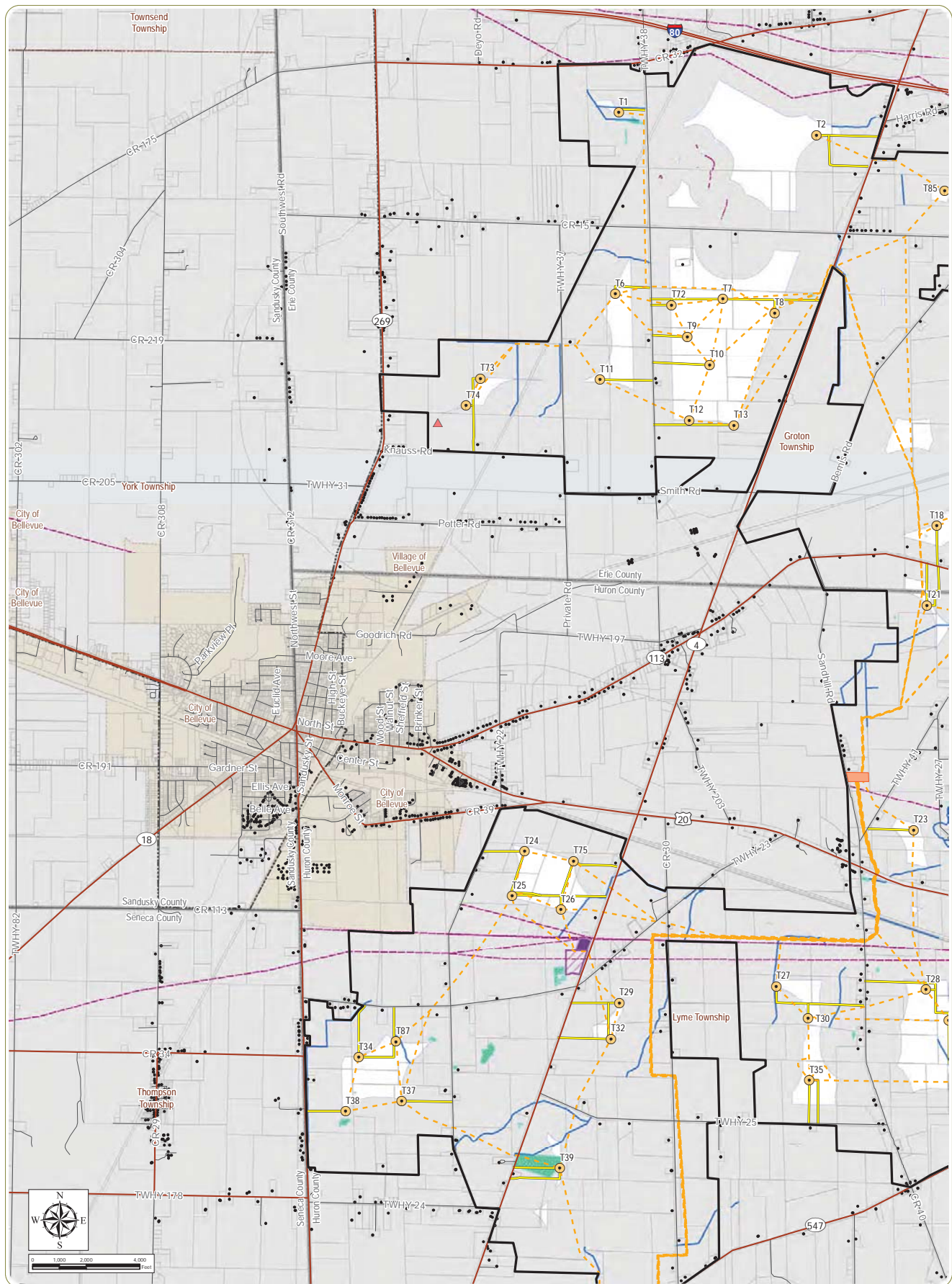
- Project Boundary
- Study Area Evaluated
- Township Boundary
- County Boundary



Figure 04-2 Constraints Map

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Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
todonnell@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Firelands Wind, LLC

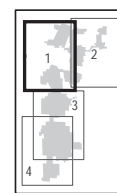


Emerson Creek Wind Farm Erie, Huron, and Seneca Counties, Ohio

Figure 04-2: Constraints Map

Notes: 1. Basemap: ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 18, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components, parcel boundaries, pipeline, and receptor data provided by Apex; road data was obtained from ESRI StreetMap; existing transmission line data was obtained from HIFLD, a federally-managed database under the Department of Homeland Security. 5. Wind turbine setbacks include 1,371 feet from non-participating parcels, and state and federal highways, and 720.5 feet from existing pipelines, transmission lines, and public roads. 6. Map Scale 1:40,000.

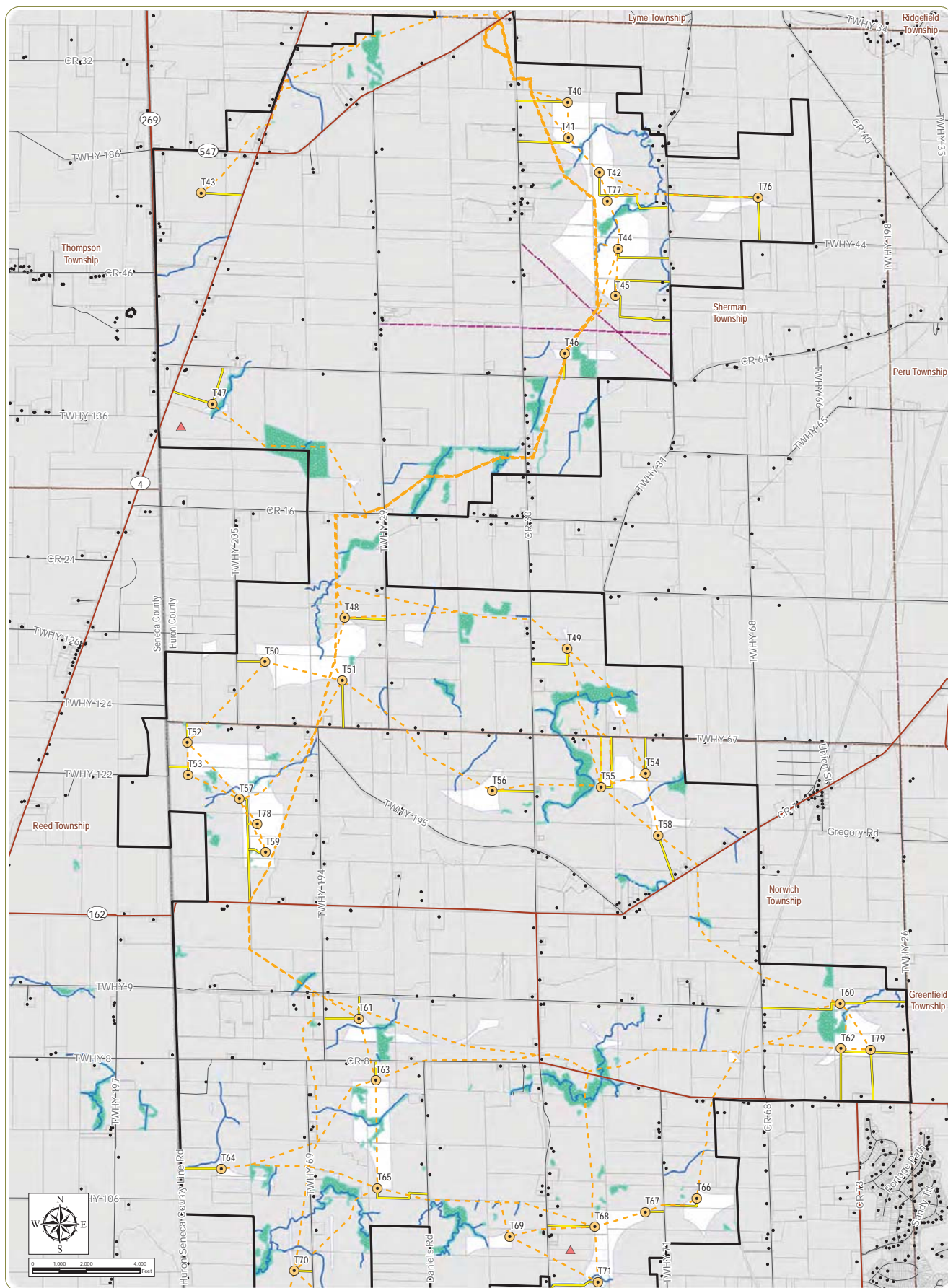
- Wind Turbine
- ▲ Met Tower
- Receptor
- Access Road
- - - Collection Line
- Delineated Stream
- - - Existing Transmission Line
- - - Existing Pipeline
- Federal/State Highway
- Public Road
- Collection Substation
- Laydown Yard
- O&M Building
- Delineated Wetland
- State Setback Area
- Parcel Boundary
- Project Boundary
- City/Village Boundary
- Township Boundary
- County Boundary



Sheet 1 of 4





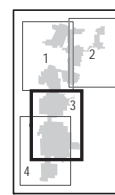


Emerson Creek Wind Farm Erie, Huron, and Seneca Counties, Ohio

Figure 04-2: Constraints Map

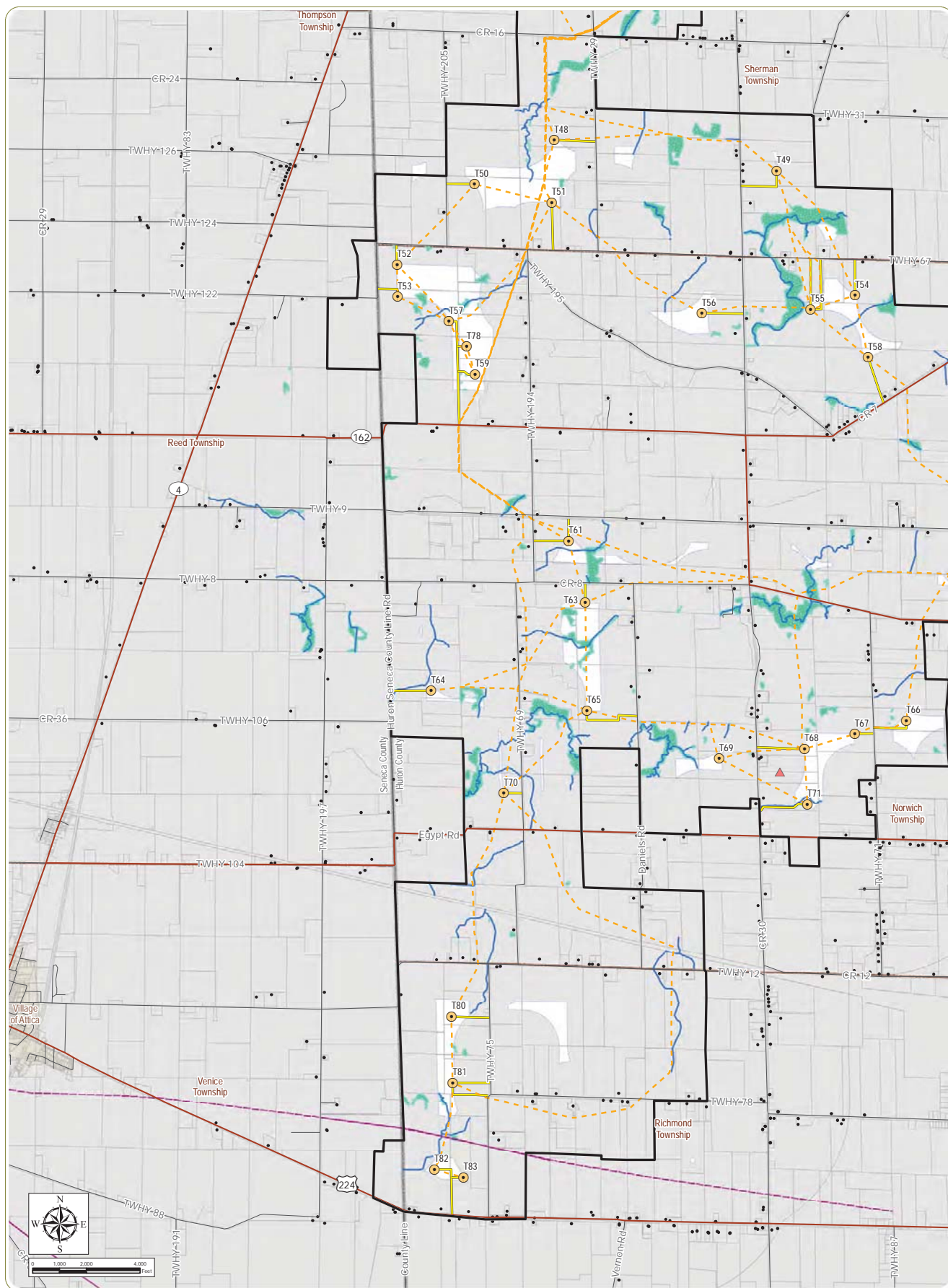
Notes: 1. Basemap: ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 18, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components, parcel boundaries, pipeline, and receptor data provided by Apex; road data was obtained from ESRI StreetMap; existing transmission line data was obtained from HIFLD, a federally-managed database under the Department of Homeland Security. 5. Wind turbine setbacks include 1,371 feet from non-participating parcels, and state and federal highways, and 720.5 feet from existing pipelines, transmission lines, and public roads. 6. Map Scale 1:40,000.

- Wind Turbine
- ▲ Met Tower
- Receptor
- Access Road
- Collection Line
- Delineated Stream
- Existing Pipeline
- Federal/State Highway
- Public Road
- Delineated Wetland
- State Setback Area
- Parcel Boundary
- Project Boundary
- Township Boundary
- County Boundary



Sheet 3 of 4

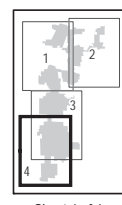




Emerson Creek Wind Farm Erie, Huron, and Seneca Counties, Ohio Figure 04-2: Constraints Map

Notes: 1. Basemap: ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 18, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components, parcel boundaries, pipeline, and receptor data provided by Apex; road data was obtained from ESRI StreetMap; existing transmission line data was obtained from HIFLD, a federally-managed database under the Department of Homeland Security. 5. Wind turbine setbacks include 1,371 feet from non-participating parcels, and state and federal highways, and 720.5 feet from existing pipelines, transmission lines, and public roads. 6. Map Scale 1:40,000.

- Wind Turbine
- ▲ Met Tower
- Receptor
- Access Road
- - - Collection Line
- Delineated Stream
- Existing Pipeline
- Federal/State Highway
- Public Road
- Delineated Wetland
- State Setback Area
- Parcel Boundary
- Project Boundary
- City/Village Boundary
- Township Boundary
- County Boundary



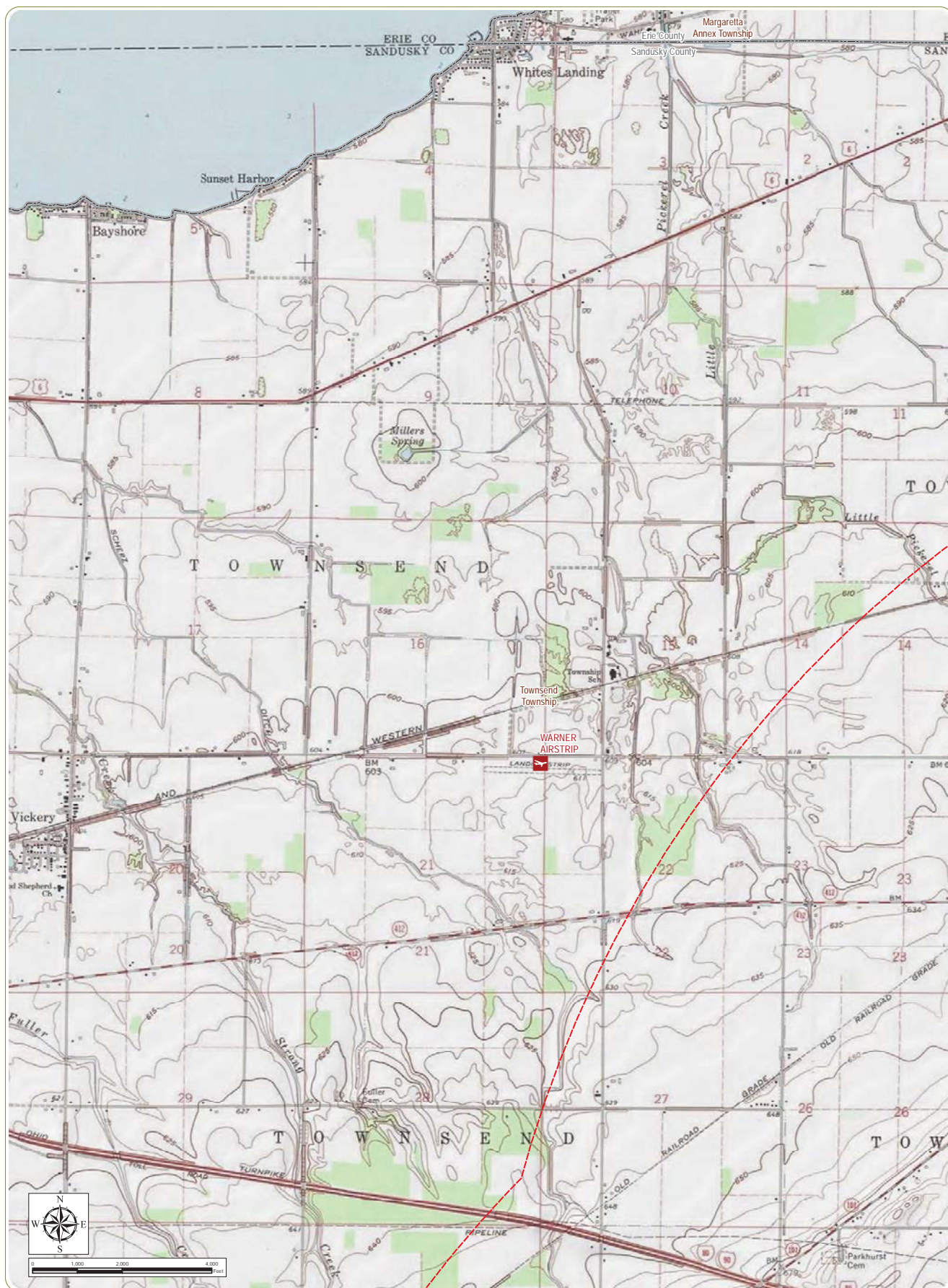
Sheet 4 of 4



Figure 07-1 Aviation Facilities

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William V. Vorys (0093479)
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Attorneys for Firelands Wind, LLC



Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.



Private Airport

5 Mile Study Area

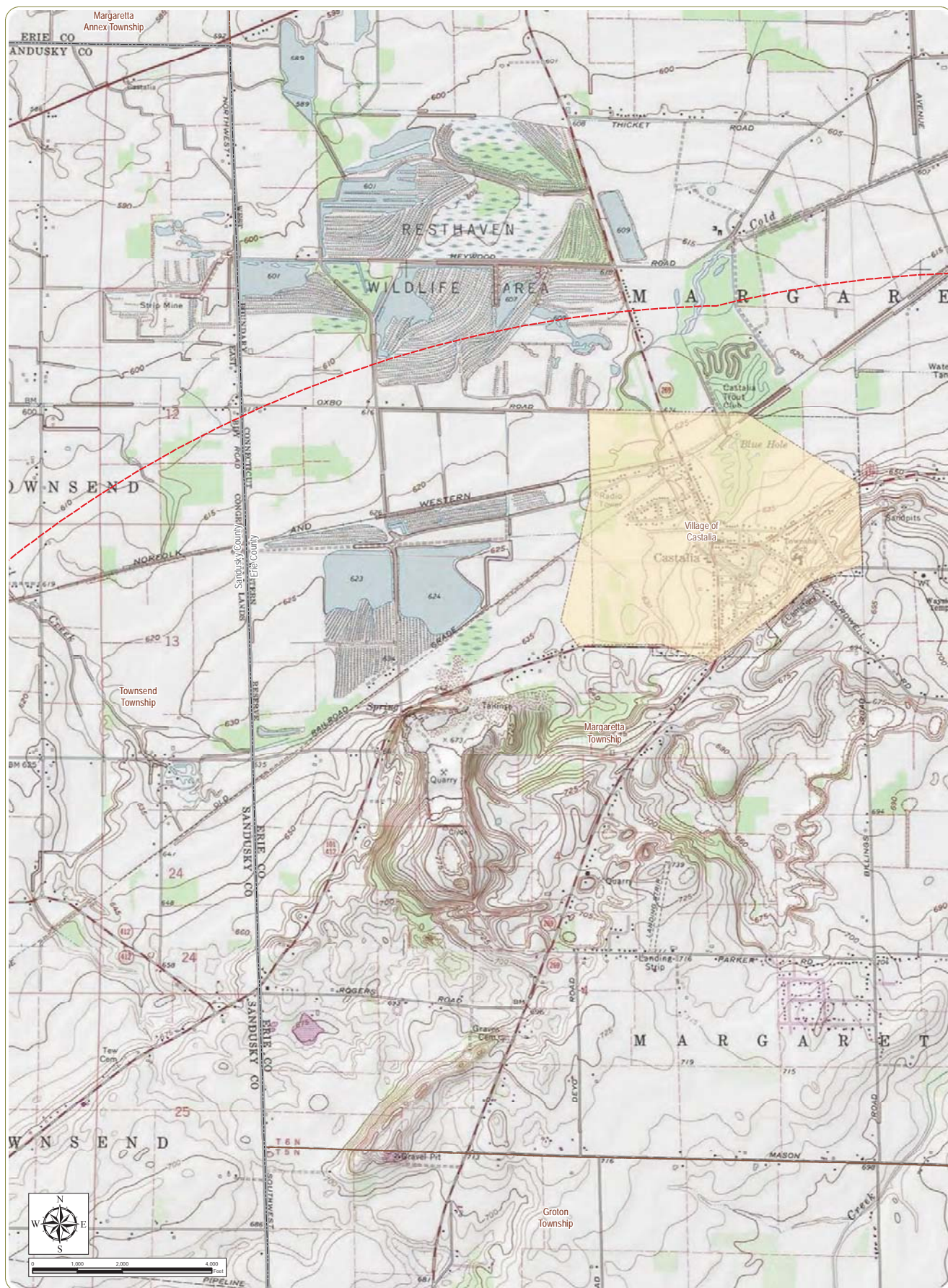
Township Boundary

County Boundary



Sheet 1 of 27





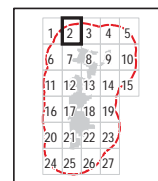
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

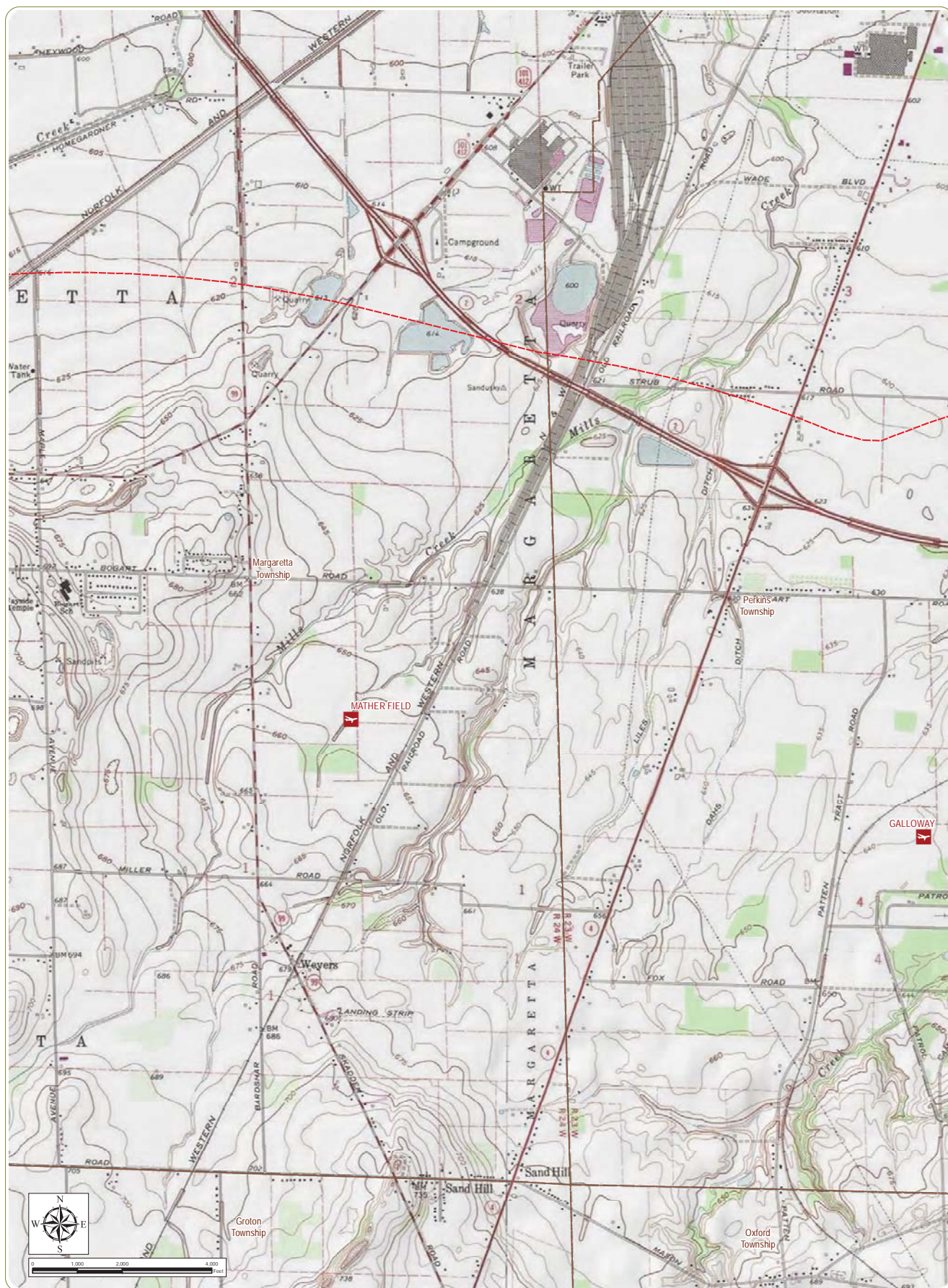
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



Sheet 2 of 27





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

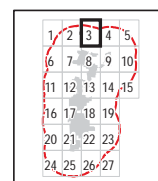


Private Airport

5 Mile Study Area

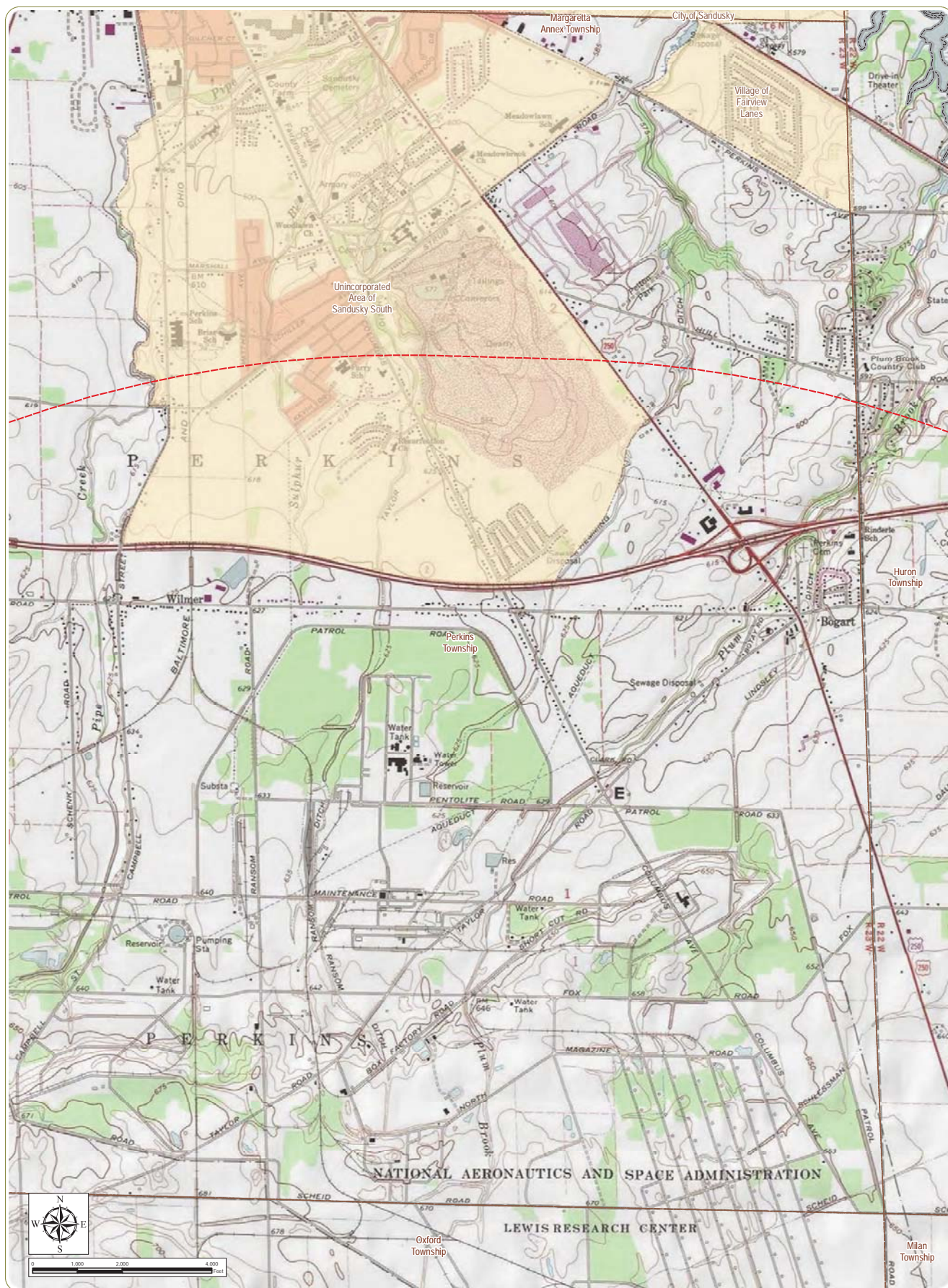
Township Boundary

County Boundary



Sheet 3 of 27





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- Private Airport
- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary

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Sheet 4 of 27



Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

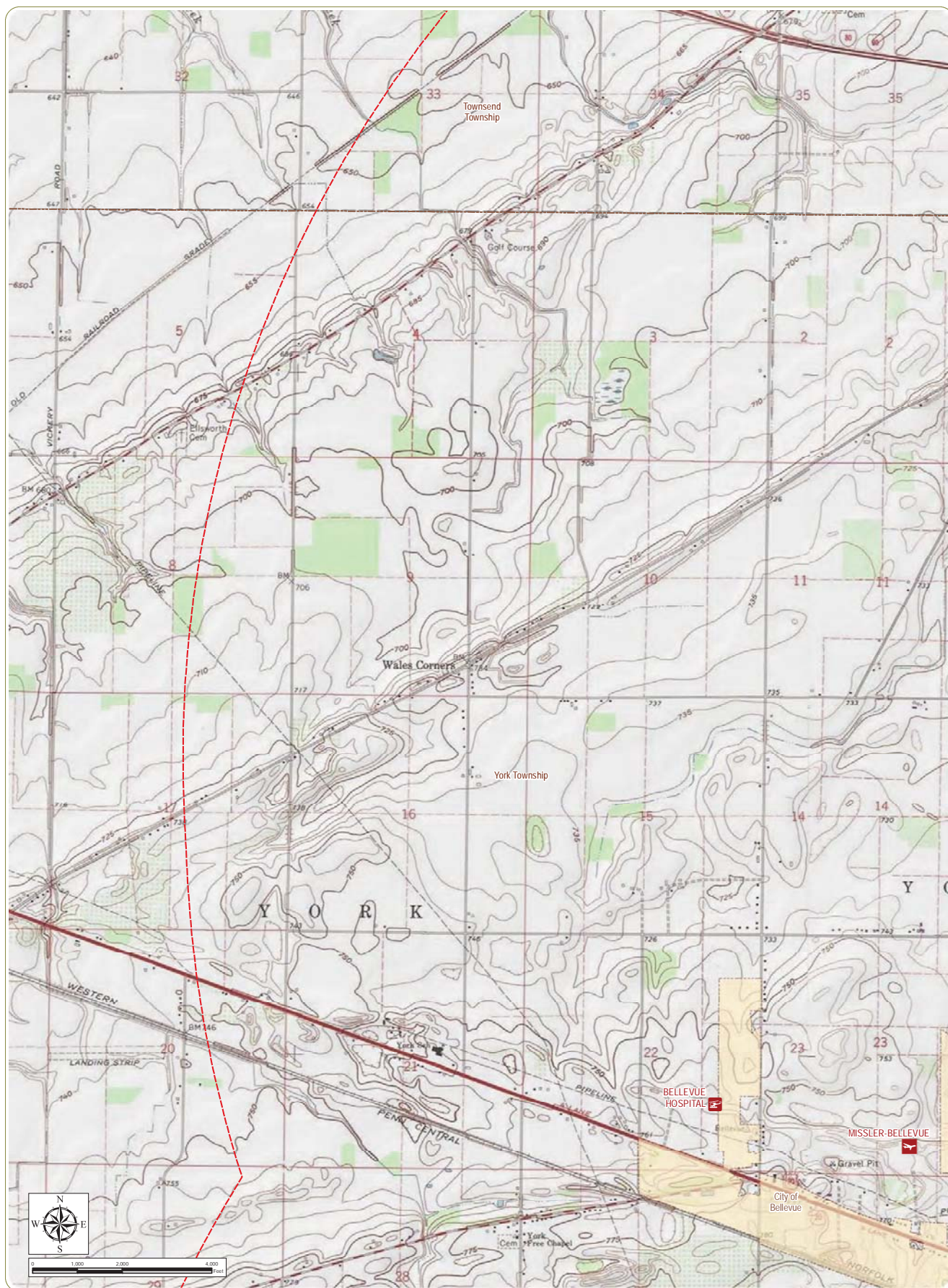
Figure 07-1: Aviation Facilities

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- | | | | |
|---|------------------|---|-----------------------|
|  | Private Airport |  | 5 Mile Study Area |
|  | Public Airport |  | City/Village Boundary |
|  | Private Heliport |  | Township Boundary |
| | |  | County Boundary |



Sheet 5 of 27



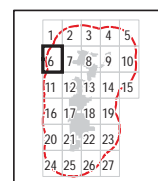
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

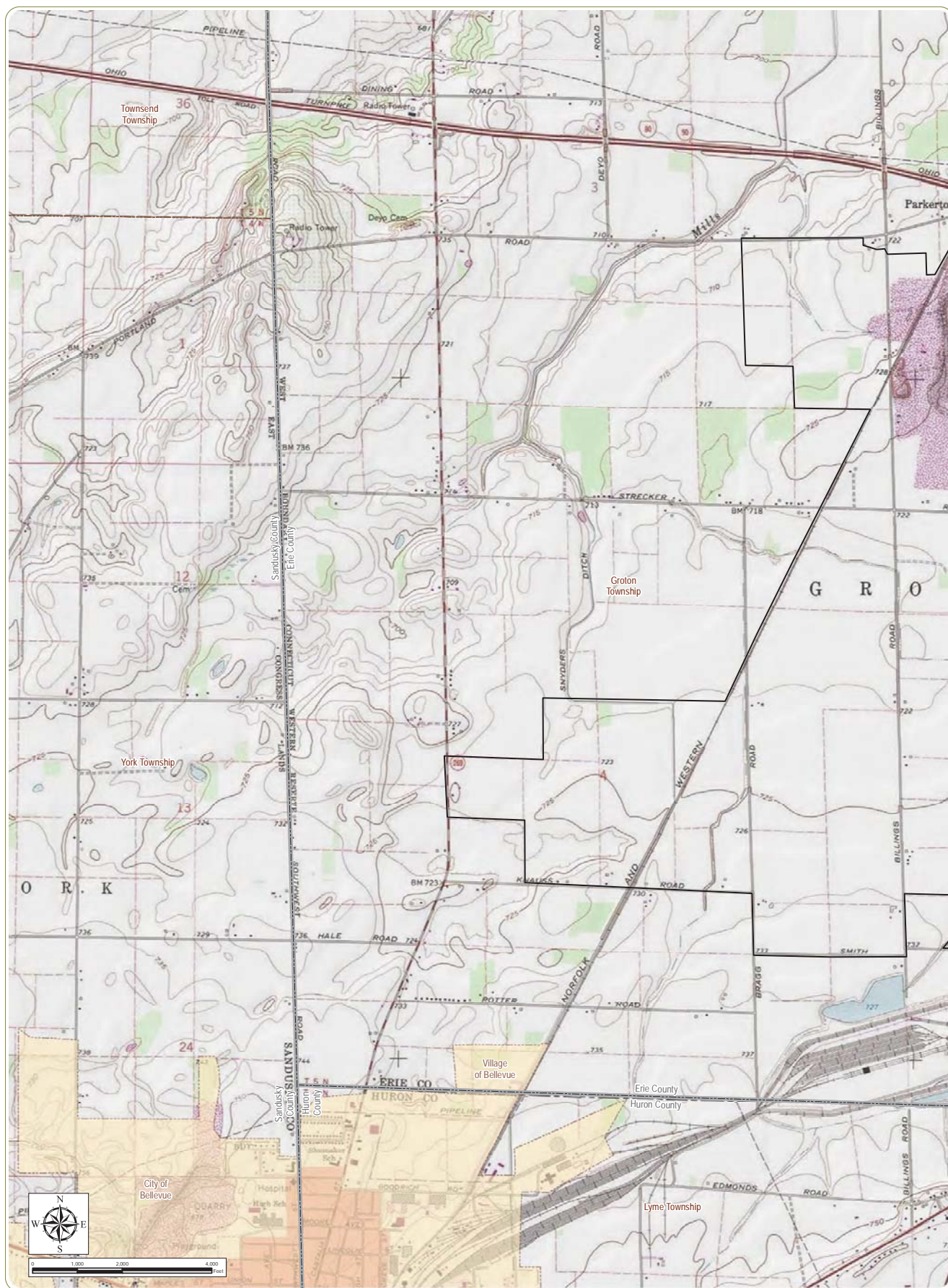
Figure 07-1: Aviation Facilities

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- Private Airport
- Private Helipad
- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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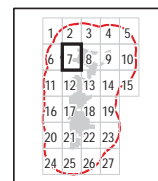
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

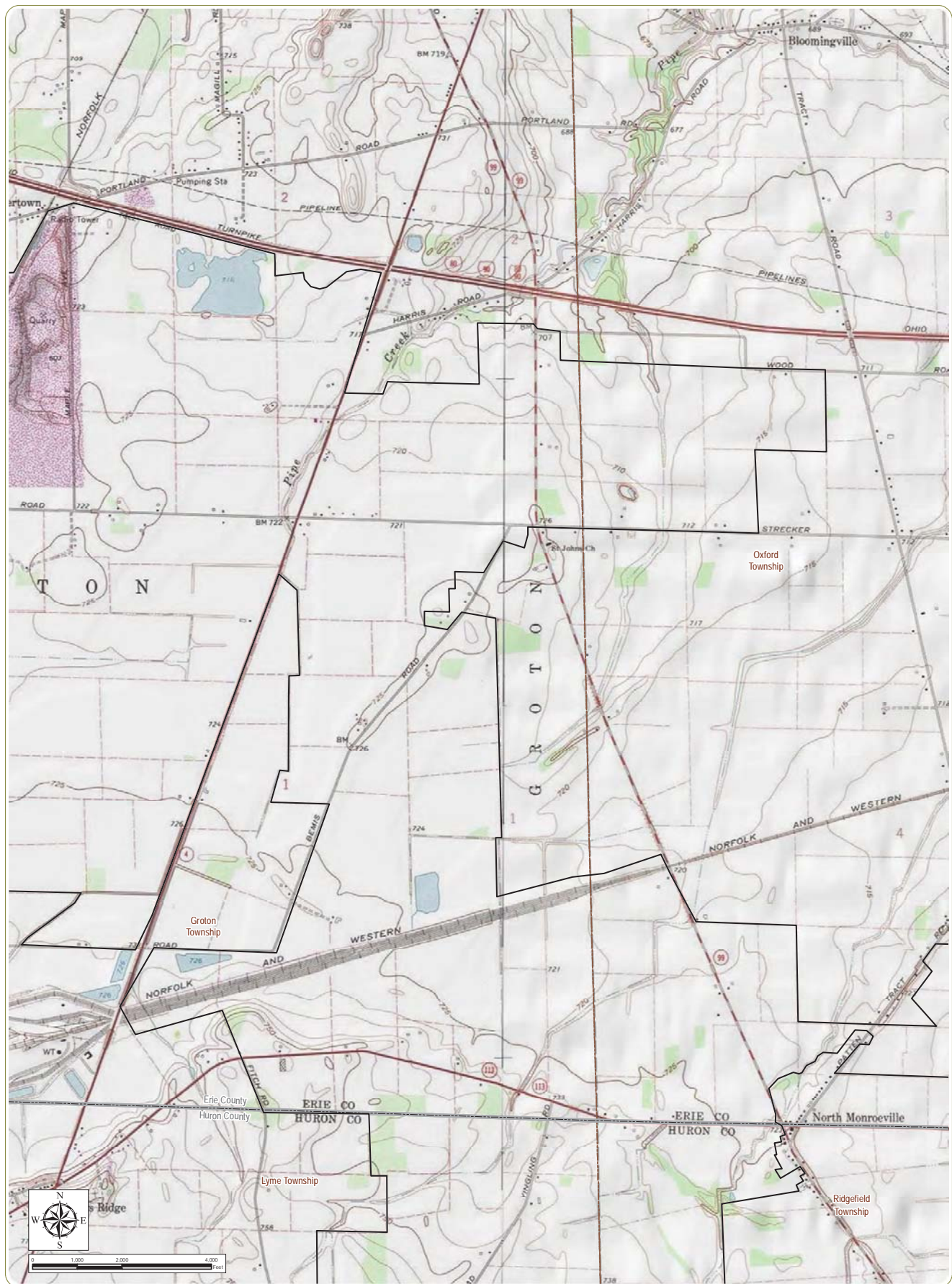
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- Project Boundary
- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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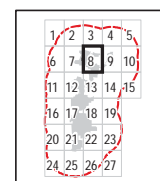
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

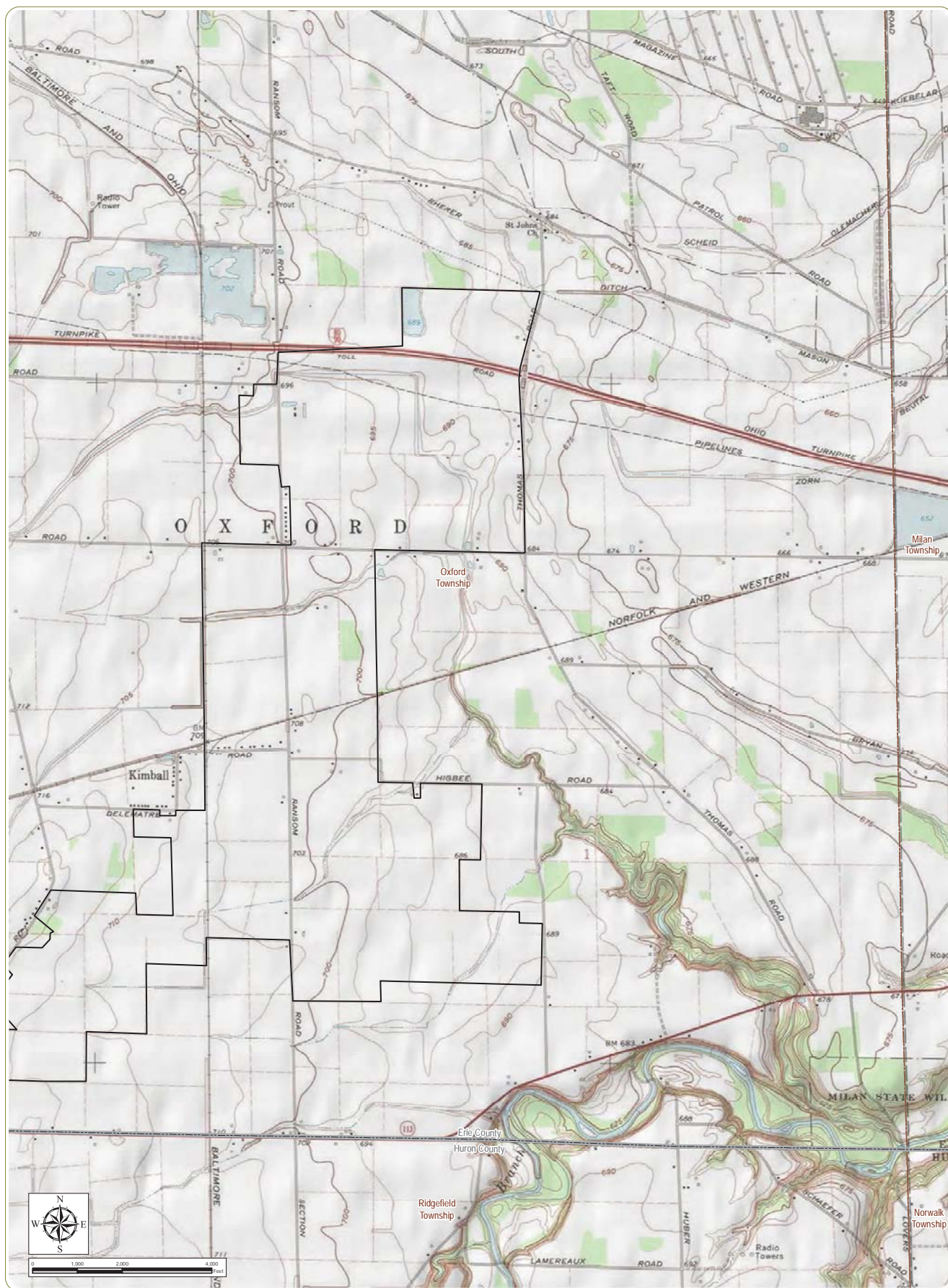
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- Project Boundary
- 5 Mile Study Area
- Township Boundary
- County Boundary



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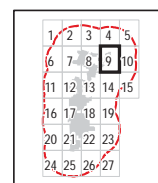
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

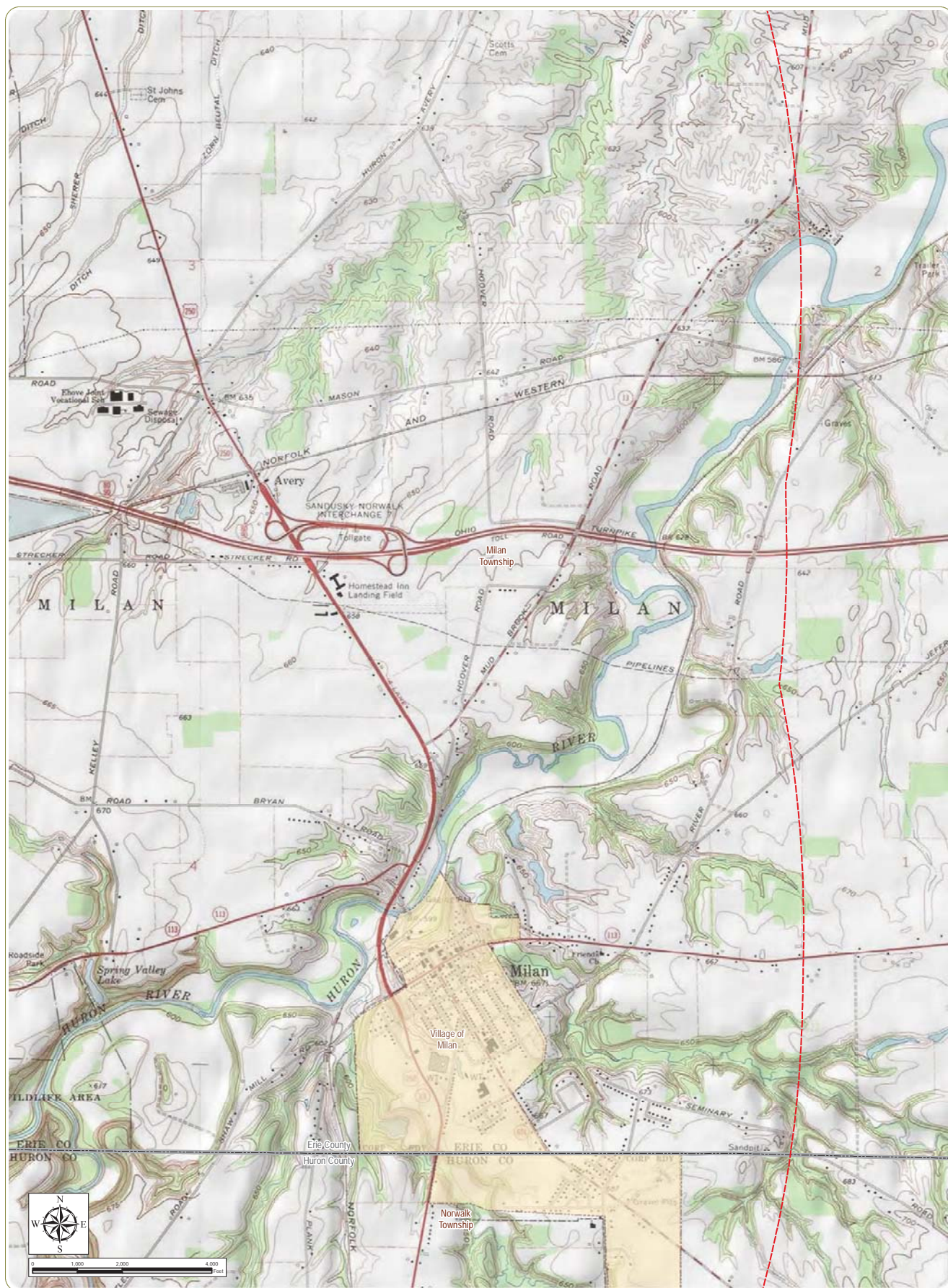
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- Project Boundary
- 5 Mile Study Area
- Township Boundary
- County Boundary



Sheet 9 of 27





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.



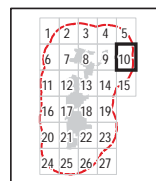
Private Airport

5 Mile Study Area

City/Village Boundary

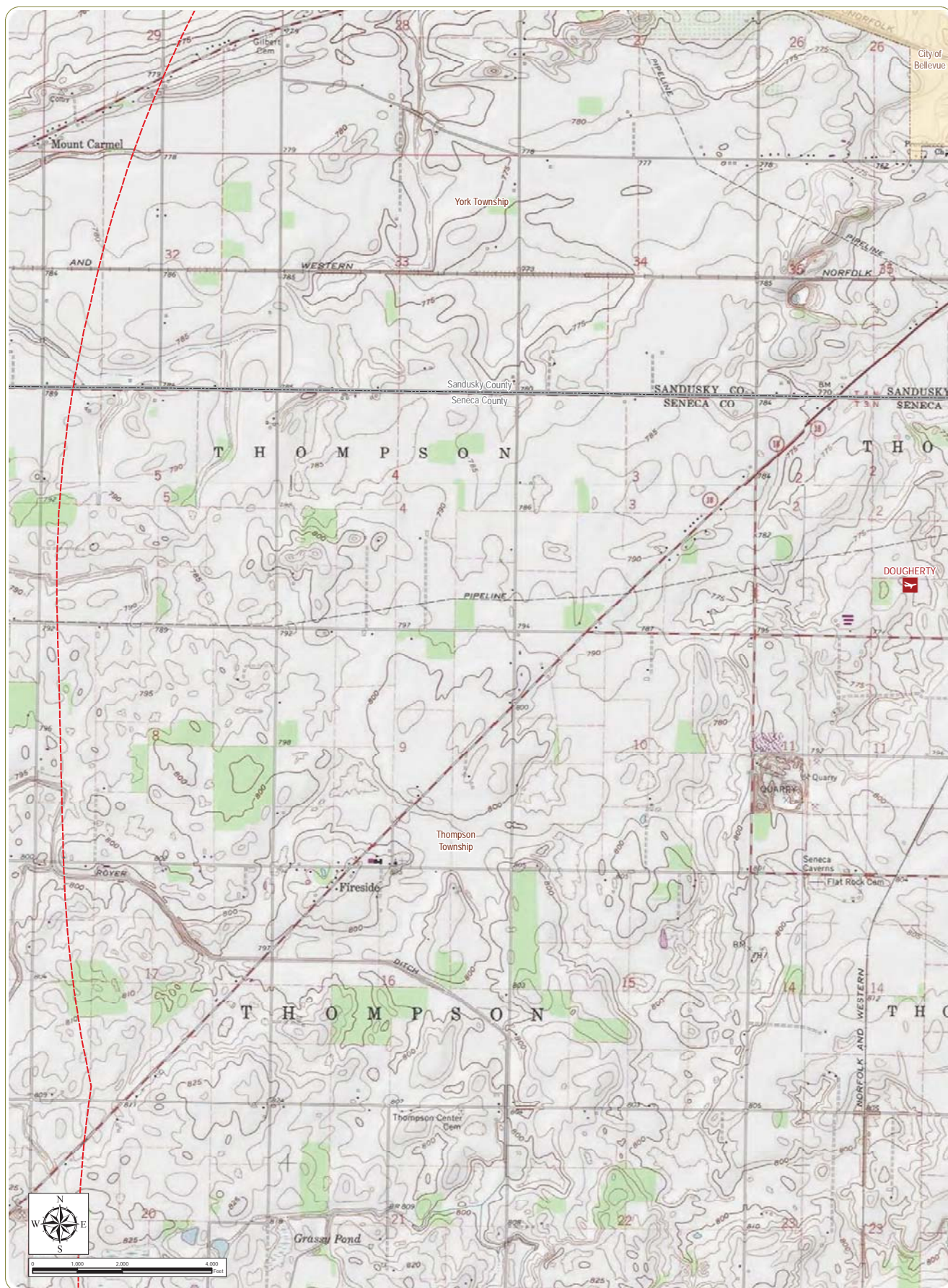
Township Boundary

County Boundary



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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.



Private Airport



5 Mile Study Area



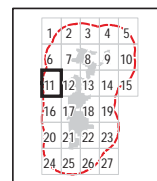
City/Village Boundary



Township Boundary

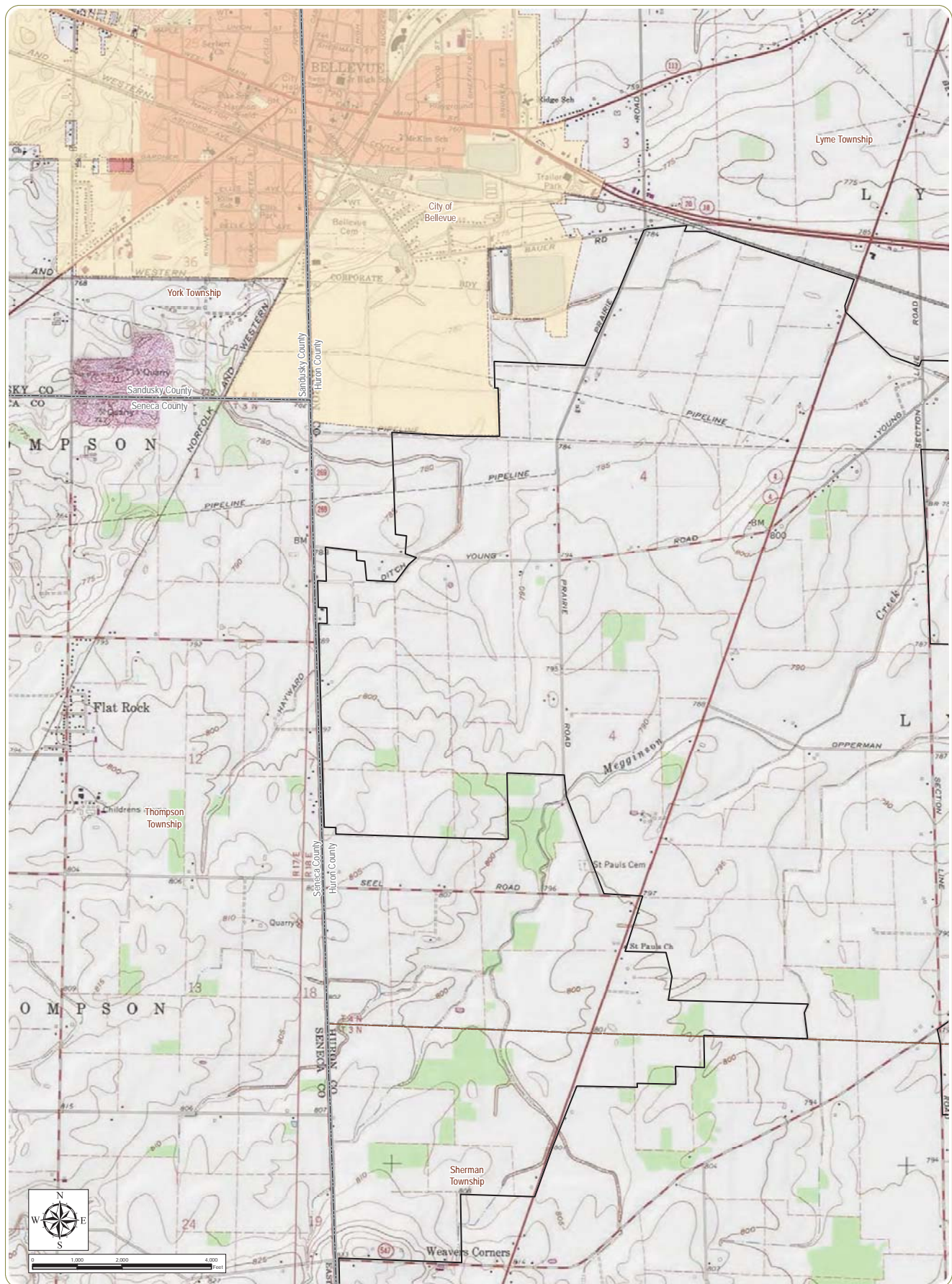


County Boundary



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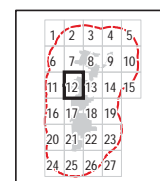
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

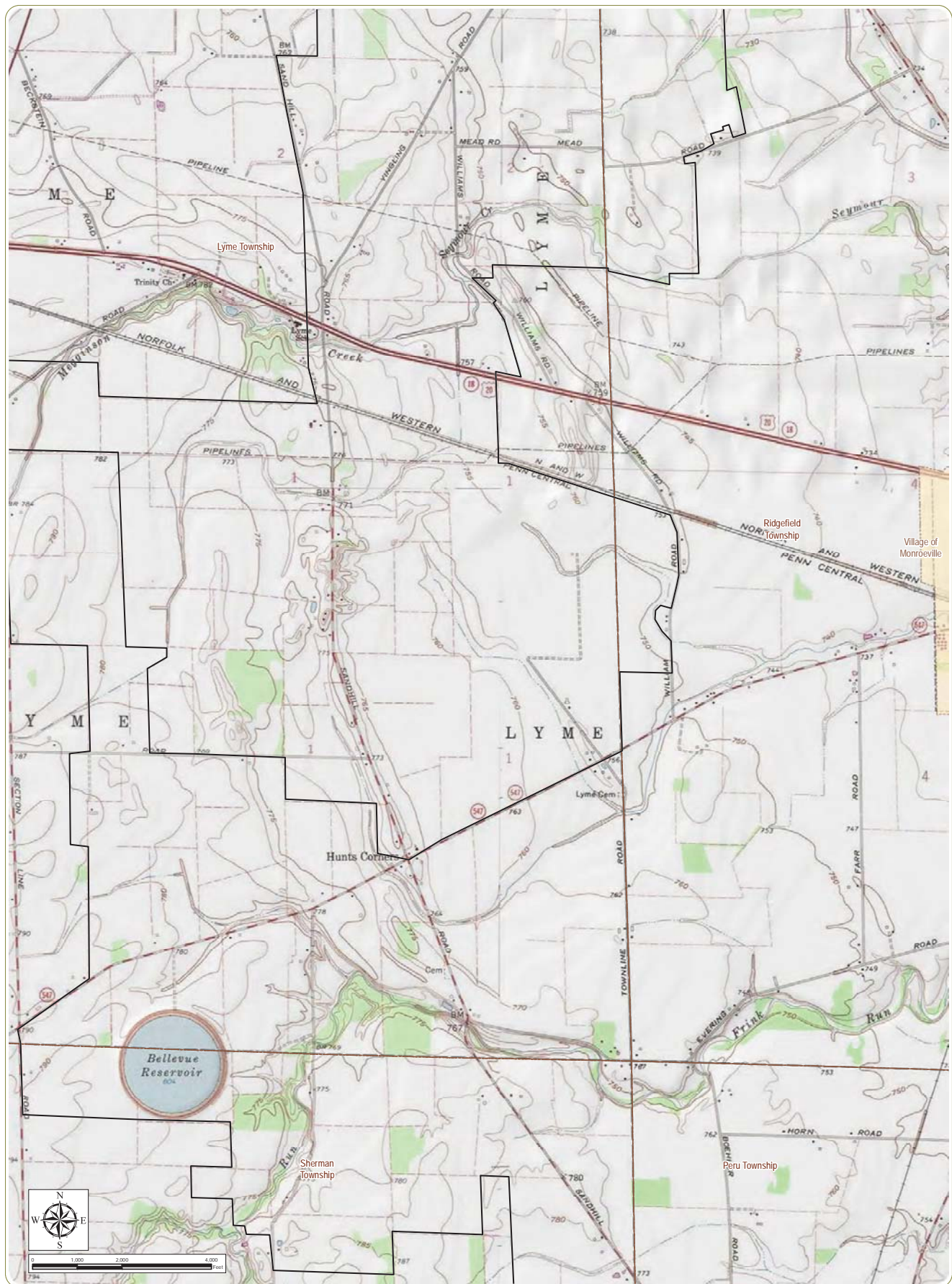
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- Project Boundary
- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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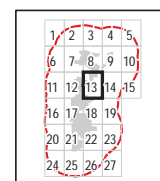
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

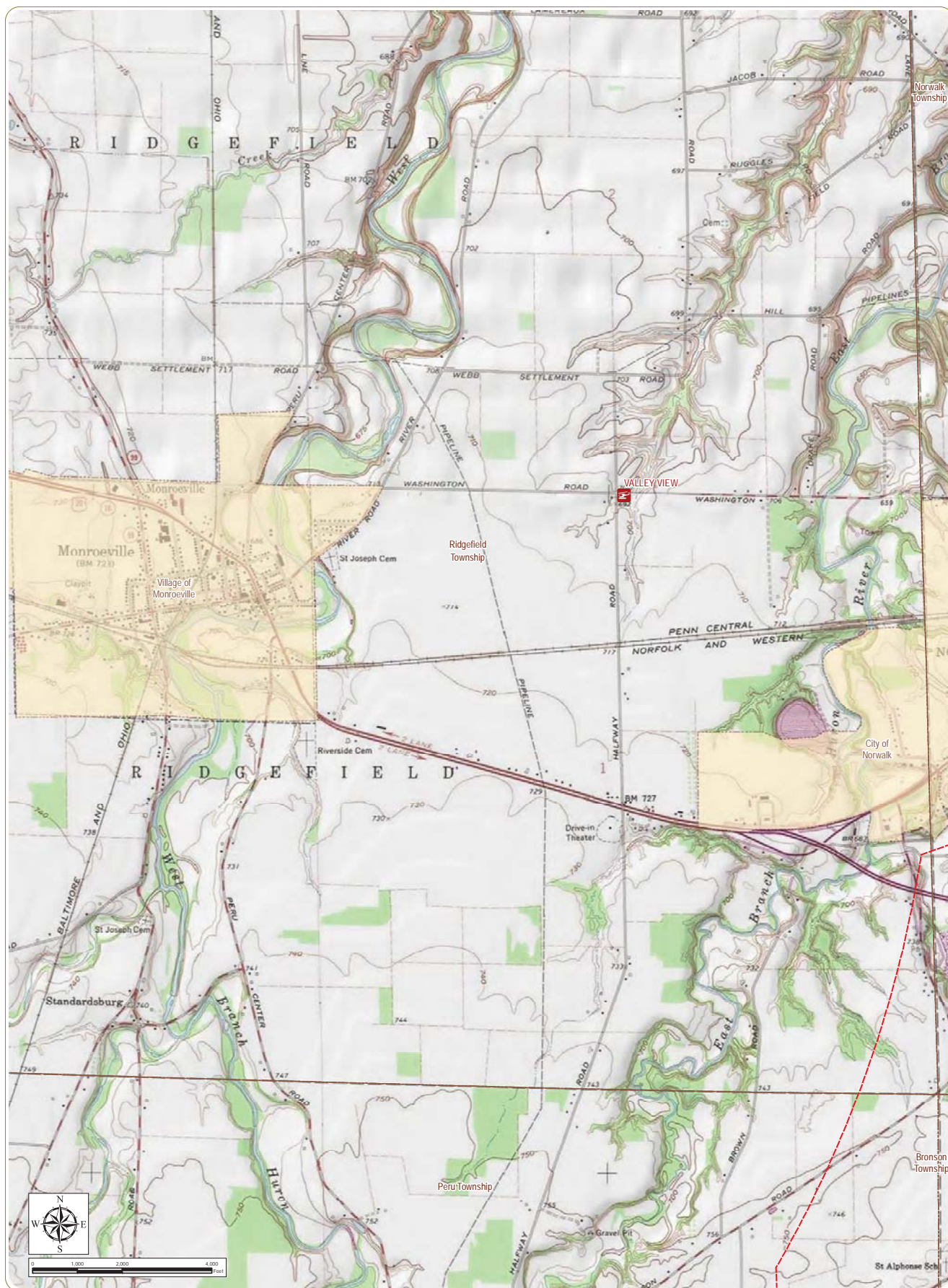
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- Project Boundary
- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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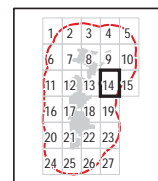
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

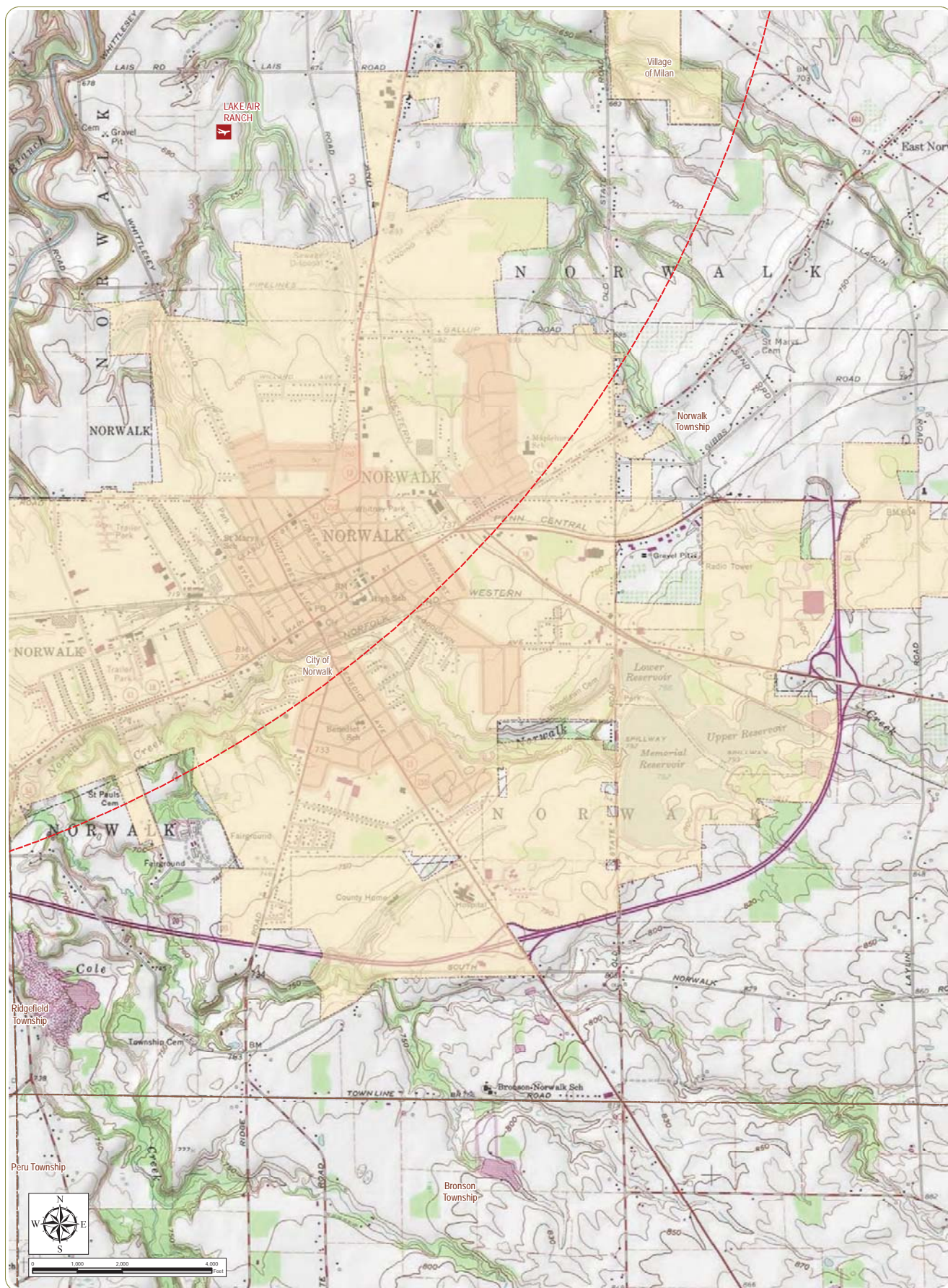
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- Private Helipoint
- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.



Private Airport

5 Mile Study Area

City/Village Boundary

Township Boundary

County Boundary



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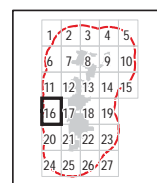
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

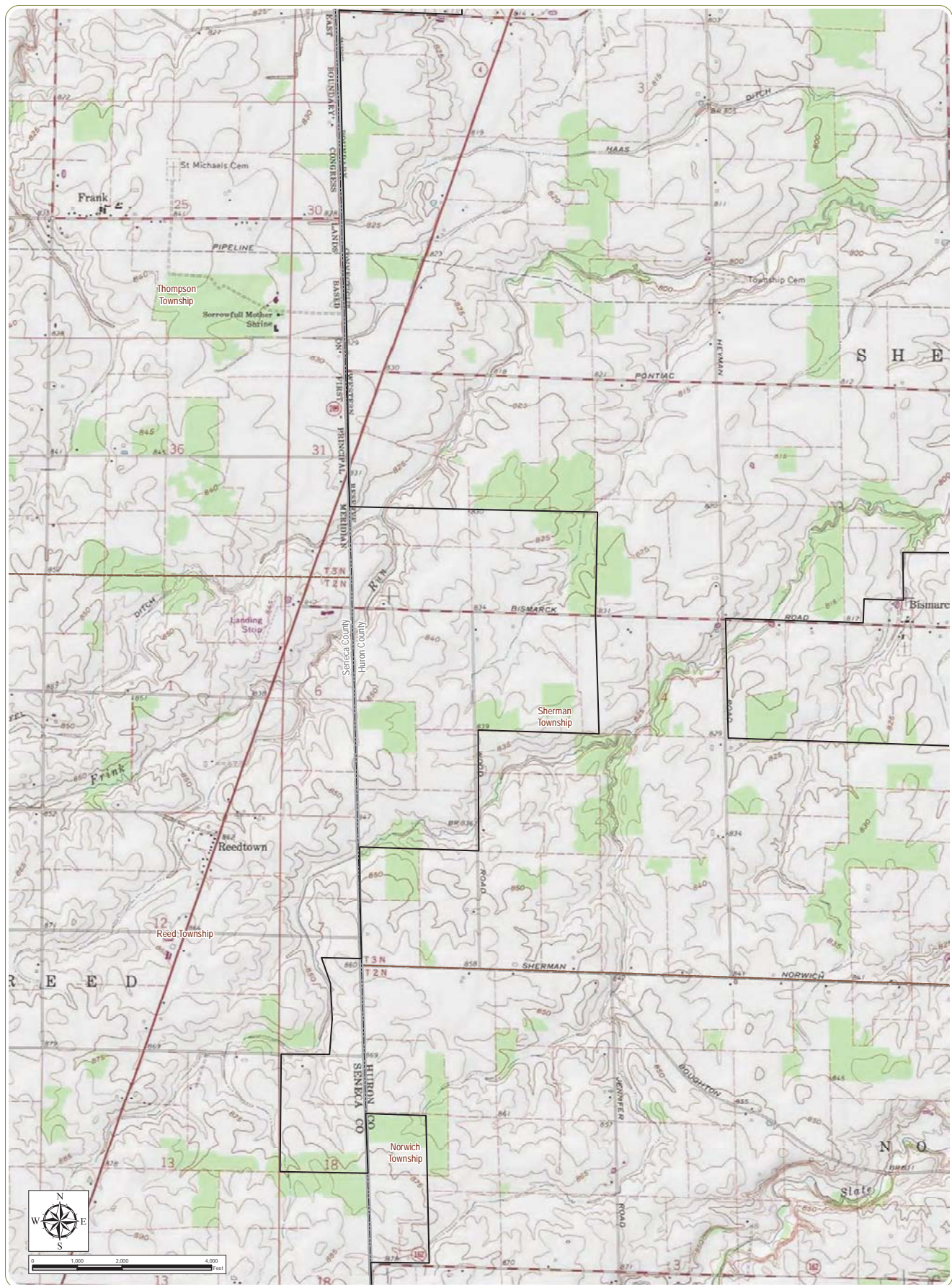
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- 5 Mile Study Area
- Township Boundary
- County Boundary



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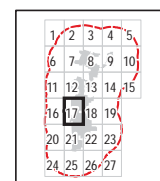
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

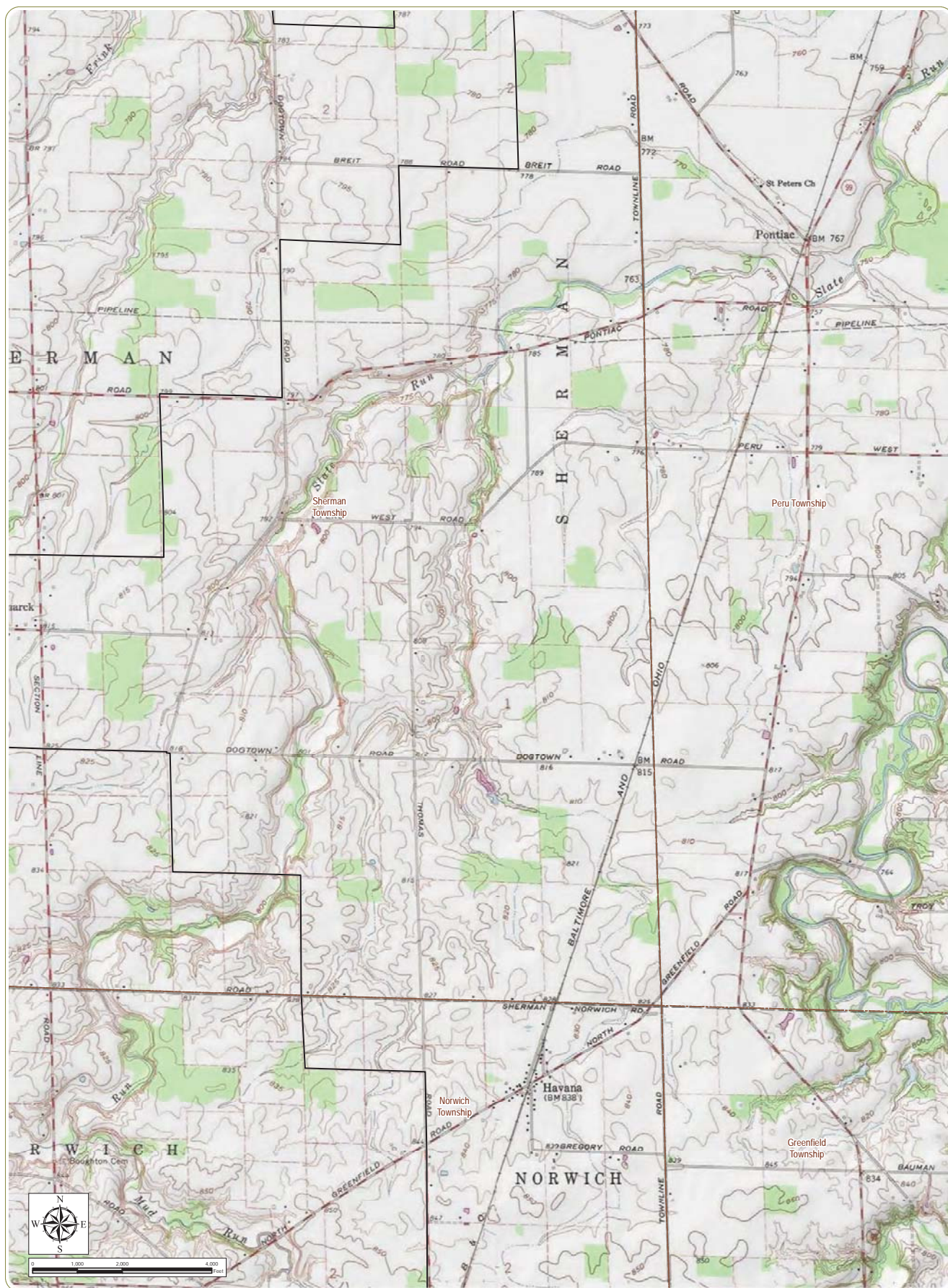
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- Project Boundary
- 5 Mile Study Area
- Township Boundary
- County Boundary



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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

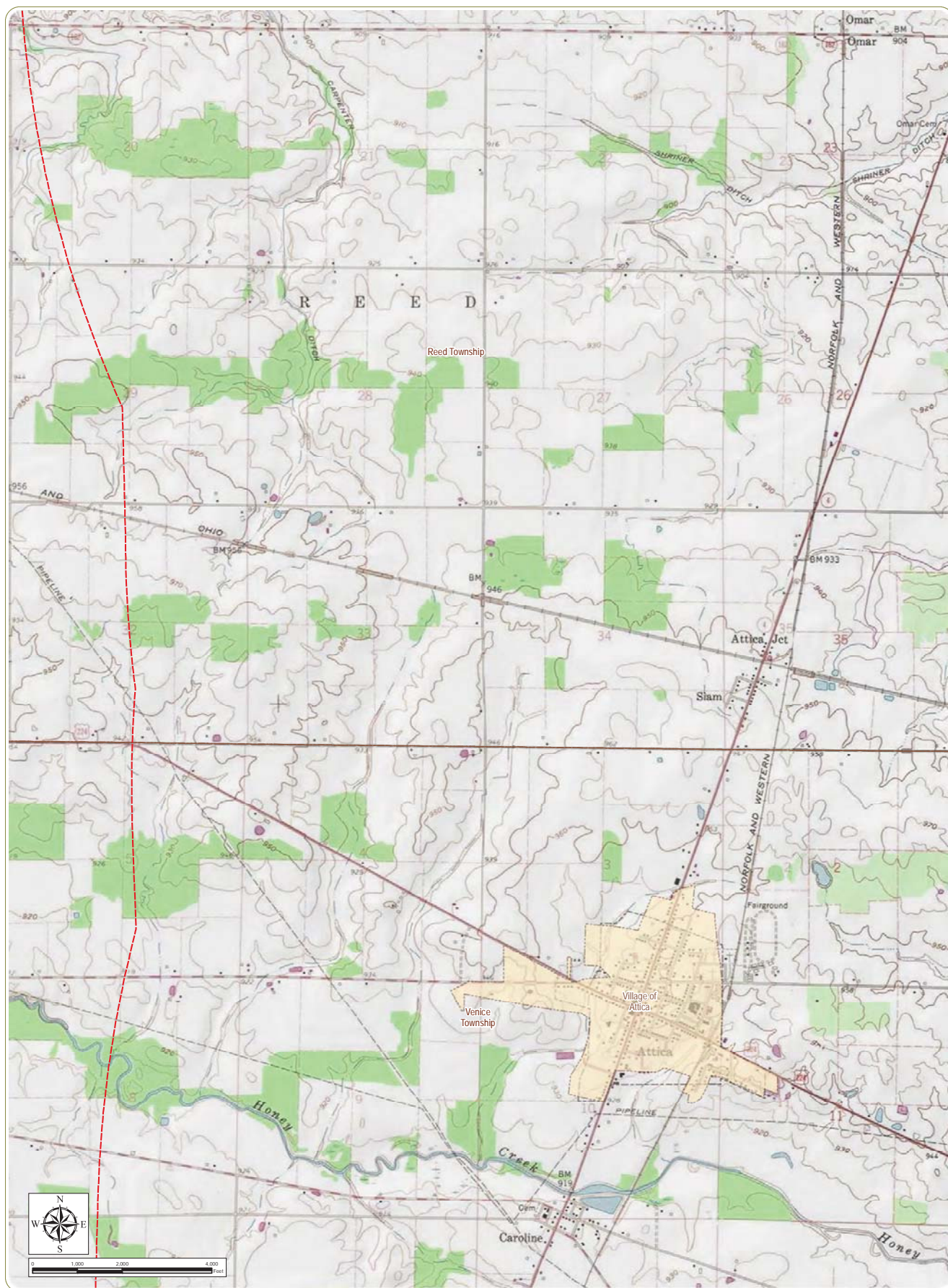
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- Project Boundary
- 5 Mile Study Area
- Township Boundary
- County Boundary



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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

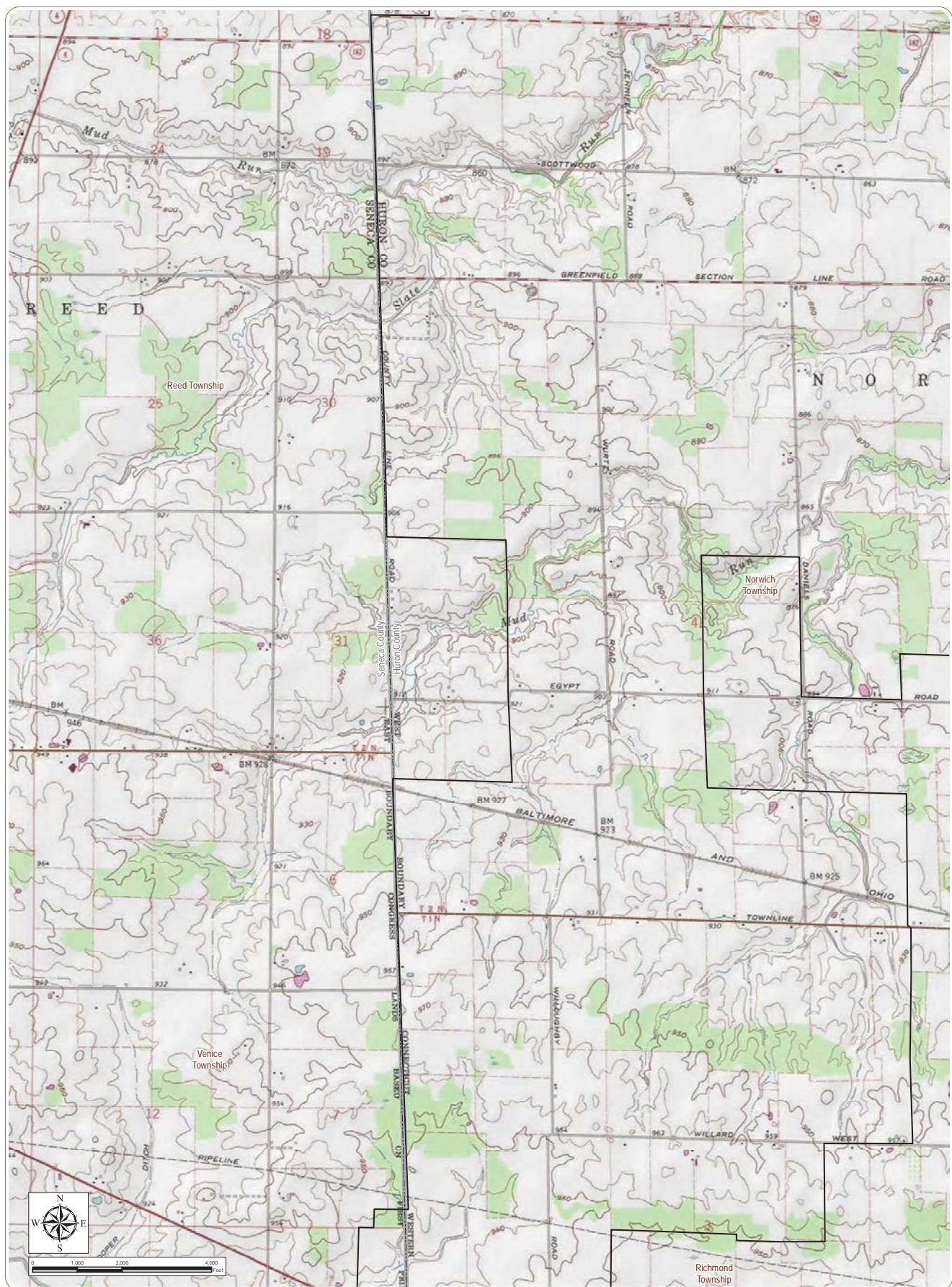
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- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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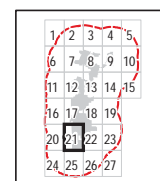
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

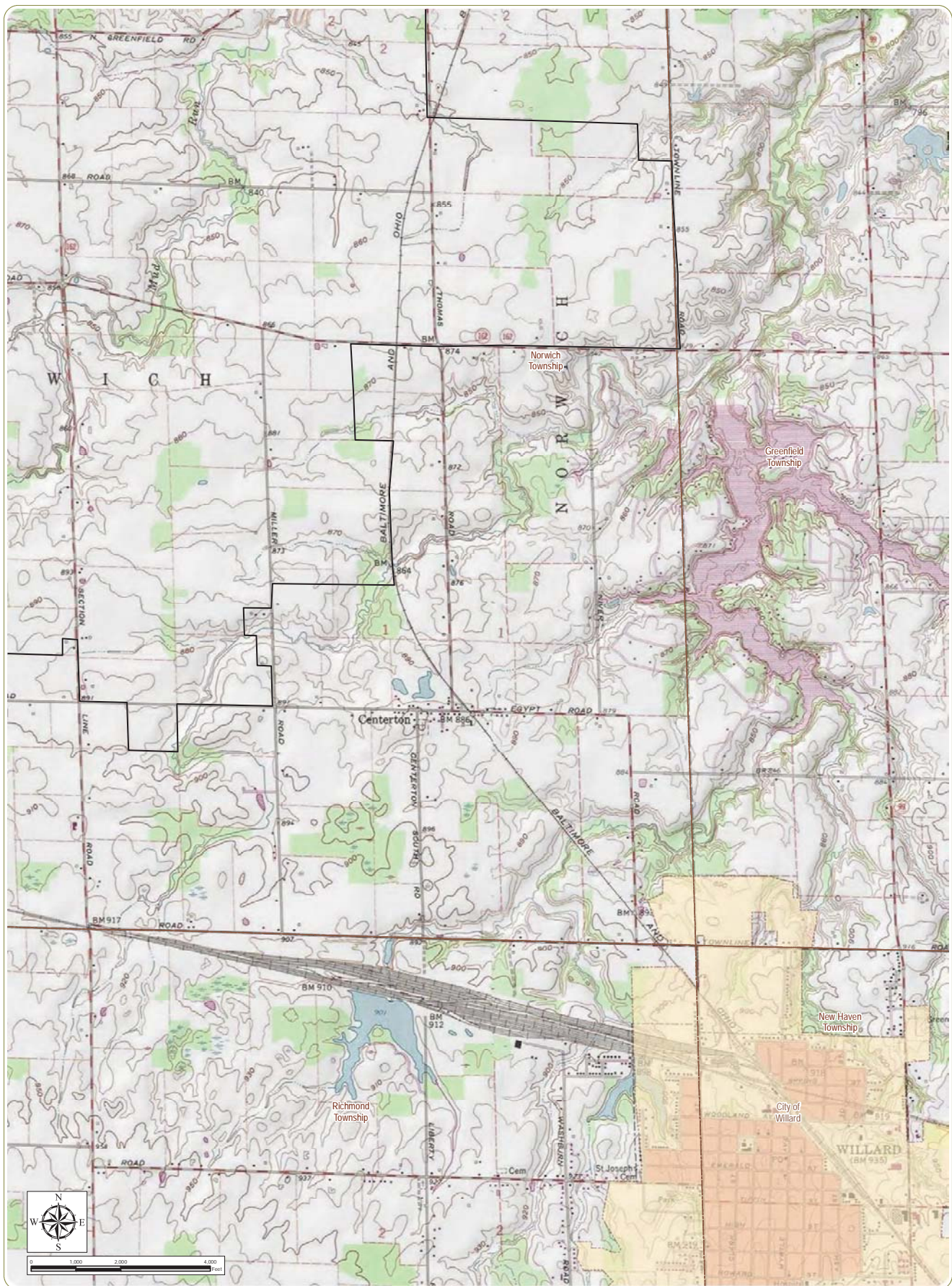
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- Project Boundary
- 5 Mile Study Area
- Township Boundary
- County Boundary



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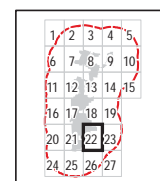
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

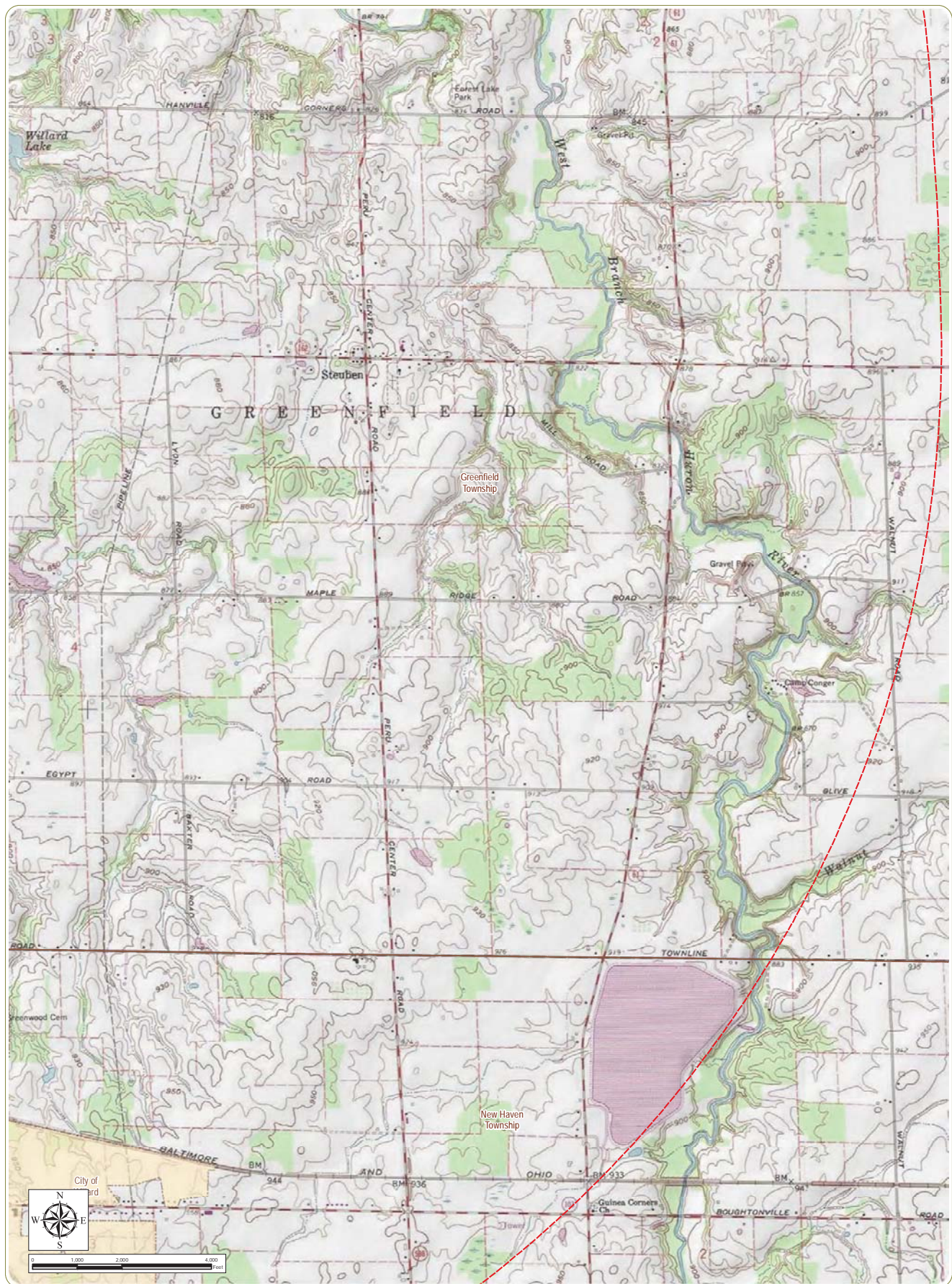
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- Project Boundary
- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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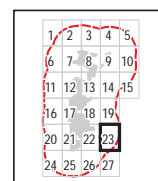
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

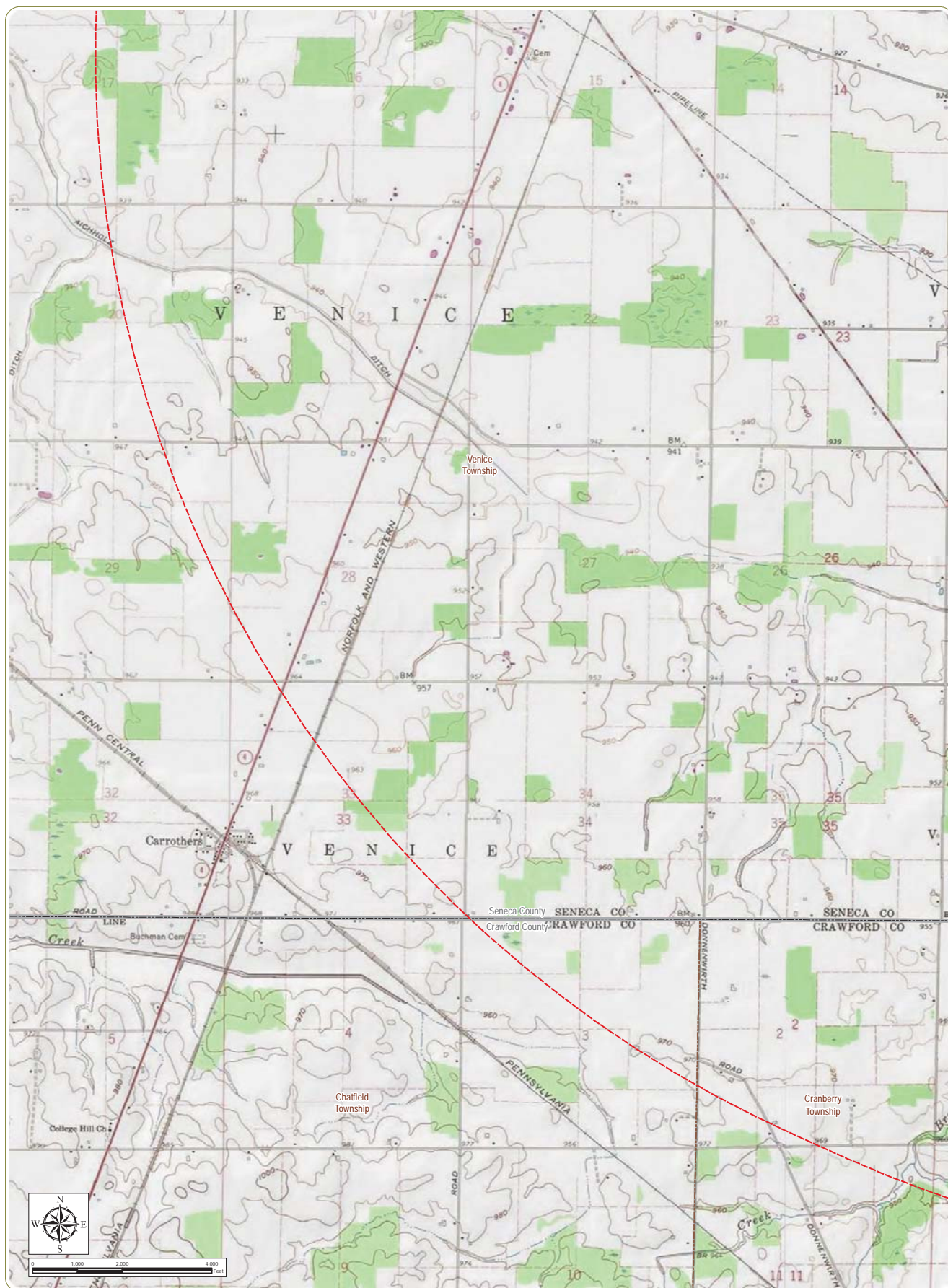
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- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

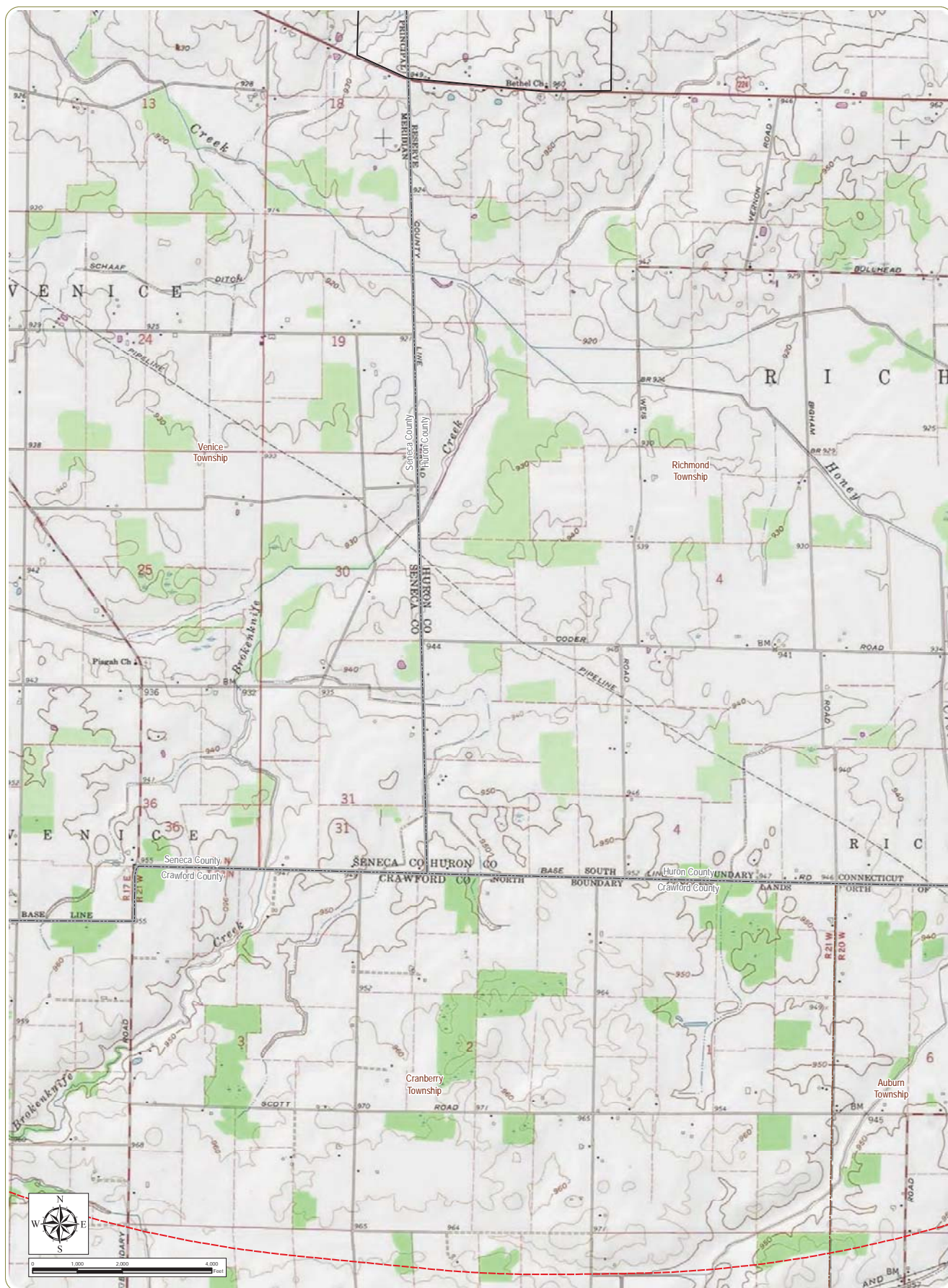
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- 5 Mile Study Area
- Township Boundary
- County Boundary



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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

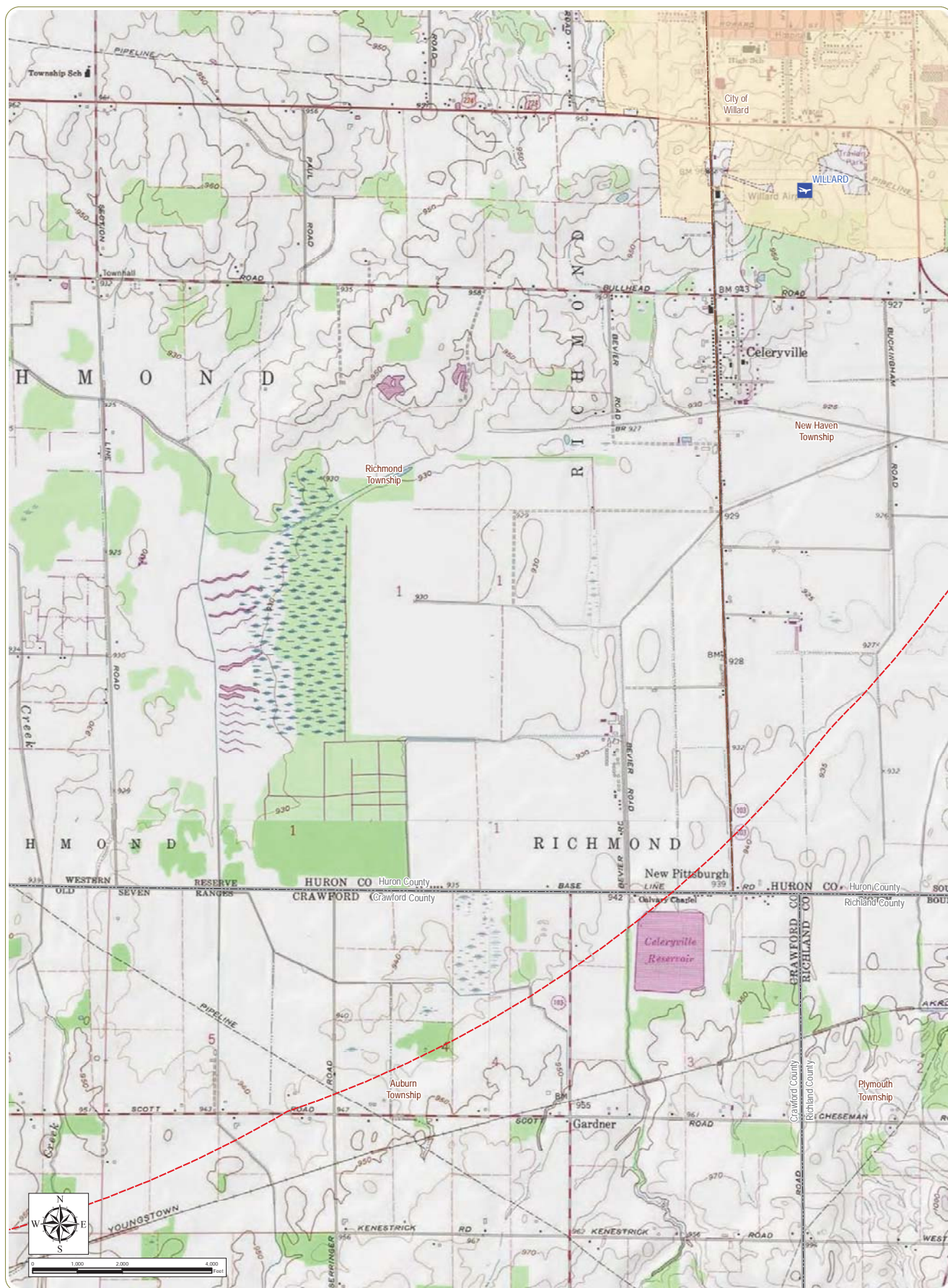
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- Project Boundary
- 5 Mile Study Area
- Township Boundary
- County Boundary



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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

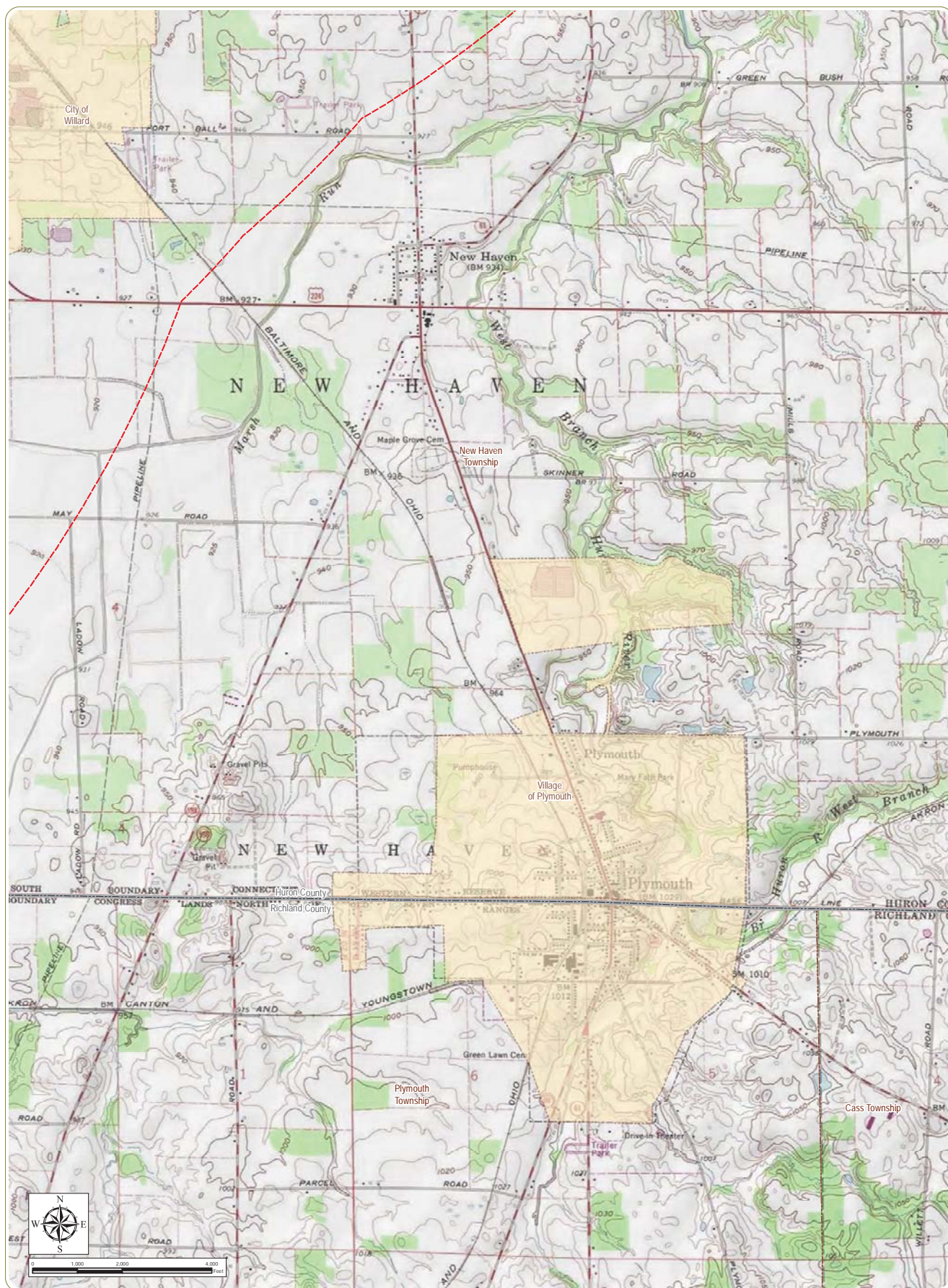
Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- Public Airport
- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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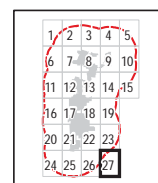
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 07-1: Aviation Facilities

Notes: 1. Basemap: ESRI ArcGIS Online "USA Topo Maps" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Aviation facility data obtained from Ohio state-managed GIS server. 5. Map Scale 1:24,000.

- 5 Mile Study Area
- City/Village Boundary
- Township Boundary
- County Boundary



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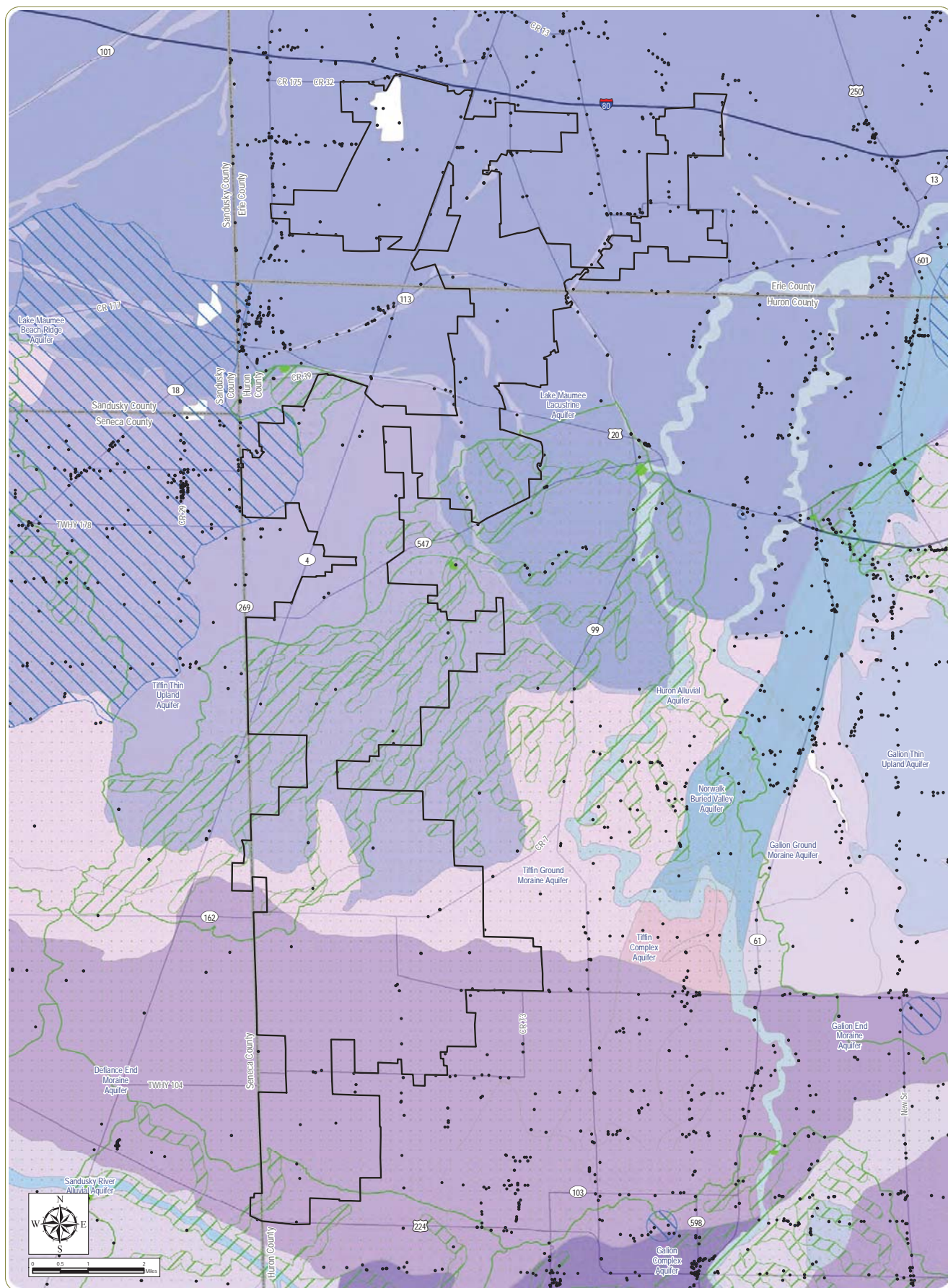


Figure 08-1

Drinking Water Resources

Christine M.T. Pirik (0029759)
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wvorys@dickinsonwright.com

Attorneys for Firelands Wind, LLC



Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-1: Drinking Water Resources

Notes: 1. Basemap: ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. Water well and aquifer data obtained from ODNR; protection and management areas obtained from Ohio EPA. 4. This is a color graphic. Reproduction in grayscale may misrepresent the data. 5. Map Scale 1:102,000.

- | | | |
|--------------------------------|-------------------------------|---------------------------------|
| • Water Well | Aquifer | Lake Maumee Beach Ridge Aquifer |
| ▬ Project Boundary | Defiance End Moraine Aquifer | Lake Maumee Lacustrine Aquifer |
| ▬ County Boundary | Galion Complex Aquifer | Norwalk Buried Valley Aquifer |
| ▬ Corridor Management Zone | Galion End Moraine Aquifer | Sandusky River Alluvial Aquifer |
| ▬ Emergency Management Zone | Galion Ground Moraine Aquifer | Tiffin Complex Aquifer |
| ▬ Source Water Area Watershed | Galion Thin Upland Aquifer | Tiffin Ground Moraine Aquifer |
| ▬ Source Water Protection Area | Huron Alluvial Aquifer | Tiffin Thin Upland Aquifer |

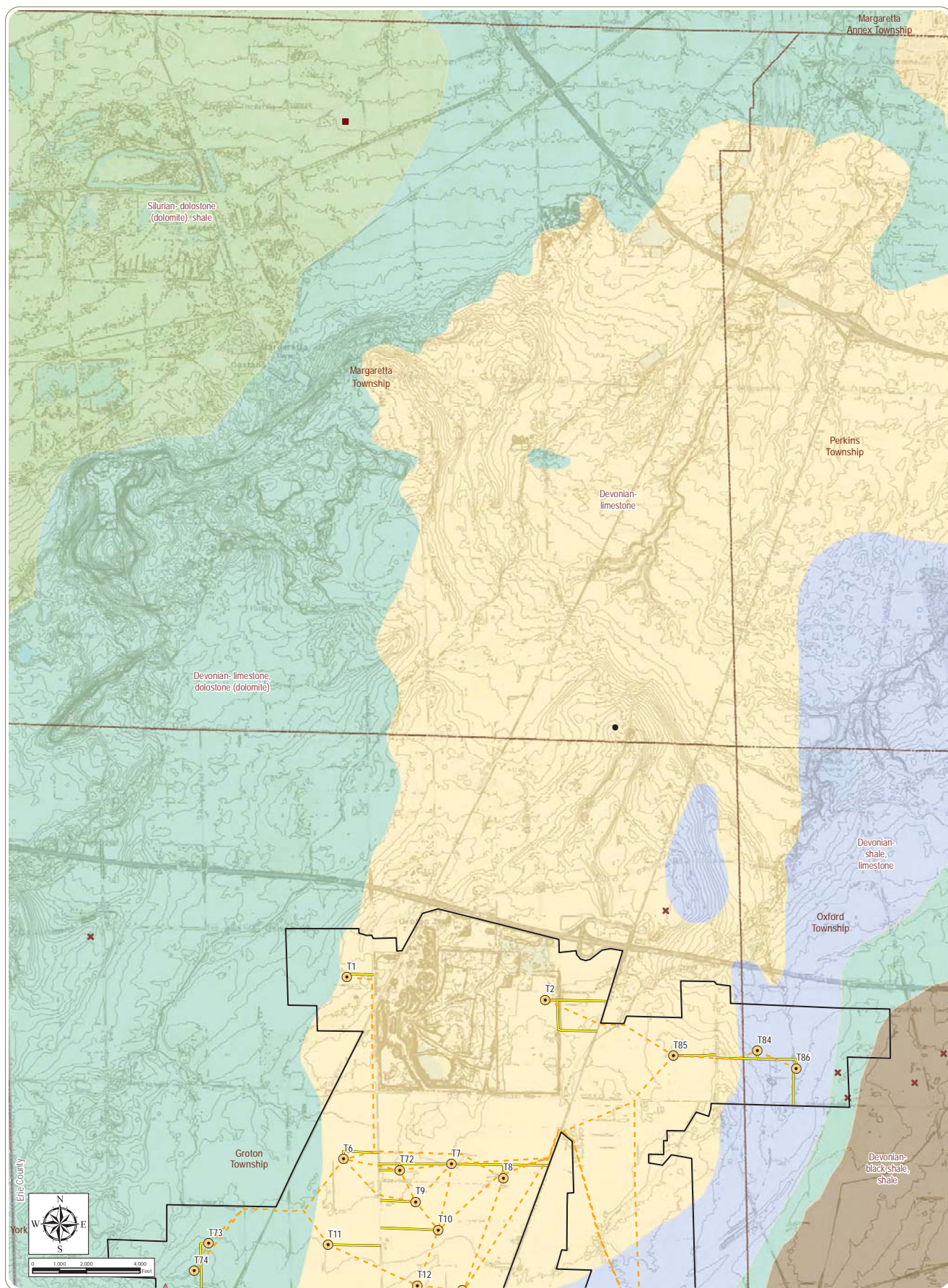


Figure 08-2

Existing Features

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Attorneys for Firelands Wind, LLC



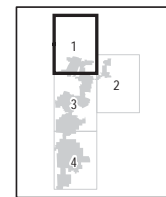
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-2: Existing Features

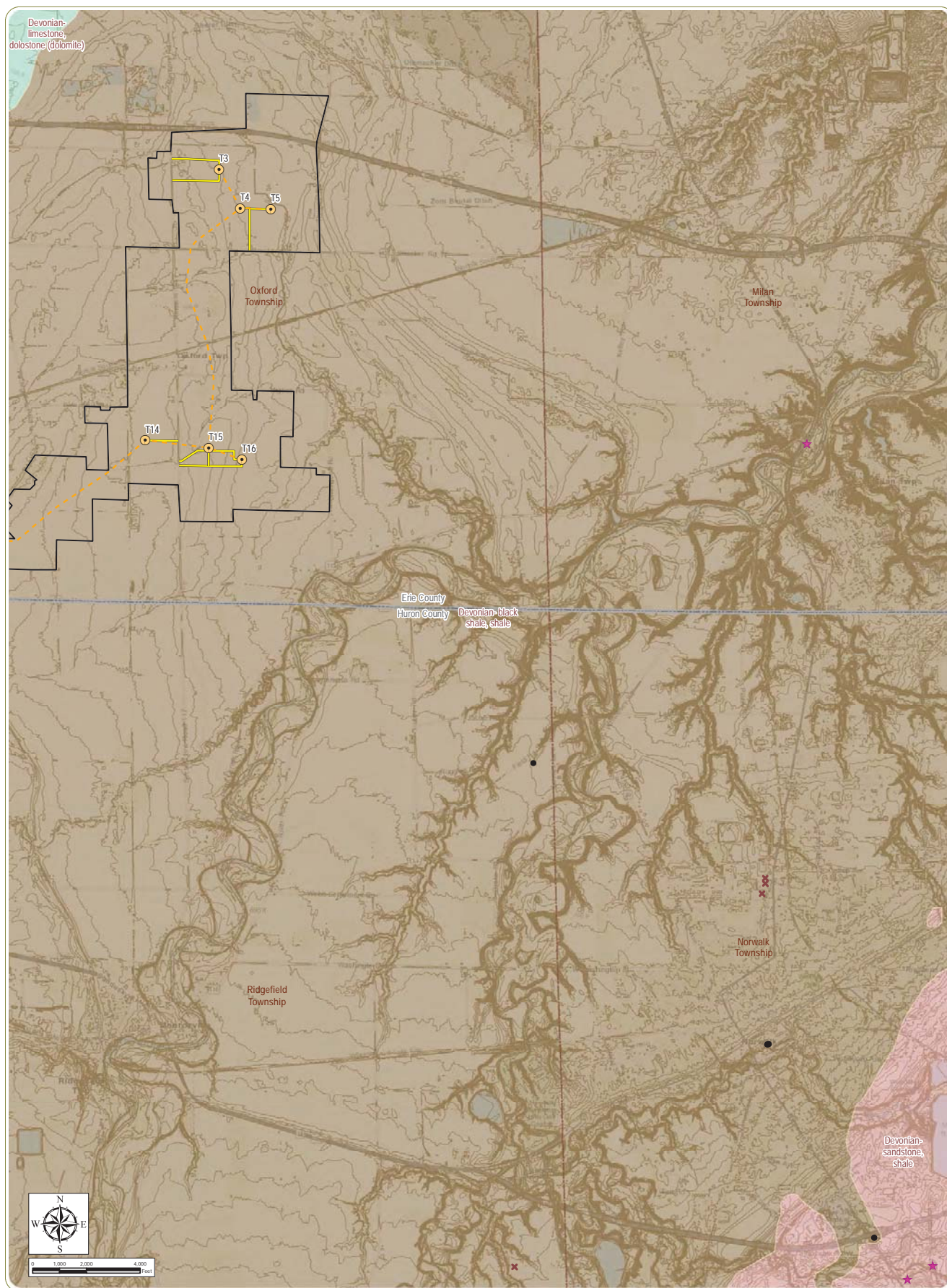
Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. Project components provided by Apex; oil and gas well data obtained from ODNR. 4. This is a color graphic. Reproduction in grayscale may misrepresent the data. 5. Map Scale 1:40,000.

- | | | |
|---------------------------|--------------------------------|----------------------------------|
| ● Wind Turbine | — Access Road | Bedrock Formation |
| ▲ Met Tower | - - - Collection Line | ■ Devonian- black shale, shale |
| ✕ Dry Hole | — 1 Meter Topographic Contours | ■ Devonian- limestone |
| ★ Gas Well | — Project Boundary | ■ Devonian- limestone, dolostone |
| ★ Gas and Oil Well | - - - Township Boundary | ■ Devonian- shale, limestone |
| ★ Oil Well | — County Boundary | ■ Silurian- dolostone, shale |
| ● Plugged Well | | |
| ● Permitted Well Location | | |
| ■ Unknown Status | | |



Sheet 1 of 4





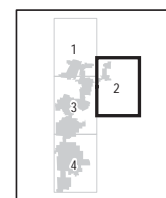
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-2: Existing Features

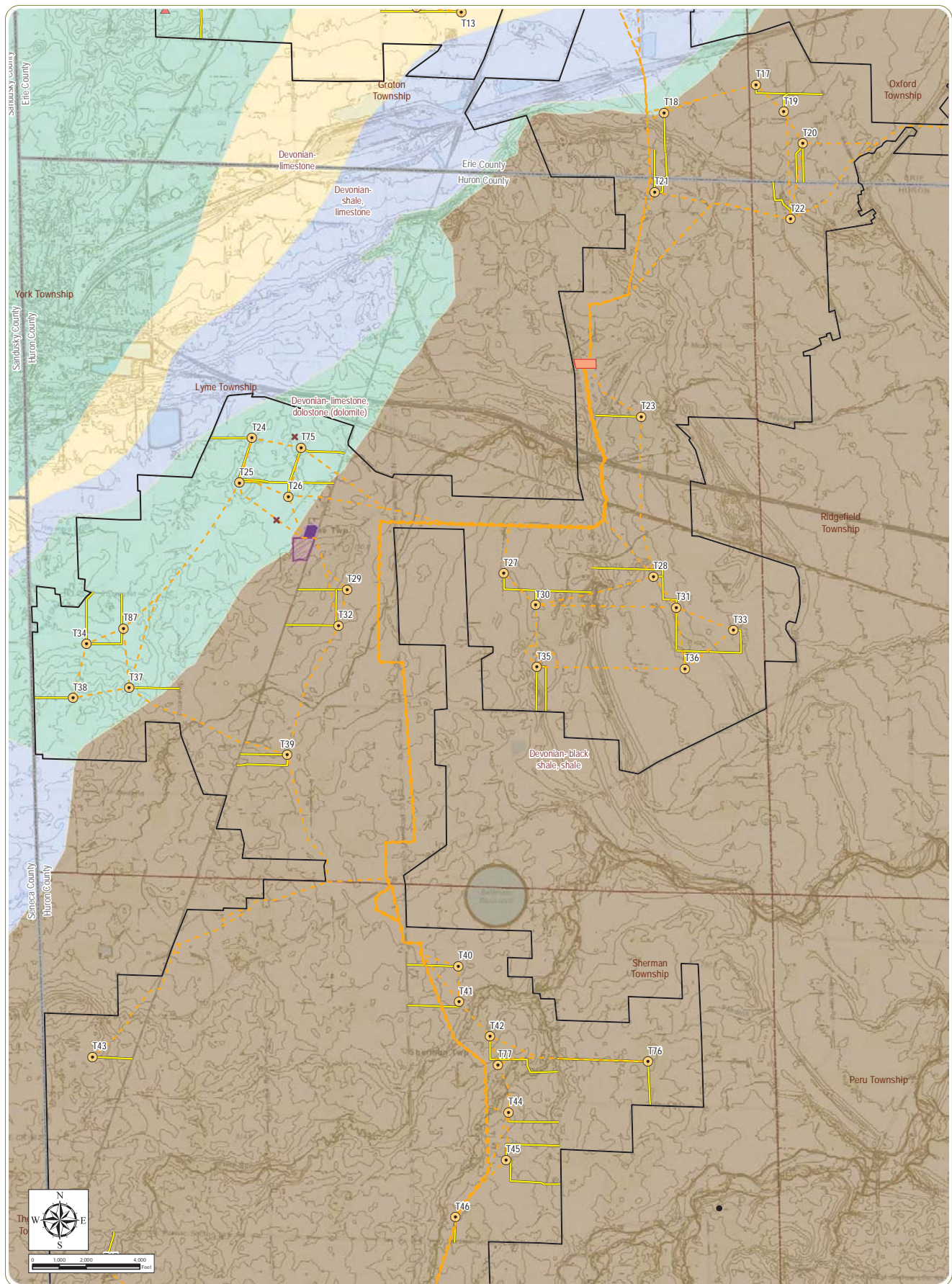
Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. Project components provided by Apex; oil and gas well data obtained from ODNR. 4. This is a color graphic. Reproduction in grayscale may misrepresent the data. 5. Map Scale 1:40,000.

- | | | |
|---------------------------|-------------------------|-------------------------------|
| ○ Wind Turbine | — Access Road | Bedrock Formation |
| ✕ Dry Hole | - - - Collection Line | Devonian- black shale, shale |
| ★ Gas Well | — 1 Meter Topographic | Devonian- limestone, dolomite |
| ★ Gas and Oil Well | — Contours | Devonian, sandstone, shale |
| ★ Oil Well | ▭ Project Boundary | |
| ● Plugged Well | - - - Township Boundary | |
| ■ Permitted Well Location | ▭ County Boundary | |
| ■ Unknown Status | | |



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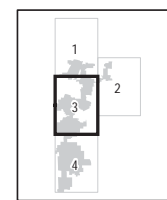
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-2: Existing Features

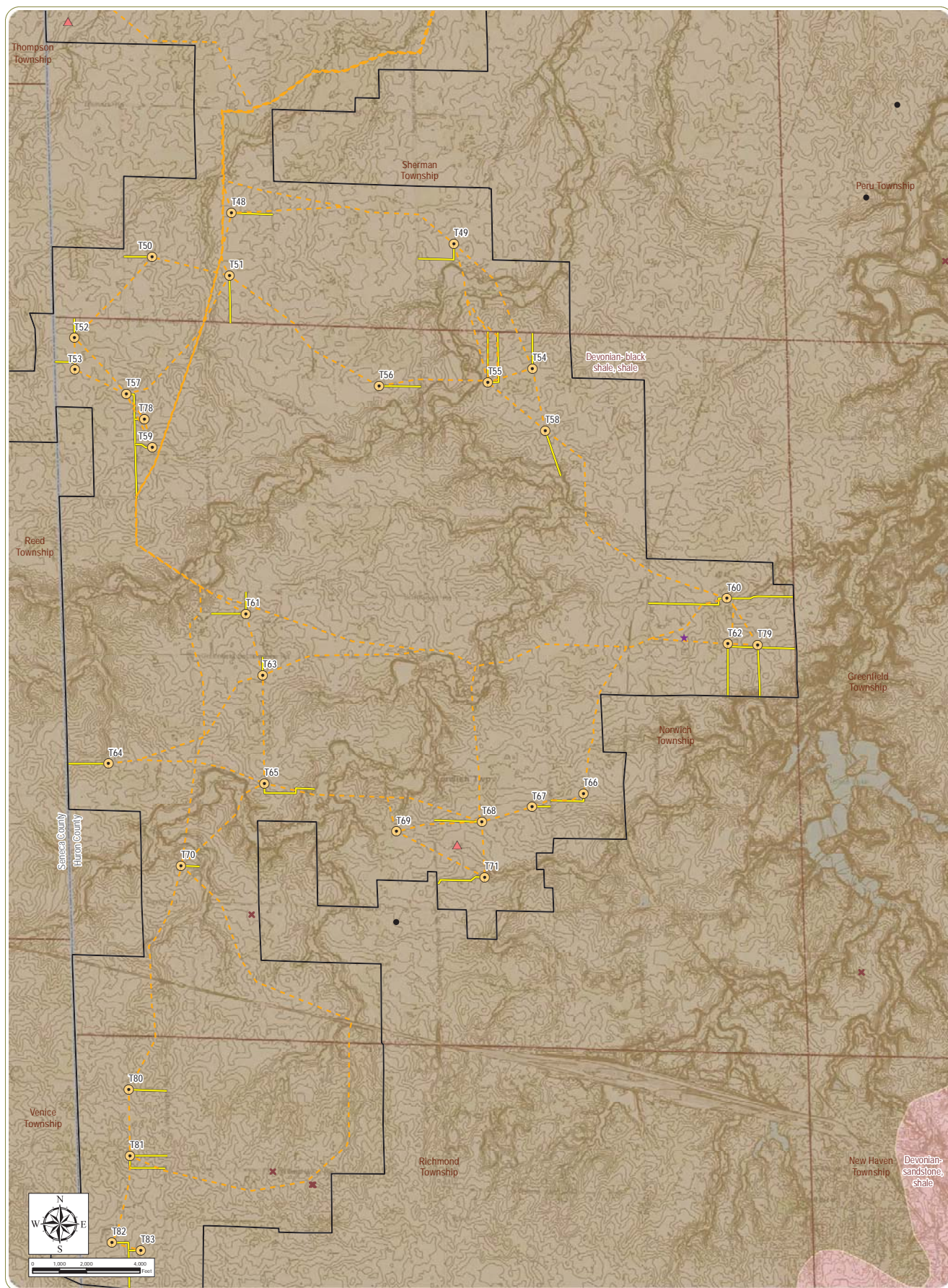
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- | | | |
|--|---|--|
| <ul style="list-style-type: none"> Wind Turbine Met Tower Dry Hole Gas Well Gas and Oil Well Oil Well Plugged Well Permitted Well Location Unknown Status | <ul style="list-style-type: none"> Access Road Collection Line 1 Meter Topographic Contours Collection Substation Laydown Yard O&M Building Project Boundary Township Boundary County Boundary | <ul style="list-style-type: none"> Bedrock Formation Devonian- black shale, shale Devonian- limestone Devonian- limestone, dolostone Devonian- shale, limestone |
|--|---|--|



Sheet 3 of 4





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-2: Existing Features

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. Project components provided by Apex; oil and gas well data obtained from ODNR. 4. This is a color graphic. Reproduction in grayscale may misrepresent the data. 5. Map Scale 1:40,000.

- | | | |
|---------------------------|--------------------------------|--------------------------------|
| ● Wind Turbine | — Access Road | Bedrock Formation |
| ▲ Met Tower | - - - Collection Line | ■ Devonian- black shale, shale |
| ✕ Dry Hole | — 1 Meter Topographic Contours | ■ Devonian, sandstone, shale |
| ★ Gas Well | ▭ Project Boundary | |
| ★ Gas and Oil Well | - - - Township Boundary | |
| ★ Oil Well | ▭ County Boundary | |
| ● Plugged Well | | |
| ■ Permitted Well Location | | |
| ■ Unknown Status | | |



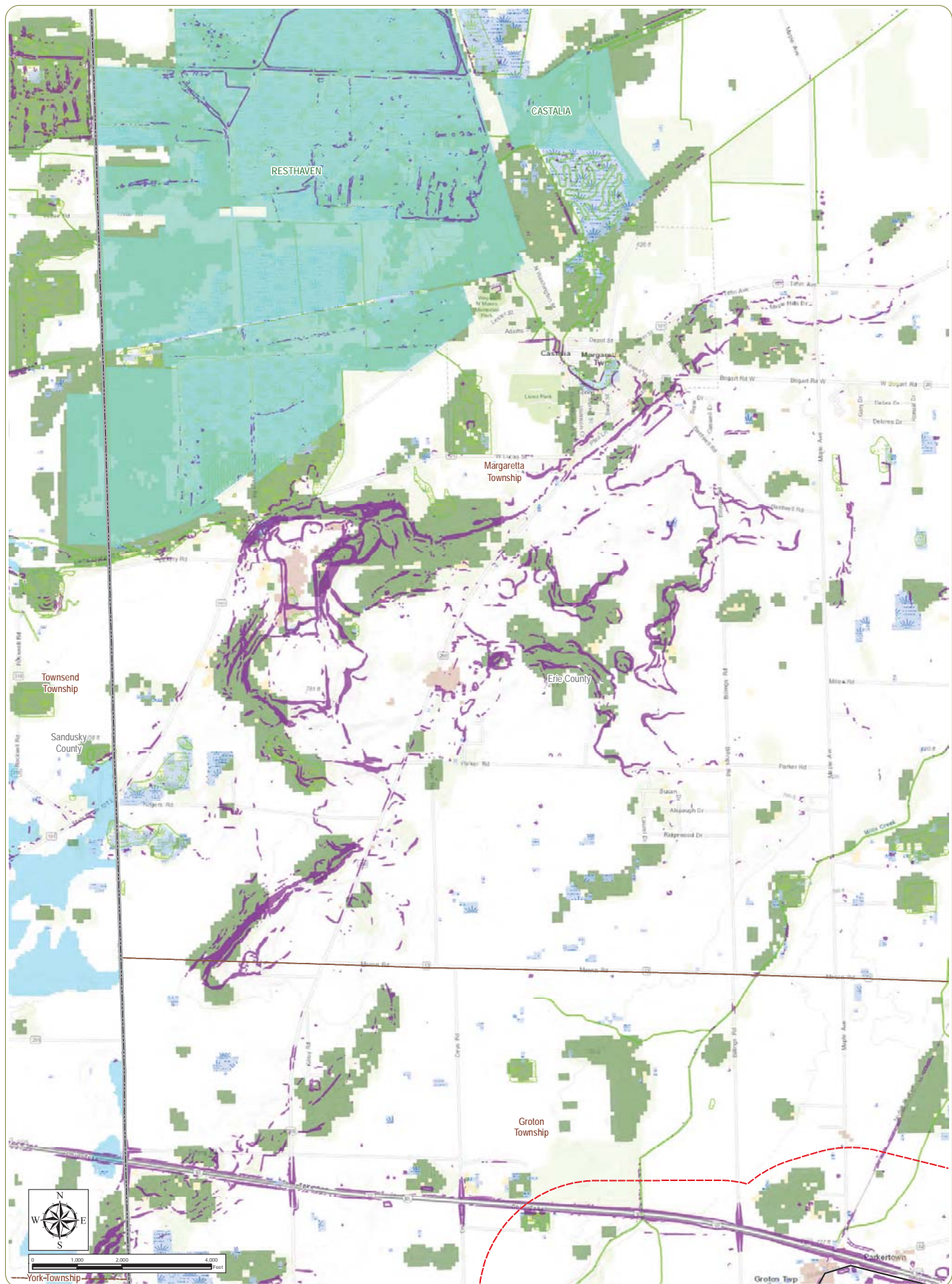
Sheet 4 of 4



Figure 08-3 Ecological Features

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Phone: (614) 591-5461
Email: cpirik@dickinsonwright.com
todonnell@dickinsonwright.com
wvorys@dickinsonwright.com

Attorneys for Firelands Wind, LLC

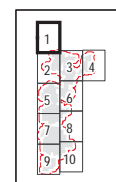
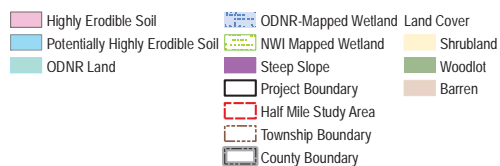


Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

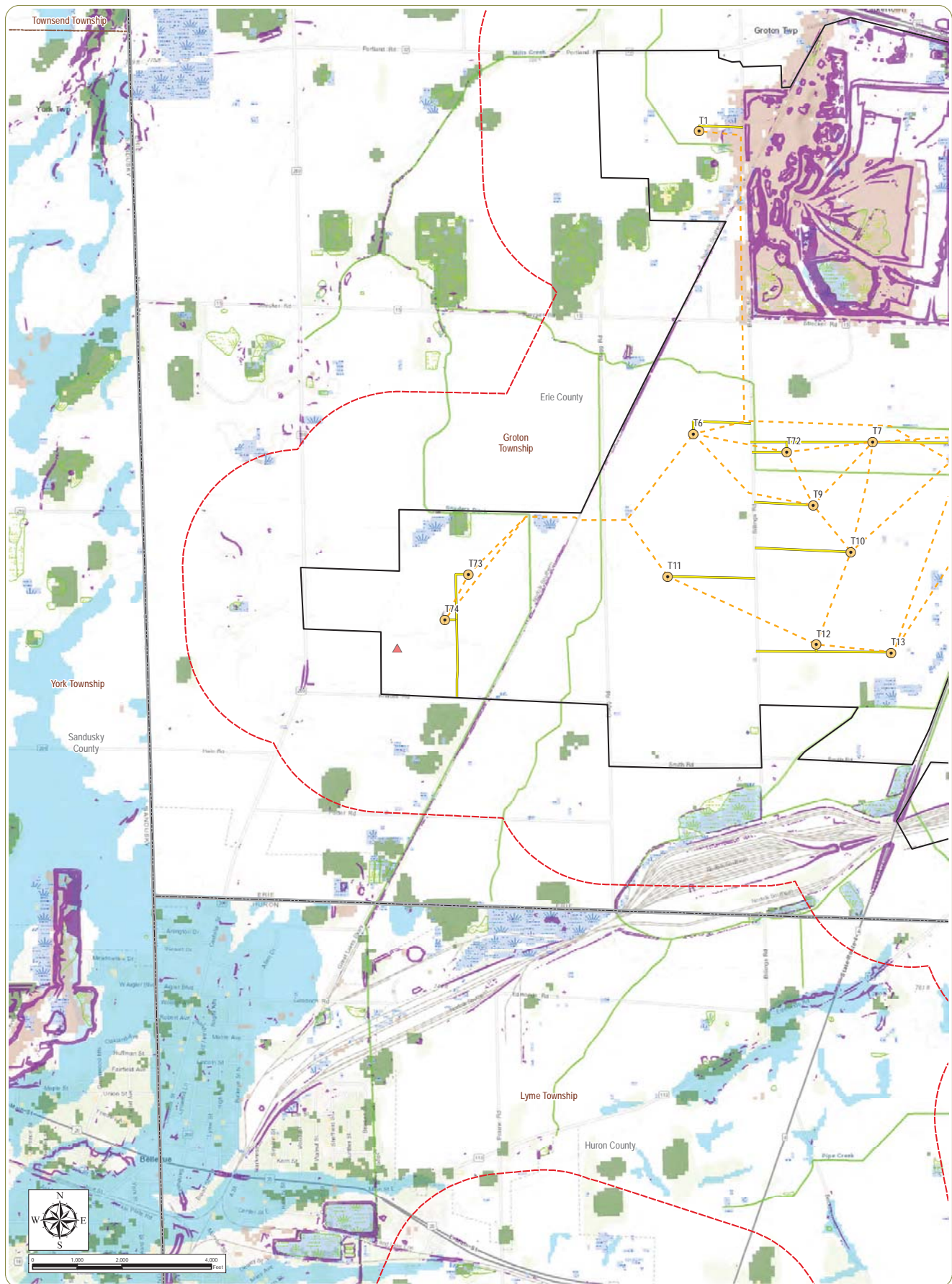
Figure 08-3: Ecological Features

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; wetland and land cover data obtained from ODNR; and slopes calculated by EDR. 5. Map Scale 1:24,000.



Sheet 1 of 10





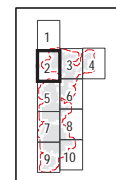
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-3: Ecological Features

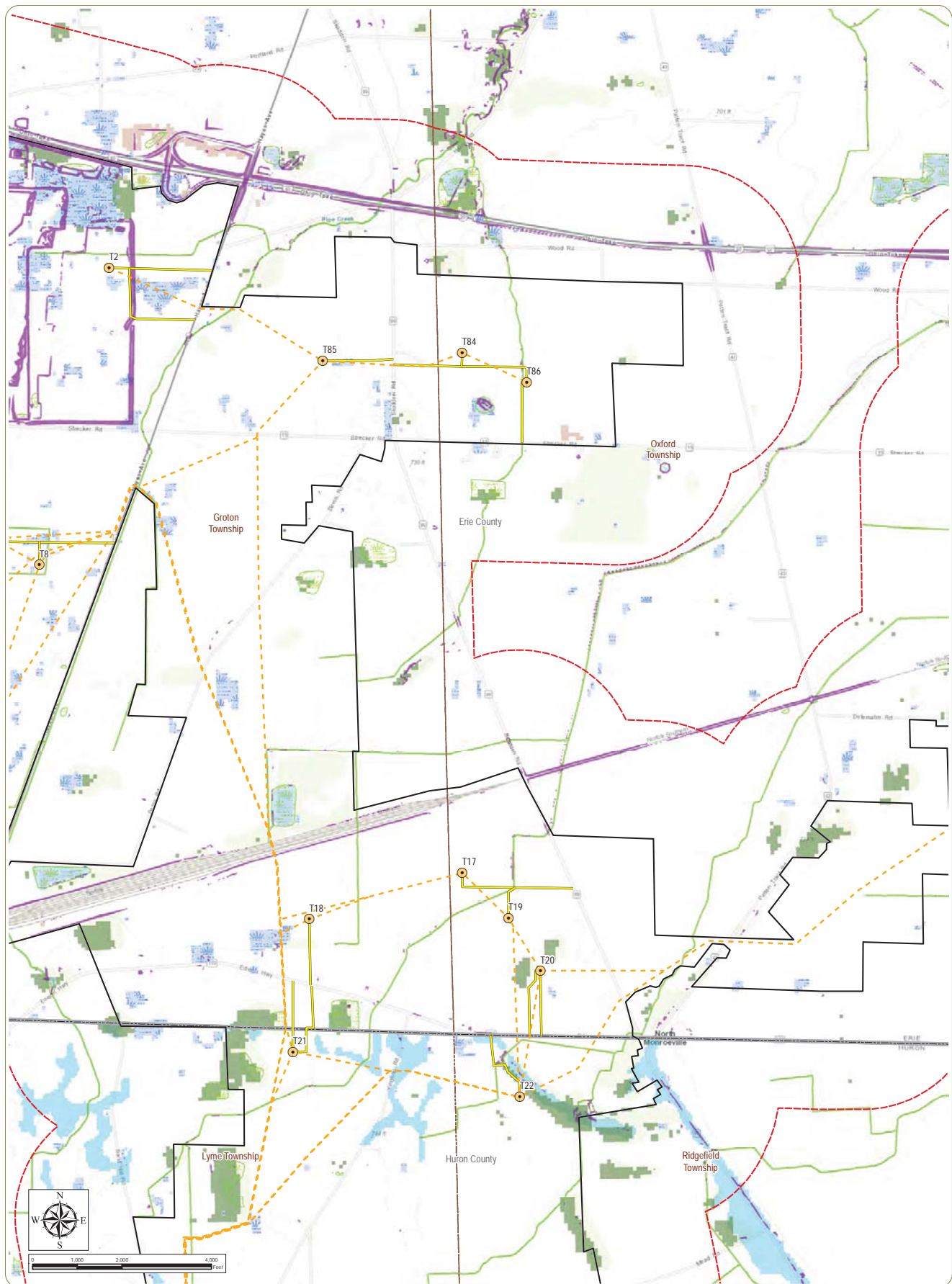
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- Wind Turbine
- ▲ Met Tower
- Access Road
- - - Collection Line
- Highly Erodible Soil
- Potentially Highly Erodible Soil
- ODNR-Mapped Wetland
- NWI Mapped Wetland
- Steep Slope
- Project Boundary
- Half Mile Study Area
- Township Boundary
- County Boundary
- Shrubland
- Woodlot
- Barren



Sheet 2 of 10



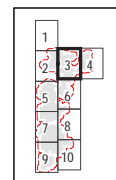
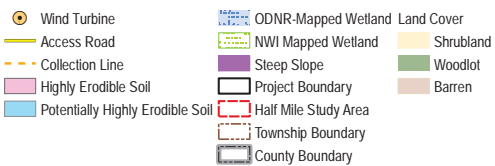


Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

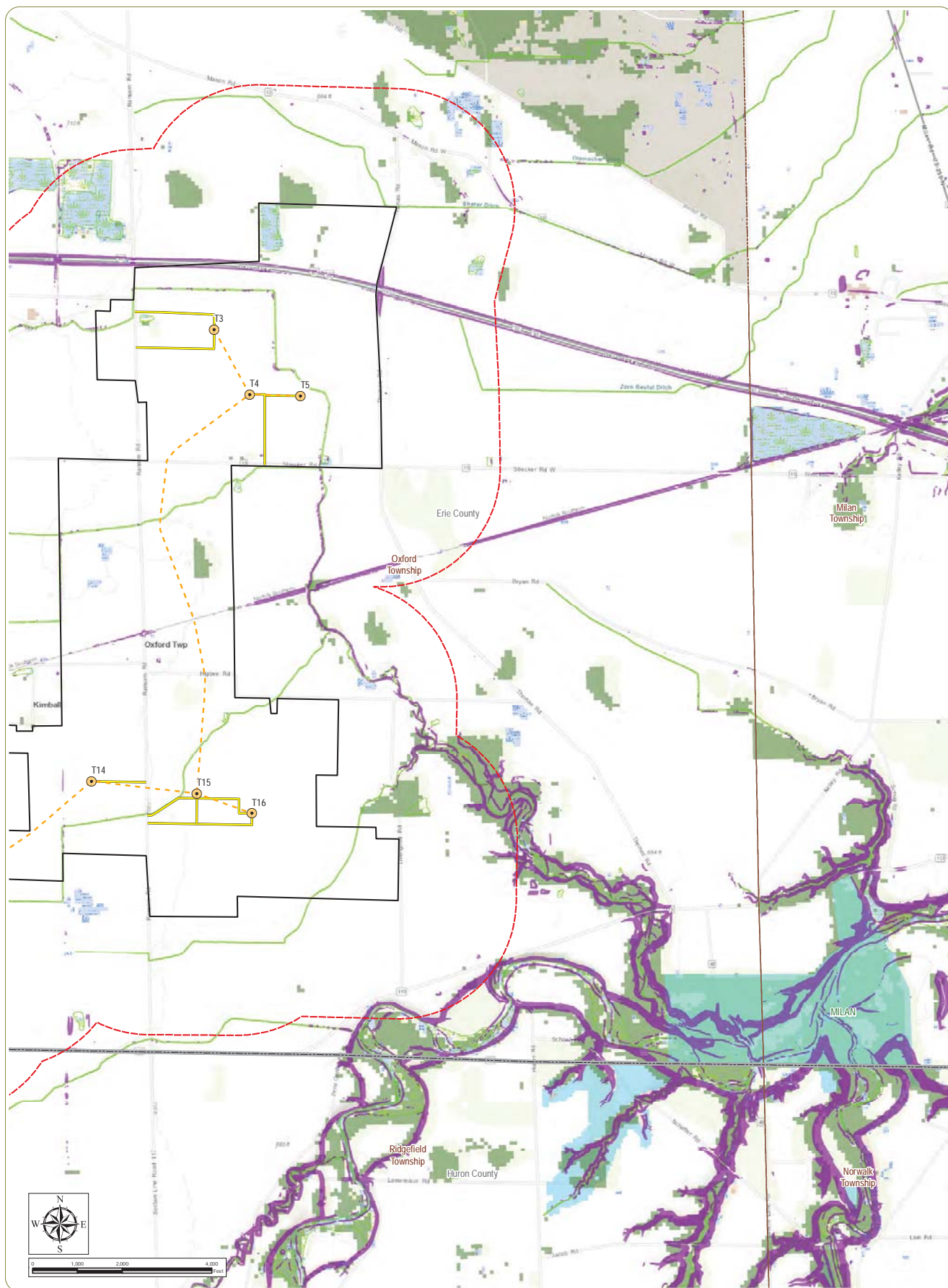
Figure 08-3: Ecological Features

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; wetland and land cover data obtained from ODNR; and slopes calculated by EDR. 5. Map Scale 1:24,000.



Sheet 3 of 10





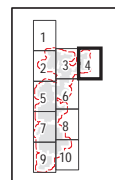
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-3: Ecological Features

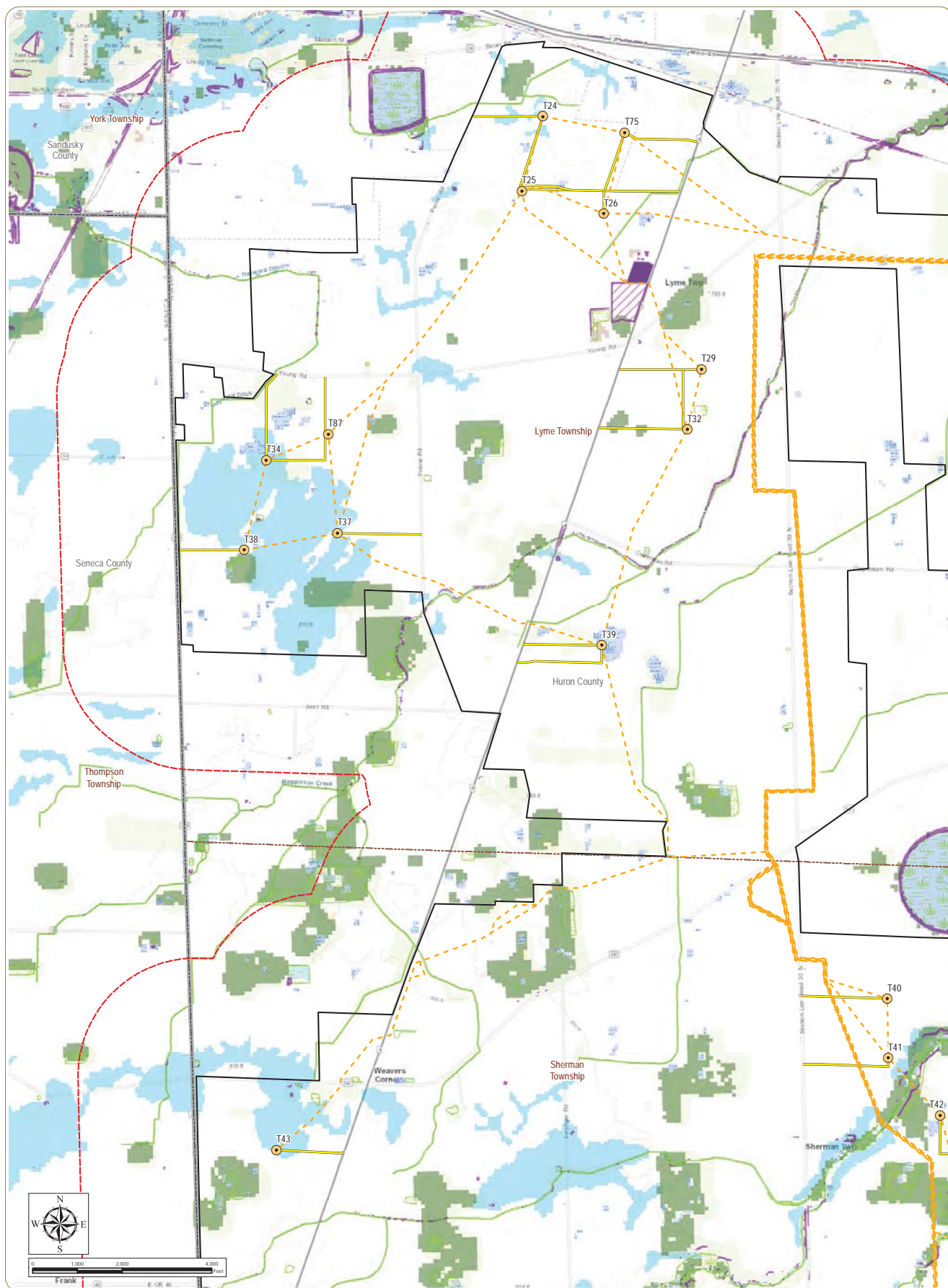
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- Wind Turbine
- Access Road
- Collection Line
- Highly Erodible Soil
- Potentially Highly Erodible Soil
- ODNR Land
- ODNR-Mapped Wetland
- NWI Mapped Wetland
- Steep Slope
- Project Boundary
- Half Mile Study Area
- Township Boundary
- County Boundary
- Land Cover
- Shrubland
- Woodlot
- Barren



Sheet 4 of 10





Emerson Creek Wind Farm

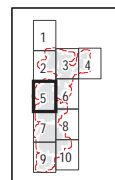
Erie, Huron, and Seneca Counties, Ohio

Figure 08-3: Ecological Features

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; wetland and land cover data obtained from ODNR; and slopes calculated by EDR. 5. Map Scale 1:24,000.

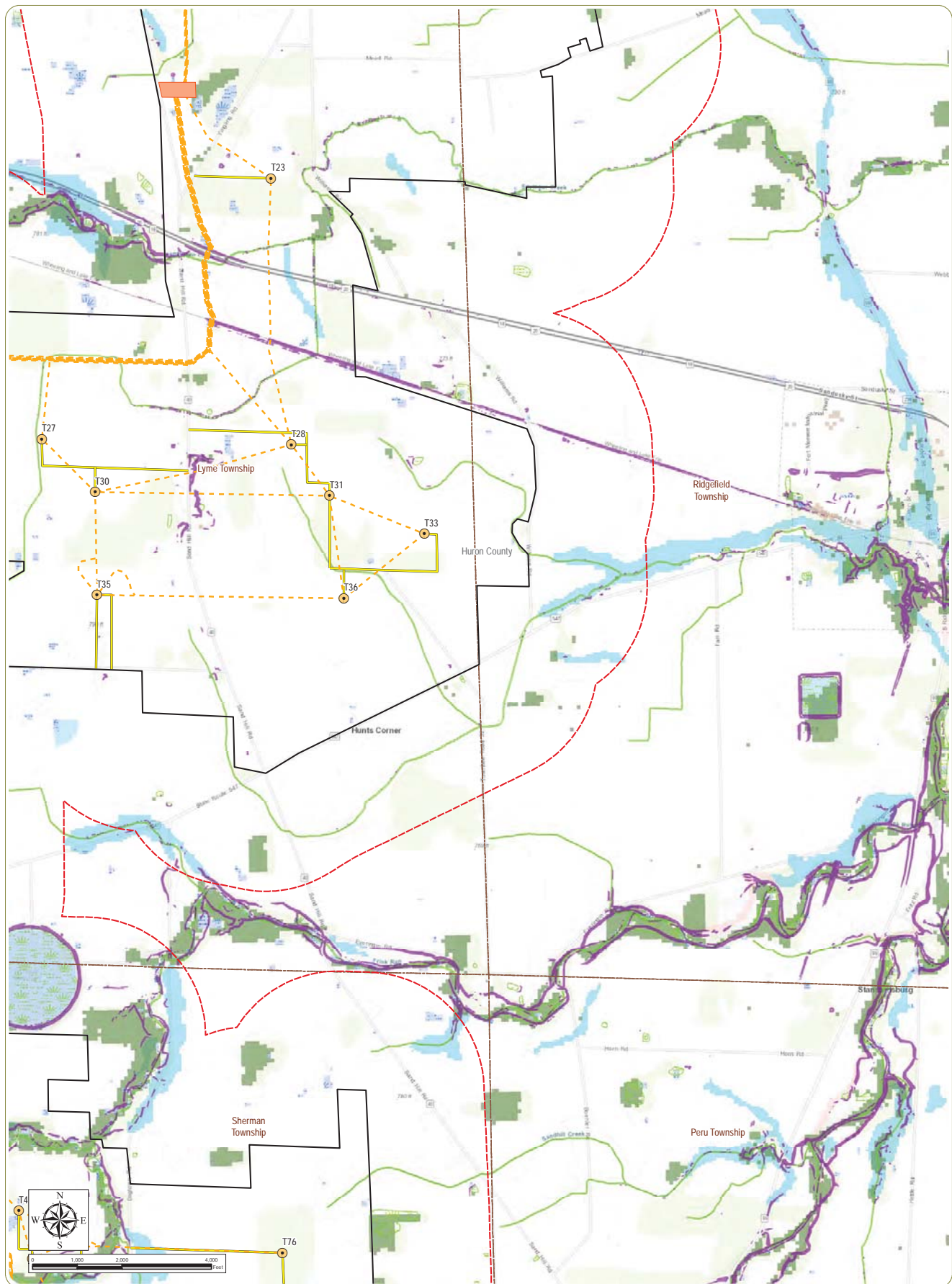
- Wind Turbine
- Access Road
- Collection Line
- Laydown Yard
- O&M Building
- Highly Erodible Soil
- Potentially Highly Erodible Soil
- NWI Mapped Wetland
- Steep Slope
- Project Boundary

- Land Cover
- Shrubland
- Woodlot
- Barren



Sheet 5 of 10





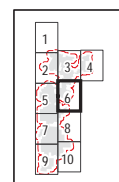
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-3: Ecological Features

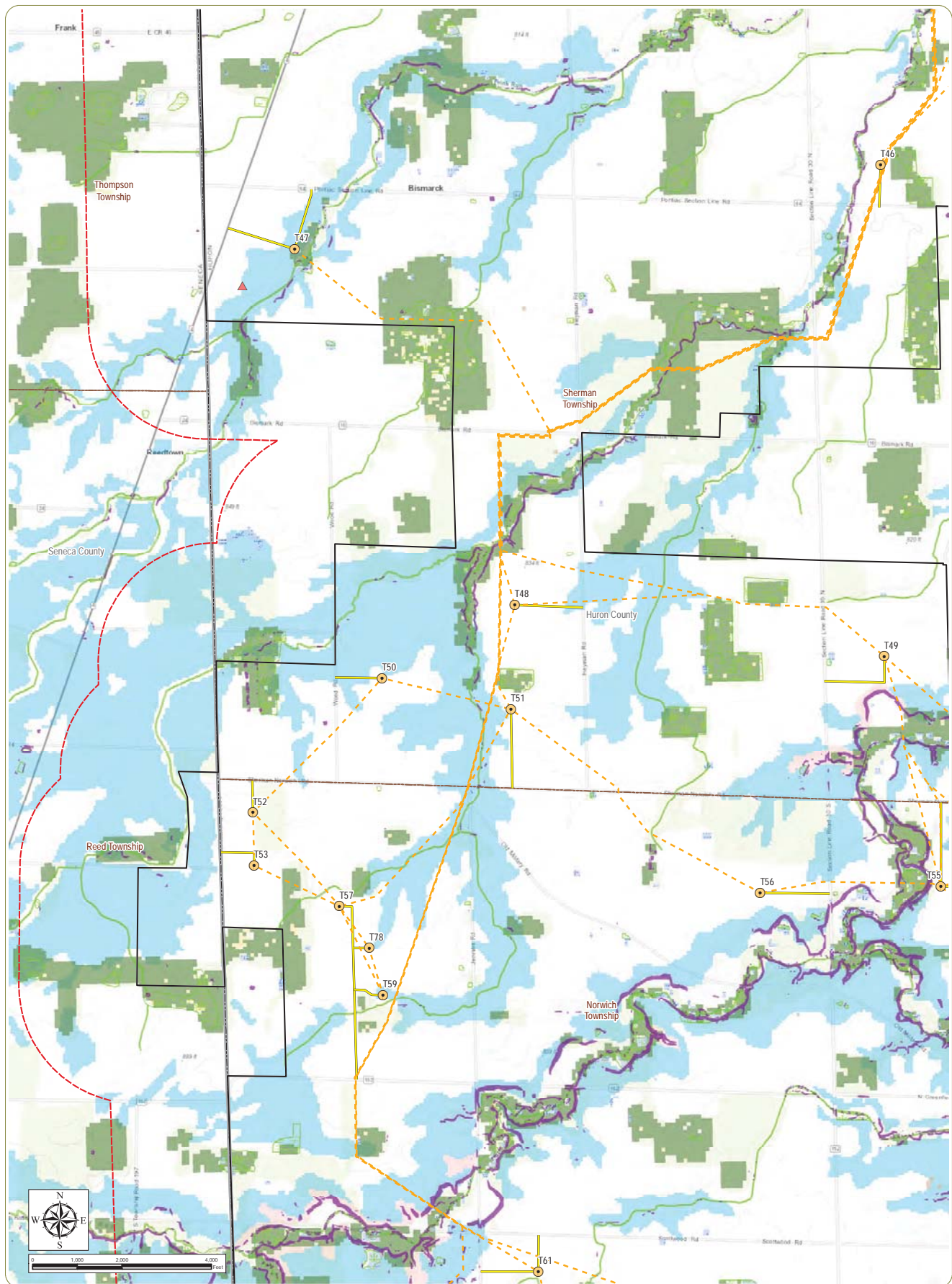
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- Wind Turbine
- Access Road
- Collection Line
- Collection Substation
- Highly Erodible Soil
- Potentially Highly Erodible Soil
- NWI Mapped Wetland
- Steep Slope
- Project Boundary
- Half Mile Study Area
- Shrubland
- Woodlot
- Barren



Sheet 6 of 10





Emerson Creek Wind Farm

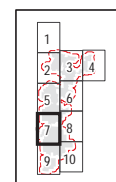
Erie, Huron, and Seneca Counties, Ohio

Figure 08-3: Ecological Features

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; wetland and land cover data obtained from ODNR; and slopes calculated by EDR. 5. Map Scale 1:24,000.

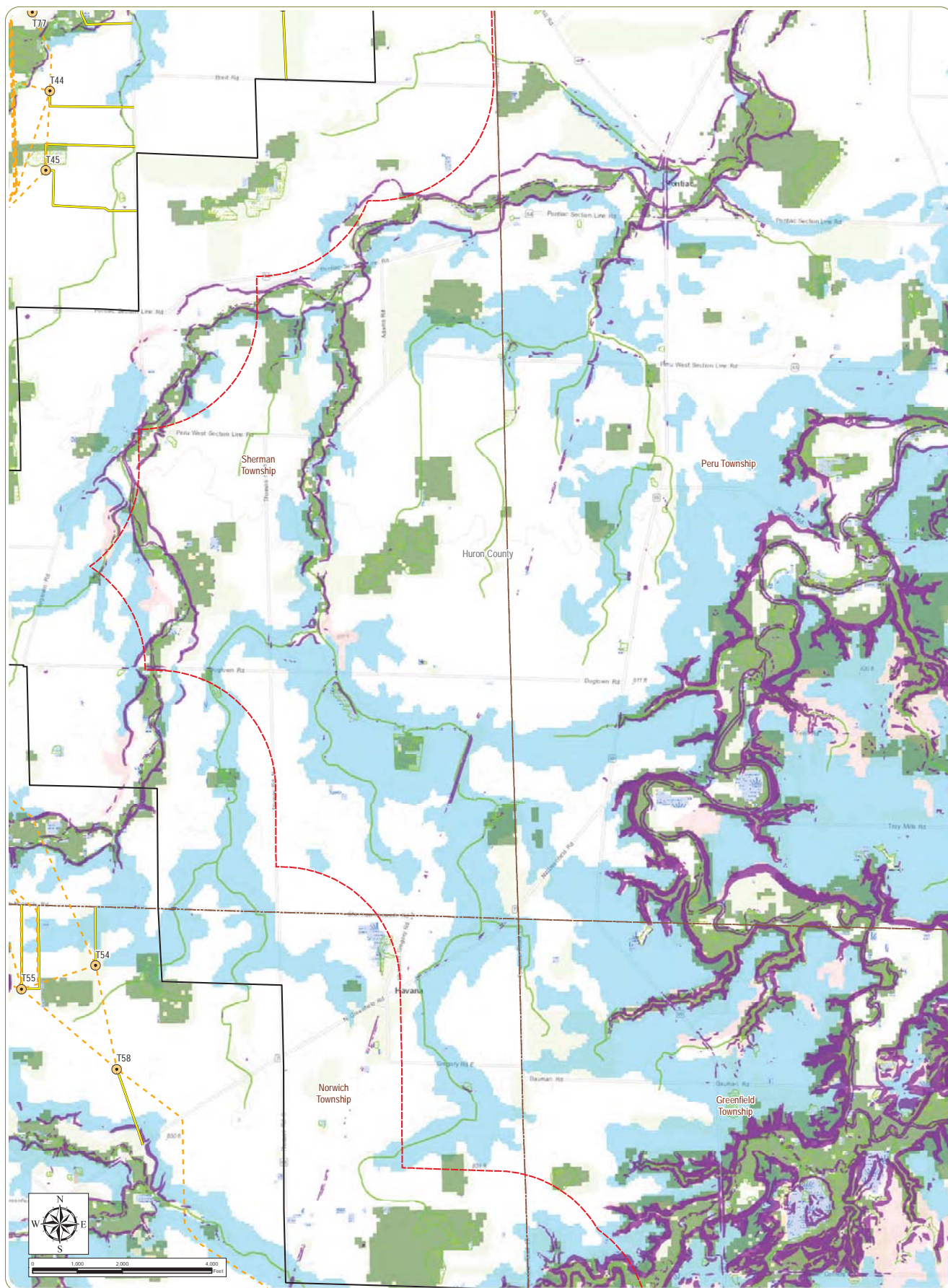
- Wind Turbine
- ▲ Met Tower
- Access Road
- Collection Line
- Highly Erodible Soil
- Potentially Highly Erodible Soil
- NWI Mapped Wetland
- Steep Slope
- Project Boundary
- Half Mile Study Area

- Shrubland
- Woodlot
- Barren



Sheet 7 of 10





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-3: Ecological Features

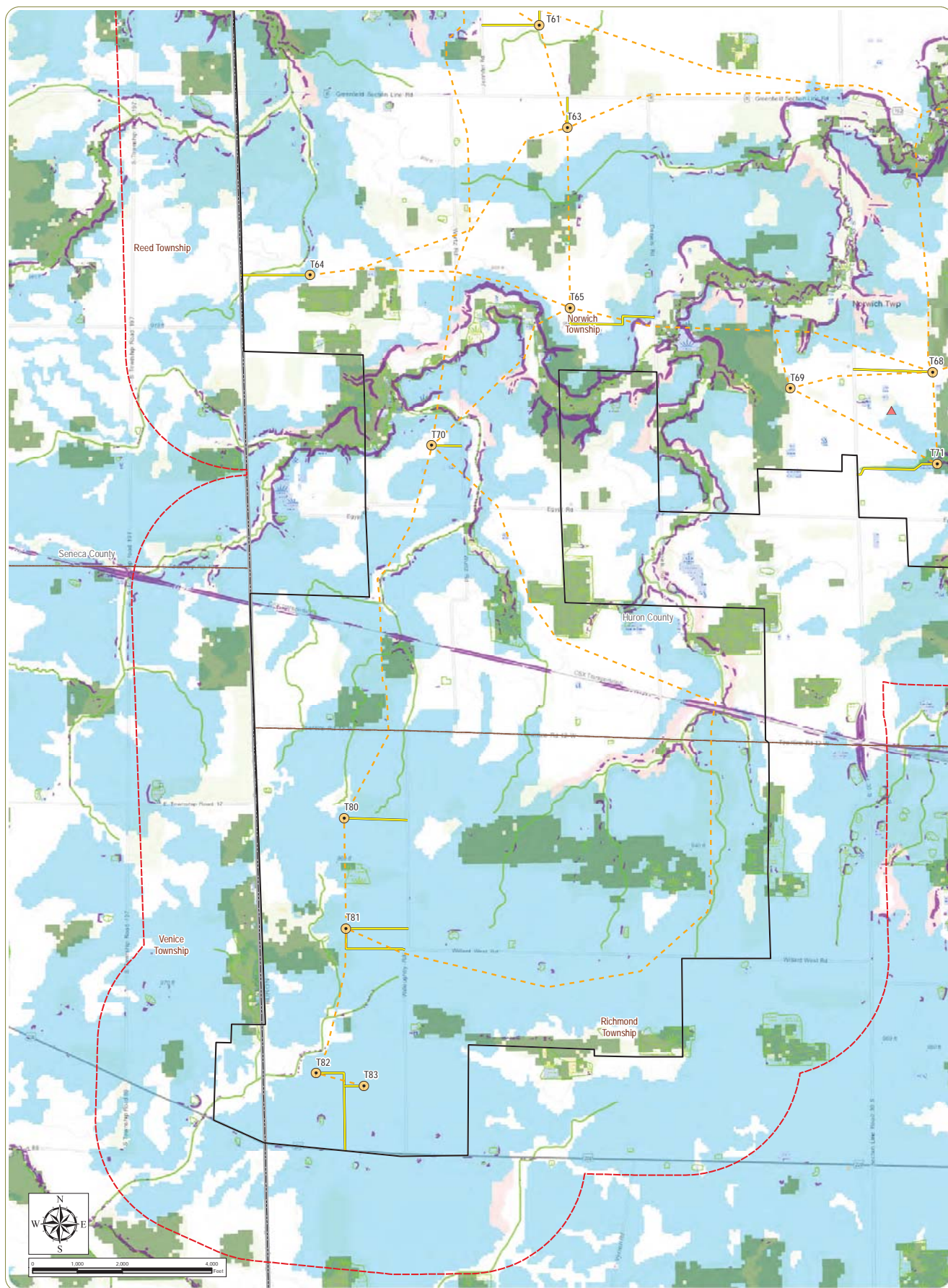
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- Wind Turbine
- Access Road
- Collection Line
- Highly Erodible Soil
- Potentially Highly Erodible Soil
- NWI Mapped Wetland
- Steep Slope
- Project Boundary
- Half Mile Study Area
- Township Boundary
- Land Cover: Shrubland
- Land Cover: Woodlot
- Land Cover: Barren



Sheet 8 of 10





Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-3: Ecological Features

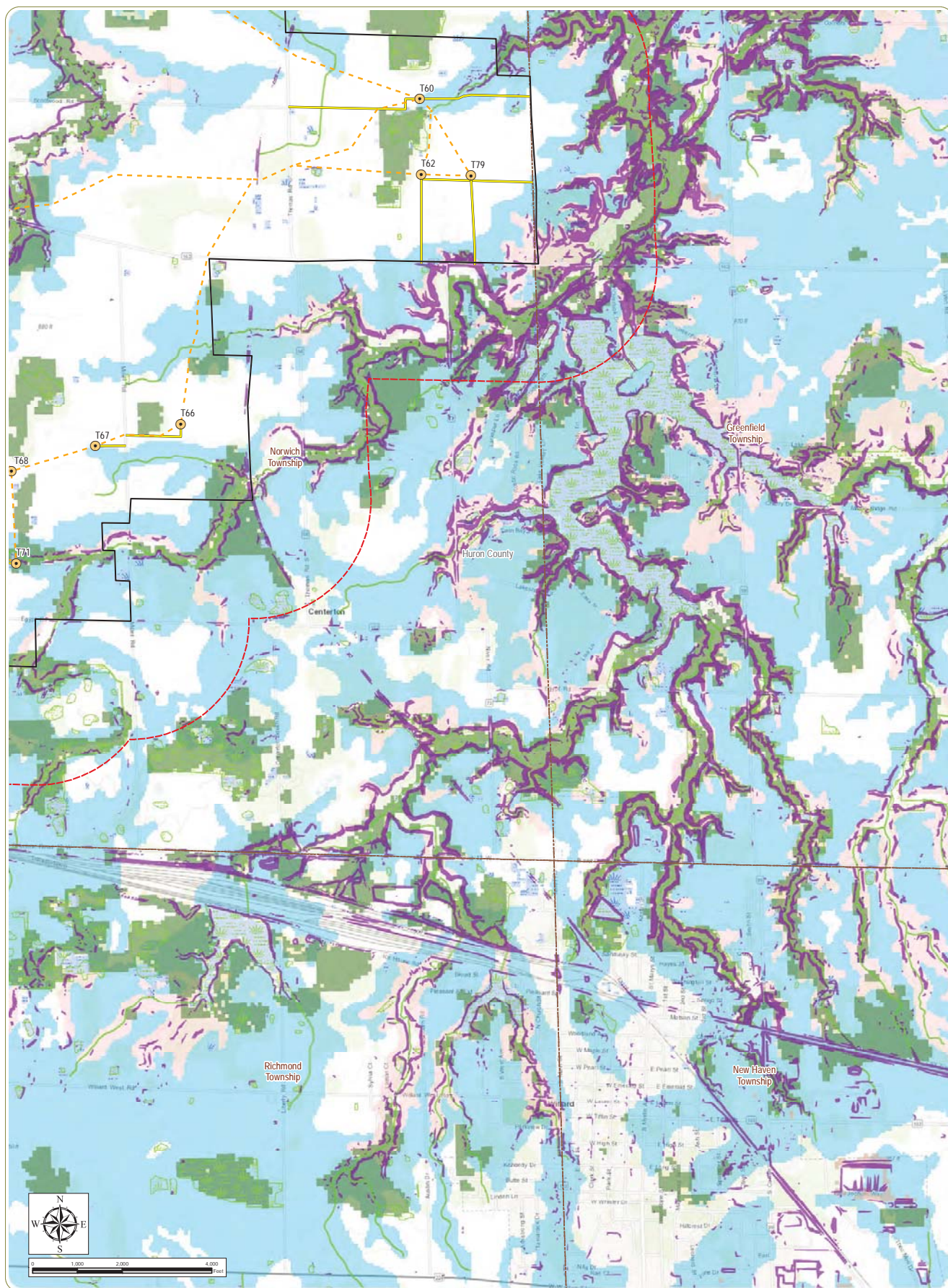
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- Wind Turbine
 - ▲ Met Tower
 - Access Road
 - - - Collection Line
 - Highly Erodible Soil
 - Potentially Highly Erodible Soil
 - NWI Mapped Wetland
 - Steep Slope
 - Project Boundary
 - Half Mile Study Area
- Land Cover**
 - Shrubland
 - Woodlot
 - Barren



Sheet 9 of 10





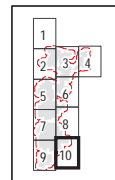
Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-3: Ecological Features

Notes: 1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; wetland and land cover data obtained from ODNR; and slopes calculated by EDR. 5. Map Scale 1:24,000.

- Wind Turbine
- Access Road
- Collection Line
- Highly Erodible Soil
- Potentially Highly Erodible Soil
- NWI Mapped Wetland
- Steep Slope
- Project Boundary
- Half Mile Study Area
- Township Boundary
- Land Cover: Shrubland
- Land Cover: Woodlot
- Land Cover: Barren



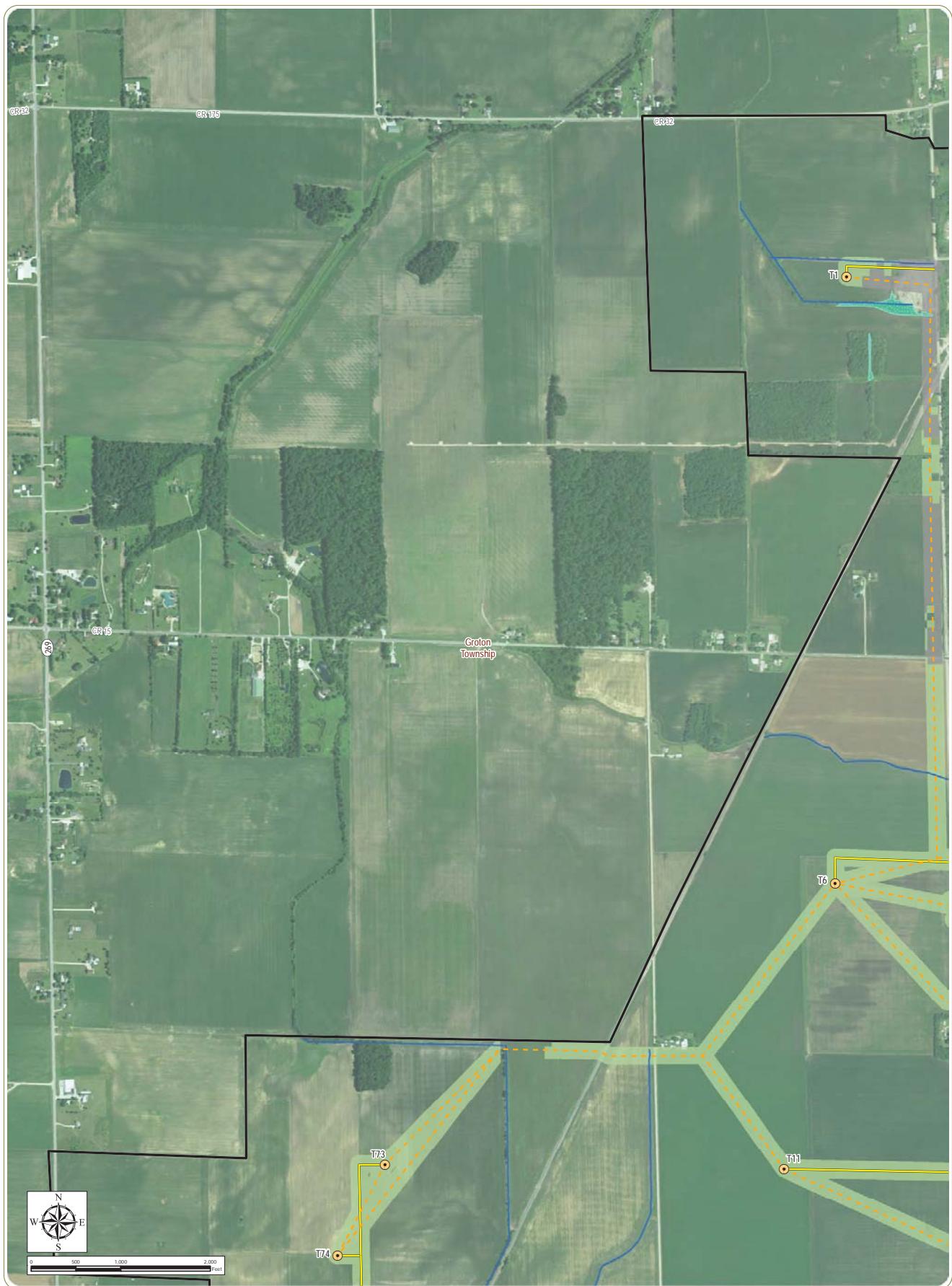
Sheet 10 of 10



Figure 08-4 Delineated Resources

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wvorys@dickinsonwright.com

Attorneys for Firelands Wind, LLC



Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Barren

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

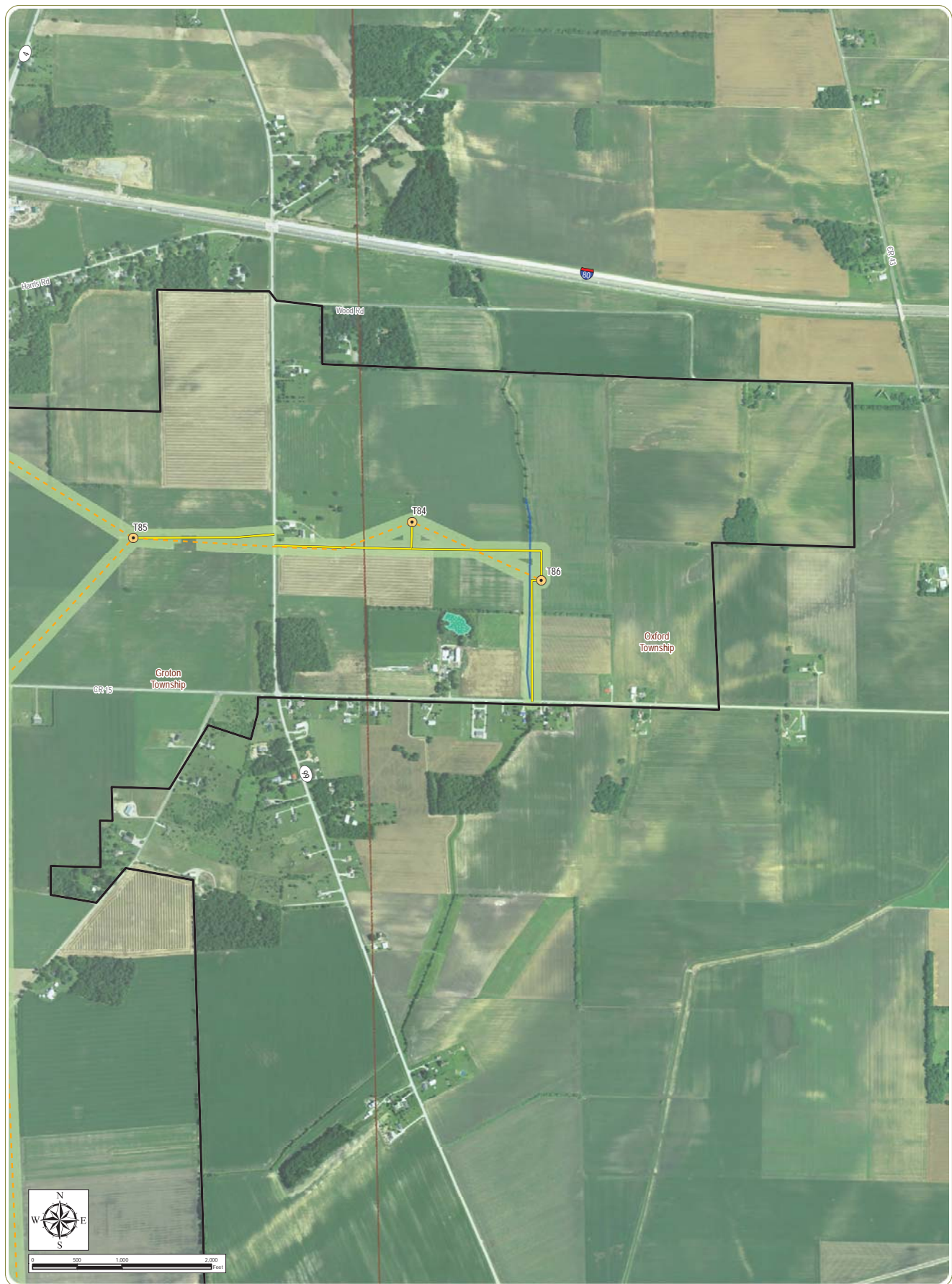
Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Barren
- Scrub/Shrub

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

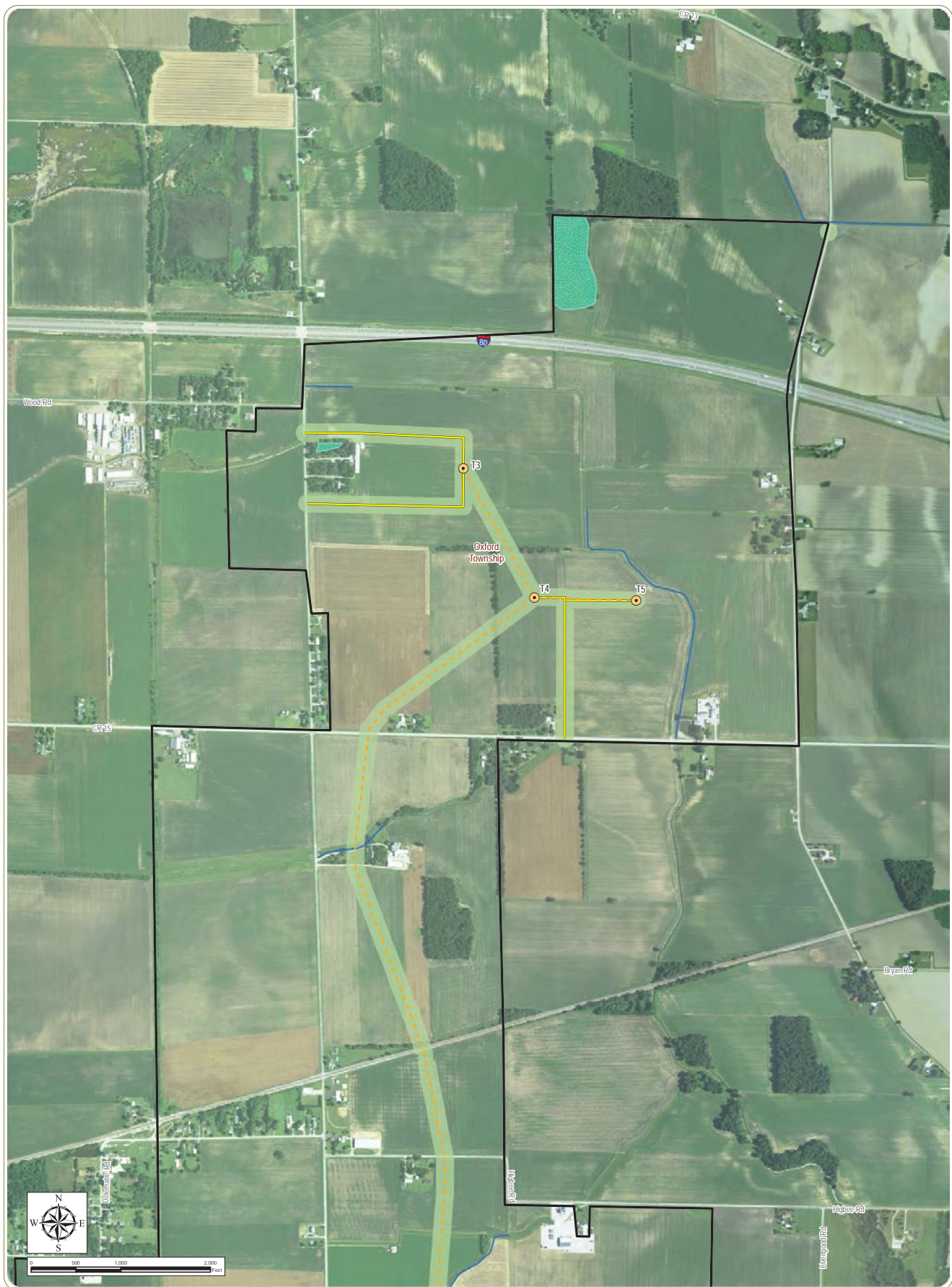
Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

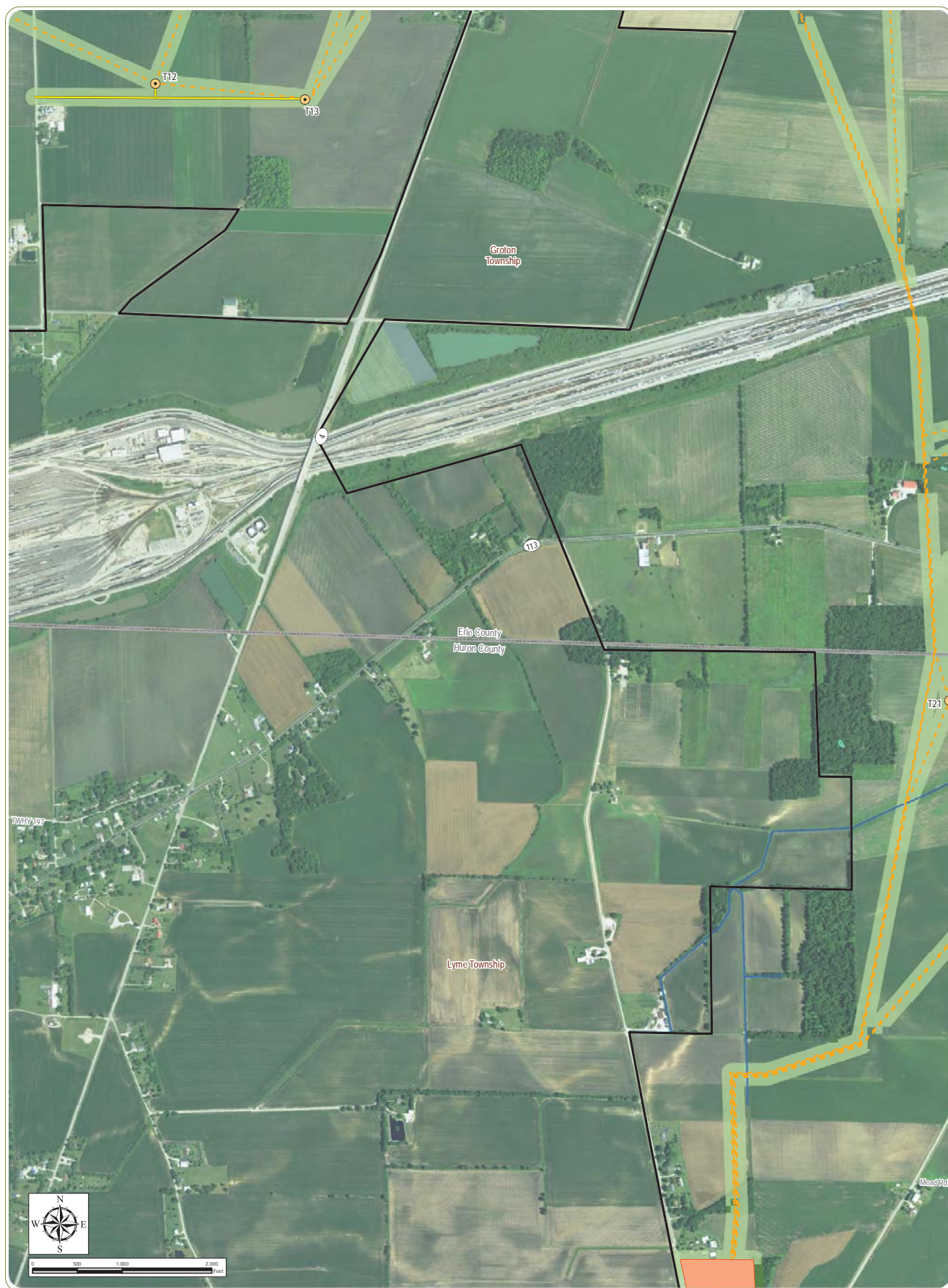
Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Wind Turbine
- ▲ Met Tower
- Access Road
- - - Collection Line
- Delineated Stream
- Project Boundary
- City/Village Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

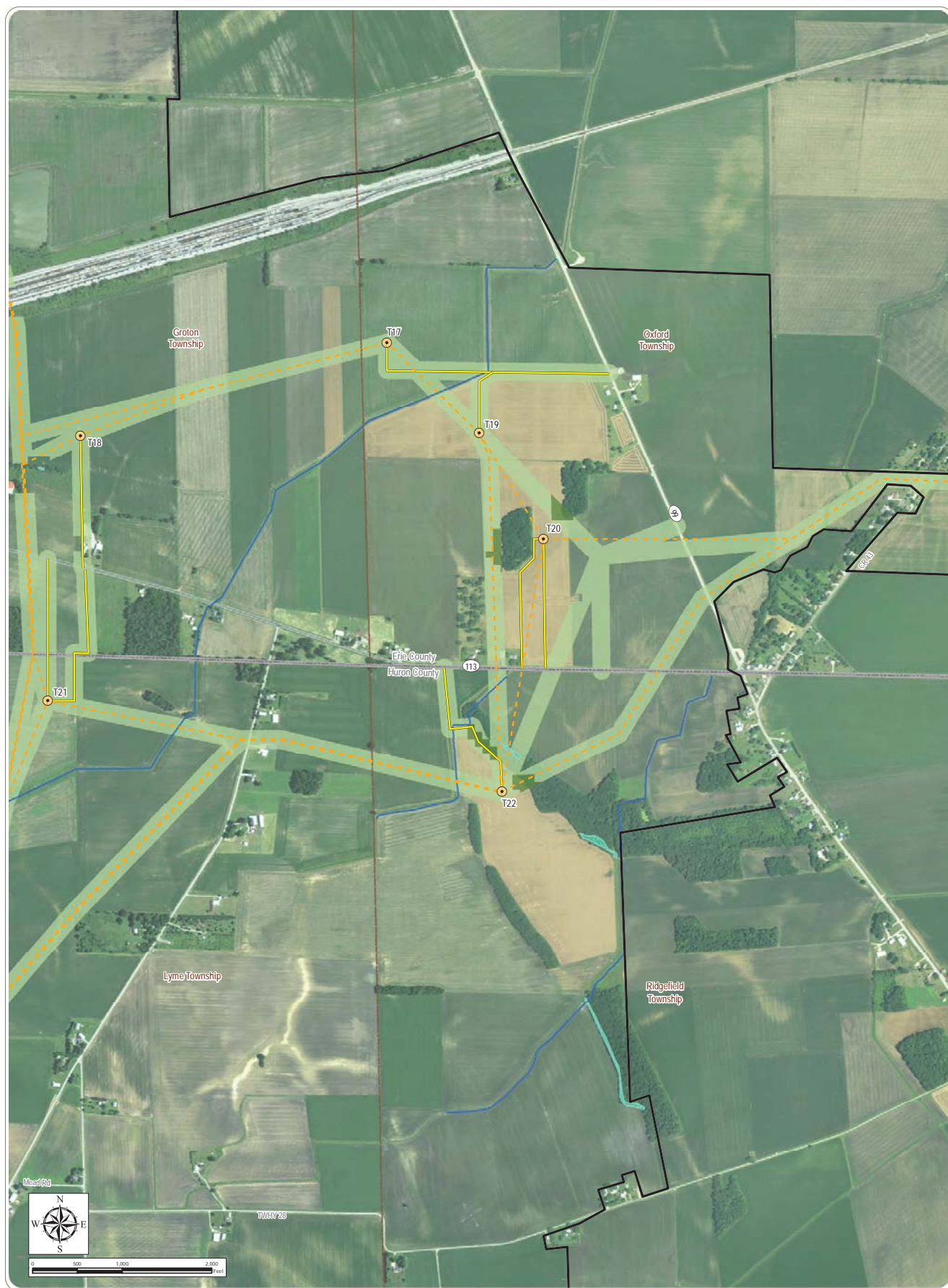
Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Collection Substation
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODN. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- - - Collection Line
- Delineated Stream
- ▨ Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

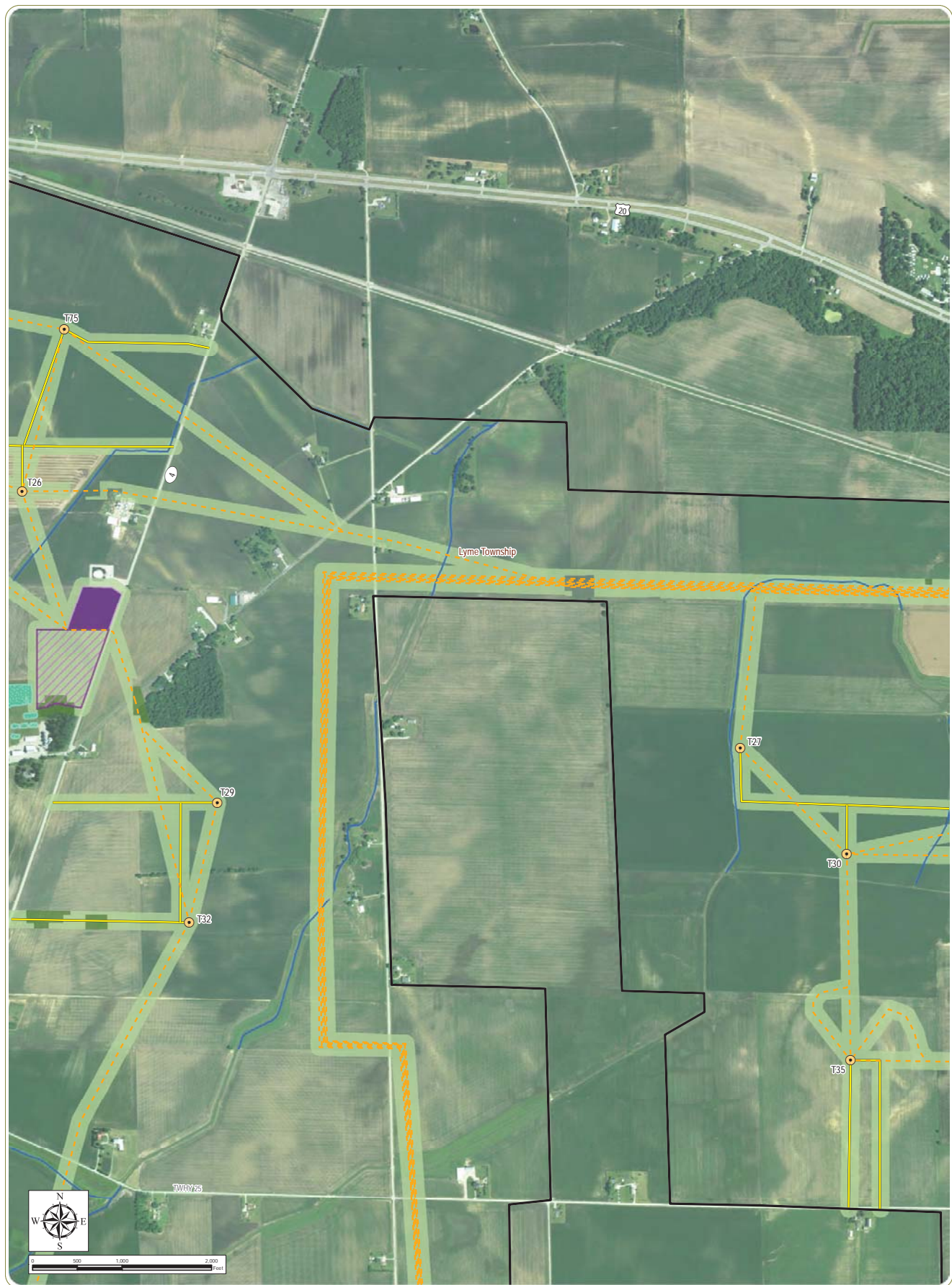
Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- - - Collection Line
- Delineated Stream
- ▨ Laydown Yard
- ▨ Delineated Wetland
- Project Boundary
- City/Village Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

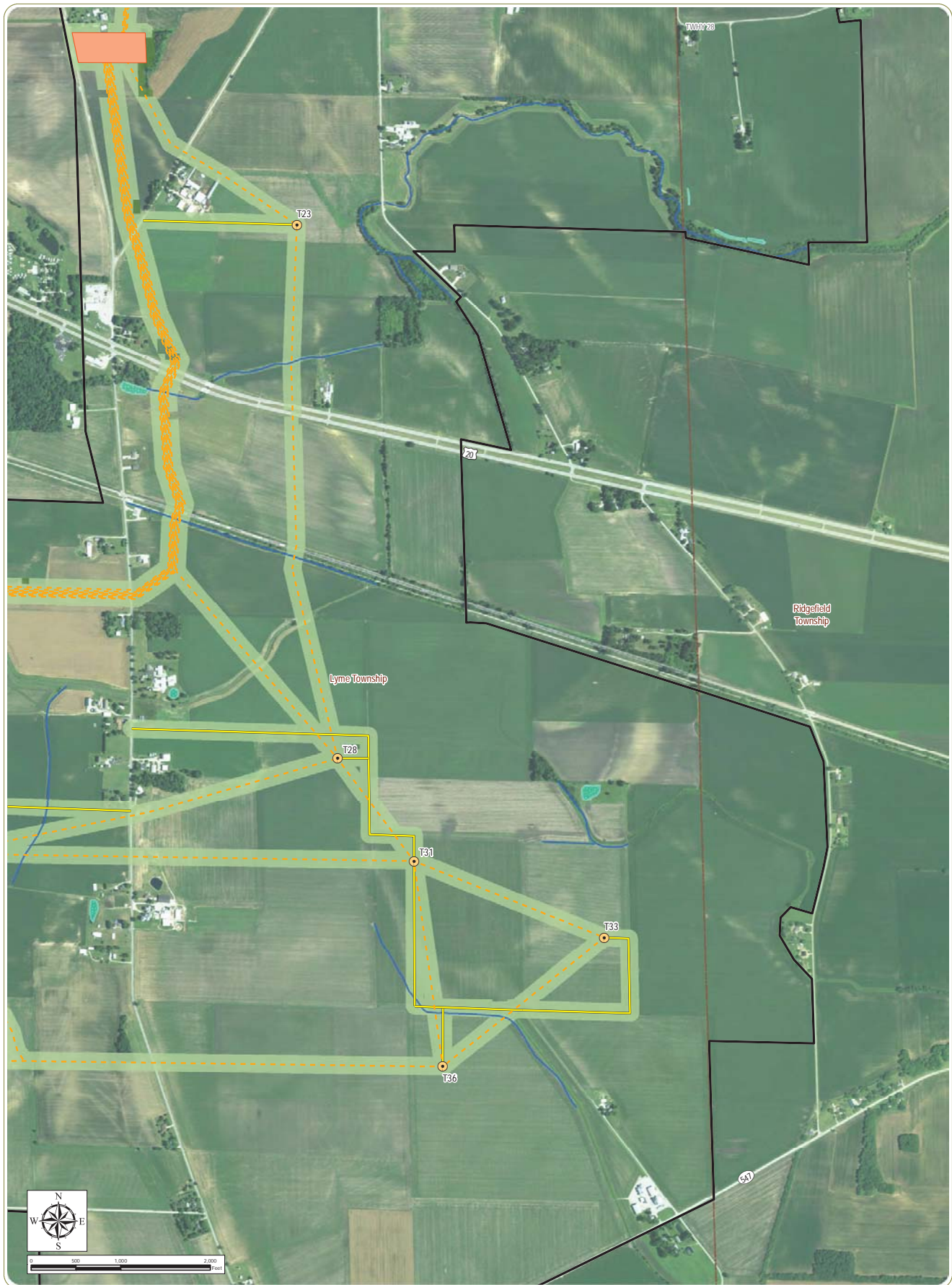
Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNr. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- - - Collection Line
- Delineated Stream
- ▨ Laydown Yard
- O&M Building
- ▨ Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

Figure 08-4: Delineated Resources

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- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Collection Substation
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

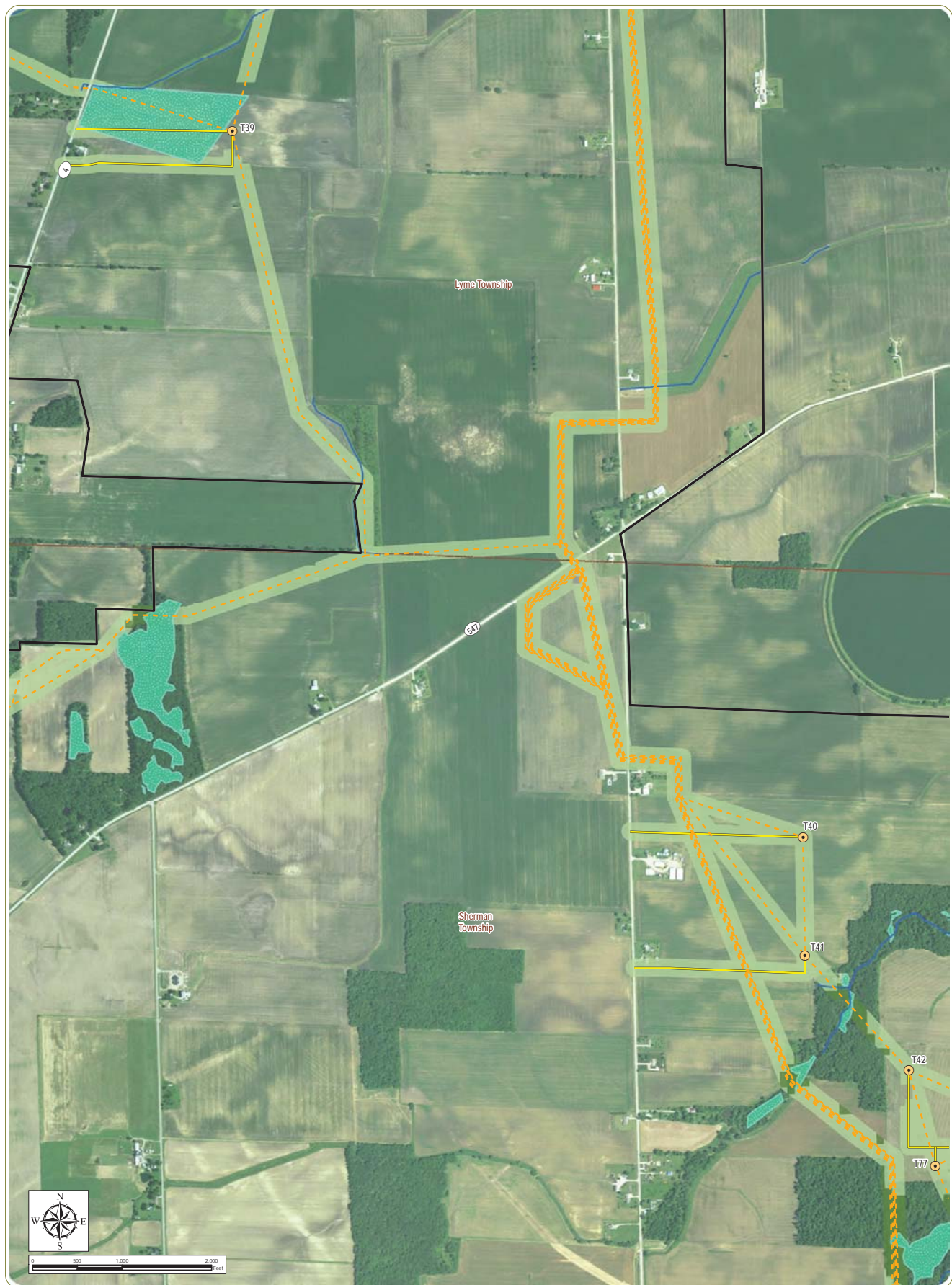
Figure 08-4: Delineated Resources

Notes: 1. Basemap: USDA NAIP 2017 orthoimagery map service and ESRI StreetMap North America, 2008. 2. This map was generated in ArcMap on January 16, 2019. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Facility components provided by Apex; delineated water resource data provided by Cardno; vegetative communities obtained from ODNR. 5. Map Scale 1:12,000.

- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

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- Wind Turbine
- Access Road
- - - Collection Line
- Delineated Stream
- Delineated Wetland
- ▭ Project Boundary
- - - Township Boundary
- ▭ County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Barren
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

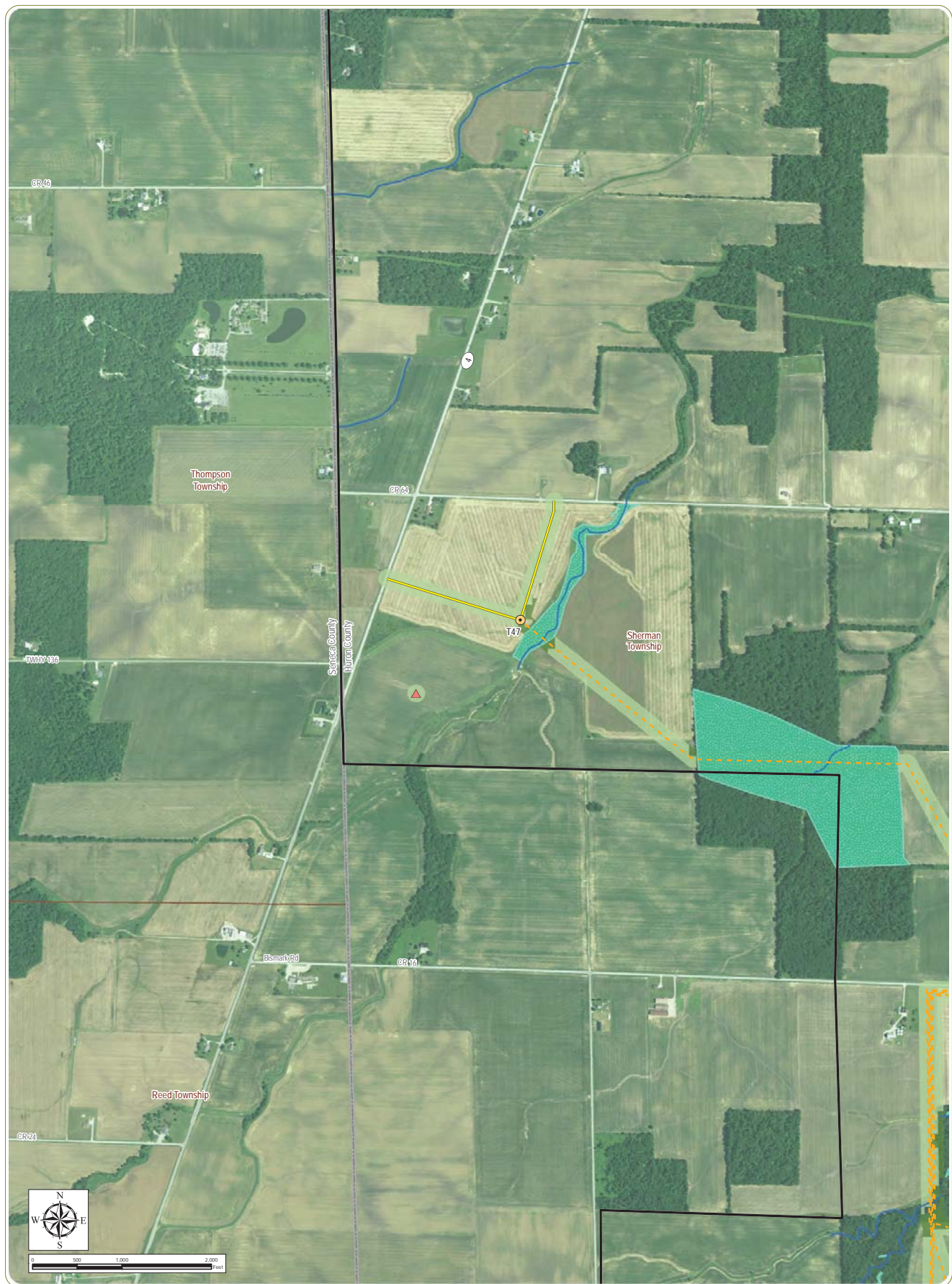
Figure 08-4: Delineated Resources

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- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

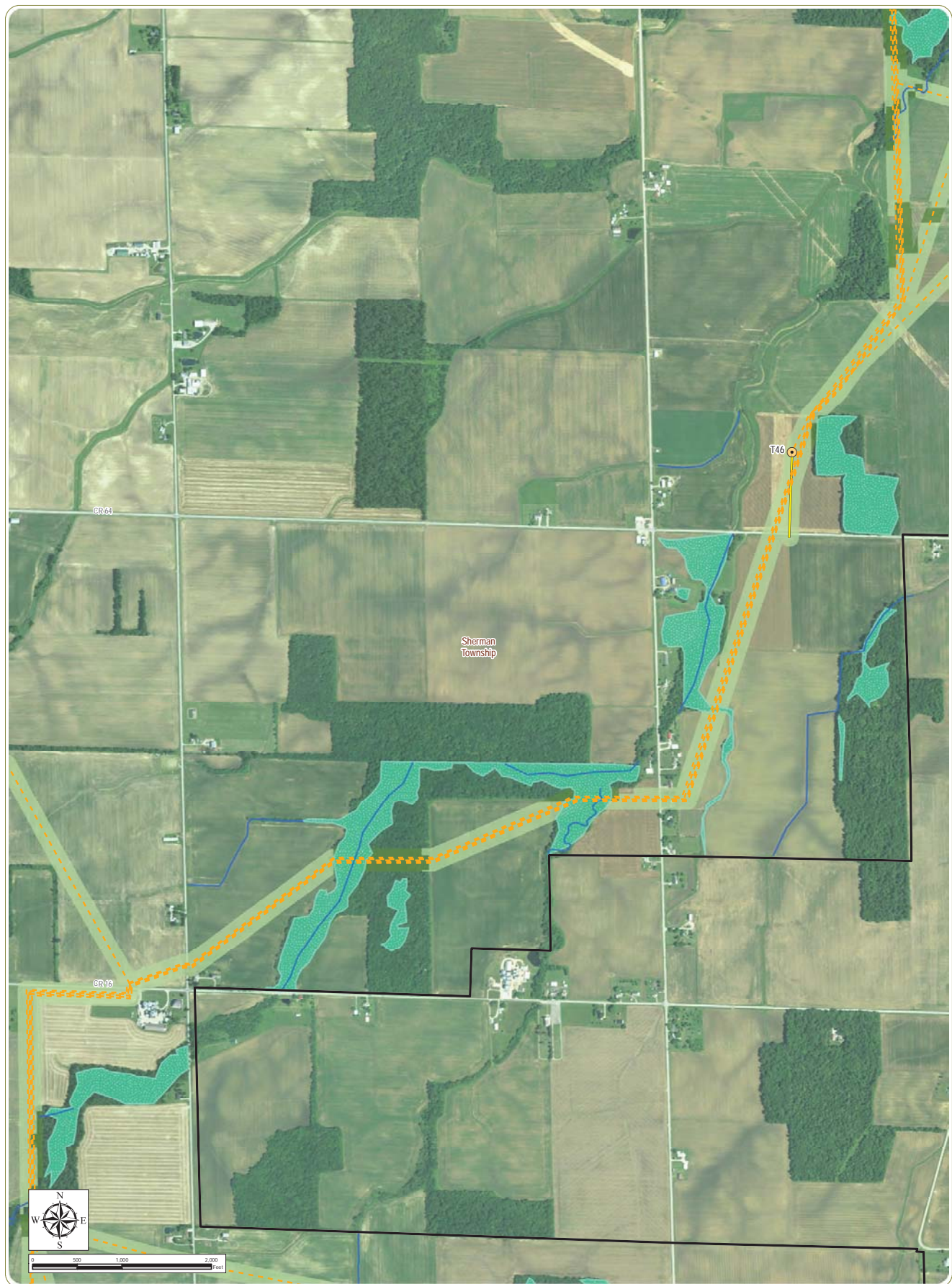
Figure 08-4: Delineated Resources

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- Wind Turbine
- ▲ Met Tower
- Access Road
- - - Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Scrub/Shrub
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

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- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Scrub/Shrub
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

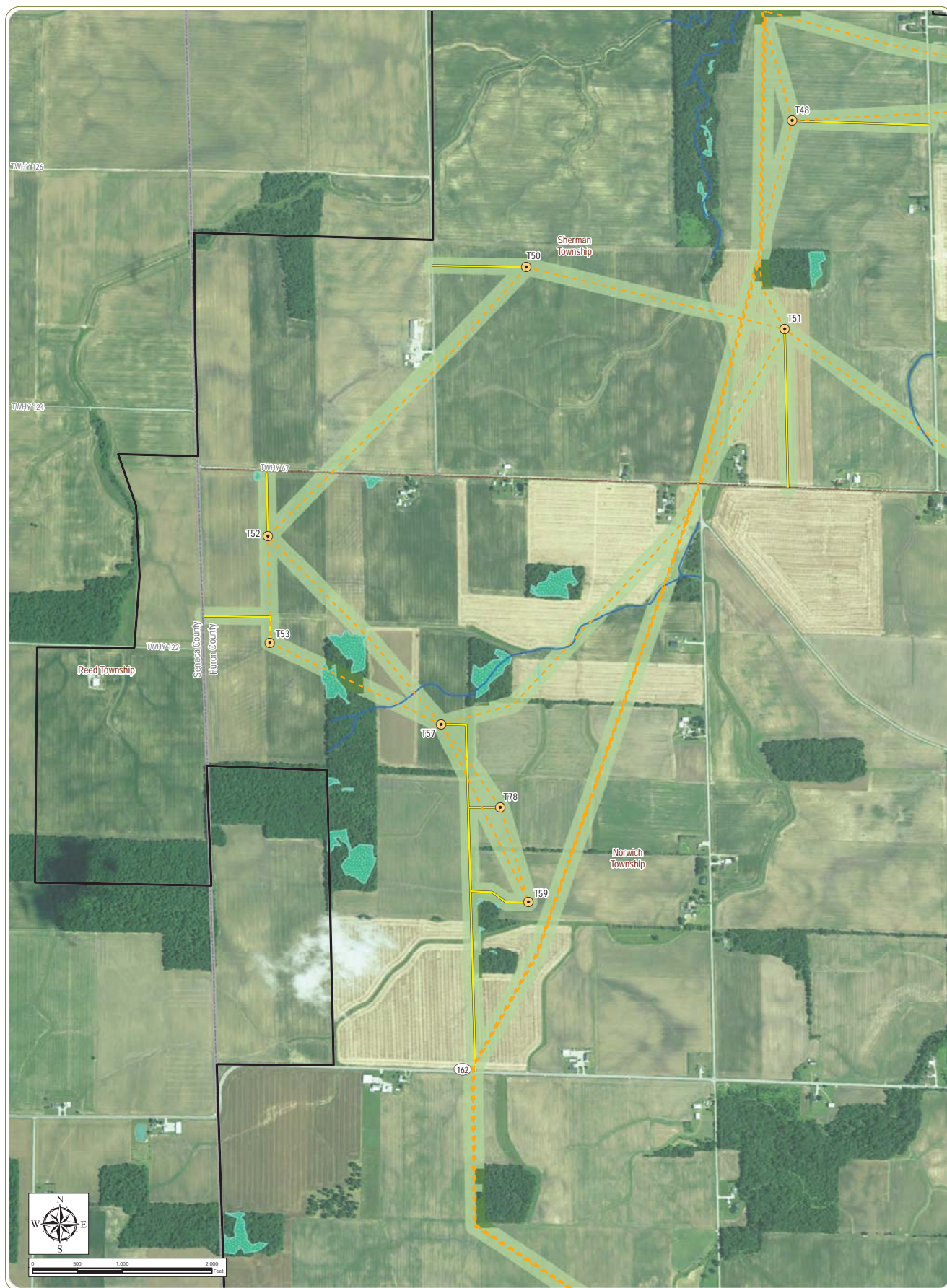
Figure 08-4: Delineated Resources

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- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

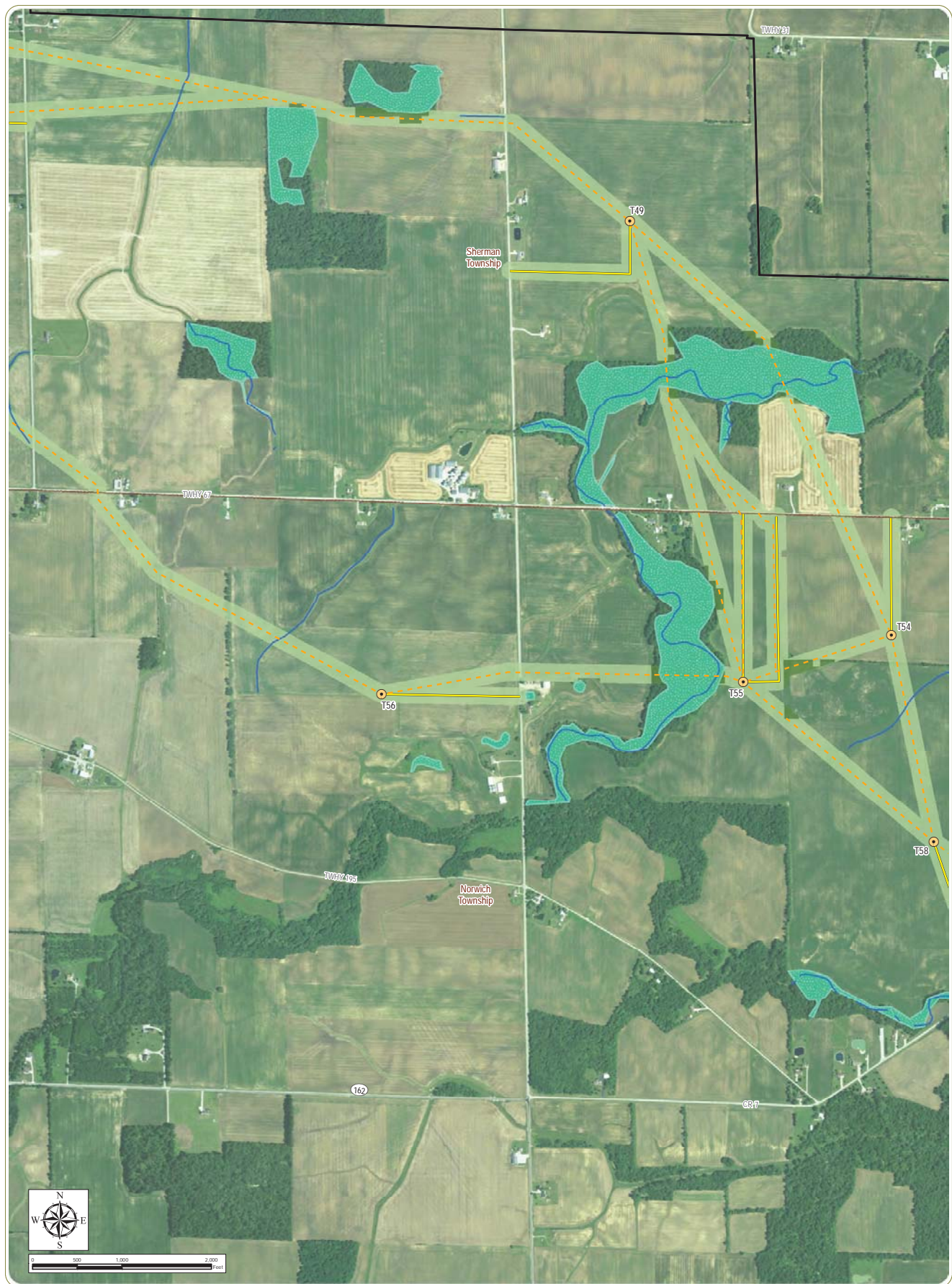
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- Wind Turbine
- Access Road
- Collection Line
- Delineated Stream
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- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

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- Wind Turbine
- Access Road
- Collection Line
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- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

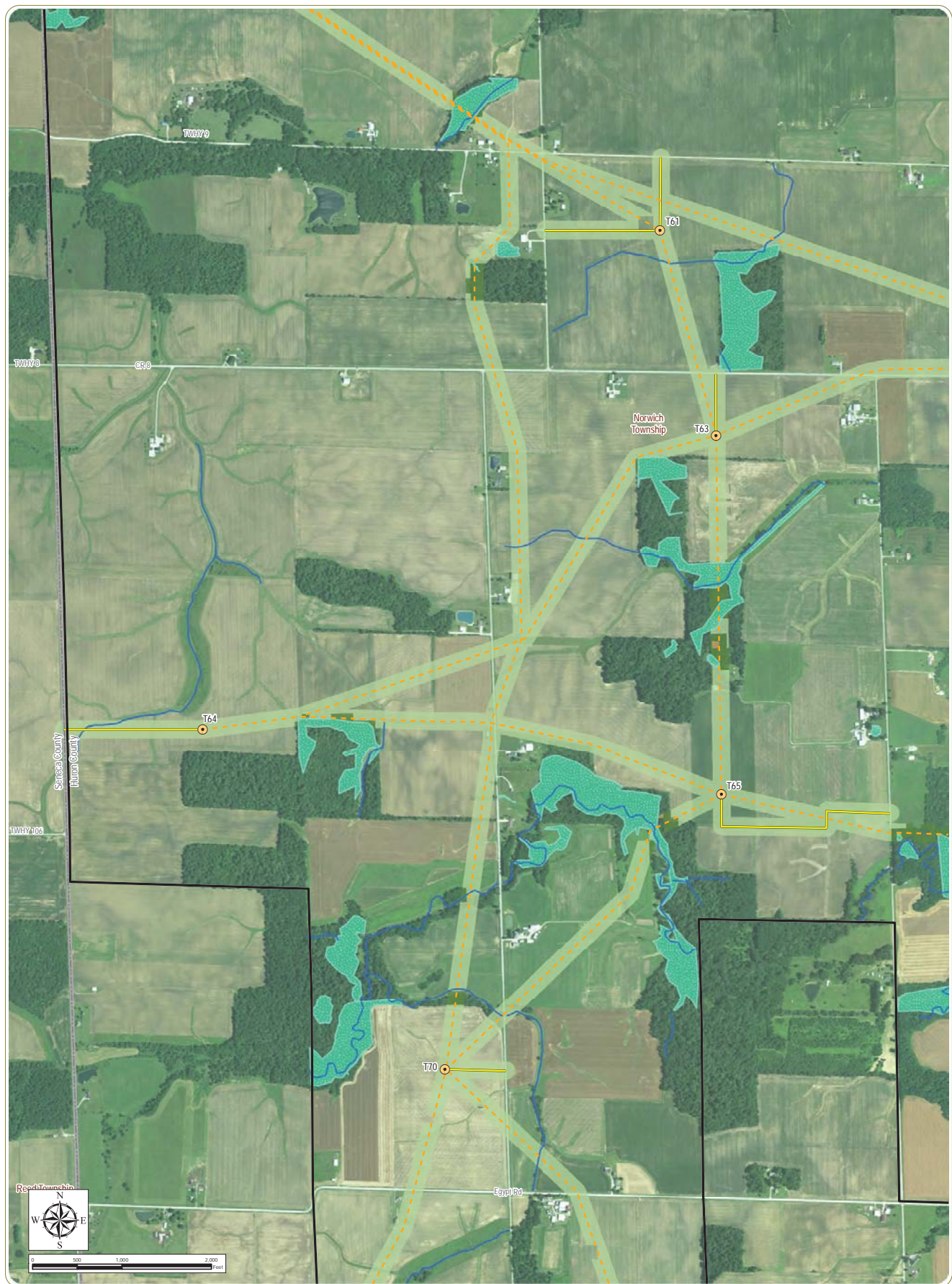
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- Vegetative Communities
- Agriculture/Open Areas

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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

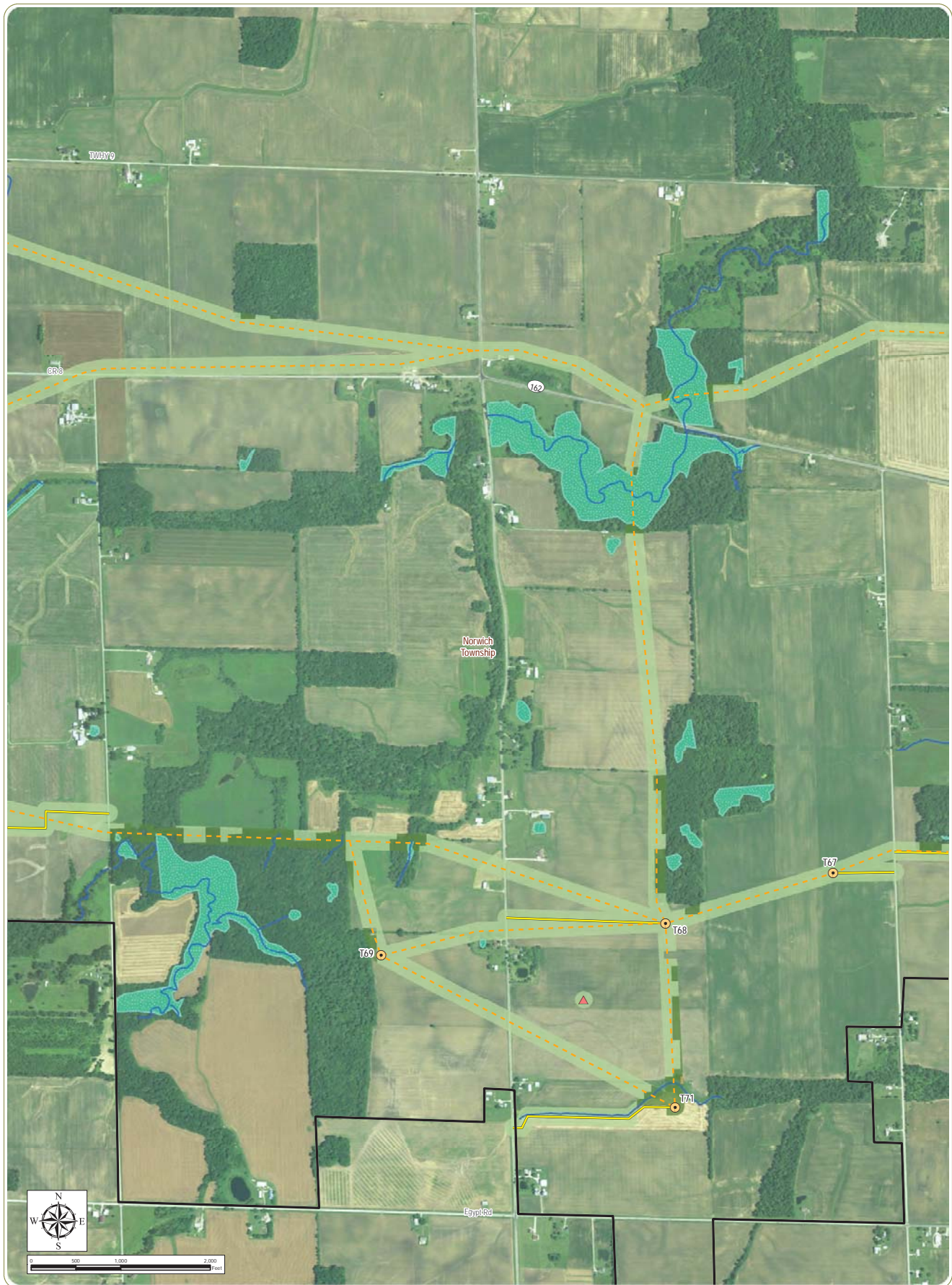
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- Wind Turbine
- Access Road
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- Delineated Stream
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- Project Boundary
- Township Boundary
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- Vegetative Communities
- Agriculture/Open Areas
- Scrub/Shrub
- Wooded

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Emerson Creek Wind Farm

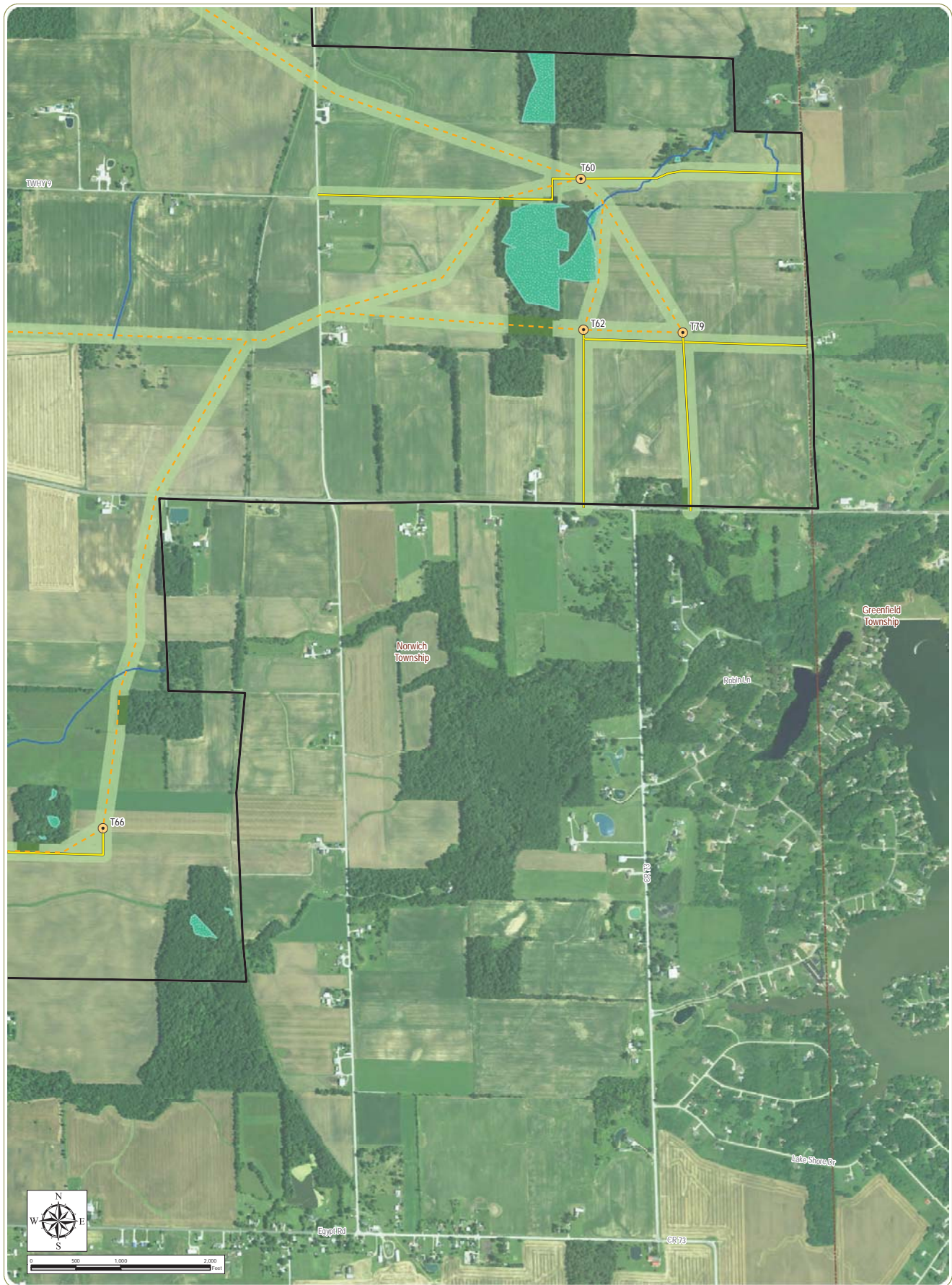
Erie, Huron, and Seneca Counties, Ohio

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- Wind Turbine
- Met Tower
- Access Road
- Collection Line
- Delineated Stream
- Delineated Wetland
- Project Boundary
- Township Boundary
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- Vegetative Communities
- Agriculture/Open Areas
- Scrub/Shrub
- Wooded

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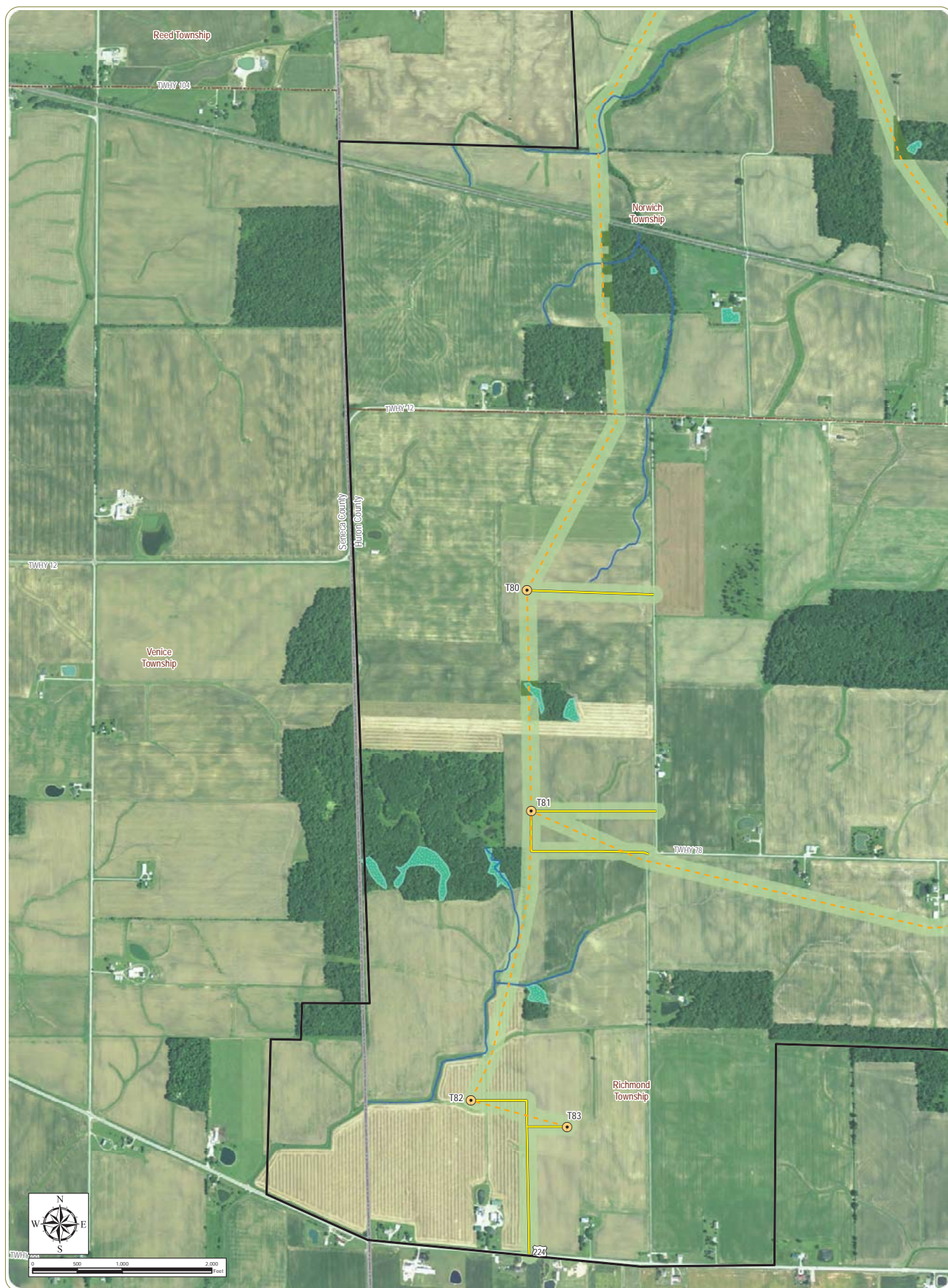
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Emerson Creek Wind Farm

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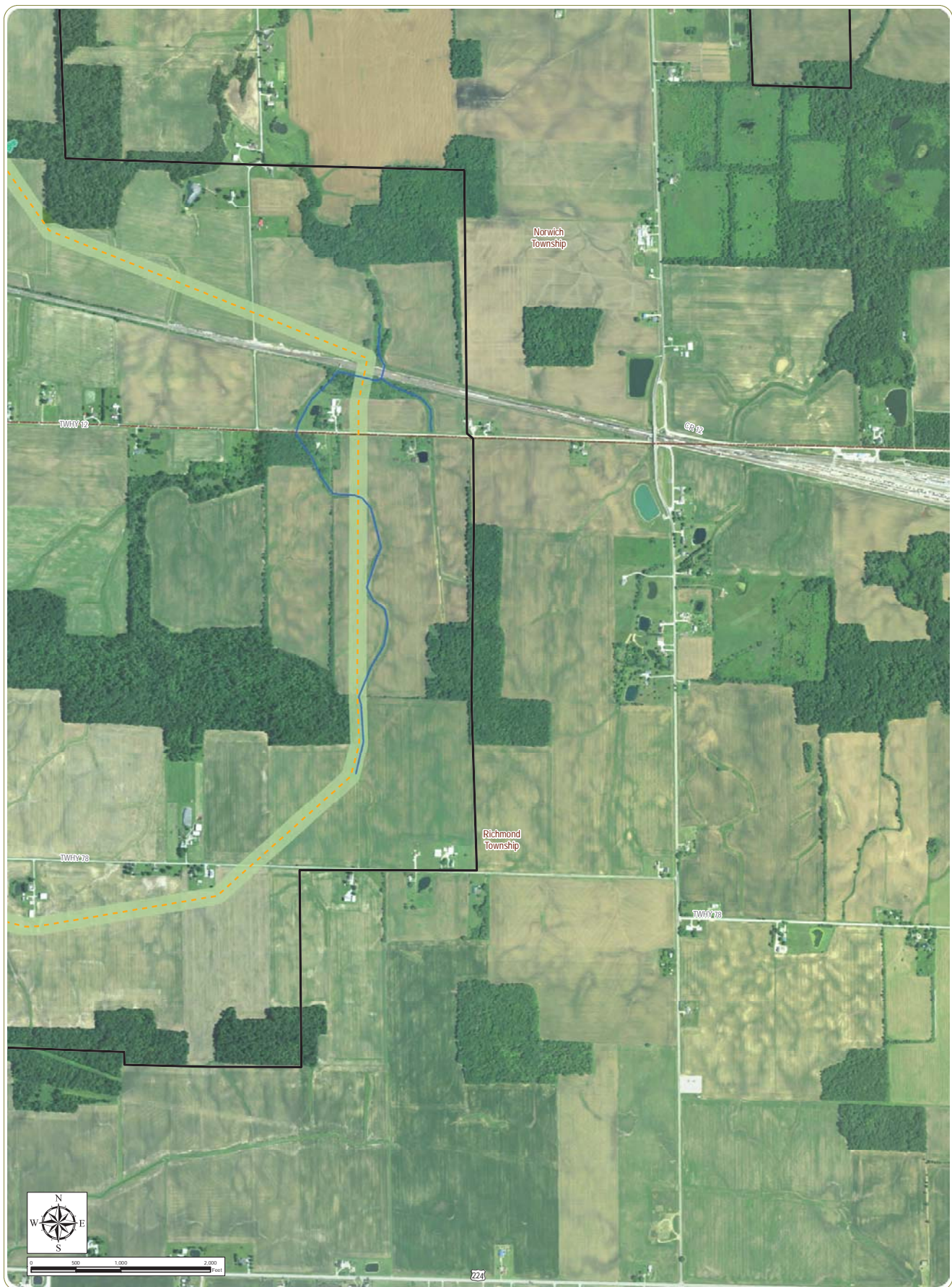
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Emerson Creek Wind Farm

Erie, Huron, and Seneca Counties, Ohio

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- Collection Line
- Delineated Stream
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- ▭ Township Boundary
- ▭ County Boundary
- Vegetative Communities
- Agriculture/Open Areas
- Wooded

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This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

1/31/2019 2:24:51 PM

in

Case No(s). 18-1607-EL-BGN

Summary: Application - Part 2 of 17 electronically filed by Christine M.T. Pirik on behalf of Firelands Wind, LLC