

## **Section 4906-4-03: Figures**

---

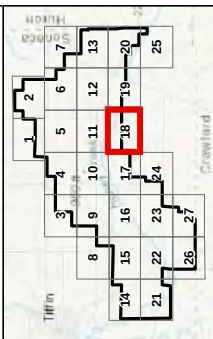
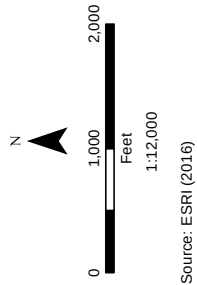
- **Figure 03-3: Project Layout (Sheets 18 - 27 of 27)**
- **Figure 03-4: Project Schedule**

**Figure 03-3**  
**Project Layout**

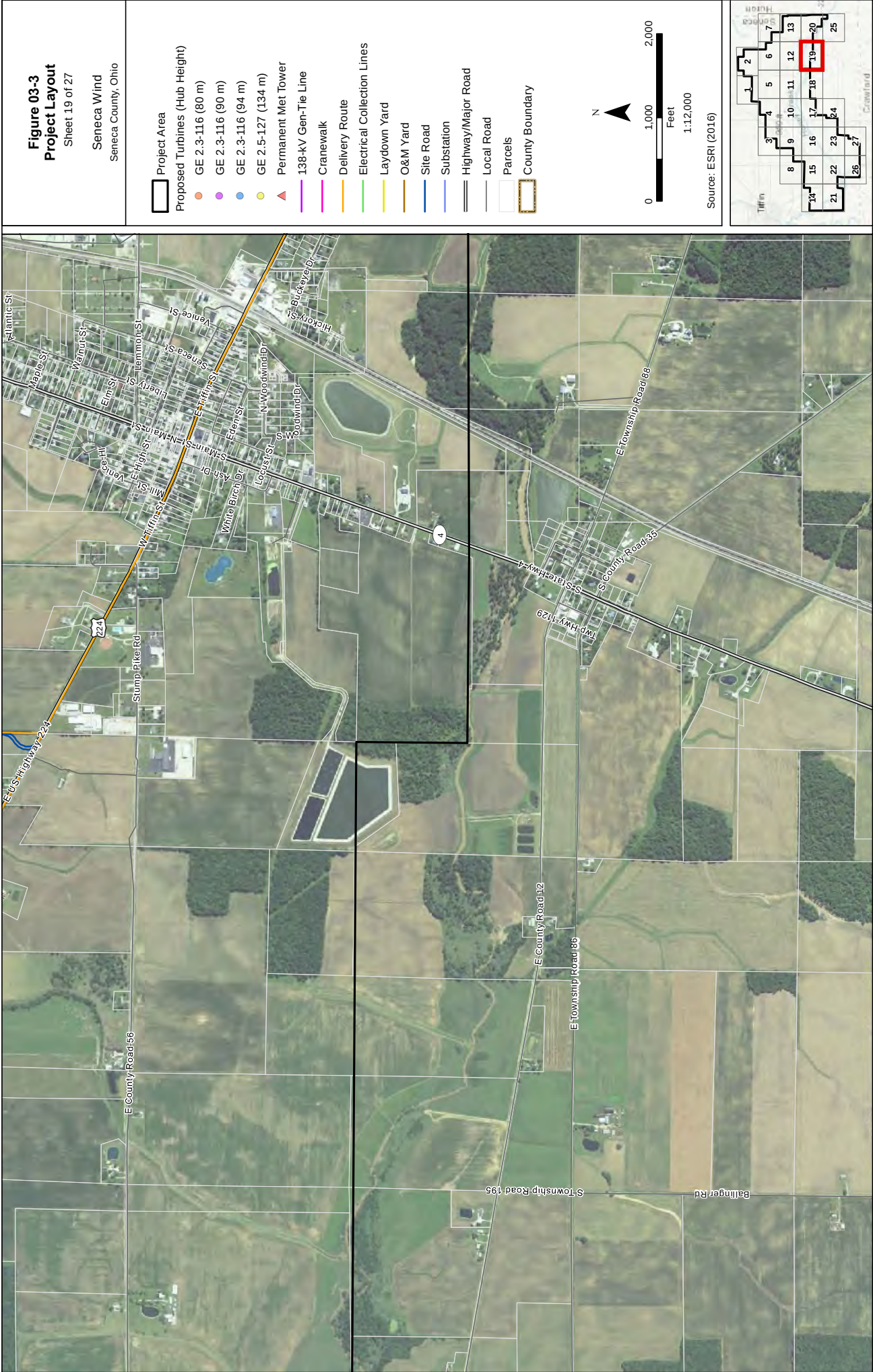
Sheet 18 of 27

Seneca Wind  
Seneca County, Ohio

- Project Area
- Proposed Turbines (Hub Height)
  - GE 2.3-116 (80 m)
  - GE 2.3-116 (90 m)
  - GE 2.3-116 (94 m)
  - GE 2.5-127 (134 m)
- Permanent Met Tower
- 138-kV Gen-Tie Line
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- O&M Yard
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary







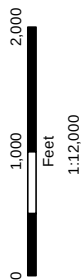


**Figure 03-3**  
**Project Layout**

Sheet 20 of 27

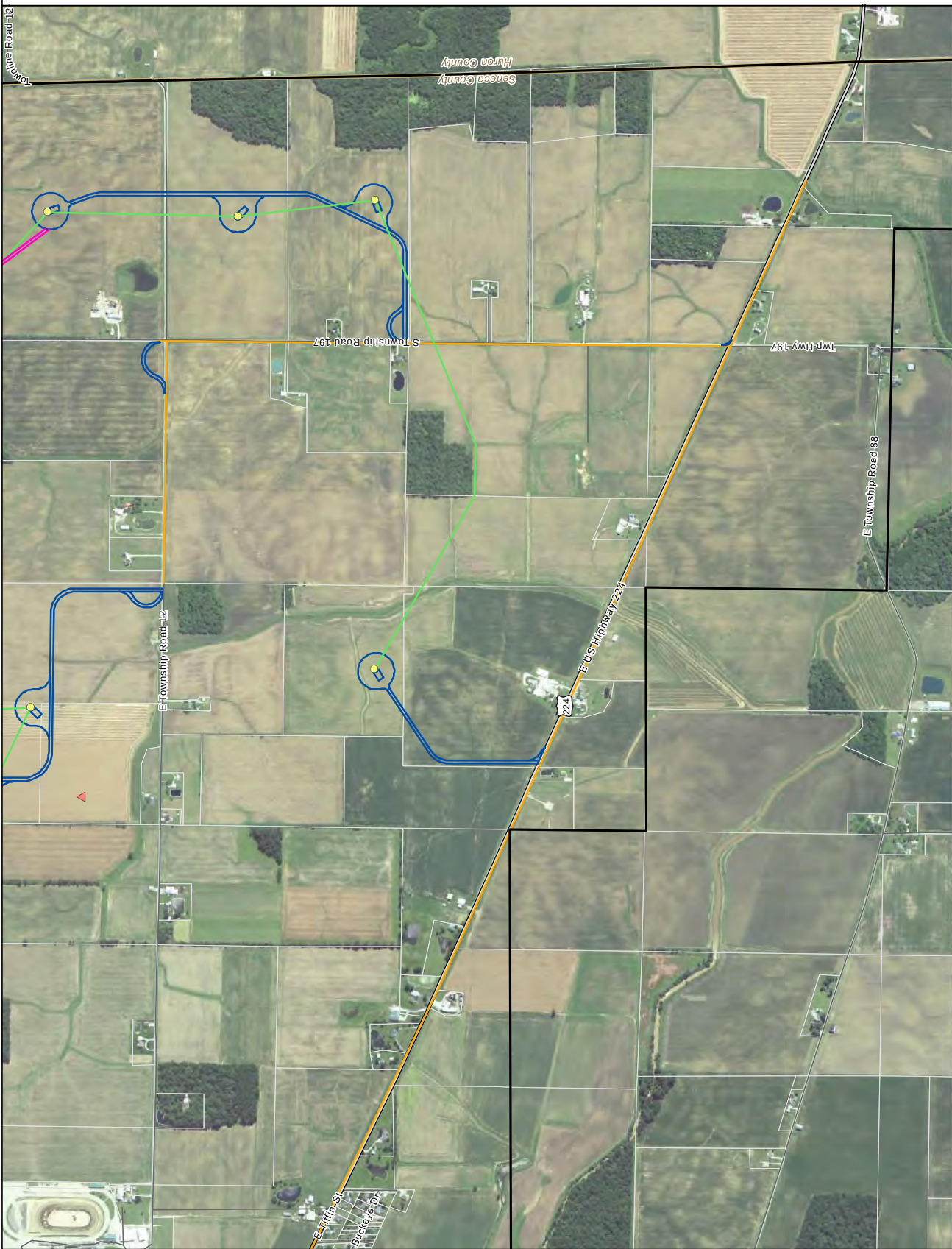
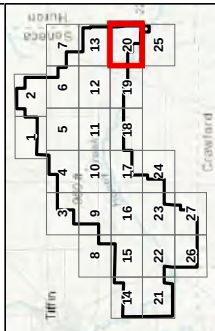
Seneca Wind  
Seneca County, Ohio

-  Project Area
- Proposed Turbines (Hub Height)
-  GE 2.3-116 (80 m)
  -  GE 2.3-116 (90 m)
  -  GE 2.3-116 (94 m)
  -  GE 2.5-127 (134 m)
-  Permanent Met Tower
-  138-kV Gen-Tie Line
-  Cranewalk
-  Delivery Route
-  Electrical Collection Lines
-  Laydown Yard
-  O&M Yard
-  Site Road
-  Substation
-  Highway/Major Road
-  Local Road
-  Parcels
-  County Boundary



1:12,000

Source: ESRI (2016)



R:\PROJECTS\SENECA\_6330\PSBMAPS\Figure\_03-3\_Layoumxd



**Figure 03-3**  
**Project Layout**

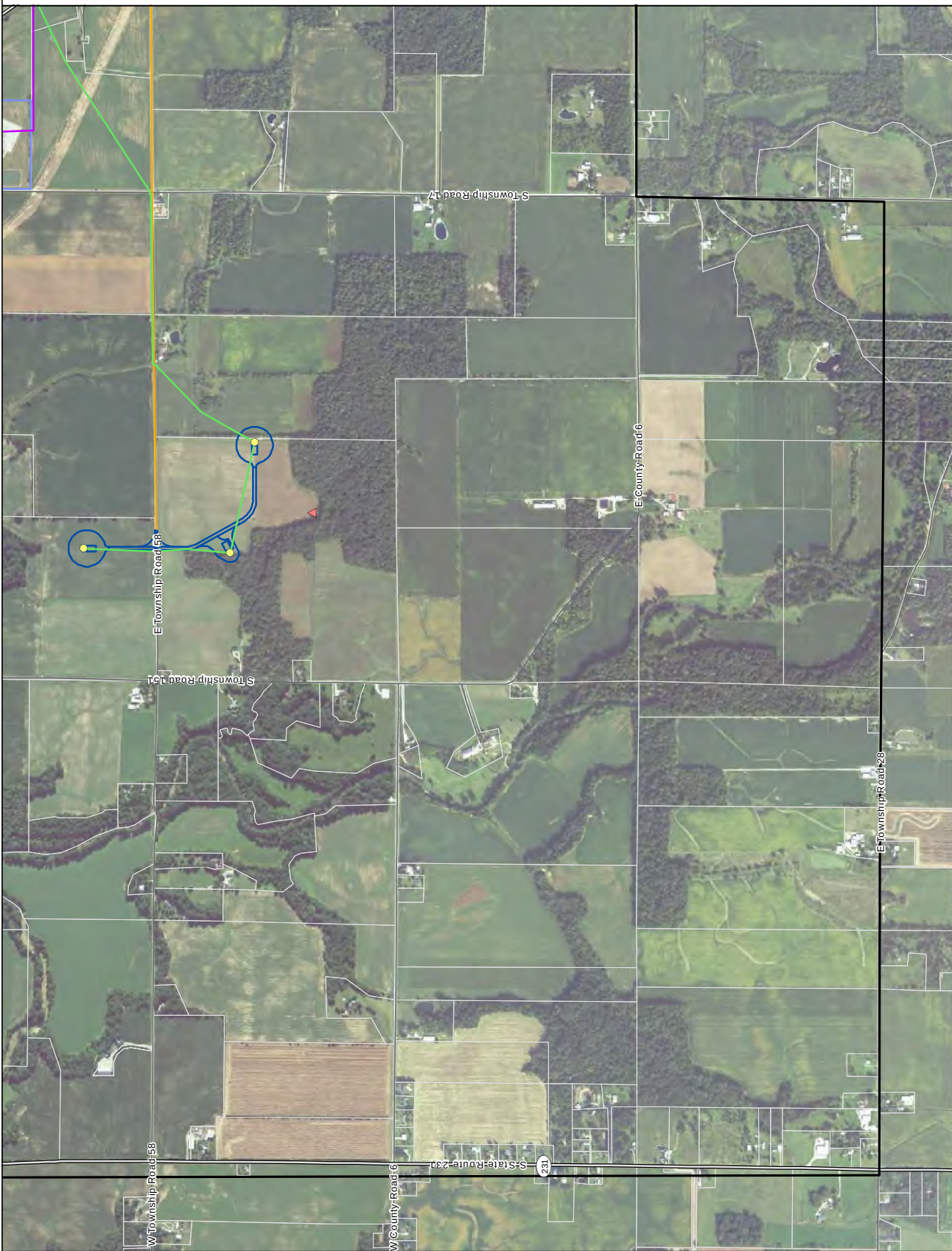
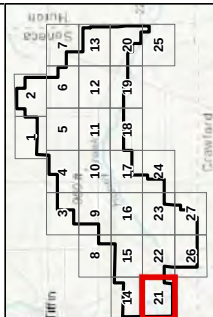
Sheet 21 of 27

Seneca Wind  
Seneca County, Ohio

-  Project Area
- Proposed Turbines (Hub Height)
-  GE 2.3-116 (80 m)
  -  GE 2.3-116 (90 m)
  -  GE 2.3-116 (94 m)
  -  GE 2.5-127 (134 m)
  -  Permanent Met Tower
  -  138-kV Gen-Tie Line
  -  Cranewalk
  -  Delivery Route
  -  Electrical Collection Lines
  -  Laydown Yard
  -  O&M Yard
  -  Site Road
  -  Substation
  -  Highway/Major Road
  -  Local Road
  -  Parcels
  -  County Boundary



Source: ESRI (2016)

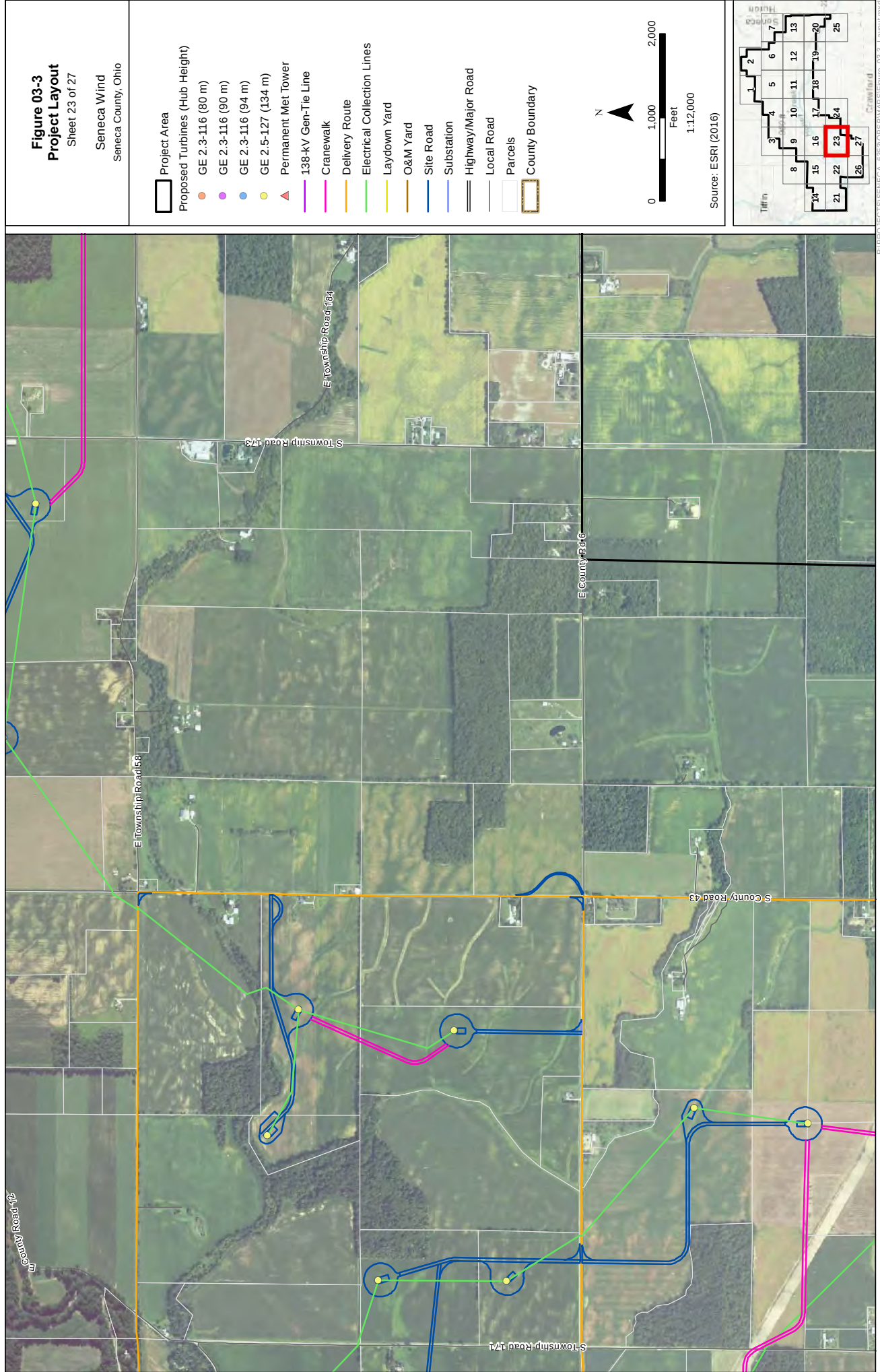


R:\PROJECT\SENeca\_6330\PSWAP\figure\_03-3\_layout.mxd











# Figure 03-3 Project Layout

Sheet 24 of 27

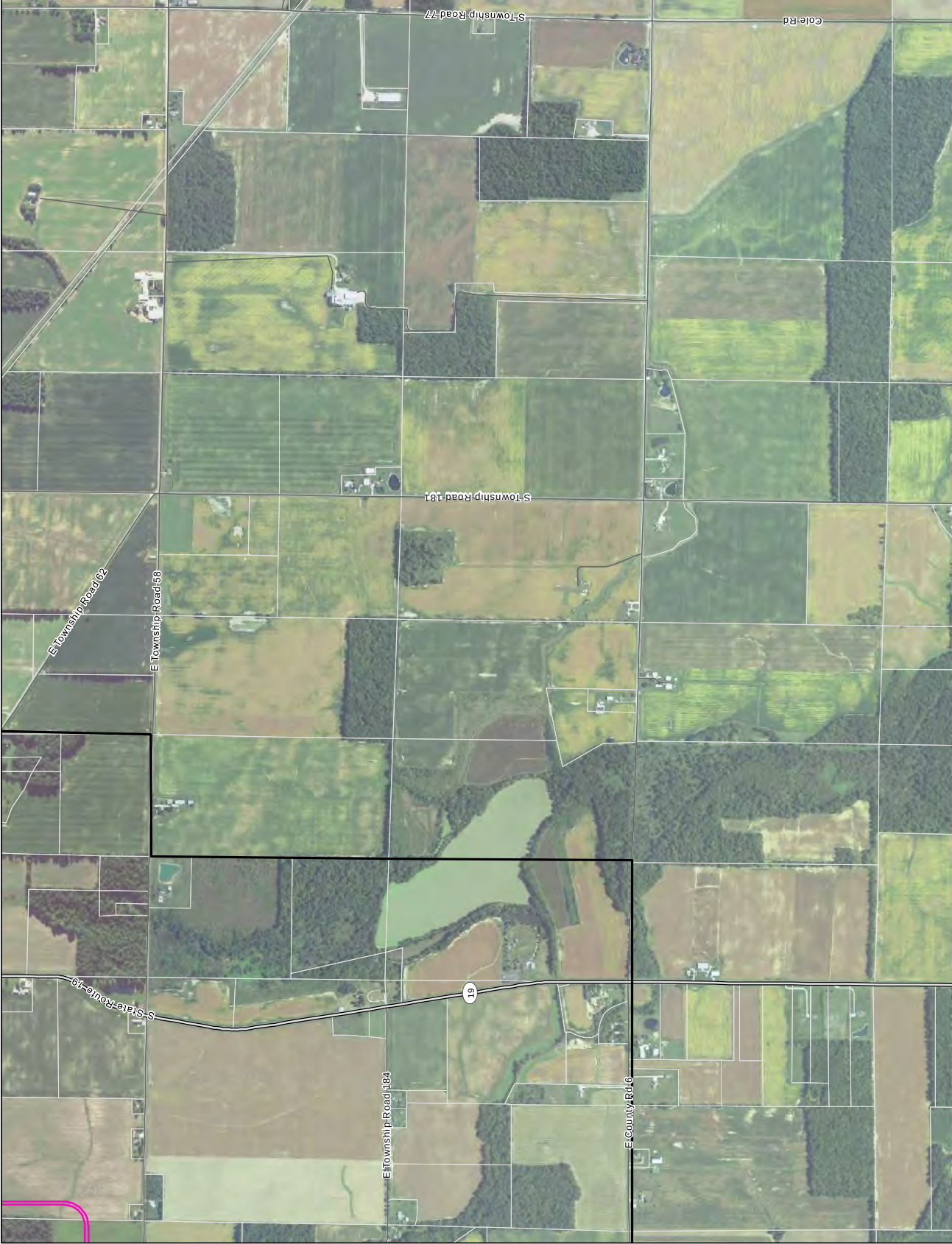
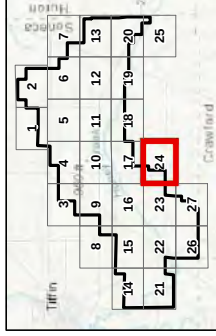
Seneca Wind  
Seneca County, Ohio

-  Project Area
- Proposed Turbines (Hub Height)
  -  GE 2.3-116 (80 m)
  -  GE 2.3-116 (90 m)
  -  GE 2.3-116 (94 m)
  -  GE 2.5-127 (134 m)
-  Permanent Met Tower
-  138-kV Gen-Tie Line
-  Cranewalk
-  Delivery Route
-  Electrical Collection Lines
-  Laydown Yard
-  O&M Yard
-  Site Road
-  Substation
-  Highway/Major Road
-  Local Road
-  Parcels
-  County Boundary



1:12,000

Source: ESRI (2016)



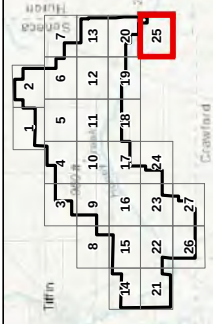
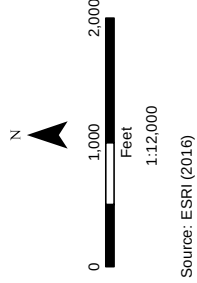


**Figure 03-3**  
**Project Layout**

Sheet 25 of 27

Seneca Wind  
Seneca County, Ohio

-  Project Area
- Proposed Turbines (Hub Height)
-  GE 2.3-116 (80 m)
  -  GE 2.3-116 (90 m)
  -  GE 2.3-116 (94 m)
  -  GE 2.5-127 (134 m)
-  Permanent Met Tower
-  138-kV Gen-Tie Line
-  Cranewalk
-  Delivery Route
-  Electrical Collection Lines
-  Laydown Yard
-  O&M Yard
-  Site Road
-  Substation
-  Highway/Major Road
-  Local Road
-  Parcels
-  County Boundary





# Figure 03-3 Project Layout

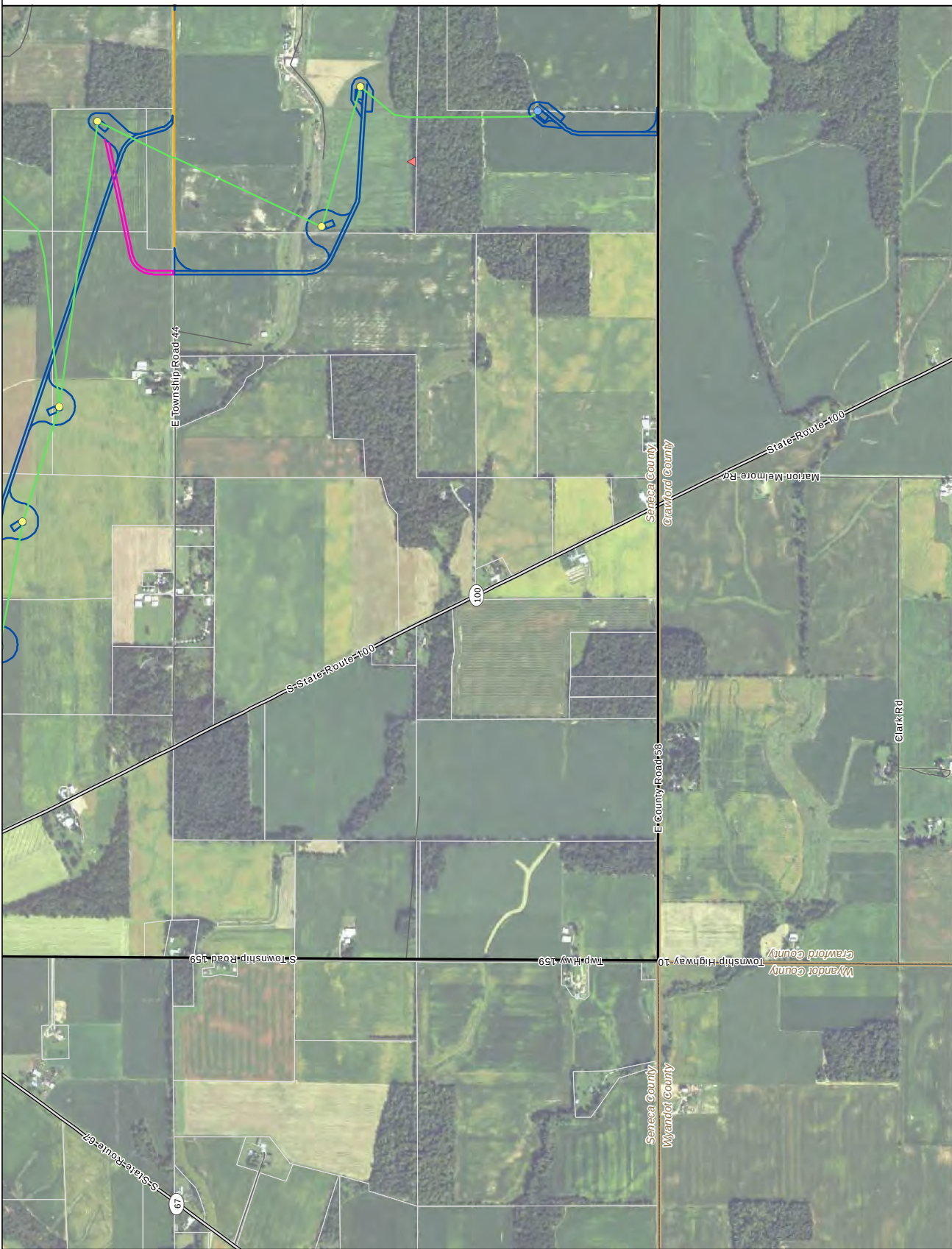
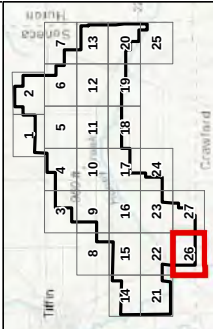
Sheet 26 of 27

Seneca Wind  
Seneca County, Ohio

-  Project Area
- Proposed Turbines (Hub Height)**
  -  GE 2.3-116 (80 m)
  -  GE 2.3-116 (90 m)
  -  GE 2.3-116 (94 m)
  -  GE 2.5-127 (134 m)
-  Permanent Met Tower
-  138-kV Gen-Tie Line
-  Cranewalk
-  Delivery Route
-  Electrical Collection Lines
-  Laydown Yard
-  O&M Yard
-  Site Road
-  Substation
-  Highway/Major Road
-  Local Road
-  Parcels
-  County Boundary

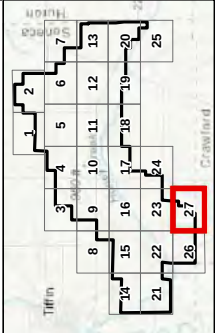
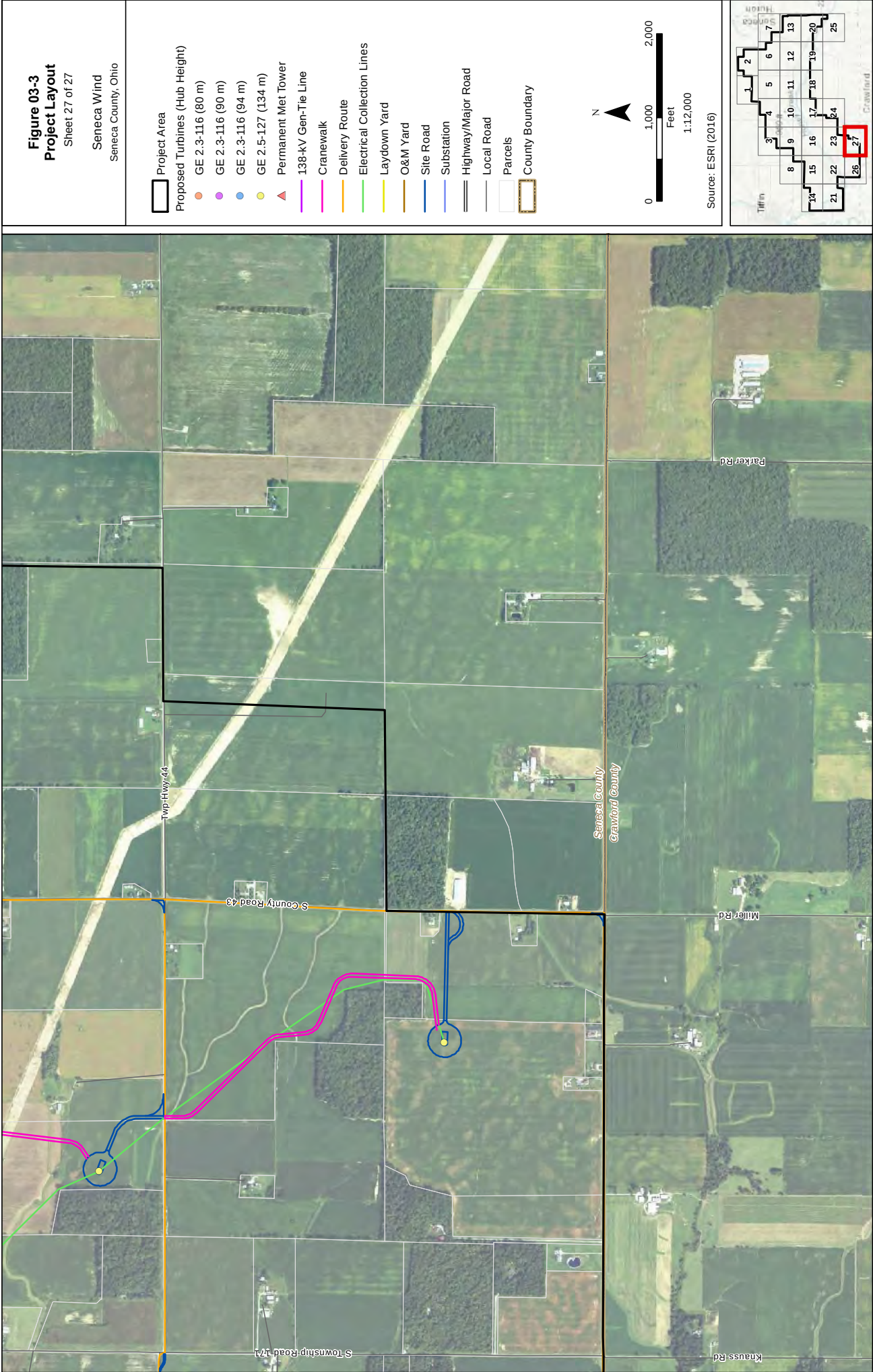


Source: ESRI (2016)

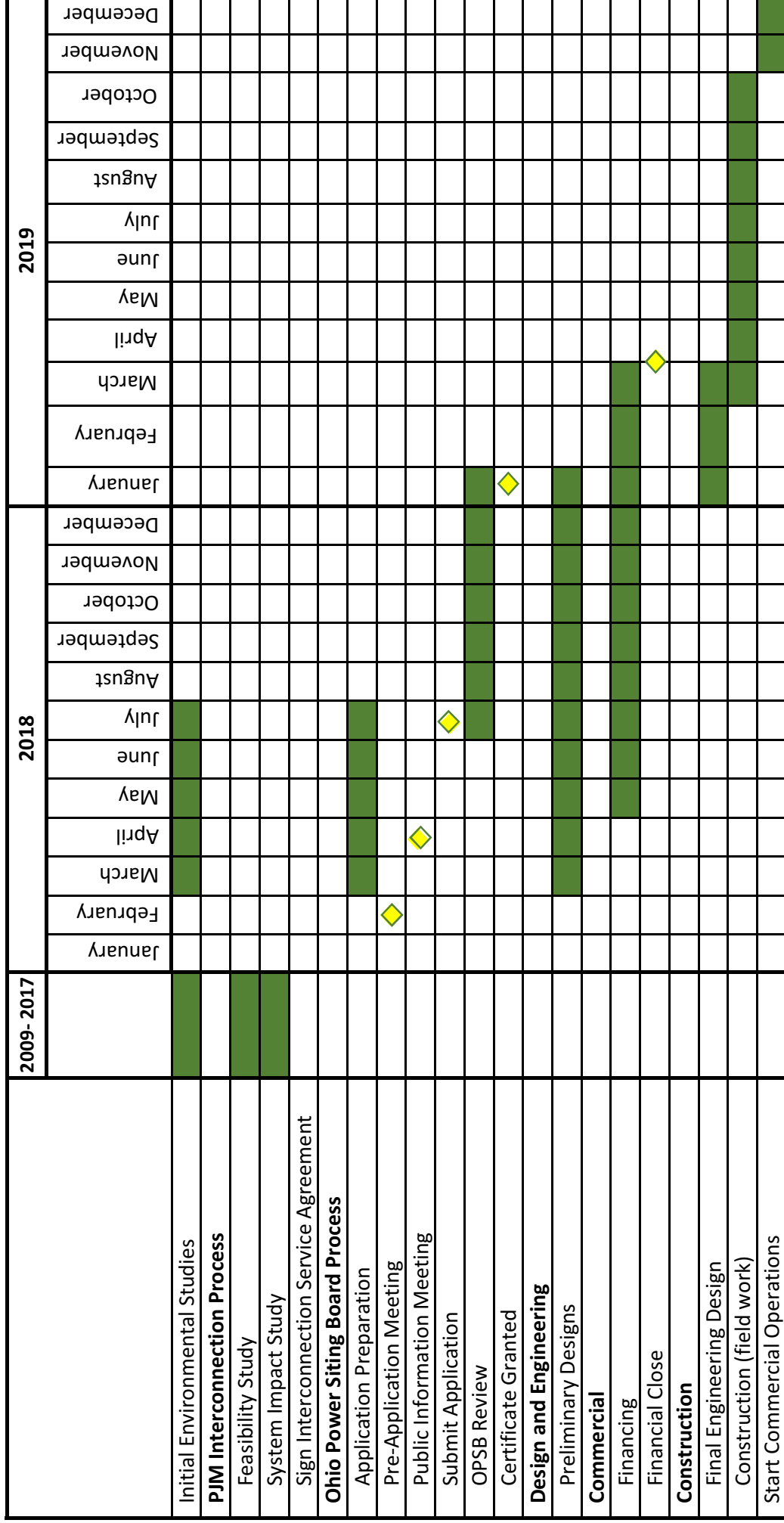


R:\PROJECTS\SENECA\_63830\SWAPS\figure\_03-3\_layout.mxd









**Figure 03-4**  
**Project Schedule**

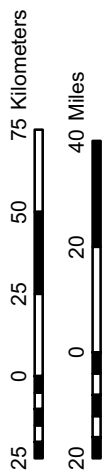
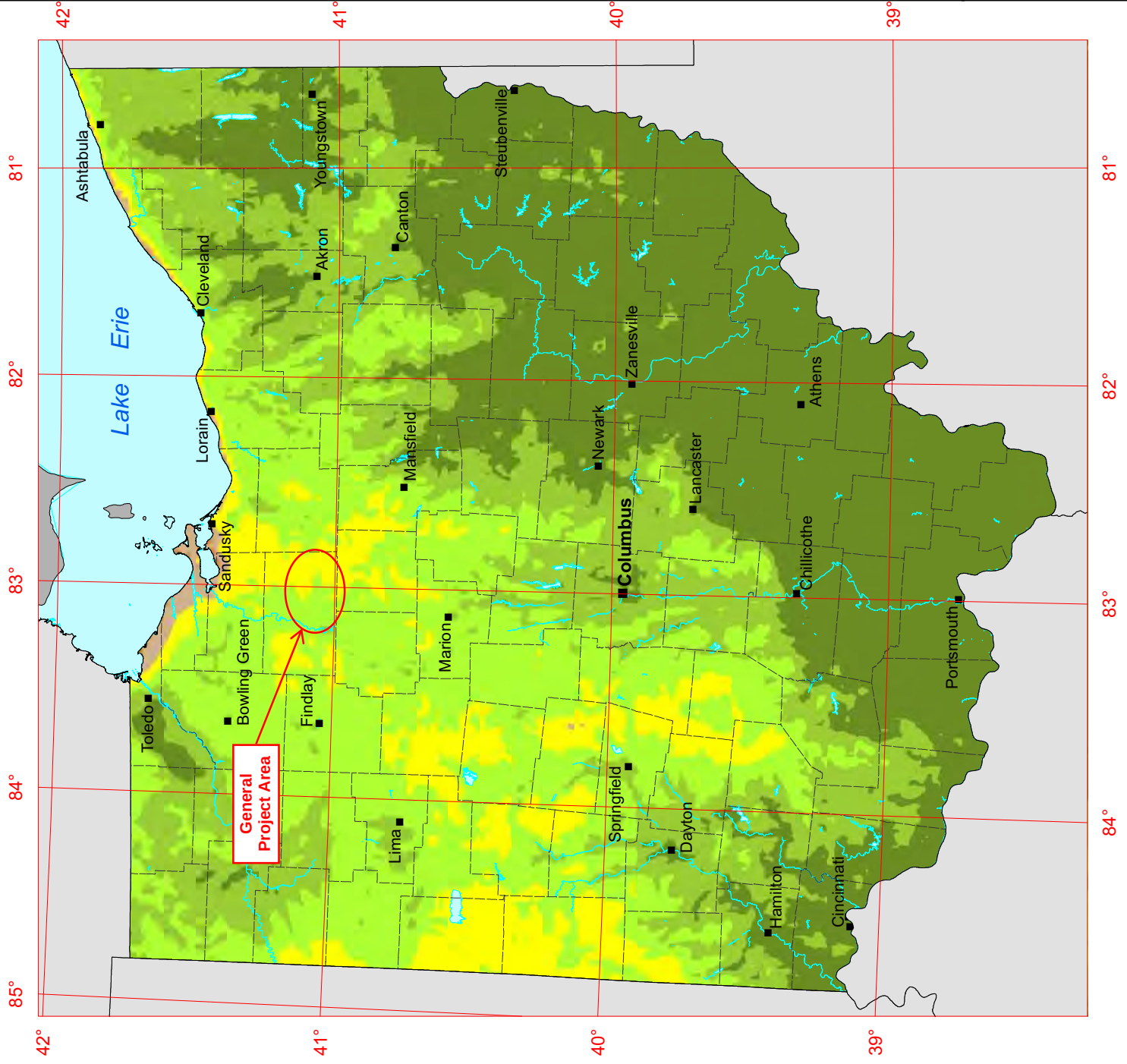
**Seneca Wind**  
Seneca County, Ohio



## **Section 4906-4-04: Figures**

---

- **Figure 04-1: Wind Resource Map of Ohio**
- **Figure 04-2: Site Selection Constraint Map**



Source: Wind resource estimates developed by AWS Truepower, LLC. Web: <http://www.awstruepower.com>. Map developed by NREL. Spatial resolution of wind resource data: 2.0 km. Projection: UTM Zone 17WGS84.

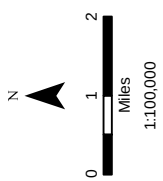
**Figure 04-1**  
**Wind Resource Map of Ohio**



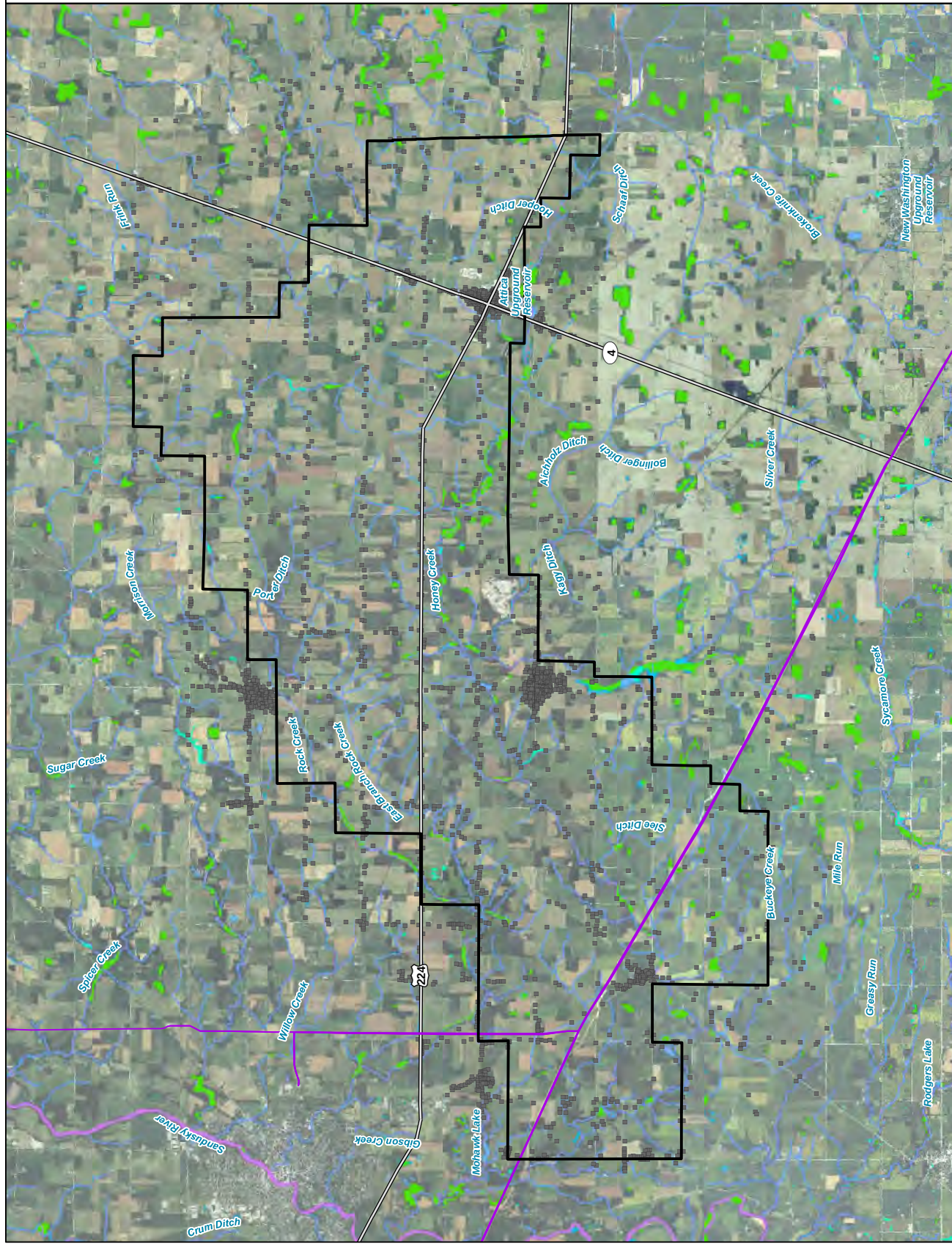
**Figure 04-2**  
**Site Selection Constraint Map**

Seneca Wind  
Seneca County, Ohio

- Project Area
- Residence
- Existing Transmission Line
- NHD Stream
- NHD Waterbody
- NWI Wetland Type
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine
- Other



Source: NAIP (2017), NHD (2017), NWI (2017),  
Vertix (2018)



## **Section 4906-4-07: Figures**

---

- **Figure 07-1: Air Navigation Facilities within 5 Miles**



**Figure 07-1**  
**Air Navigation Facilities**  
**within Five Miles**

Seneca Wind  
Seneca County, Ohio

Project Area

5-mile Buffer

Proposed Turbines (Hub Height)

GE 2.3-116 (80 m)

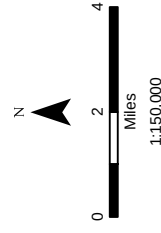
GE 2.3-116 (90 m)

GE 2.3-116 (94 m)

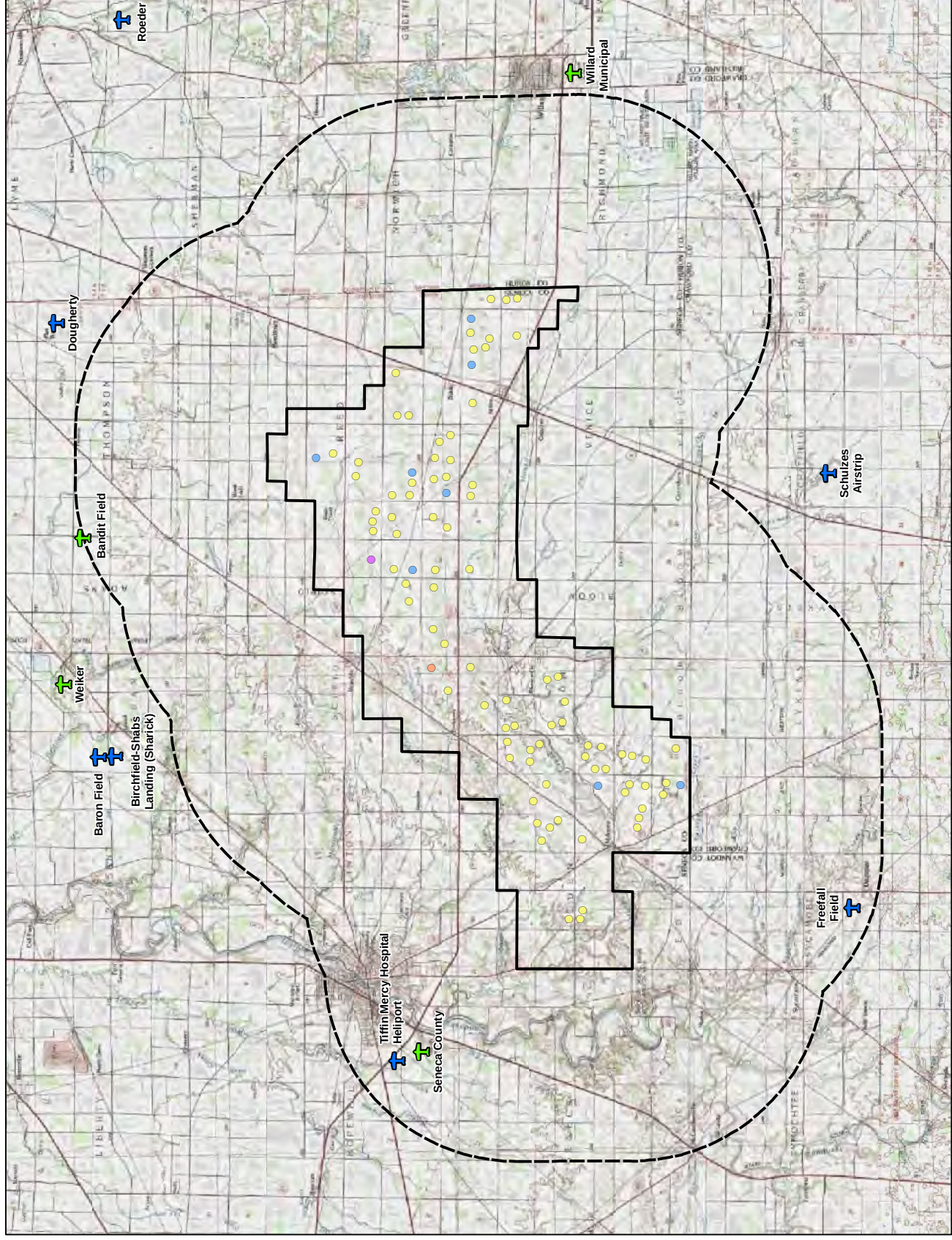
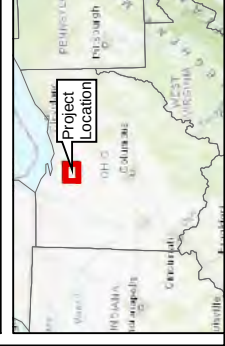
GE 2.5-127 (134 m)

Aviation Facilities - Public Use

Aviation Facilities - Private Use



Source: ESRI (2016), ODOT (2018)



R:\PROJECT\SENeca\_BSS\07-01\Map\Map\_Seneca\_Facilities.mxd

## **Section 4906-4-08: Figures**

---

- **Figure 08-1: Received Sound Levels: Wind Turbines at Critical Wind Speed**
- **Figure 08-2: Water Wells and Water Protection Areas**
- **Figure 08-3: Groundwater Resources of Seneca County**
- **Figure 08-4: Floodplains (Sheets 1 - 4 of 11)**

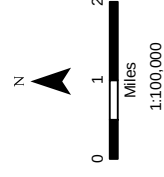


**Figure 08-1**  
**Received Sound Levels:**  
**Wind Turbines at Critical**  
**Wind Speed**

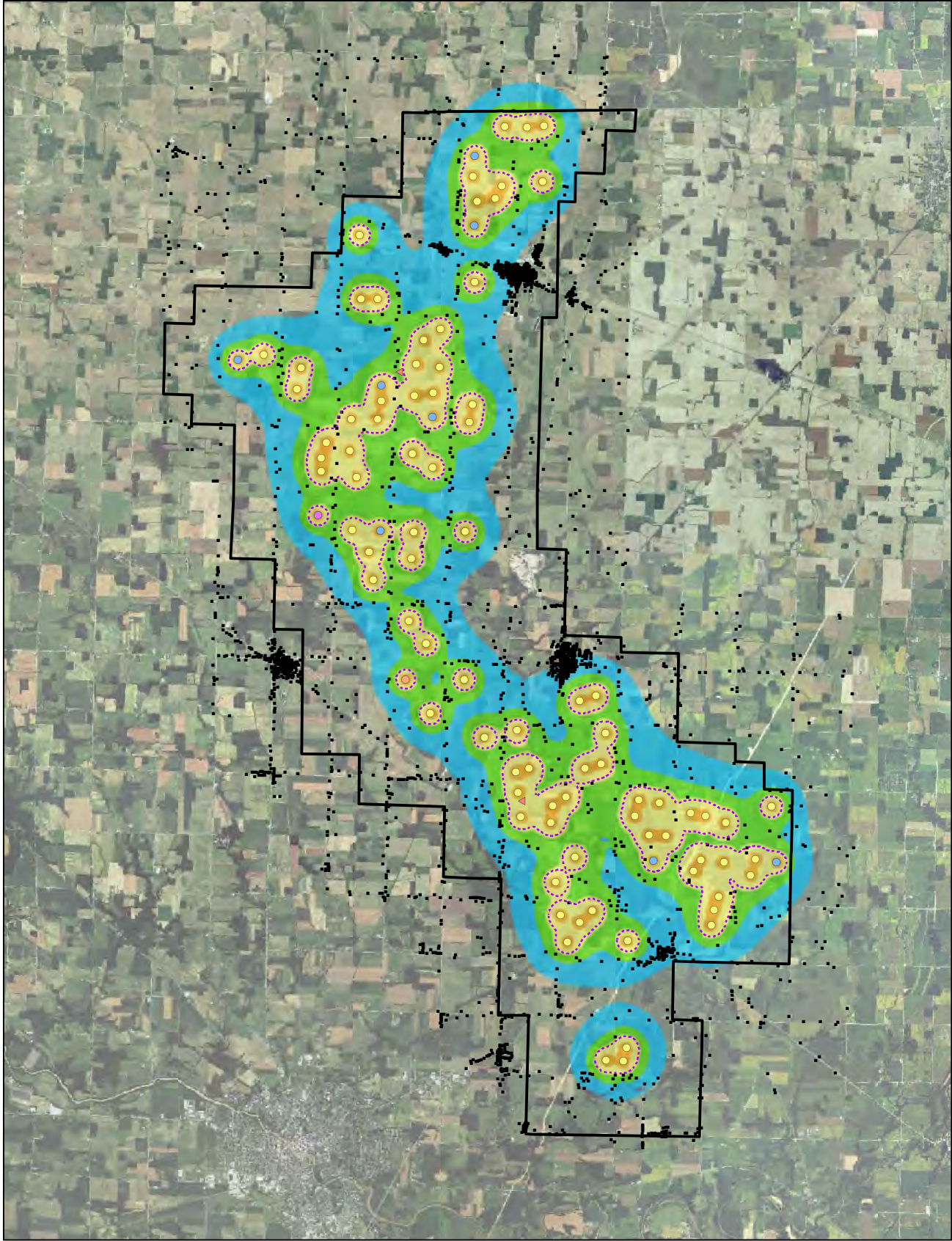
Seneca Wind  
 Seneca County, Ohio

- Project Area
- Proposed Turbines (Hub Height)
  - GE 2.3-116 (80 m)
  - GE 2.3-116 (90 m)
  - GE 2.3-116 (94 m)
  - GE 2.5-127 (134 m)
- Noise Sensitive Area
- Existing Met Tower

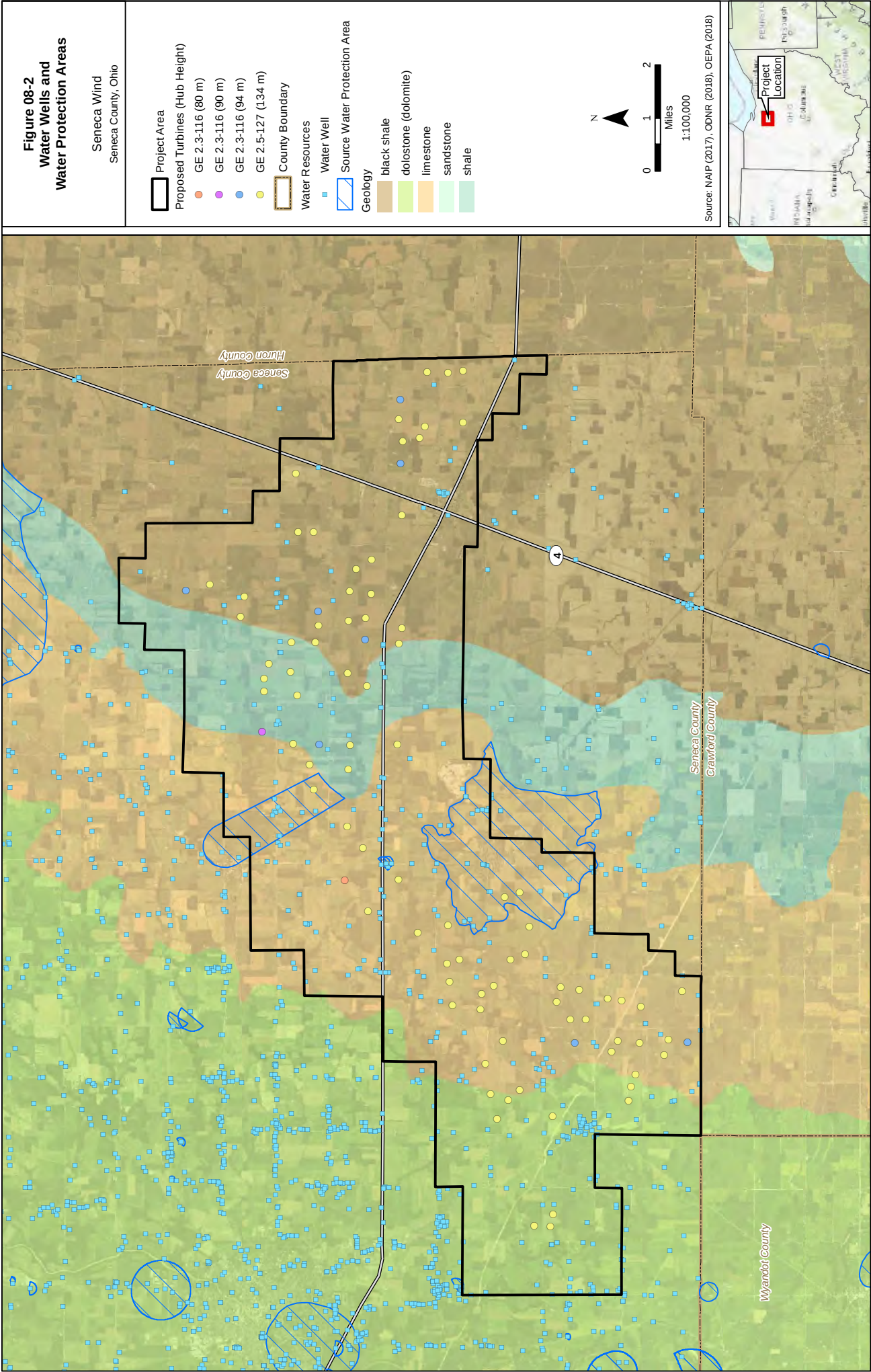
Sound Level Exceeding  
 51 dBA OPSS Noise Criterion  
 Sound Level Contour Range (dBA):



Source: NAIP (2017)









Seneca Wind  
Seneca County, Ohio



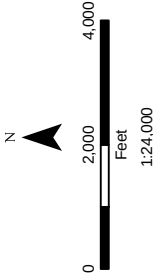


**Figure 08-4**  
**Floodplains**

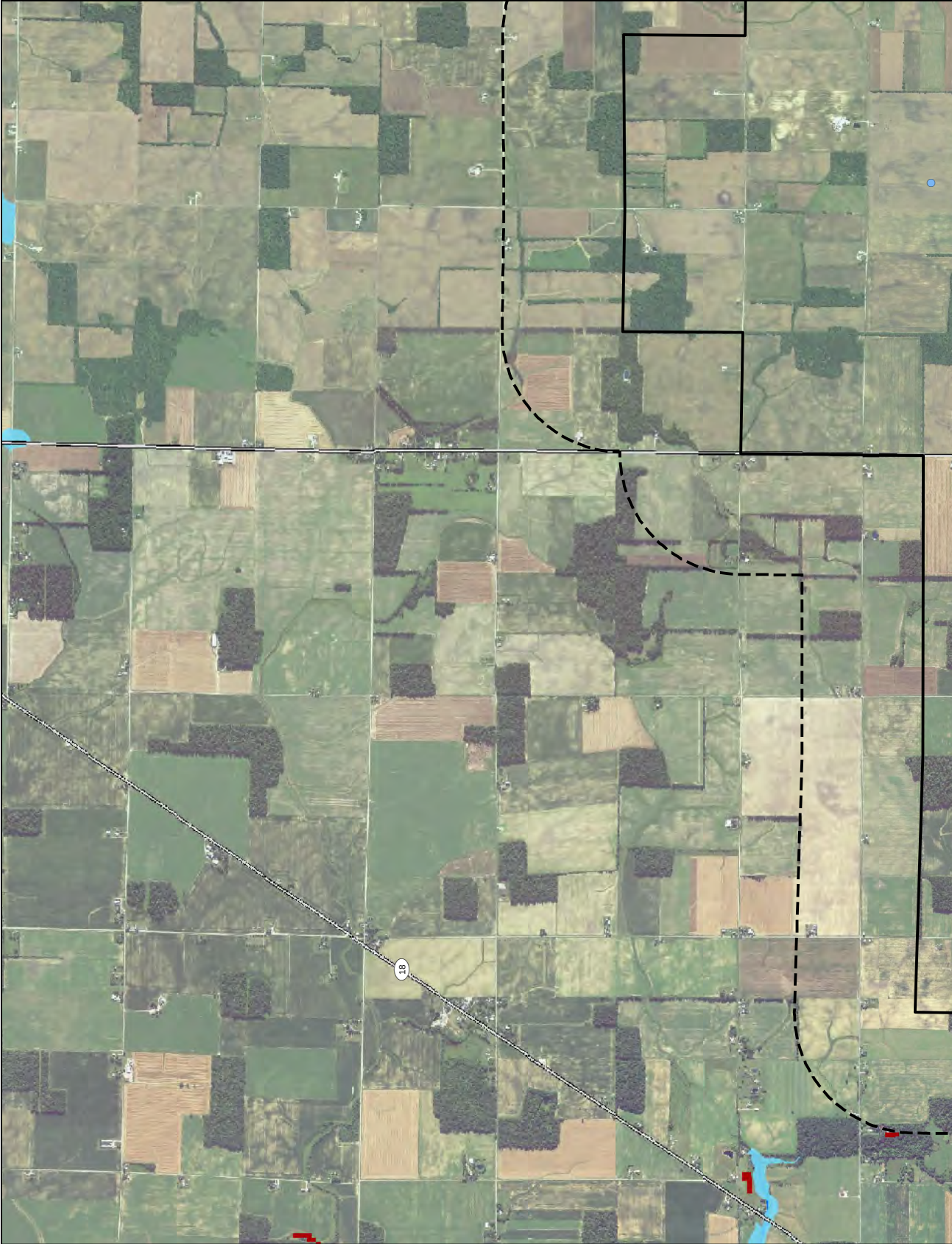
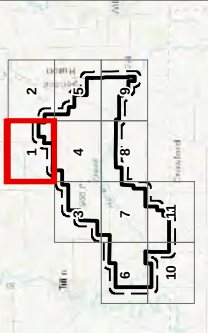
Sheet 1 of 11

Seneca Wind  
Seneca County, Ohio

-  Project Area  
 0.5-mile Buffer
- Proposed Turbines (Hub Height)
-  GE 2.3-116 (80 m)
  -  GE 2.3-116 (90 m)
  -  GE 2.3-116 (94 m)
  -  GE 2.5-127 (134 m)
-  River/Stream
-  > 12% Slope
- FEMA Flood Hazard Area
-  1% Annual Chance
  -  Floodway
  -  0.25% Annual Chance
-  Highway
-  County Boundary



Source: ESRI (2016), FEMA (2018)



R:\PROJECT\SENeca\_655505\BMAPS\Figure\_08-4\_Floodplains.mxd



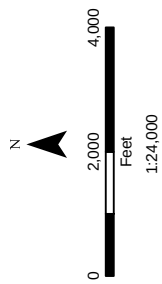
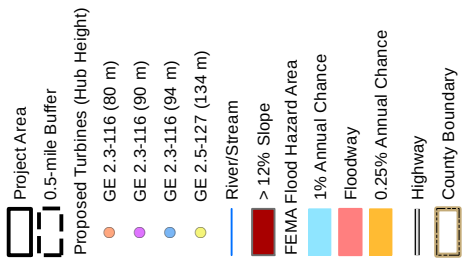




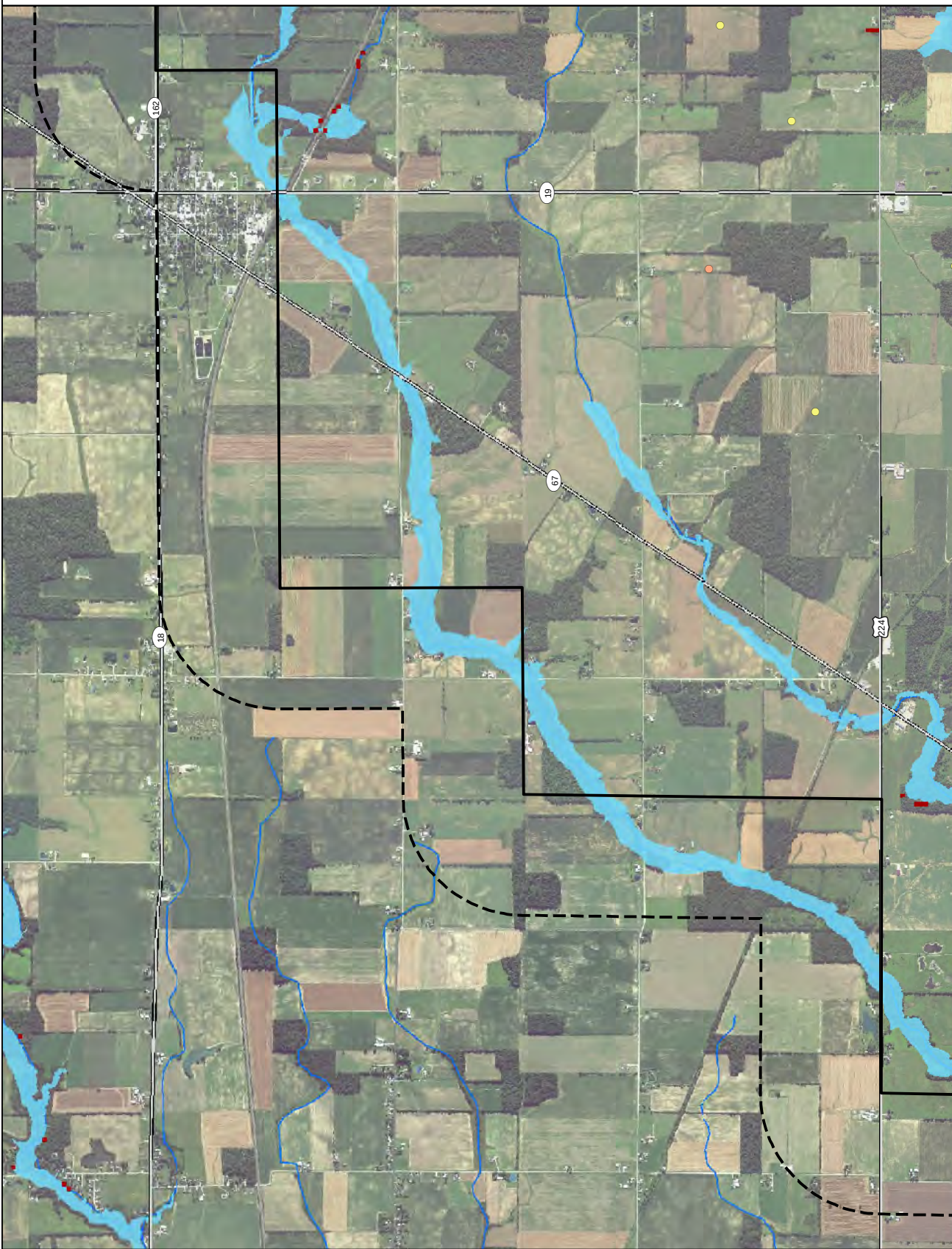
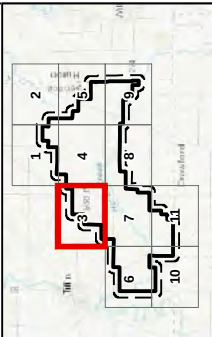
**Figure 08-4**  
**Floodplains**

Sheet 3 of 11

Seneca Wind  
Seneca County, Ohio



Source: ESRI (2016), FEMA (2018)

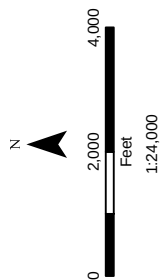
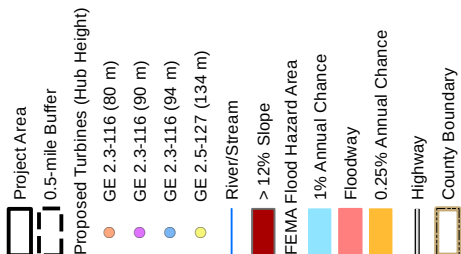


R:\PROJECT\SENeca\_GIS\STOP\BMAP\Figure\_08-4\_Floodplains.mxd

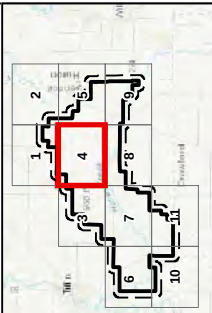


**Figure 08-4**  
**Floodplains**  
Sheet 4 of 11

Seneca Wind  
Seneca County, Ohio



Source: ESRI (2016), FEMA (2018)



R:\PROJECT\SENENCA\_GIS\STOP\BMAPS\Figure\_08-4\_Floodplains.mxd

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**7/16/2018 10:57:37 AM**

**in**

**Case No(s). 18-0488-EL-BGN**

Summary: Application Figures Section 03 Part 3; Sections 04 and 07; and Section 08 Part 1  
electronically filed by Teresa Orahod on behalf of Dylan F. Borchers