

Republic Wind Farm

York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

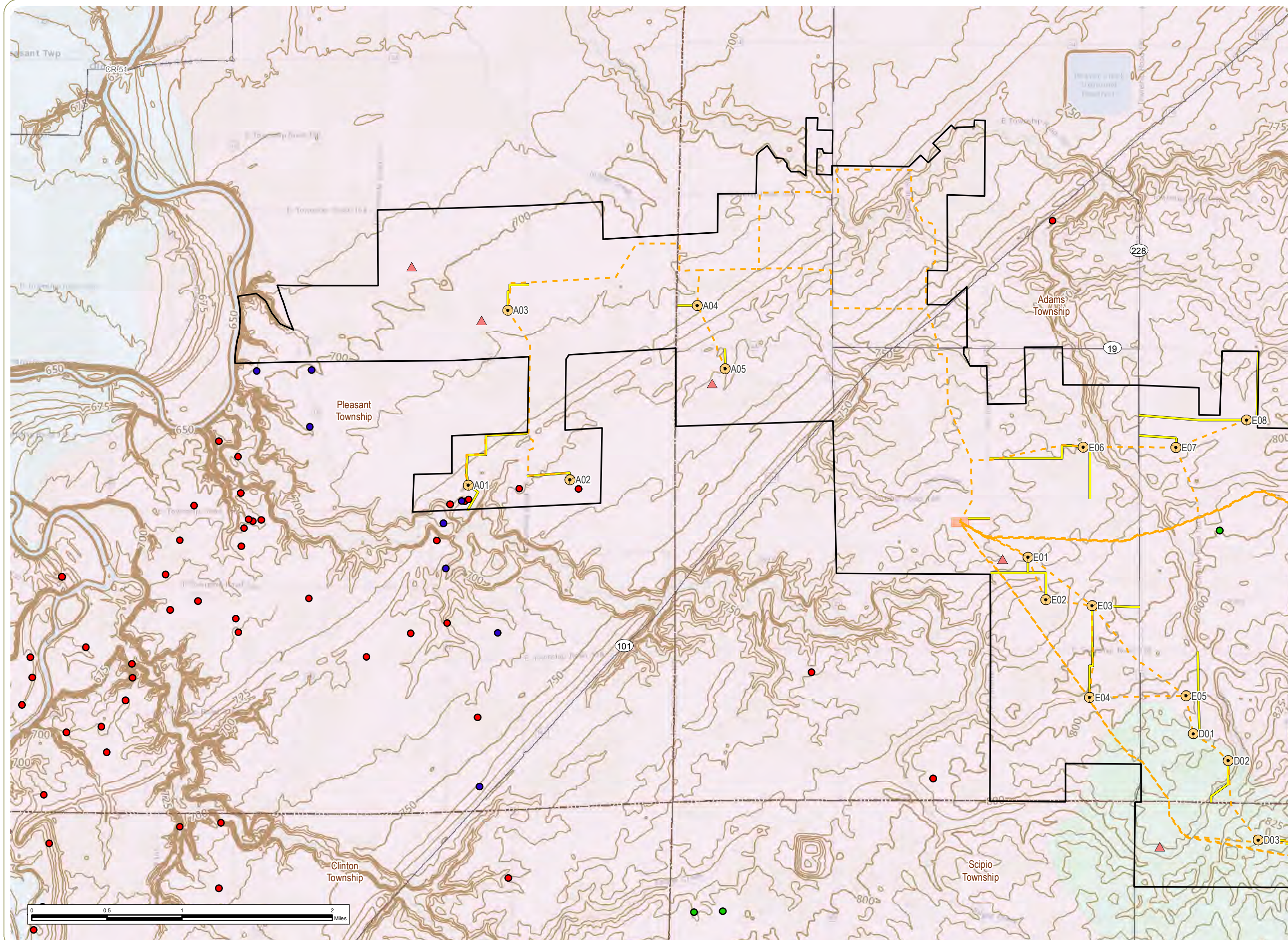
Figure 08-1. Drinking Water Resources

- Water Well
- Surface Source Water Protection Area
 - Corridor Management Zone
 - Emergency Management Zone
 - Source Water Area Watershed
- Unconsolidated Aquifer
 - Defiance End Moraine Aquifer
 - Green Creek Buried Valley Aquifer
 - Lake Maumee Beach Ridge Aquifer
 - Lake Maumee Lacustrine Aquifer
 - Sandusky River Alluvial Aquifer
 - Tiffin Ground Moraine Aquifer
 - Tiffin Thin Upland Aquifer
- Project Boundary

Notes:
1. Basemap: ESRI Streetmap North America, 2008. 2. Water well and aquifer data obtained from ODNR; source water protection areas obtained from OEPA; Project Boundary shapefile provided by Apex. 3. This map was generated in ArcMap on January 18, 2018. 4. This is a color graphic. Reproduction in grayscale may misrepresent the data. 5. Map Scale 1:75,000



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York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-2. Existing Features

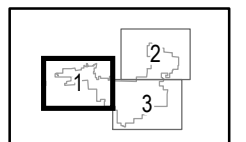
Oil/Gas Well or Injection Site

- Dry hole
- Dry hole with Oil and Gas Show
- Expired permit
- Wind Turbine
- ▲ Met Tower
- - - Collection Line
- Access Road
- Topographic Contour
- Collection Substation
- Project Boundary
- - - Township Boundary
- County Boundary

Bedrock Layer

- Devonian, limestone, dolostone (dolomite)
- Silurian, dolostone (dolomite)
- Silurian, dolostone (dolomite), shale

Sheet 1 of 3

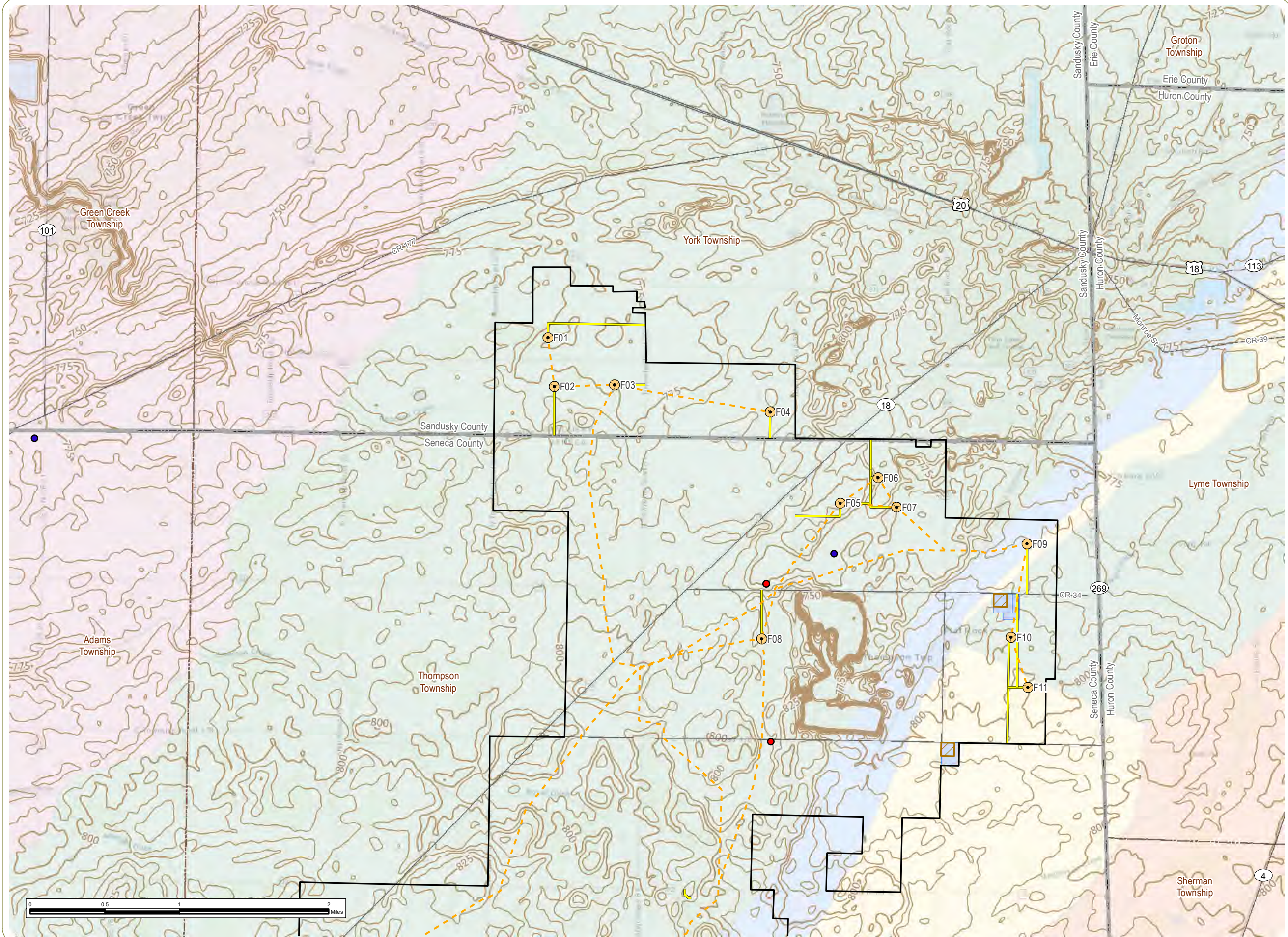


Notes:

1. Basemap: ESRI ArcGIS Online "World Topographic Map" map service. 2. This map was generated in ArcMap on January 22, 2018. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data. 4. Oil/Gas Well or Injection Site data obtained from ODNR; USGS Elevation Contours displayed via The National Map service layer. 4. Map Scale 1:40,000



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Figure 08-2. Existing Features

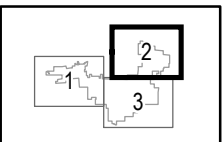
Oil/Gas Well or Injection Site

- Dry hole
- Expired permit
- Wind Turbine
- - - Collection Line
- Access Road
- Topographic Contour
- ▨ O&M Facility
- ▭ Laydown Yard
- ▭ Project Boundary
- - - Township Boundary
- ▭ County Boundary

Bedrock Layer

- Devonian, black shale, shale
- Devonian, limestone,
- Devonian, limestone, dolostone (dolomite)
- Devonian, shale, limestone
- Silurian, dolostone (dolomite), shale

Sheet 2 of 3

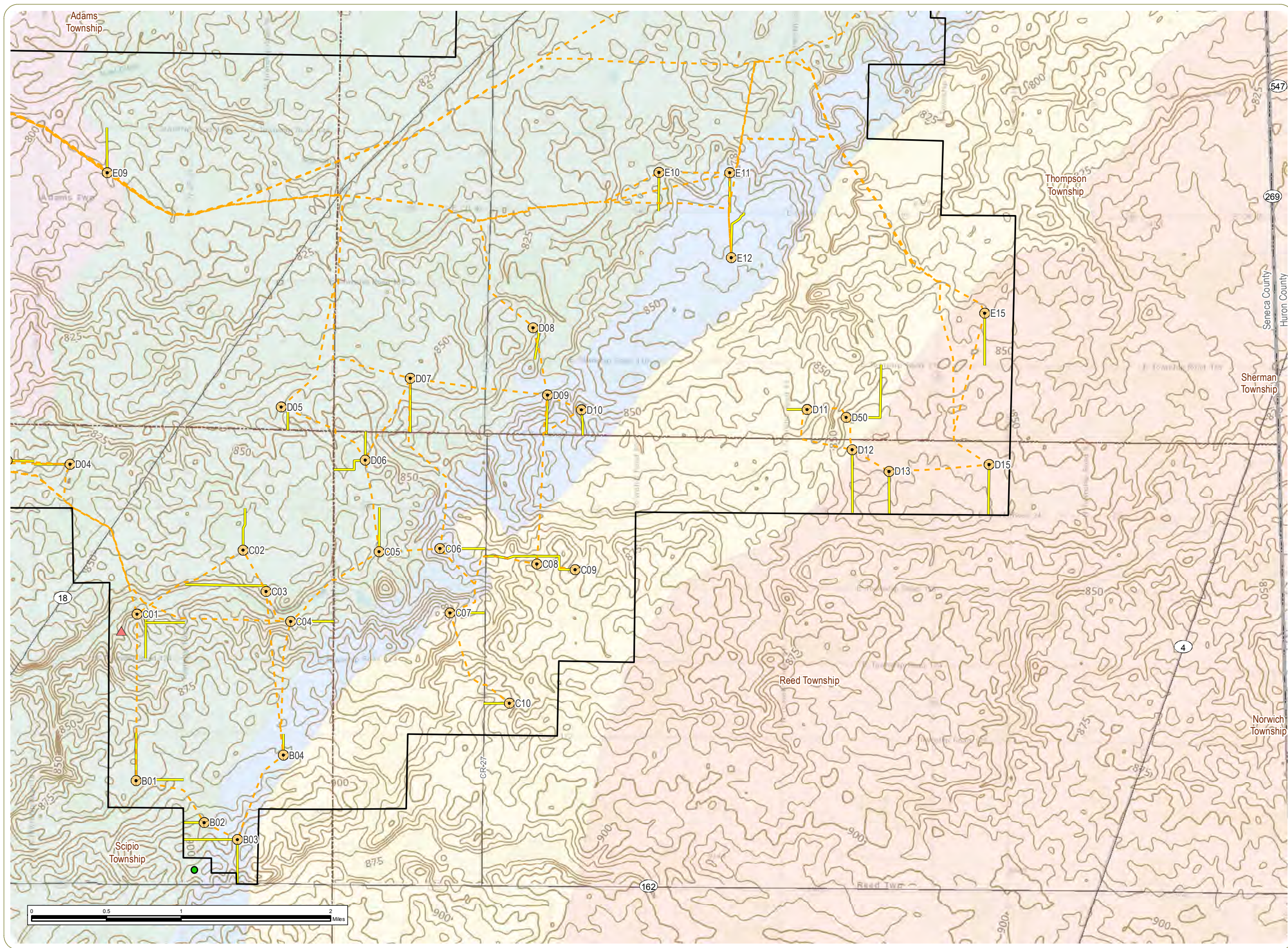


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Figure 08-2. Existing Features

Oil/Gas Well or Injection Site

● Dry hole with Oil and Gas Show

● Wind Turbine

▲ Met Tower

--- Collection Line

— Access Road

— Topographic Contour

▭ Project Boundary

▭ Township Boundary

▭ County Boundary

Bedrock Layer

Devonian, black shale, shale

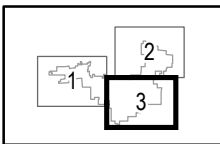
Devonian, limestone,

Devonian, limestone, dolostone (dolomite)

Devonian, shale, limestone

Silurian, dolostone (dolomite), shale

Sheet 3 of 3

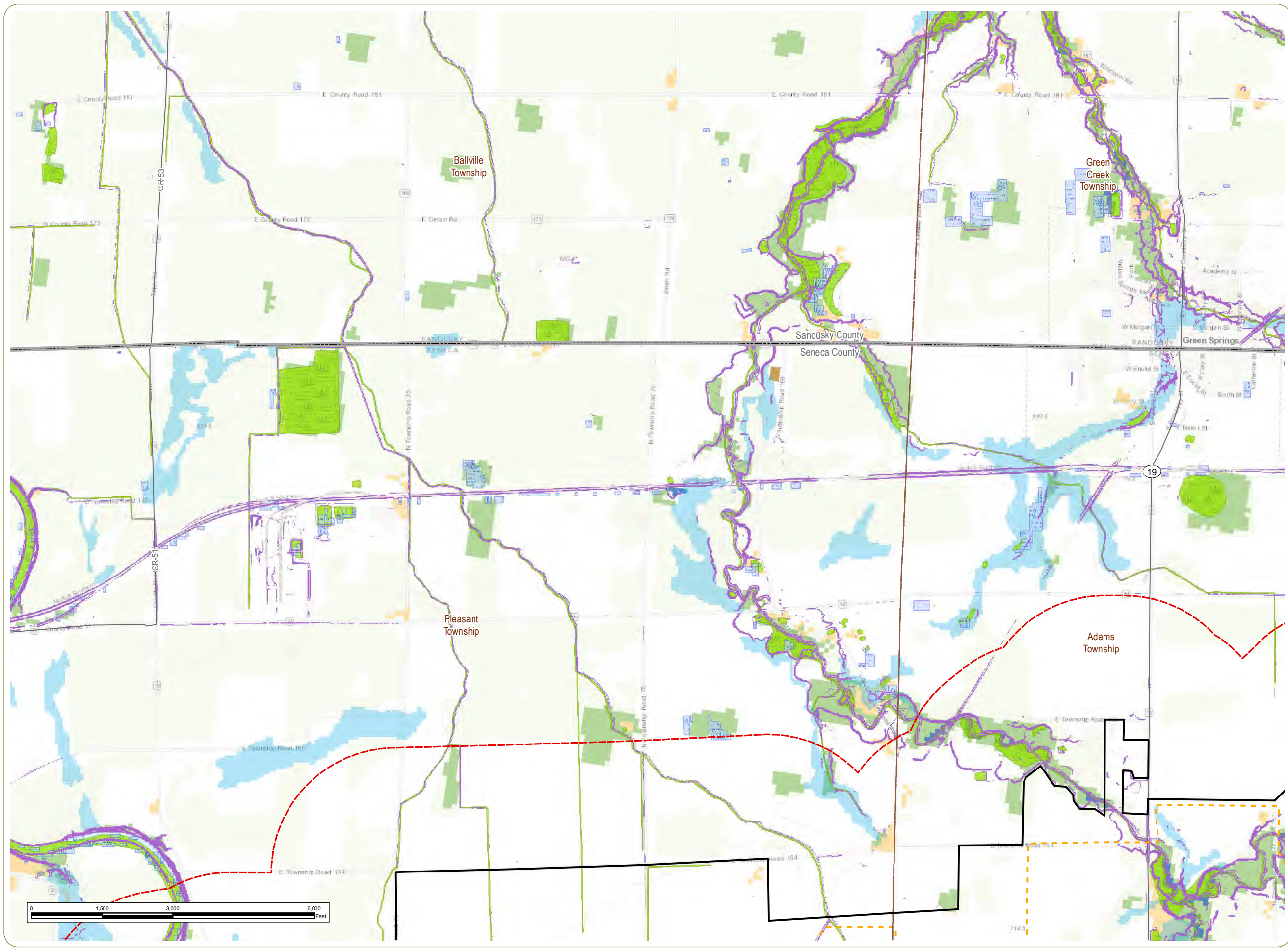


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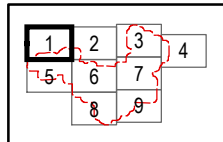
Republic Wind Farm

York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-3. Ecological Features

- Collection Line
- ODNR Mapped Wetland
- NWI Mapped Wetland
- Slope >12%
- Highly Erodible Land
- Potentially Highly Erodible Land
- 2011 NLCD Undeveloped Land
- Baren Land
- Forest
- Grassland/Herbaceous
- Wetland
- Project Boundary
- Half-Mile Study Area
- Township Boundary
- County Boundary

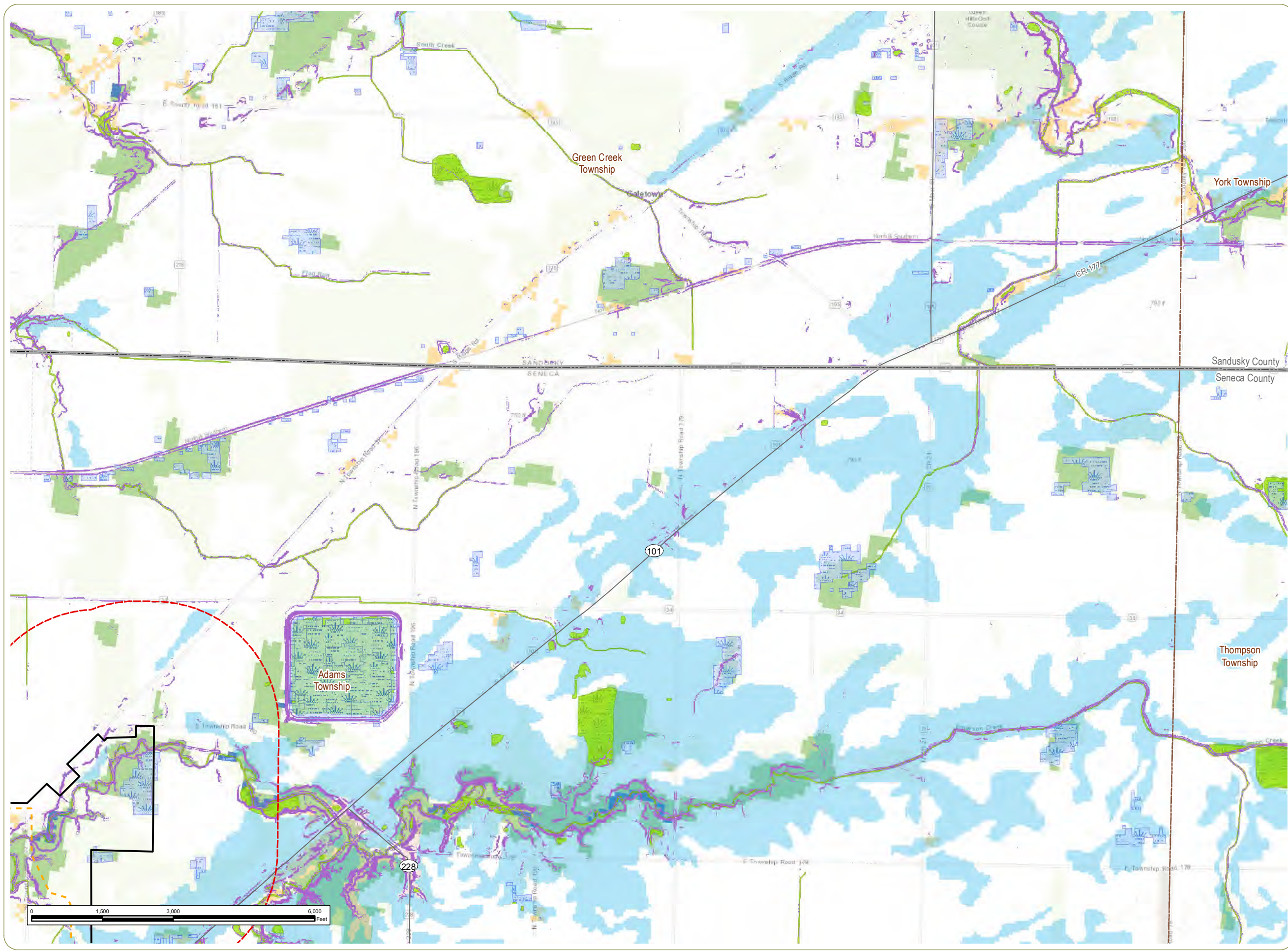
Sheet 1 of 9



Notes:
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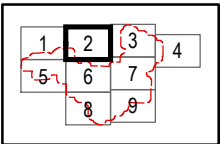
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- County Boundary

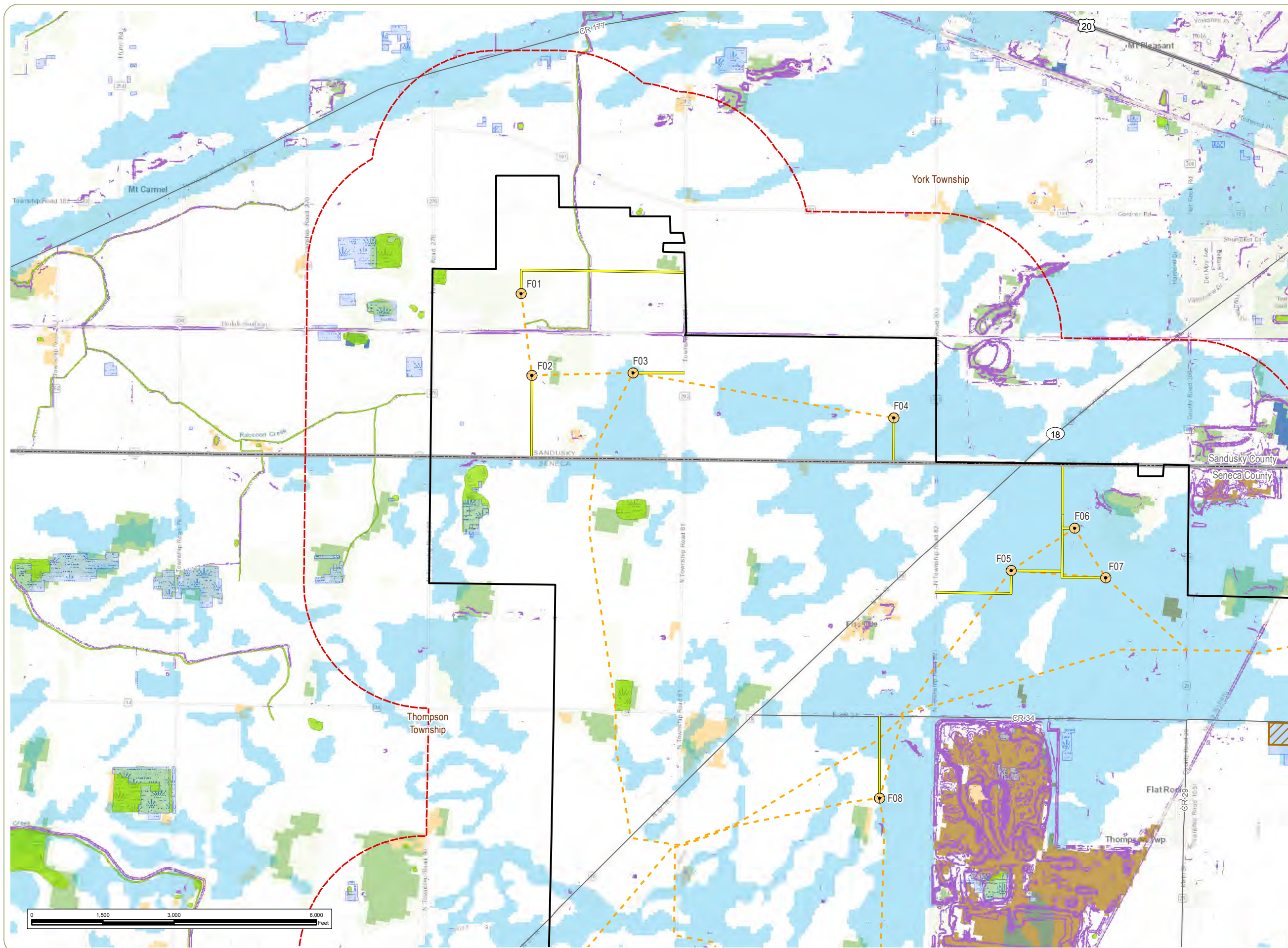
Sheet 2 of 9



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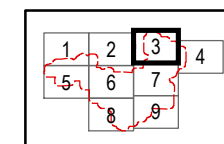
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Figure 08-3. Ecological Features

- Wind Turbine
- Collection Line
- Access Road
- O&M Facility
- Laydown Yard
- ODNR Mapped Wetland
- NWI Mapped Wetland
- Slope >12%
- Highly Erodible Land
- Potentially Highly Erodible Land
- 2011 NLCD Undeveloped Land
- Baren Land
- Forest
- Grassland/Herbaceous
- Wetland
- Project Boundary
- Half-Mile Study Area
- Township Boundary
- County Boundary

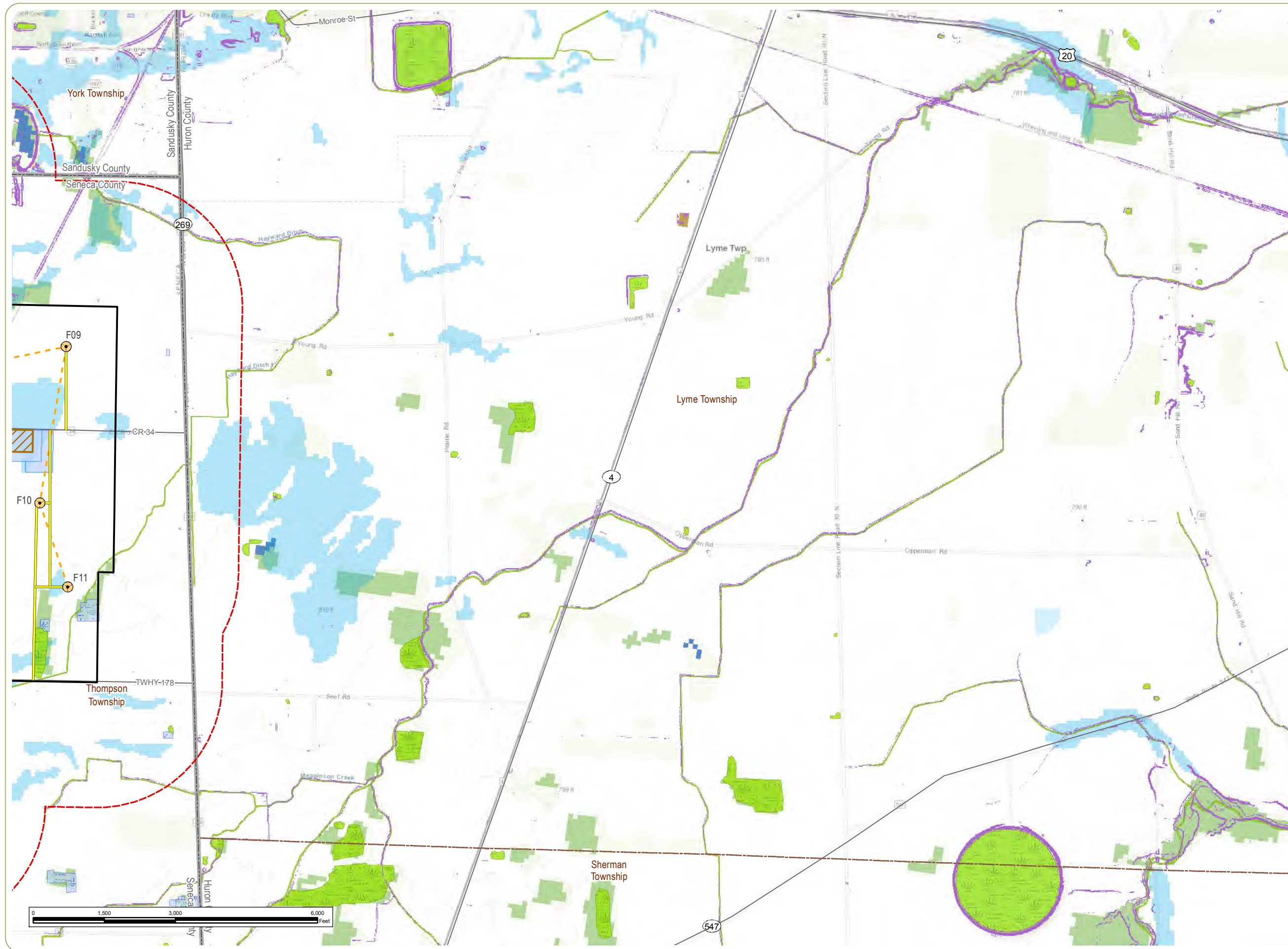
Sheet 3 of 9



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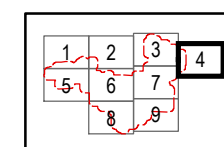
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Figure 08-3. Ecological Features

- Wind Turbine
- Collection Line
- Access Road
- O&M Facility
- Laydown Yard
- ODNR Mapped Wetland
- NWI Mapped Wetland
- Slope >12%
- Highly Erodible Land
- Potentially Highly Erodible Land
- 2011 NLCD Undeveloped Land
- Baren Land
- Forest
- Grassland/Herbaceous
- Wetland
- Project Boundary
- Half-Mile Study Area
- Township Boundary
- County Boundary

Sheet 4 of 9

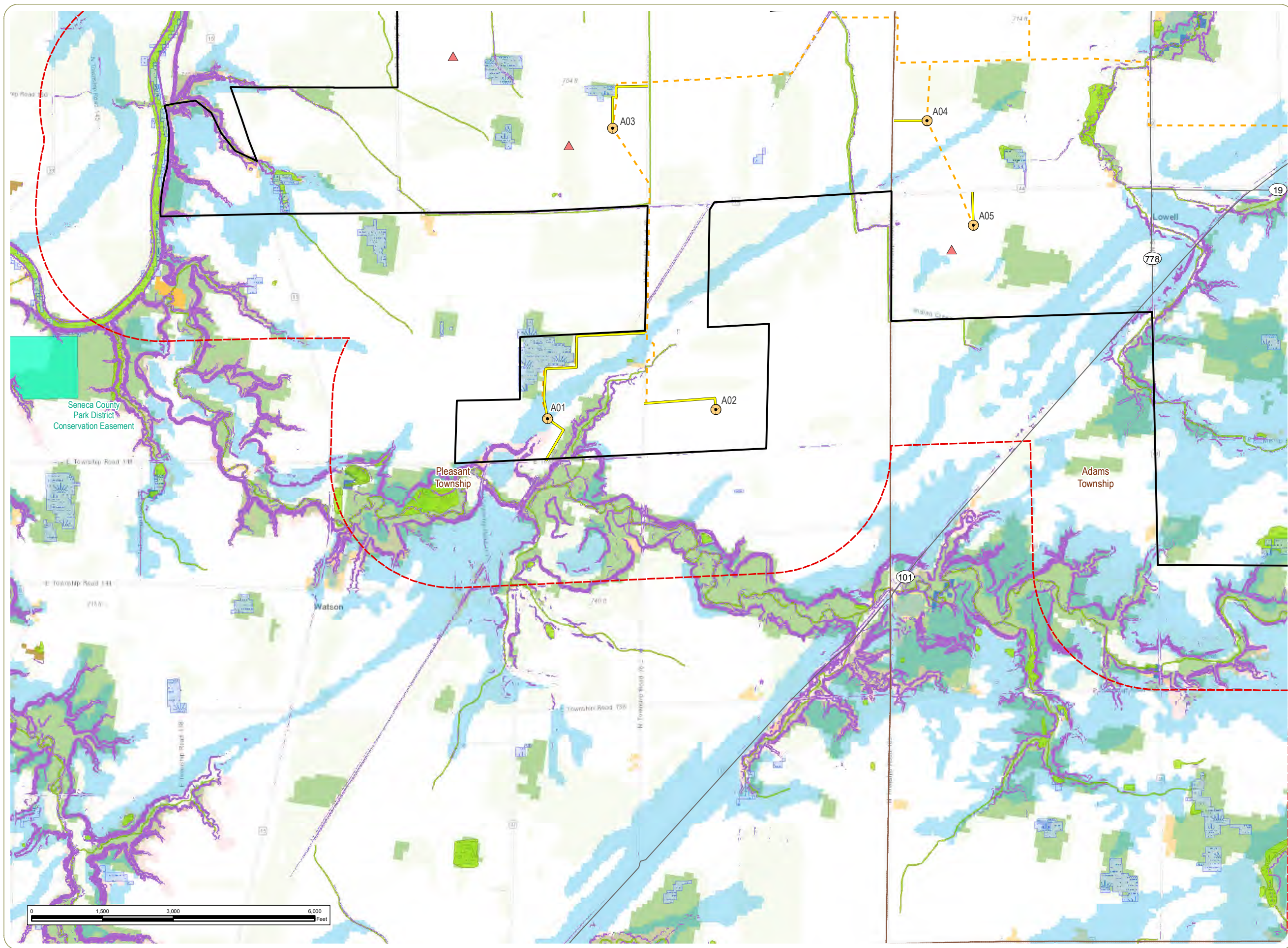


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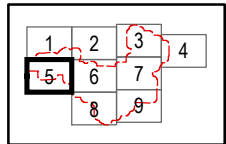
Republic Wind Farm

York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-3. Ecological Features

- Met Tower
- Wind Turbine
- Collection Line
- Access Road
- ODNR Mapped Wetland
- NWI Mapped Wetland
- Slope >12%
- Local Park
- Highly Erodible Land
- Potentially Highly Erodible Land
- 2011 NLCD Undeveloped Land
- Baren Land
- Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Wetland
- Project Boundary
- Half-Mile Study Area
- Township Boundary
- County Boundary

Sheet 5 of 9

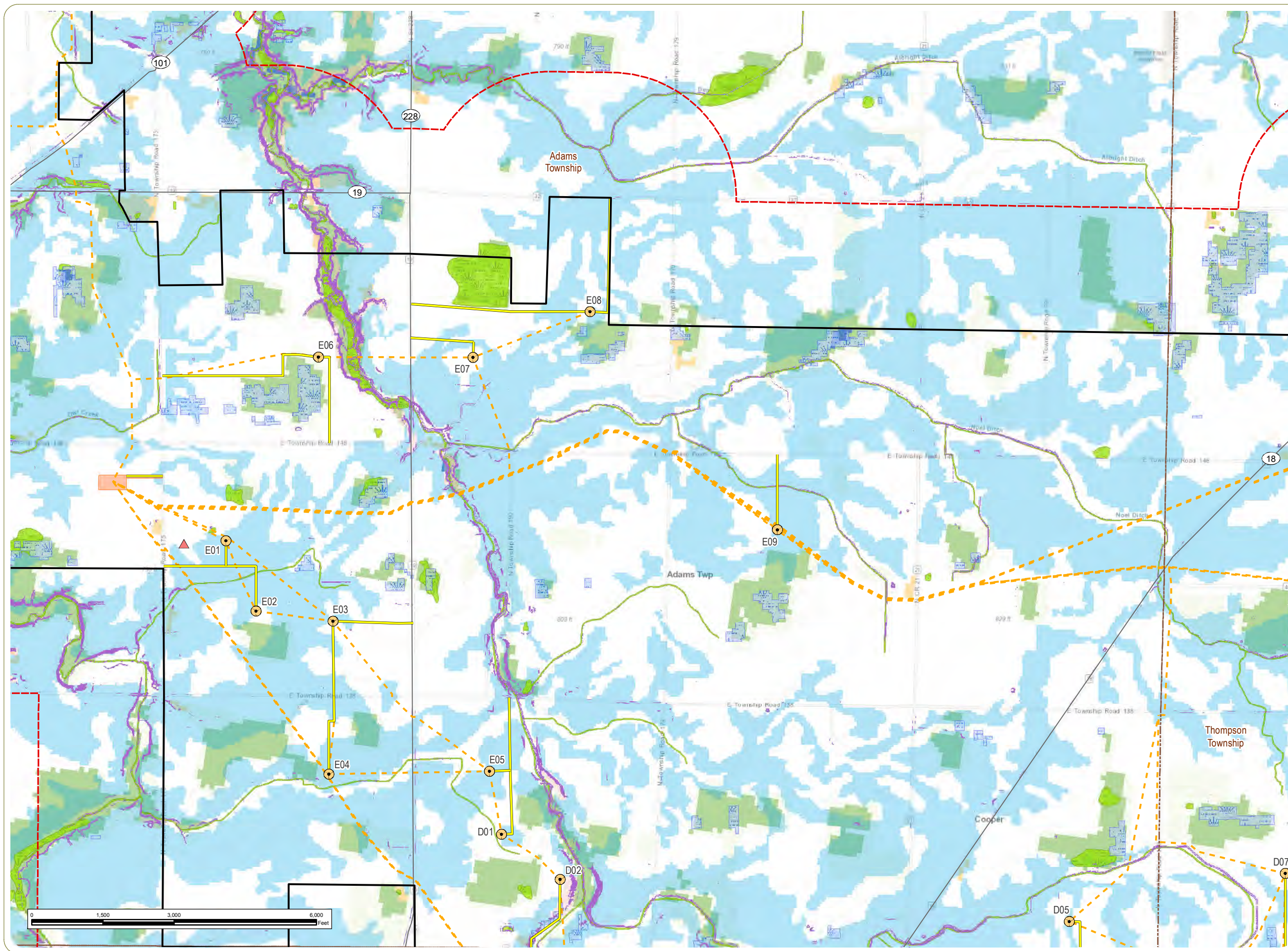


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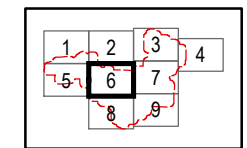
Republic Wind Farm

York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-3. Ecological Features

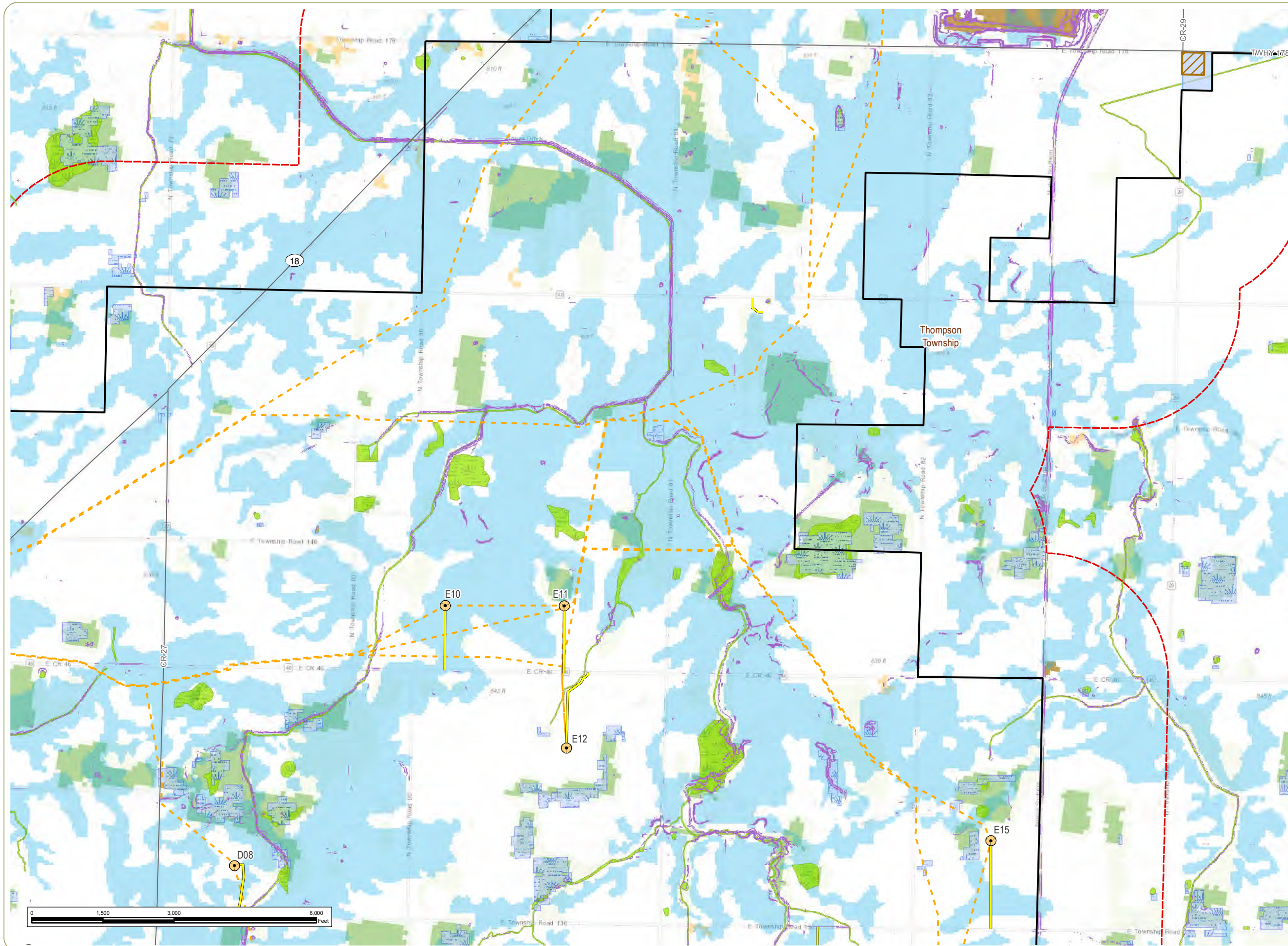
- Met Tower
- Wind Turbine
- Collection Line
- Access Road
- Collection Substation
- ODNR Mapped Wetland
- NWI Mapped Wetland
- Slope >12%
- Highly Erodible Land
- Potentially Highly Erodible Land
- 2011 NLCD Undeveloped Land
- Baren Land
- Forest
- Grassland/Herbaceous
- Wetland
- Project Boundary
- Half-Mile Study Area
- Township Boundary
- County Boundary

Sheet 6 of 9



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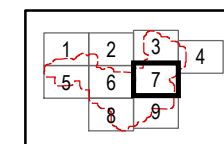
Republic Wind Farm

York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-3. Ecological Features

- Wind Turbine
- Collection Line
- Access Road
- O&M Facility
- Laydown Yard
- ODNR Mapped Wetland
- NWI Mapped Wetland
- Slope >12%
- Highly Erodible Land
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- Baren Land
- Forest
- Grassland/Herbaceous
- Wetland
- Project Boundary
- Half-Mile Study Area
- Township Boundary
- County Boundary

Sheet 7 of 9

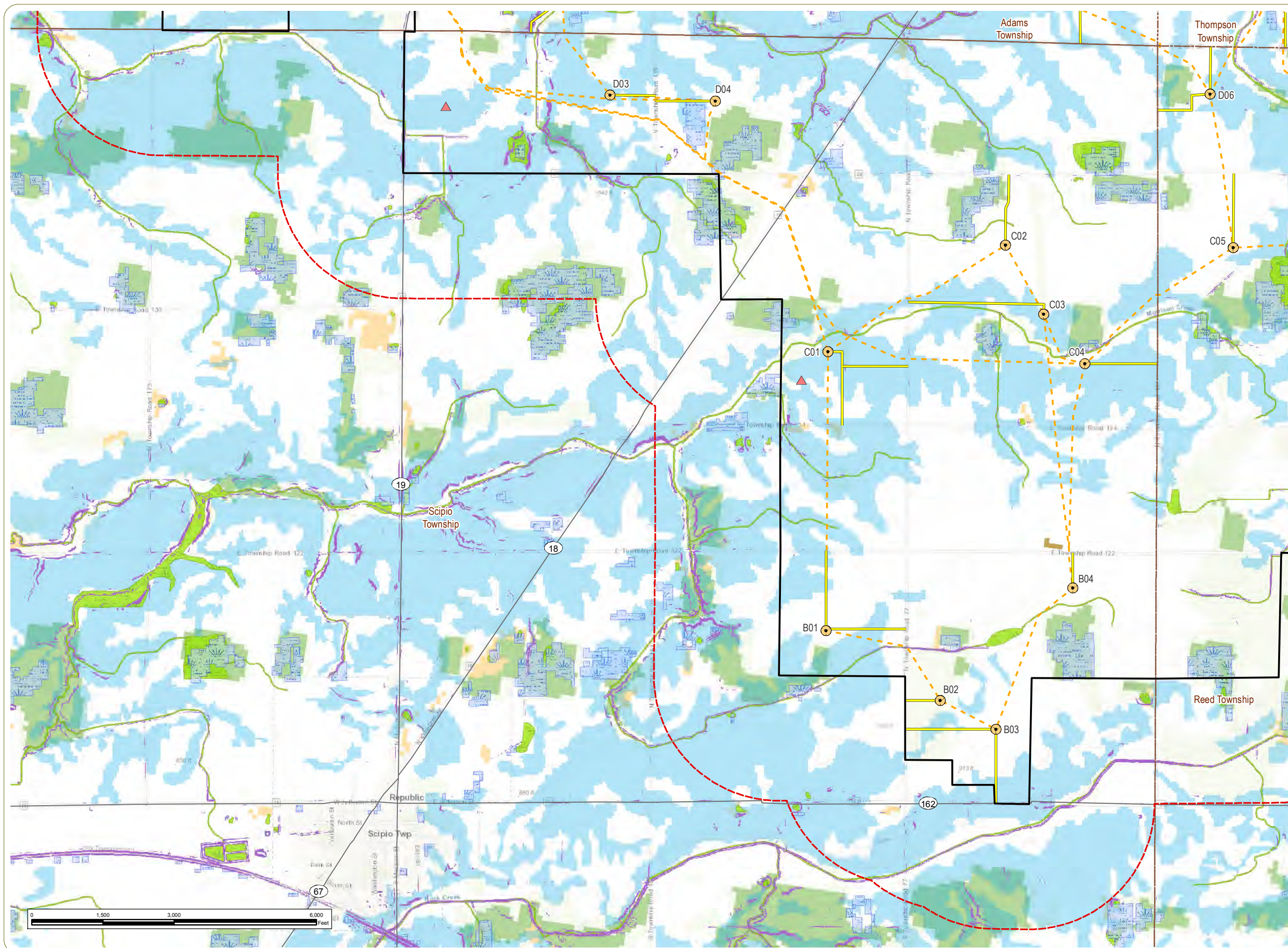


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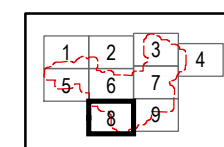
Republic Wind Farm

York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-3. Ecological Features

- Met Tower
- Wind Turbine
- Collection Line
- Access Road
- ODNR Mapped Wetland
- NWI Mapped Wetland
- Slope >12%
- Highly Erodible Land
- Potentially Highly Erodible Land
- 2011 NLCD Undeveloped Land
- Baren Land
- Forest
- Grassland/Herbaceous
- Project Boundary
- Half-Mile Study Area
- Township Boundary
- County Boundary

Sheet 8 of 9

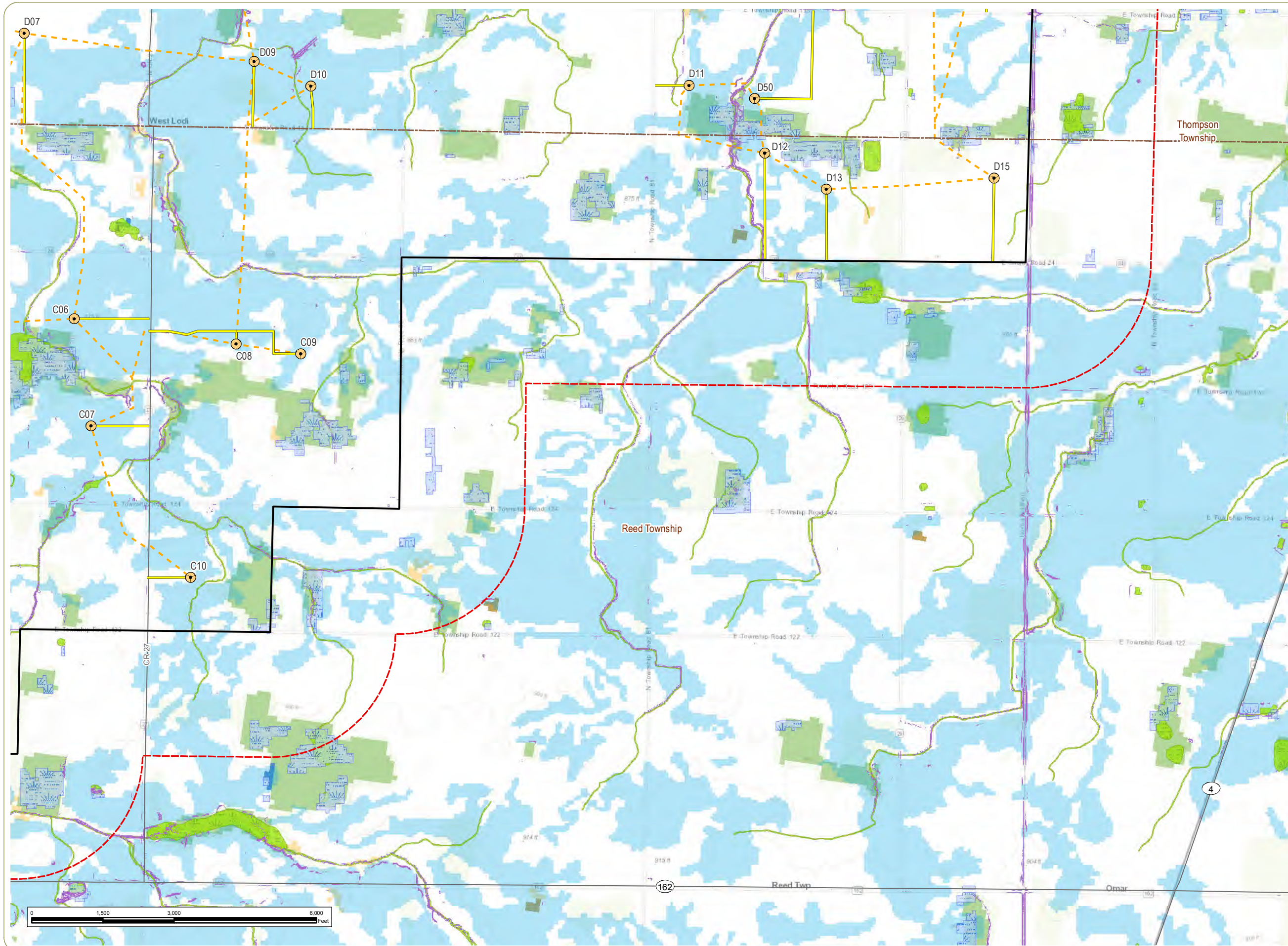


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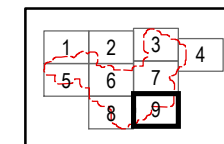
Republic Wind Farm

York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-3. Ecological Features

- Wind Turbine
- Collection Line
- Access Road
- ODNR Mapped Wetland
- NWI Mapped Wetland
- Slope >12%
- Highly Erodible Land
- Potentially Highly Erodible Land
- 2011 NLCD Undeveloped Land
- Baren Land
- Forest
- Grassland/Herbaceous
- Wetland
- Project Boundary
- Half-Mile Study Area
- Township Boundary
- County Boundary

Sheet 9 of 9

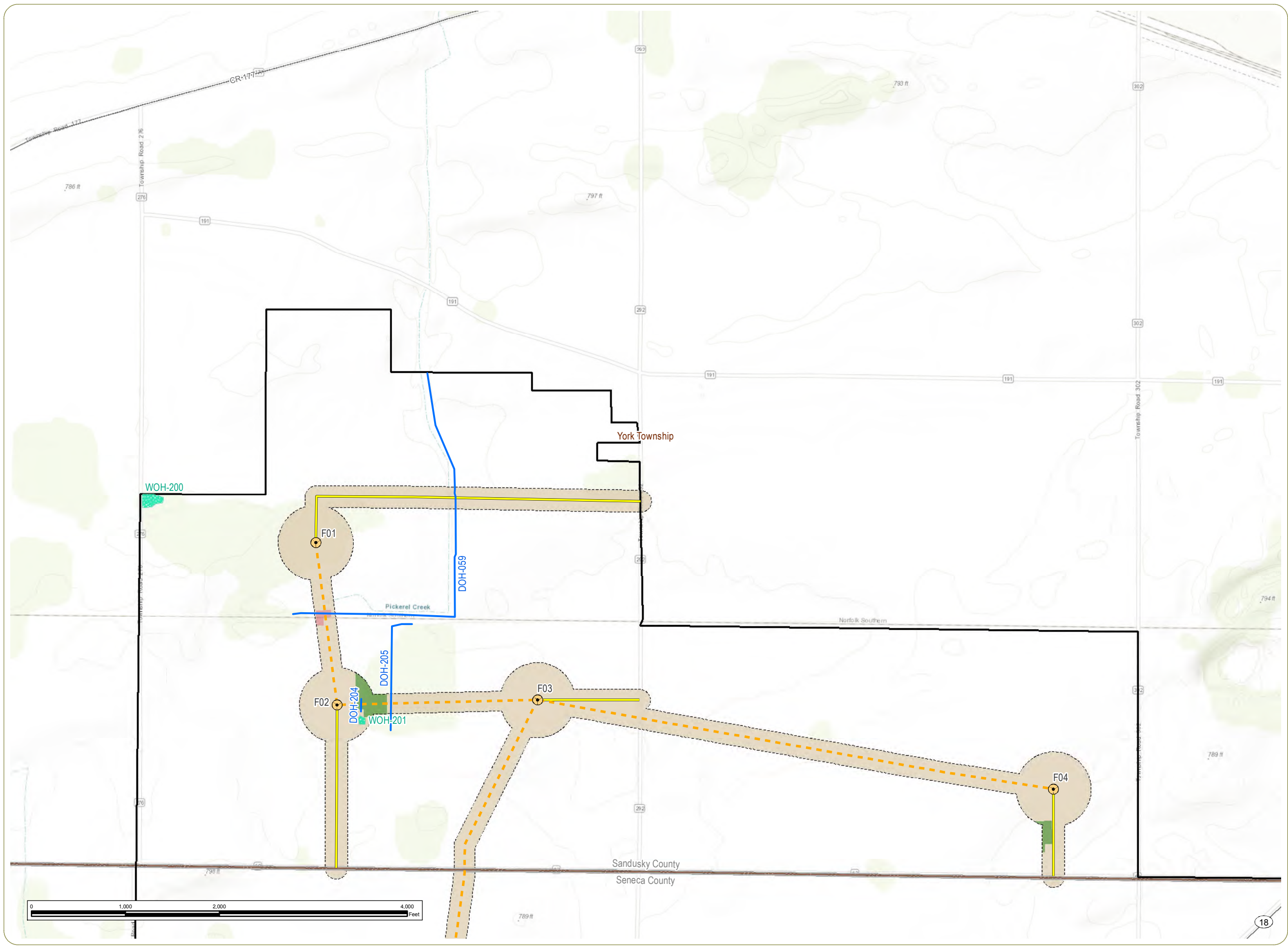


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York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

Sheet 1 of 23












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

Notes:
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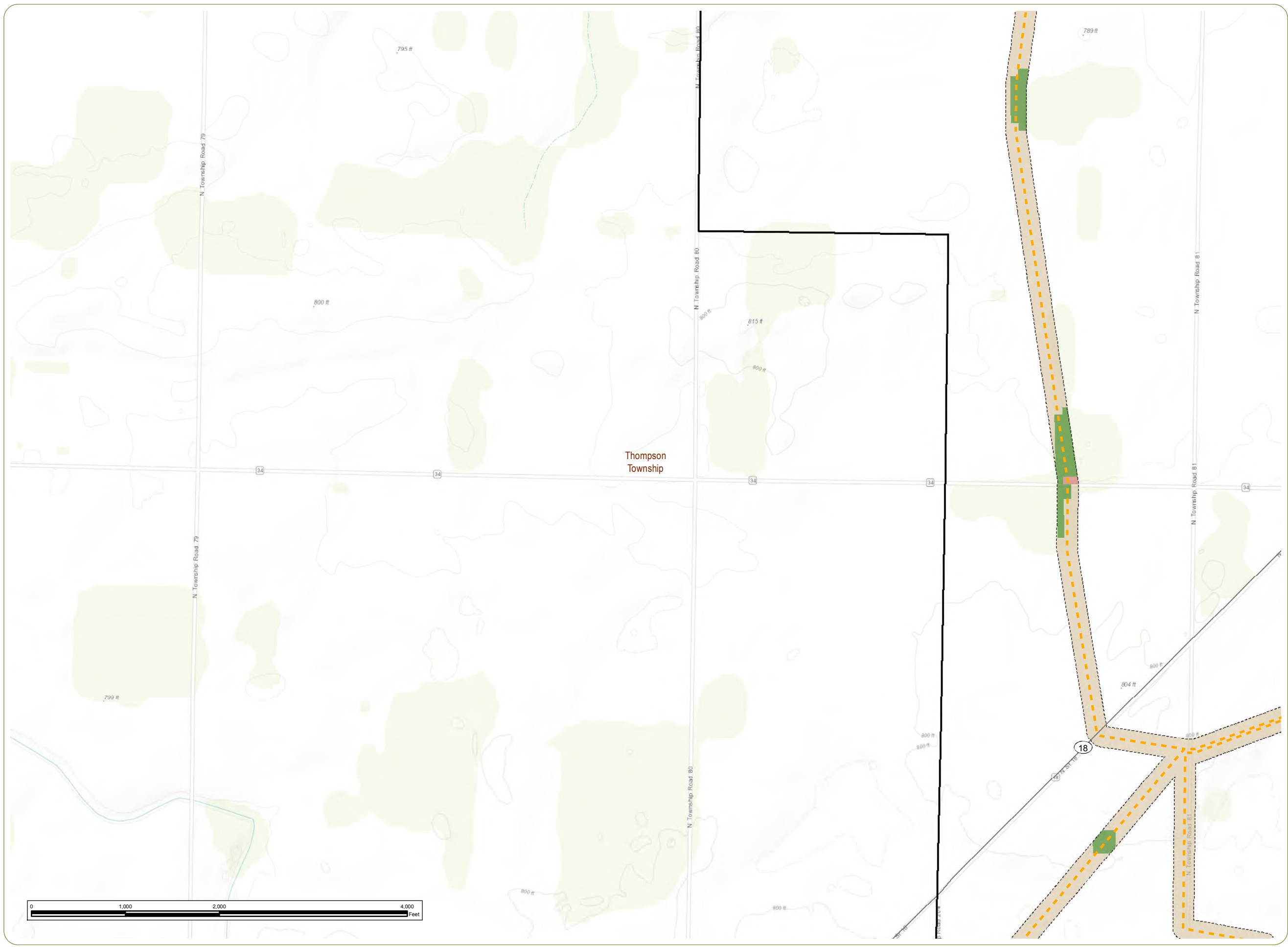
York Township, Sandusky
County, Pleasant, Adams,
Thompson, Scipio and Reed
Townships, Seneca County,
Ohio

-  Collection Line
-  Delineated Stream
-  Delineated Wetland
-  100 foot Buffer of Potential Construction Impact Area
-  Project Boundary
-  Township Boundary
-  County Boundary
-  Vegetative Community
-  Disturbed/Developed
-  Agricultural Land
-  Forestland

A 10x10 grid with numbers 1-23 placed in various cells. Cell (3,2) containing the number 2 is highlighted with a thick black border.

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York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-4. Delineated Resources

- Collection Line
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

Sheet 3 of 23

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

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Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- O&M Facility
- Laydown Yard
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

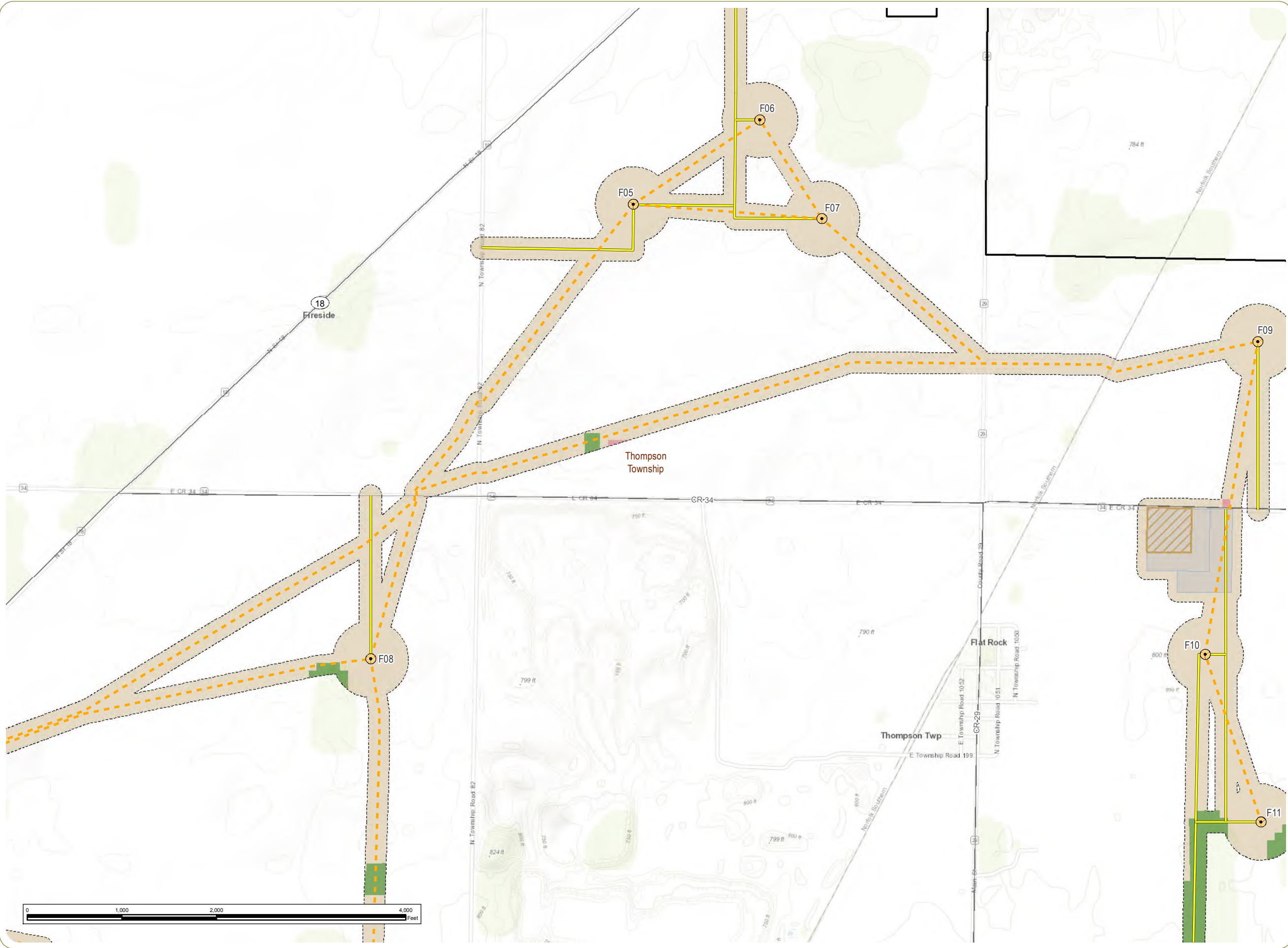
Sheet 4 of 23

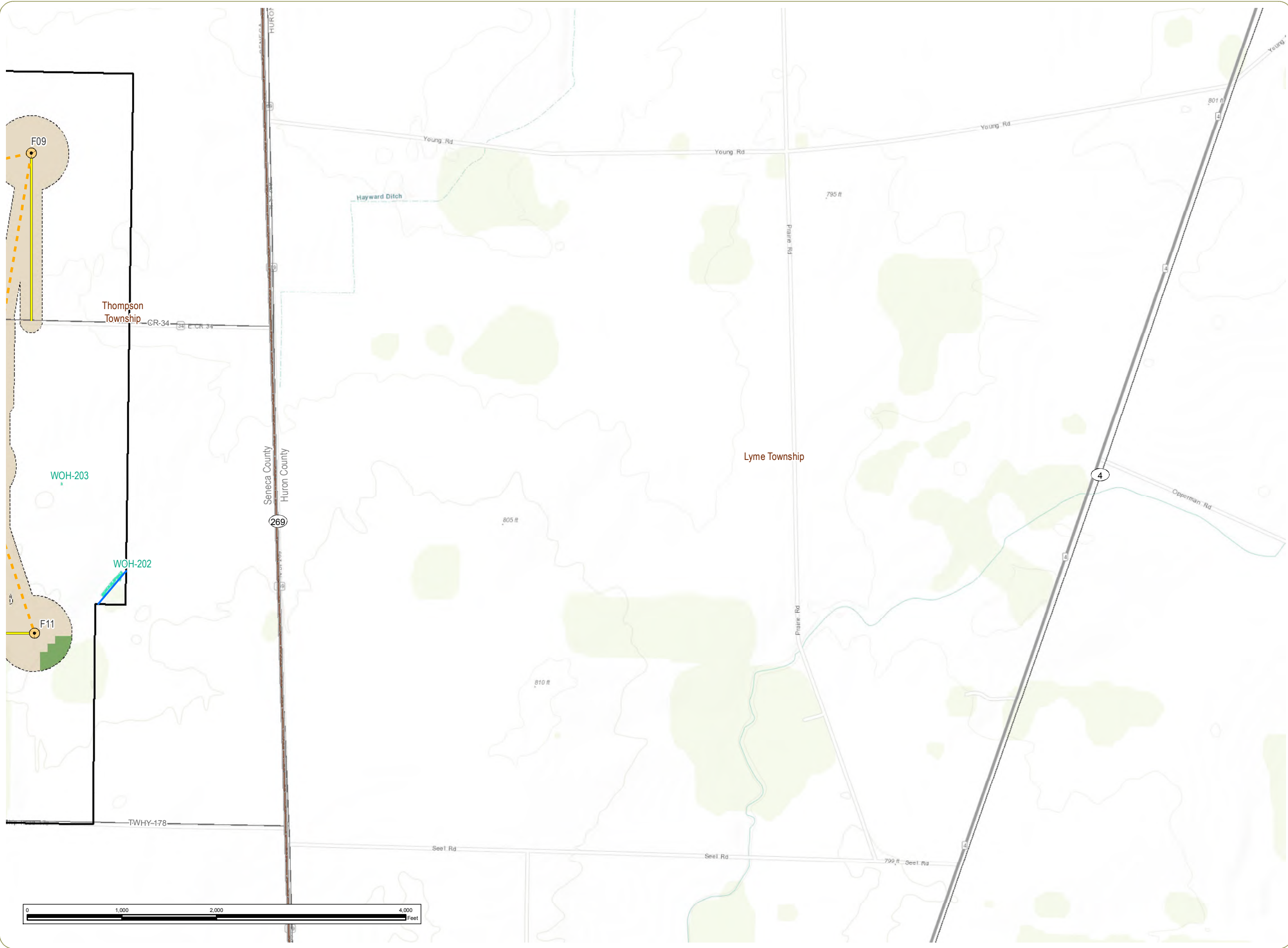
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12	13	14	15	16	17	
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Figure 08-4. Delineated Resources

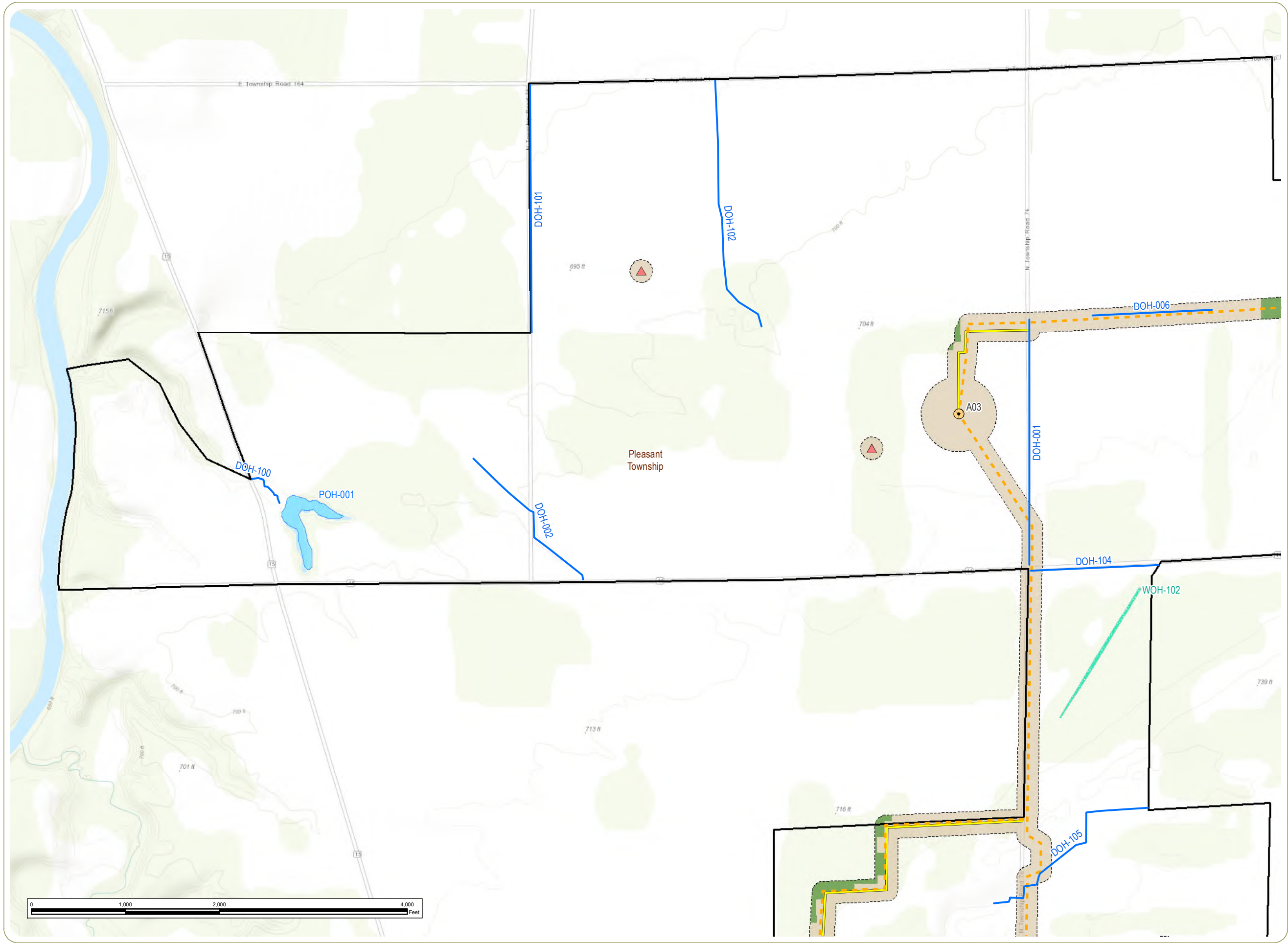
- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Agricultural Land
 - Forestland

Sheet 5 of 23

				1	
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Figure 08-4. Delineated Resources

- Met Tower
- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- Delineated Waterbody
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Agricultural Land
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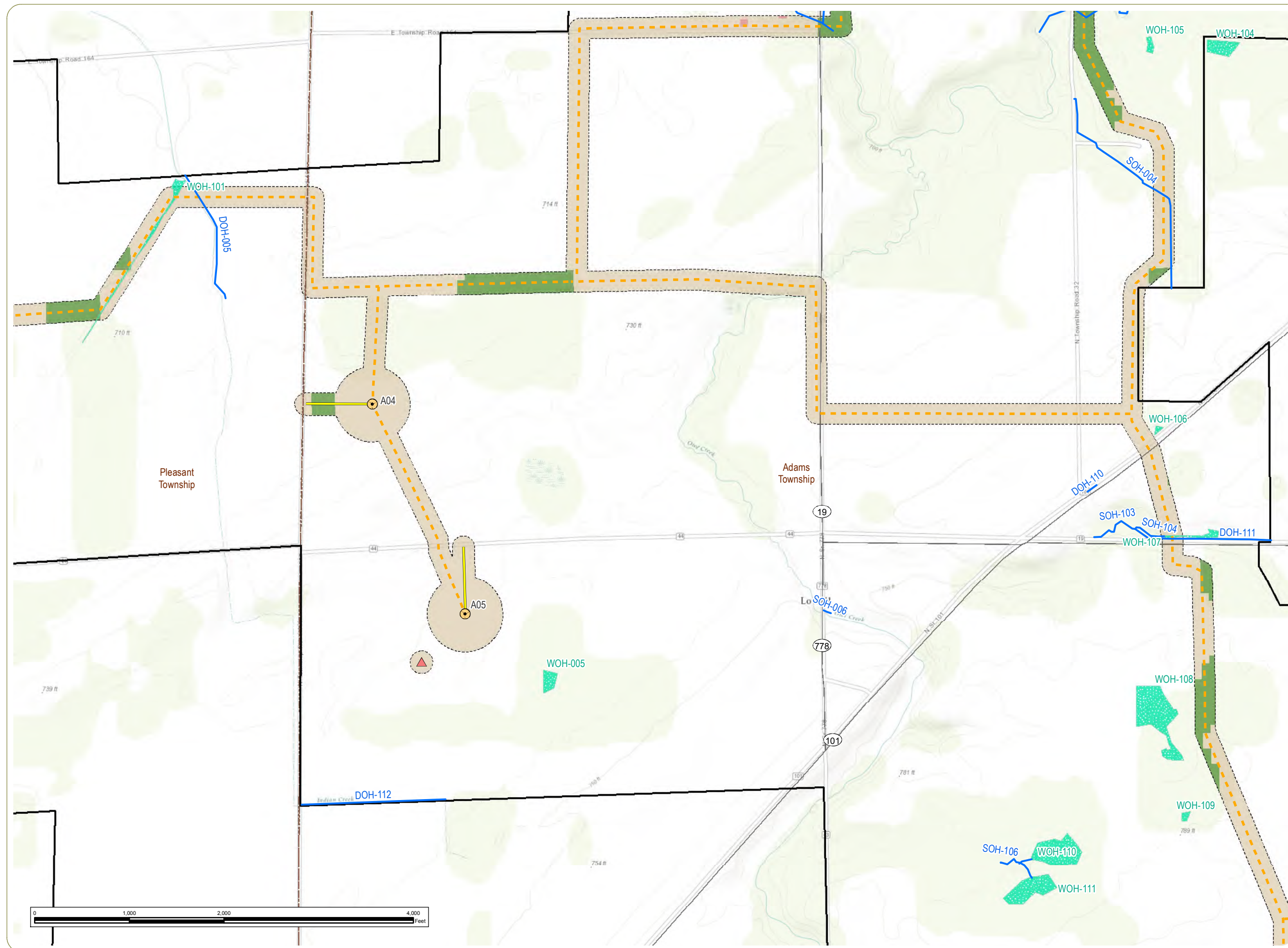
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Figure 08-4. Delineated Resources

- Met Tower
- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

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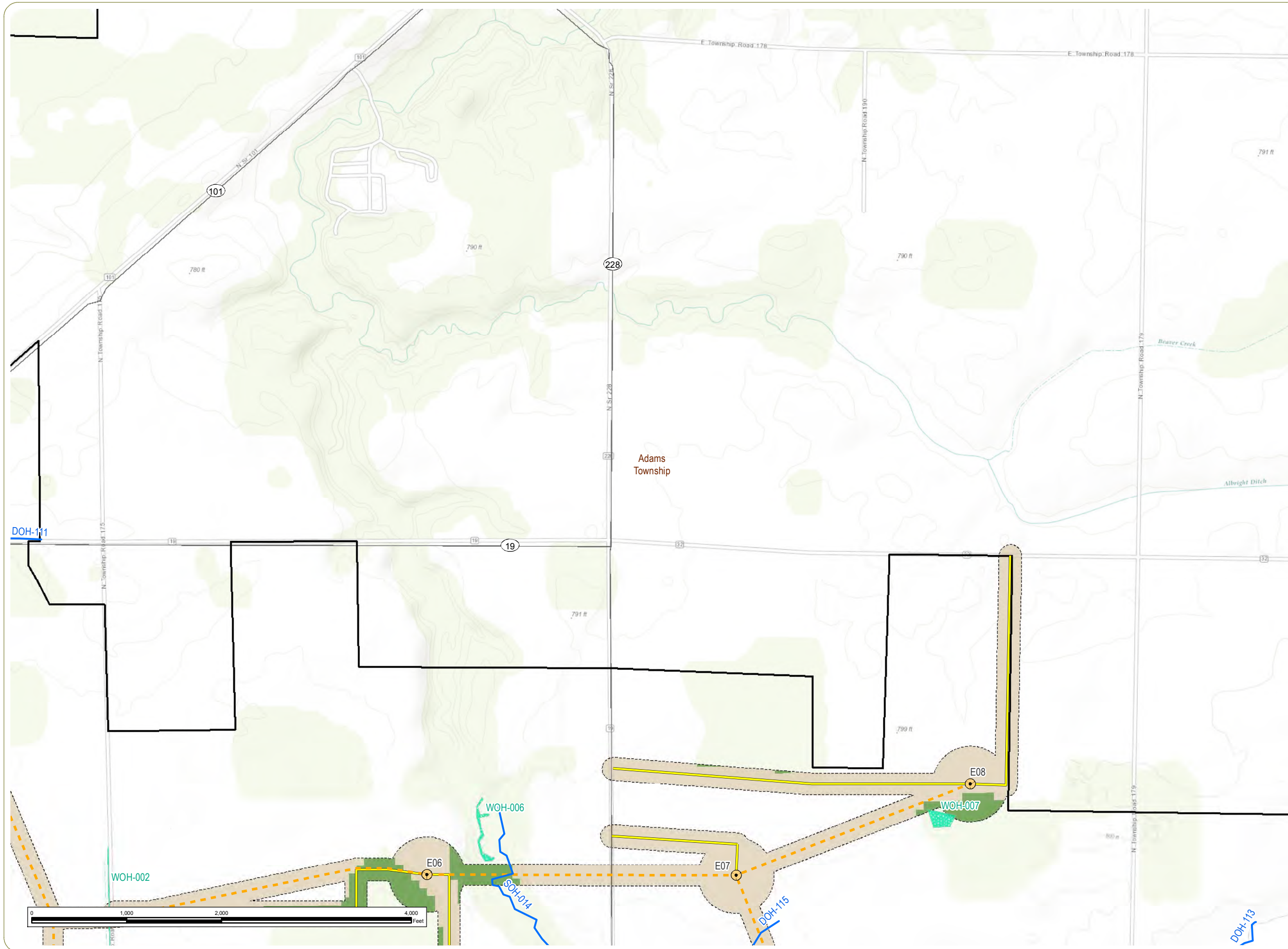
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Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Agricultural Land
 - Forestland

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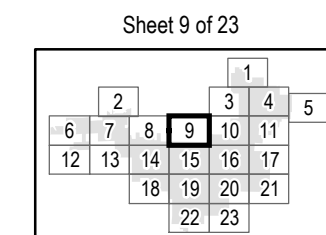
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County, Pleasant, Adams,
Thompson, Scipio and Reed
Townships, Seneca County,
Ohio

 Delineated Stream
 Project Boundary
 Township Boundary
 County Boundary



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York Township, Sandusky County, Pleasant, Adams, Thompson, Scipio and Reed Townships, Seneca County, Ohio

Figure 08-4. Delineated Resources

- Collection Line
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Agricultural Land
 - Forestland

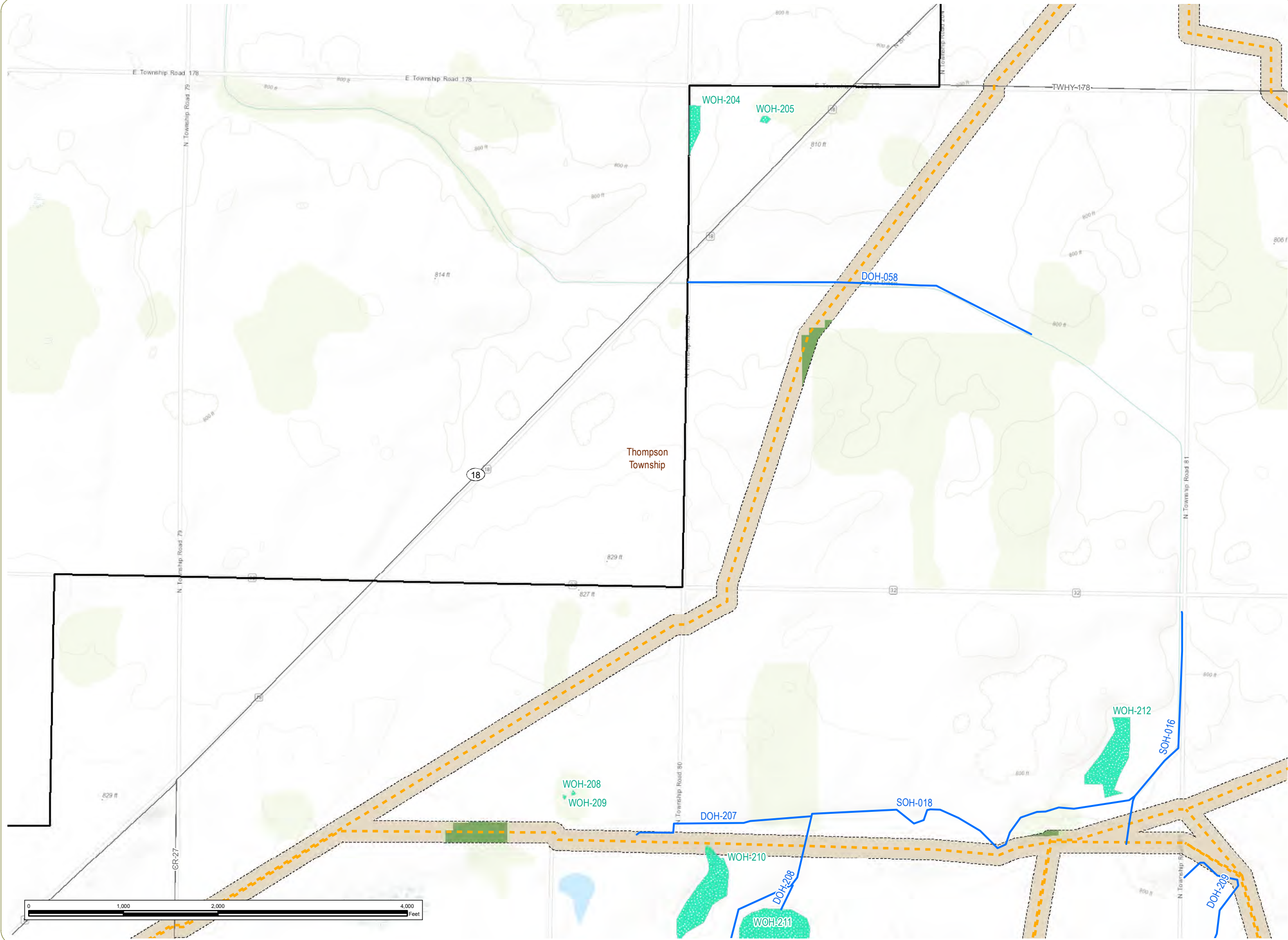
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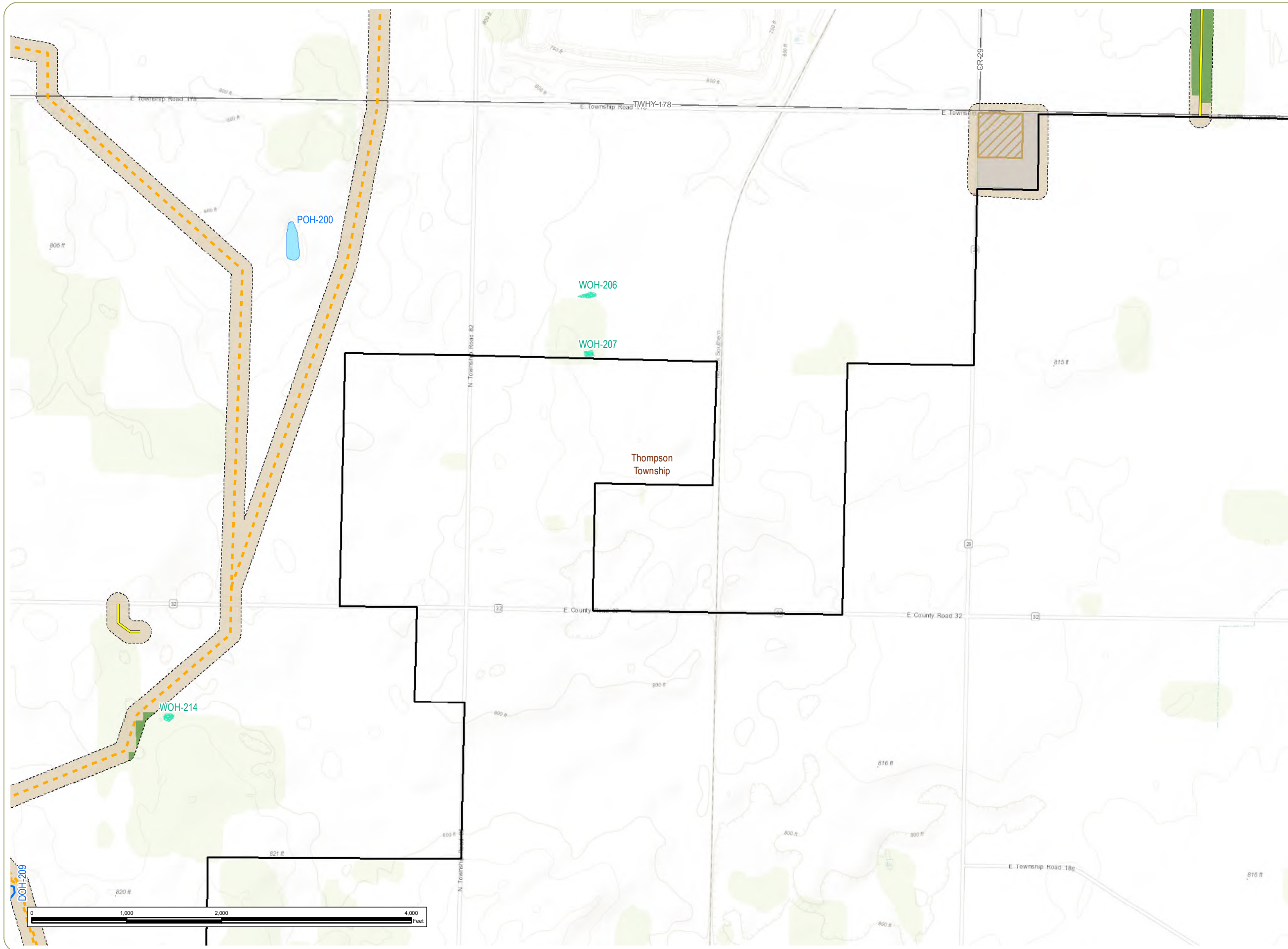
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Figure 08-4. Delineated Resources

- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- Delineated Waterbody
- O&M Facility
- Laydown Yard
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

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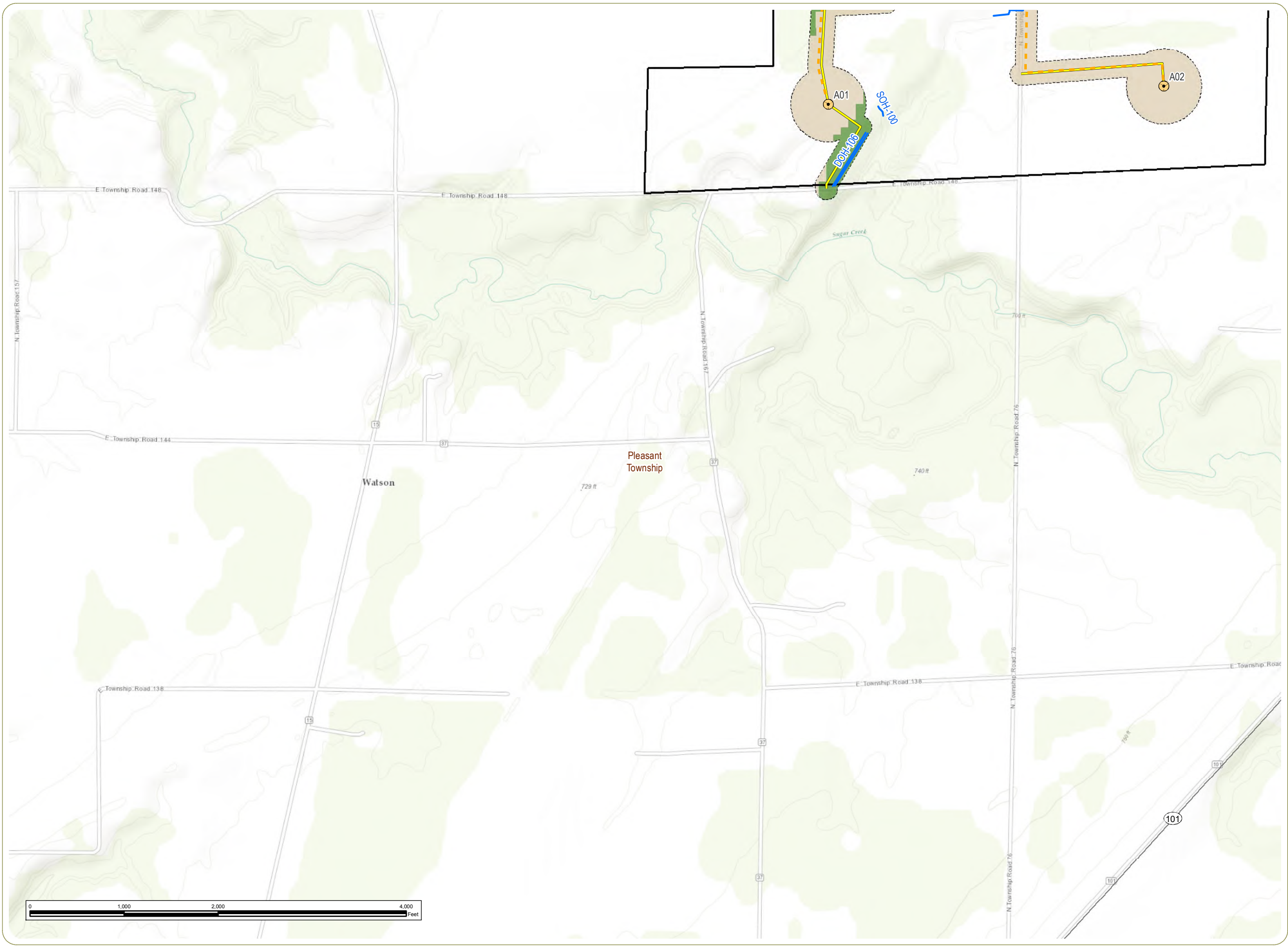
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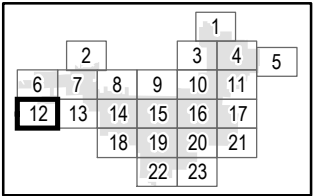
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Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Agricultural Land
 - Forestland

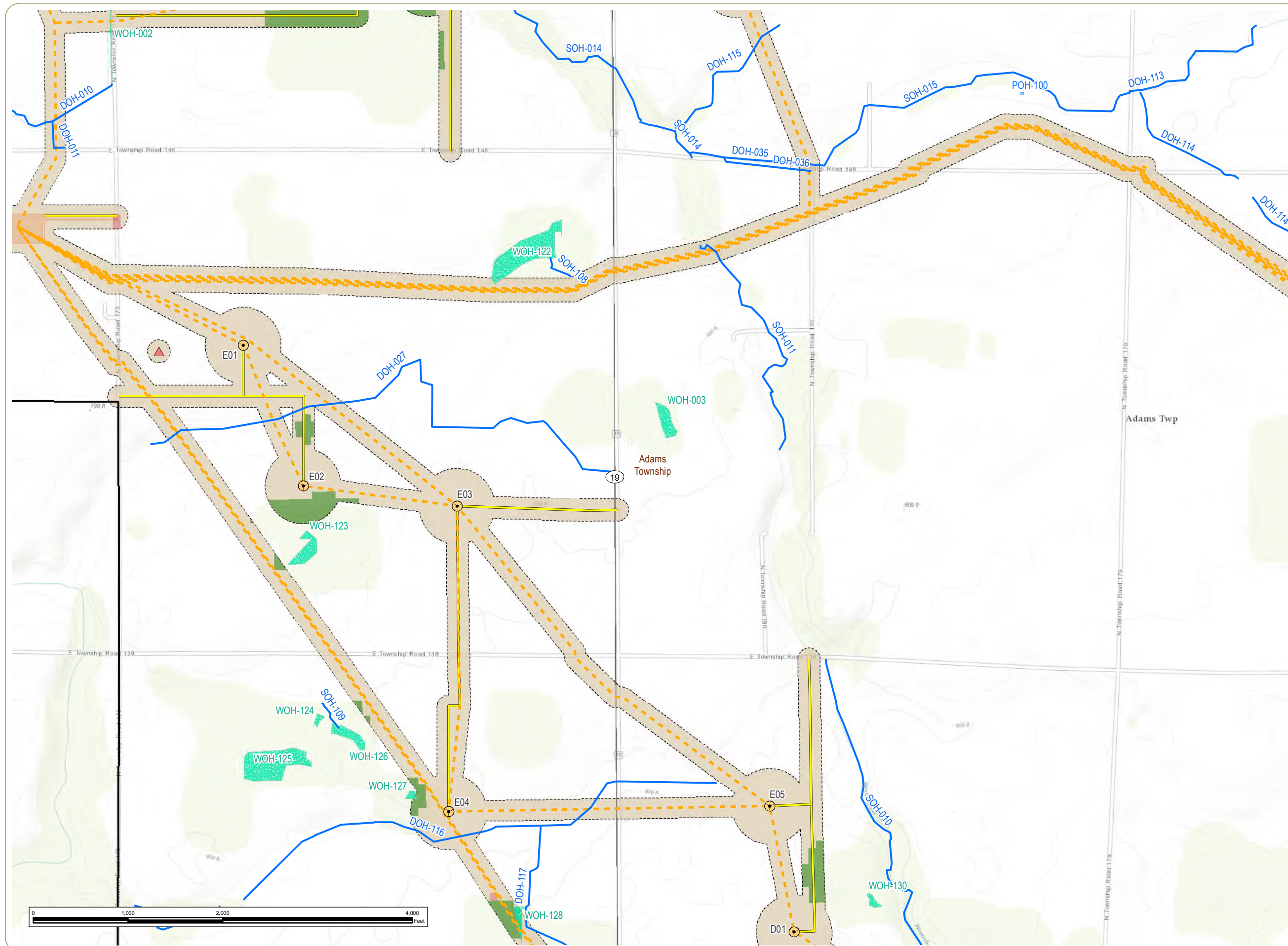
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Figure 08-4. Delineated Resources

- Met Tower
- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- Delineated Waterbody
- Collection Substation
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

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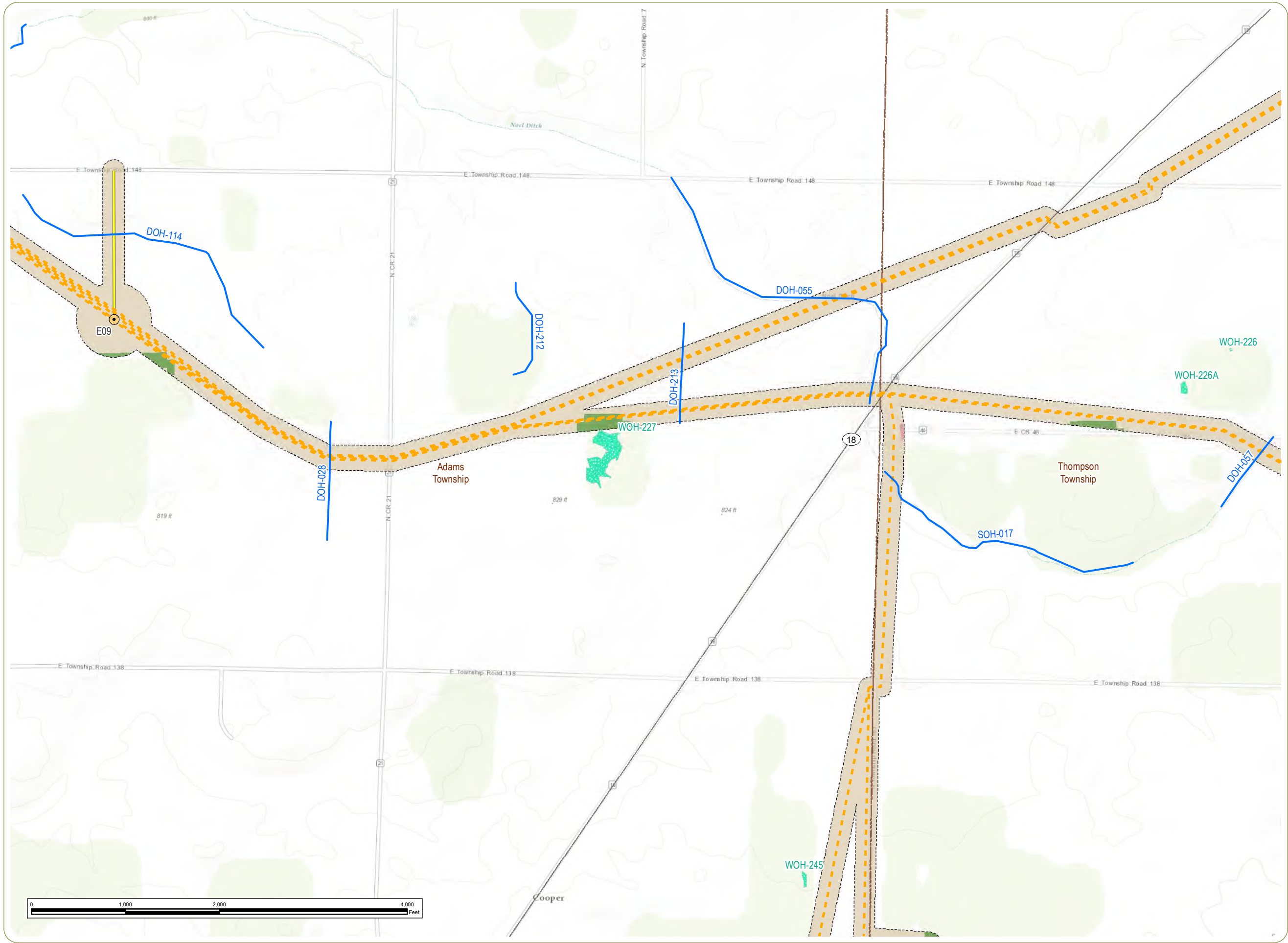
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Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

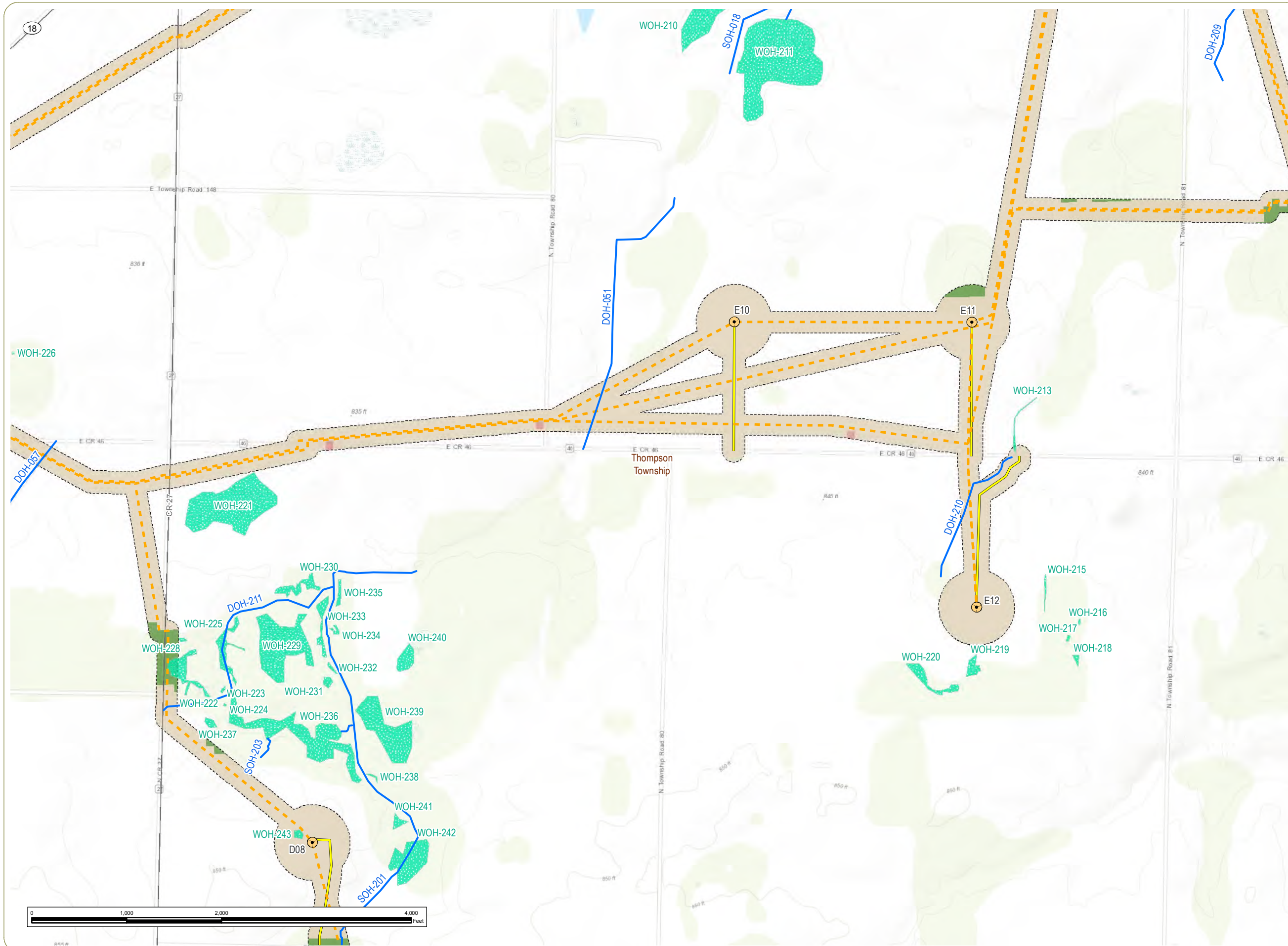
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Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

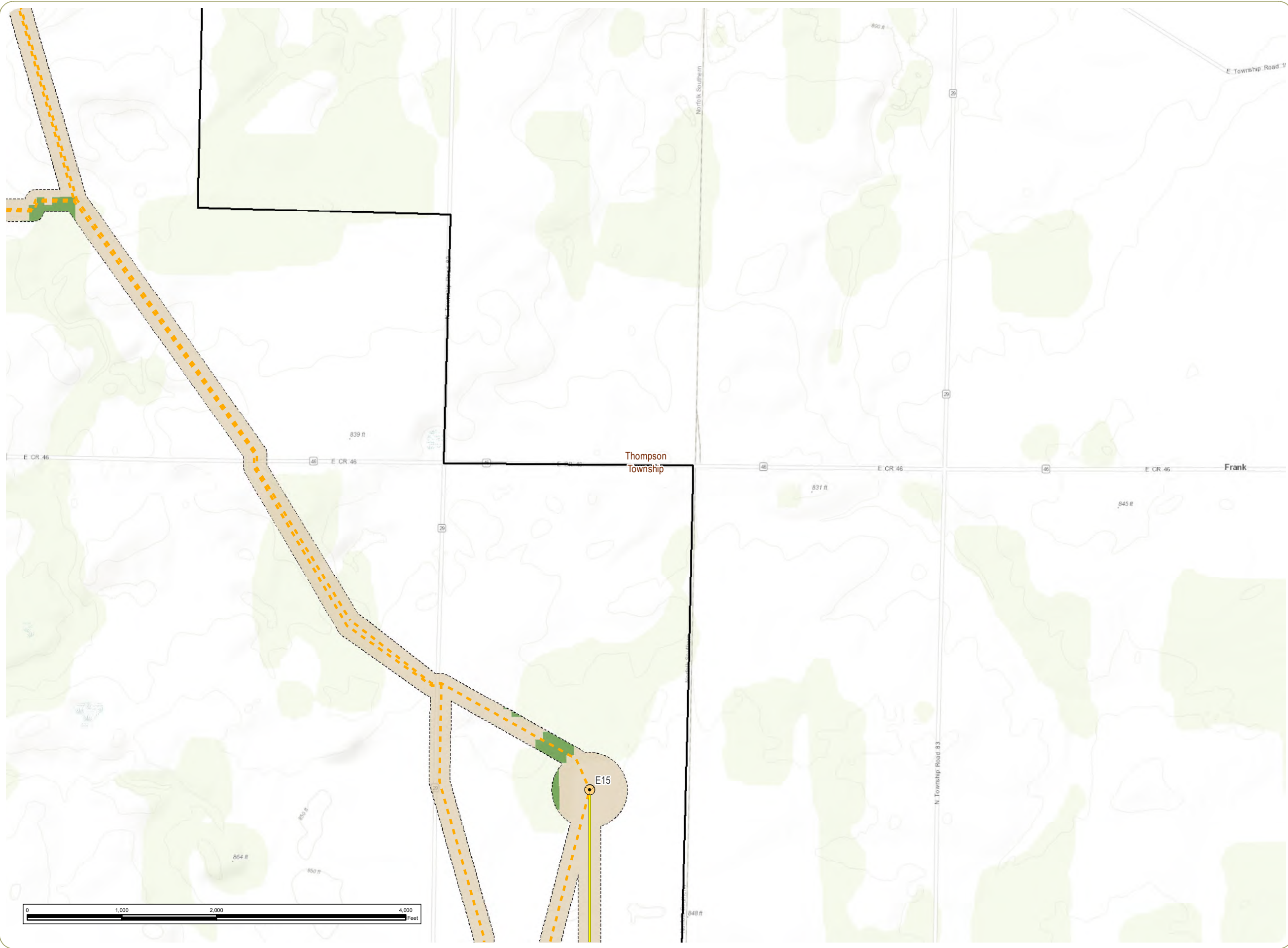
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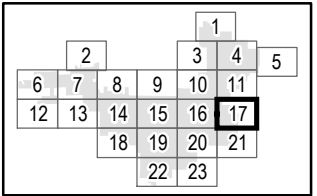
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Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Agricultural Land
 - Forestland

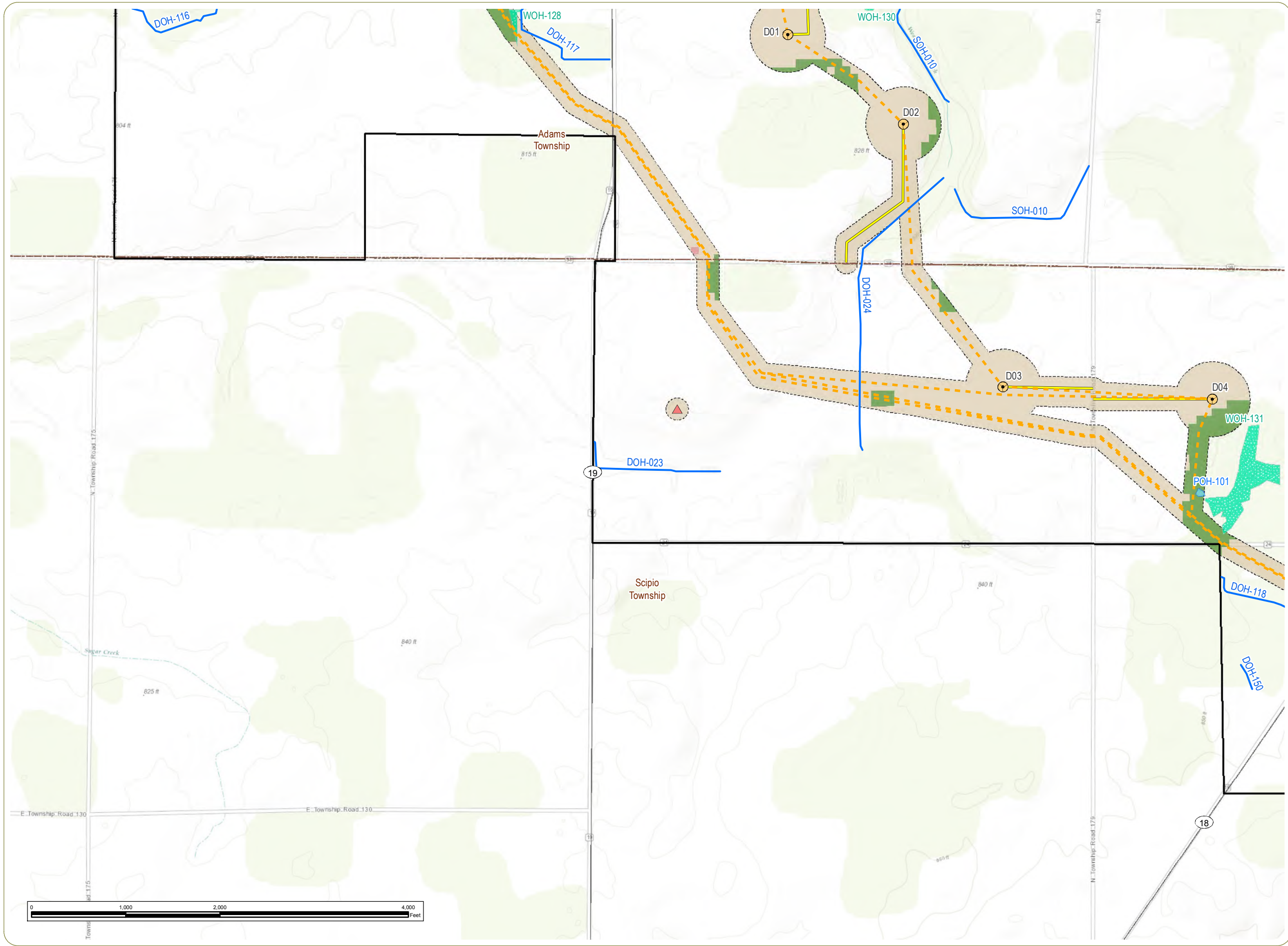
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Figure 08-4. Delineated Resources

- Met Tower
- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- Delineated Waterbody
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
- Disturbed/Developed
- Agricultural Land
- Forestland

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Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

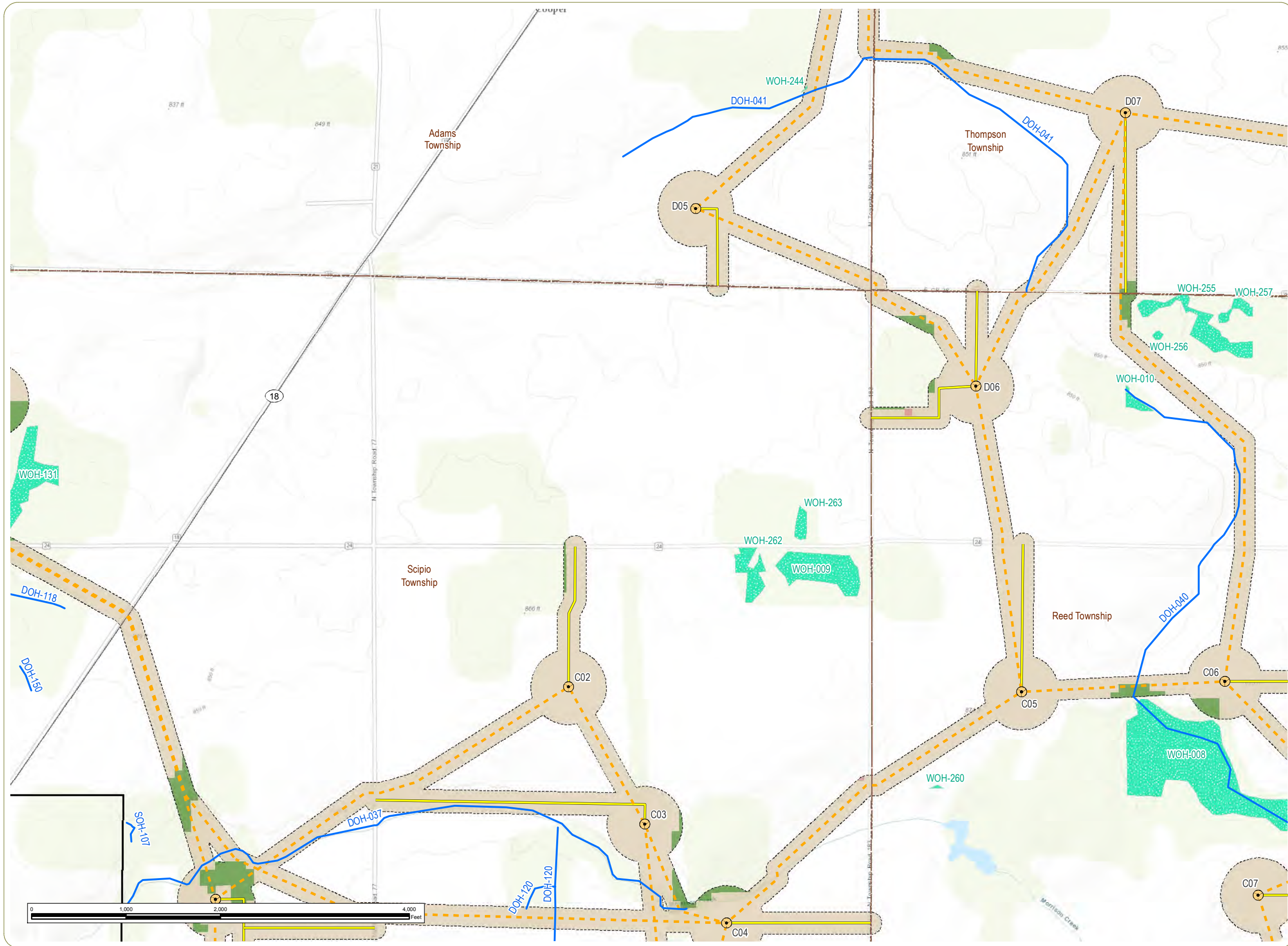
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Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland

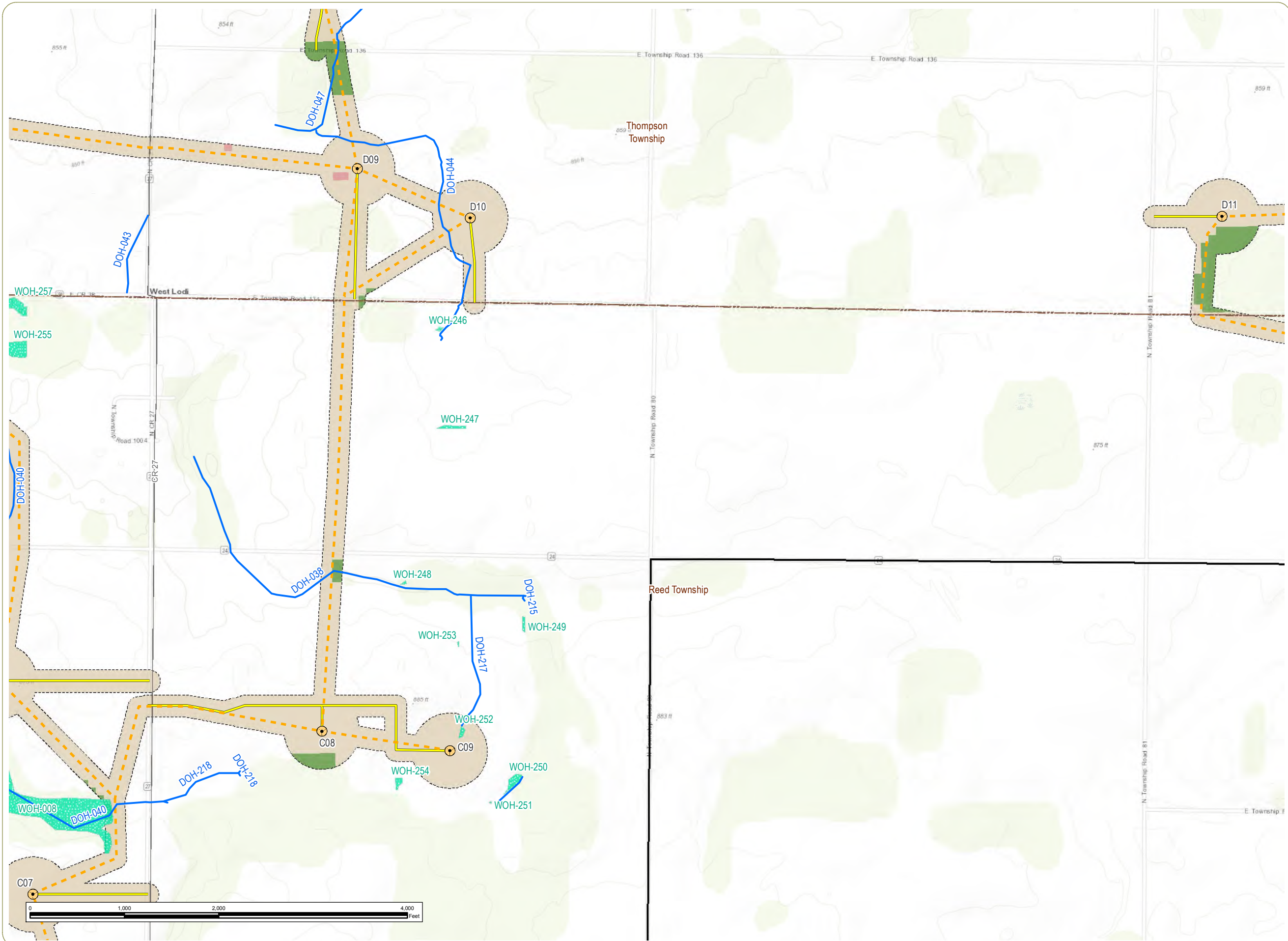
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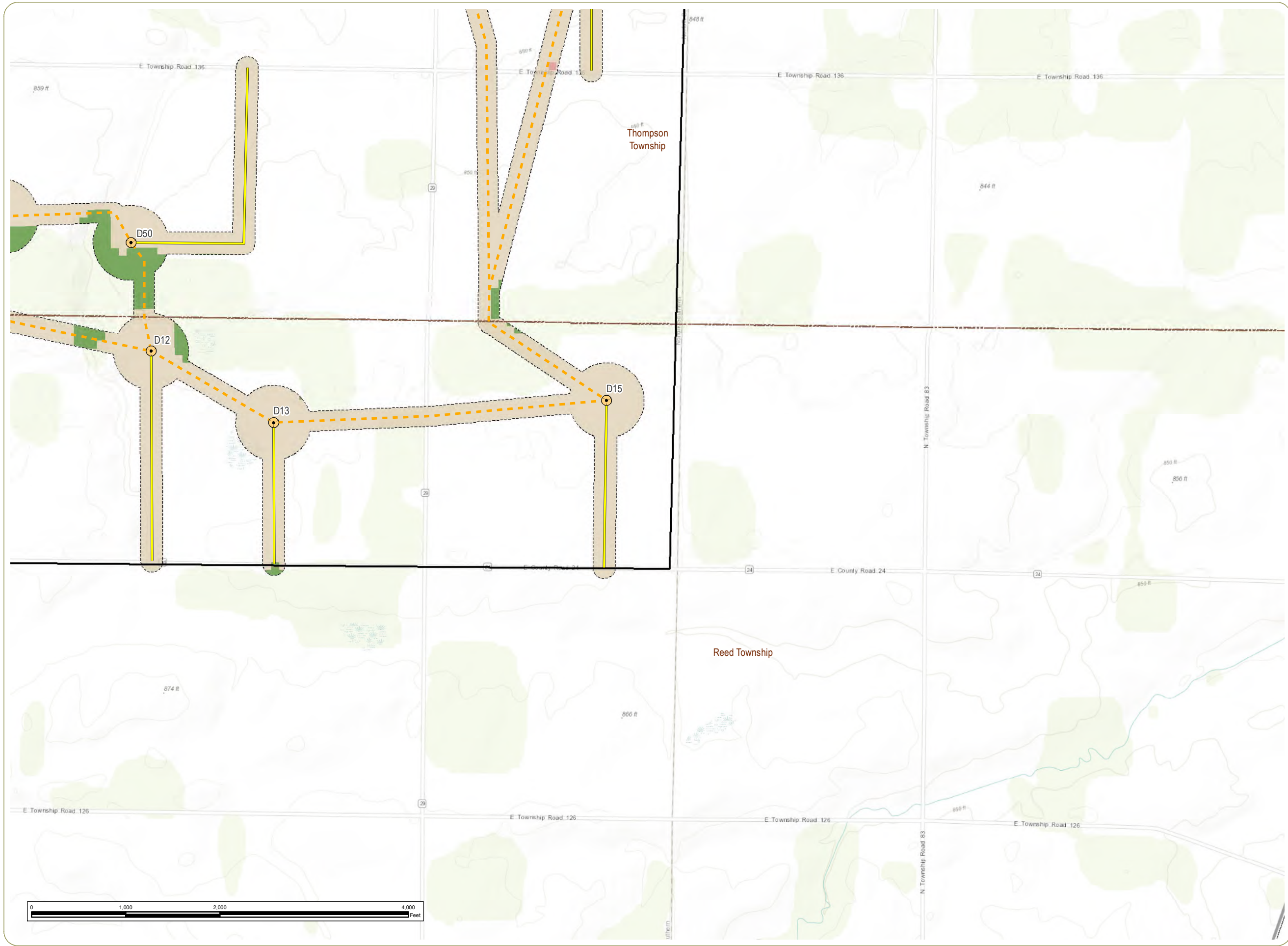
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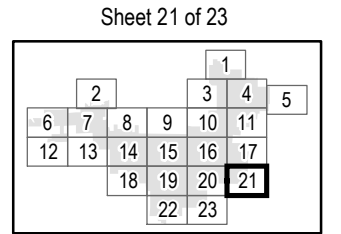


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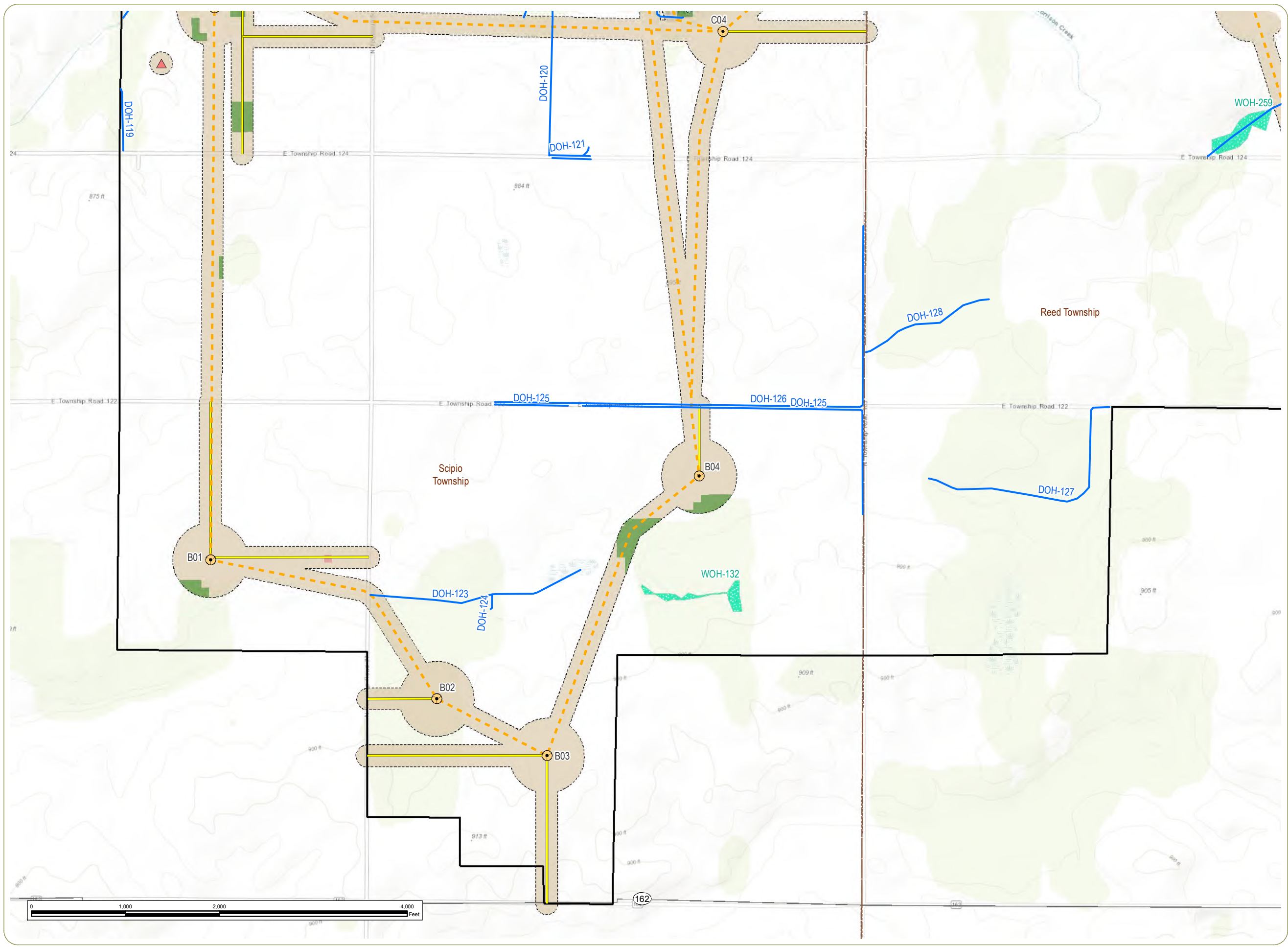
Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
 - Disturbed/Developed
 - Agricultural Land
 - Forestland



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Figure 08-4. Delineated Resources

- ▲ Met Tower
- Wind Turbine
- - - Collection Line
- Access Road
- Delineated Stream
- ▨ Delineated Wetland
- - - 100 foot Buffer of Potential Construction Impact Area
- ▭ Project Boundary
- - - Township Boundary
- ▭ County Boundary
- Vegetative Community
 - ▭ Disturbed/Developed
 - ▭ Agricultural Land
 - ▭ Forestland

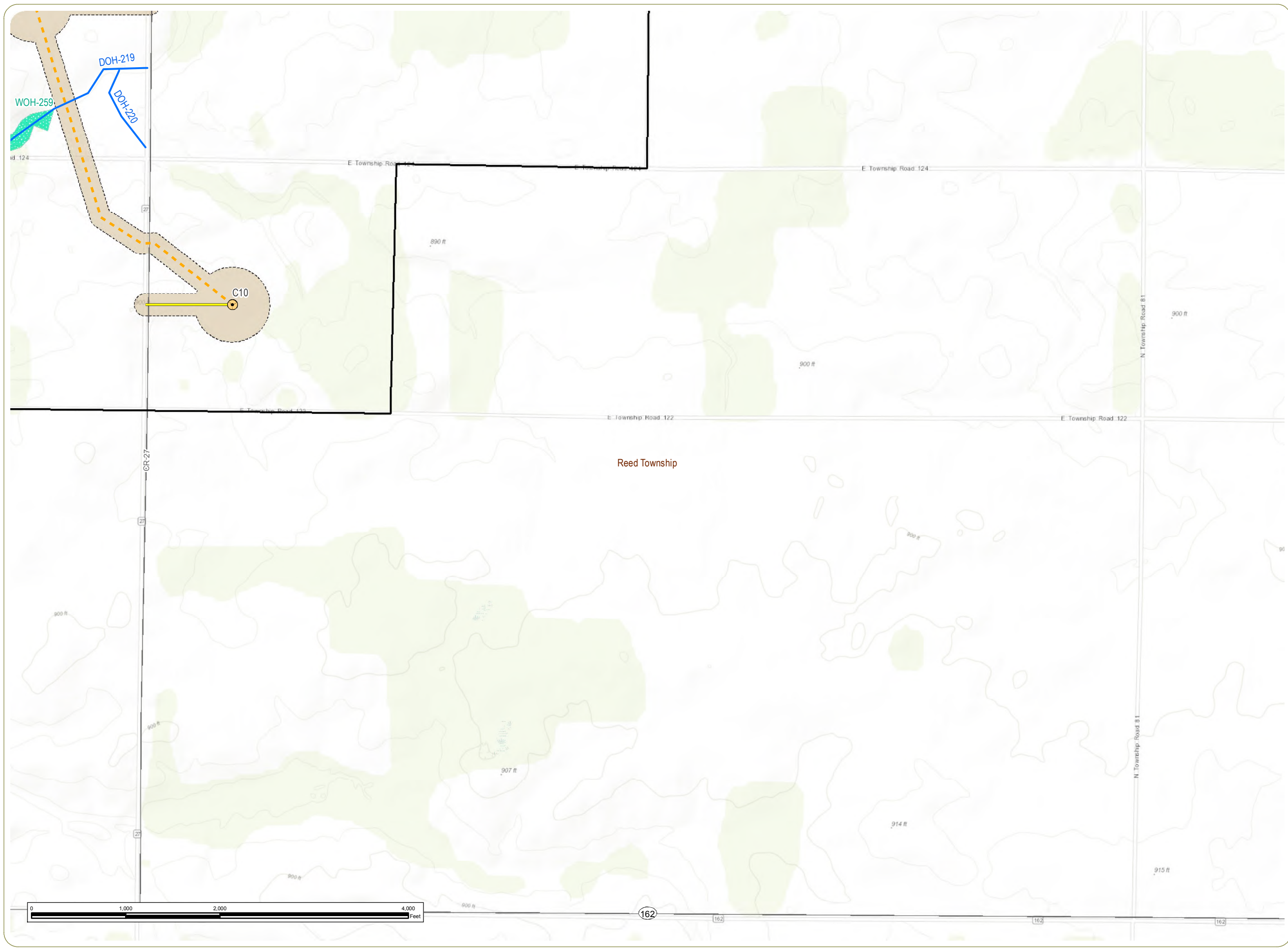
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Figure 08-4. Delineated Resources

- Wind Turbine
- Collection Line
- Access Road
- Delineated Stream
- Delineated Wetland
- 100 foot Buffer of Potential Construction Impact Area
- Project Boundary
- Township Boundary
- County Boundary
- Vegetative Community
- Agricultural Land

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Summary: Application Figures 08-1 through 08-4 electronically filed by Teresa Orahod on behalf of Sally W. Bloomfield