Bricker&Eckler
ATTORNEYS AT LAW

COLUMBUS I CLEVELAND
CINCINNATI I DAYTON
MARIETTA

BRICKER & ECKLER LLP
100 South Third Street
Columbus, OH 43215-4291
MAIN: 614.227.2300
FAX: 614.227.2390

www.bricker.com
info@bricker.com

Dylan F. Borchers
614.227.4914
dborchers@bricker.com

June 6, 2019

Via Electronic Filing

Ms. Tanowa Troupe
Administration/Docketing
Ohio Power Siting Board
180 East Broad Street, 11th Floor
Columbus, Ohio 43215-3793

Re: Seneca Wind, LLC Case No. 18-488-EL-BGN
Notice of Project Modifications and Project Information Update

Dear Ms. Troupe:

On July 16, 2018, and as amended on July 20, 2018, Seneca Wind, LLC ("Seneca Wind") filed its application for a certificate of environmental compatibility and public need for a wind-powered generating facility in Seneca County, Ohio. Attached, please find Seneca Wind's notice of turbine model adjustments for the project.

This filing does the following: 1) adds a new turbine model, the Vestas 110-2.2, for use in up to 10 locations; 2) adds a lower, alternate hub-height for the GE 2.3-116 turbine; and 3) adds the potential use of the GE 2.3-116 in additional existing turbine locations.

Updated shadow flicker and noise modeling that address these modifications are attached to this filing. Please do not hesitate to contact me if you have any questions.

Sincerely,

Dylan F. Borchers

Attachments

Cc: Jim O'Dell (w/Attachments)

NOTICE OF PROJECT MODIFICATIONS AND INFORMATION UPDATE

As Seneca Wind (the Project) progresses through the OPSB Certification process, Seneca Wind (the Applicant) is considering turbine model adjustments for the Project (Case No. 18-0488-EL-BGN). This additional optionality is summarized in this filing. Pursuant to Ohio Administrative Code 4906-3-11(A)(6), these additional options for the Project do not create further impacts for property owners or within the planned site.

Specifically, this filing 1) adds a new turbine model, the Vestas 110-2.2, for use in up to 10 locations; 2) adds a lower, alternate hub-height for the GE 2.3-116 turbine; and 3) adds the potential use of the GE 2.3-116 in additional existing turbine locations.

This modification filing does not change the location or number of turbines proposed (93), nor does this filing change the total number of turbines to be built (77).

Wind Turbine Characteristic Update

In previous filings, the Project indicated that the GE 2.3-116 turbine would be used in 10 of 93 locations. The use of the GE 2.3-116 turbines in these locations remains unchanged. However, with this filing, the Project is adding an alternate, reduced hub height (and resulting tip height) of several of these GE 2.3-116 turbines is for consideration. Further, the GE 2.3-116 is also being considered for use in an additional 16 of 83 remaining turbine locations. Of these 16 locations, the Vestas 110-2.2 may also be used for 10 of the locations.

The optionality addressed in this update is summarized in Table 1 and shown on Revised Figure 03-3.

The proposed use of GE 2.8-127 or Siemens Gamesa (SG) 2.7-129 turbines in the remaining locations remains unchanged.

This update reflects the additional use of the GE 2.3-116 turbine within the array and inclusion of the V110-2.2 turbine option with a hub height of 95 meters (m) (312 feet). An updated Table 03-2 is provided below.

UPDATED TABLE 03-2
APPROXIMATE TURBINE DIMENSIONS BY MODEL

Turbine Model	Rated Power (MW)	Hub Height	Rotor Diameter	Blade Length	Maximum Total Height[(a)]
GE 2.3-116	2.3	80 m (262 feet)	116 m (381feet)	56.9 m (187 feet)	138 m (453 feet)
	2.3	90 m (295 feet)	116 m (381 feet)	56.9 m (187 feet)	148 m (486 feet)
	2.3	94 m (308 feet)	116 m (381 feet)	56.9 m (187 feet)	152 m (499 feet)
GE 2.8-127	2.8	114 m (374 feet)	127 m (417 feet)	62.2 m (204 feet)	178 m (584 feet)
SG 2.7-129	2.75[(b)]	109 m (358 feet)	129.69 m (425.5 feet)	63.5 m (208 feet)	173.9 m (570.5 feet)
V110-2.2	2.2	95 m (312 feet)	110 m (361 feet)	54 m (177 feet)	150 m (492 feet)

[(a)] Maximum total height is also referred to as tip height.

[(b)] Power boost to 2.9 MW is available under certain ambient wind and temperature conditions.

The flicker and noise analyses have been updated to reflect the additional locations under consideration for the GE 2.3-116 as well as the option of the V110-2.2 turbine at up to ten locations. Both updated reports are attached, with applicable data reflected in Revised Figures 08-1 and 08-8, respectively, and the provided shapefiles. As reflected in the updated analyses, OPSB standards will continue to be met. No other material change would result.

Attachments:

Table 1. Turbine Layout Optionality

Revised OPSB Figures:

- Figure 03-3 Project Layout
- Figure 08-1a Received Sound Levels: Wind Turbines at Critical Wind Speed (Scenario 1)
- Figure 08-1b Received Sound Levels: Wind Turbines at Critical Wind Speed (Scenario 2)
- Figure 08-1c Received Sound Levels: Wind Turbines at Critical Wind Speed (Scenario 3)
- Figure 08-1d Received Sound Levels: Wind Turbines at Critical Wind Speed (Scenario 4)
- Figure 08-1e Received Sound Levels: Wind Turbines at Critical Wind Speed (Scenario 5 at 8 m/s)
- Figure 08-1f Received Sound Levels: Wind Turbines at Critical Wind Speed (Scenario 5 at 9 m/s)
- Figure 08-1g Received Sound Levels: Wind Turbines at Critical Wind Speed (Scenario 6)
- Figure 08-8a Expected Shadow Flicker Impact Areas (Scenario 1)
- Figure 08-8b Expected Shadow Flicker Impact Areas (Scenario 2)
- Figure 08-8c Expected Shadow Flicker Impact Areas (Scenario 3)
- Figure 08-8d Expected Shadow Flicker Impact Areas (Scenario 4)
- Figure 08-8e Expected Shadow Flicker Impact Areas (Scenario 5)
- Figure 08-8f Expected Shadow Flicker Impact Areas (Scenario 6)

Revised Flicker Appendix

Revised Noise Appendix

Table 1. Seneca Wind - Turbine Layout Optionality

			Modeled January 2019				Modeled May 2019							
Turbine ID	Coordinates		Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5		Scenario 6	
	X (m)	Y (m)	Turbine Model	Hub Height (m)	Turbine Model	Hub Height (m)	Turbine Model	Hub Height (m)	Turbine Model	Hub Height (m)	Turbine Model	Hub Height (m)	Turbine Model	Hub Height (m)
1	339126.86	4555547.5	GE 2.3	94	GE 2.3	94	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
2	330232.49	4550876.77	GE 2.3	80	GE 2.3	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
3	325135.22	4540531.8	GE 2.3	94	GE 2.3	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94
4	344821.54	4548942.72	GE 2.3	94	GE 2.3	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94
5	334368	4551577.34	GE 2.3	94	GE 2.3	94	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
6	337534.76	4550123.9	GE 2.3	94	GE 2.3	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94
7	325167.63	4543965.05	GE 2.3	94	GE 2.3	94	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
8	338423.94	4551544.38	GE 2.3	94	GE 2.3	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94
9	341288.94	4548942.89	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
10	345658.18	4547019.15	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
11	339283.48	4554829.04	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
12	328809.97	4547758.99	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
13	328614.67	4548682.17	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
14	329772.51	4545563.59	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
15	339979.47	4549899.62	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
16	340831.44	4551649.88	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
17	327878.86	4545425.5	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
18	345636.65	4548110.47	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
19	336017.88	4553223.6	GE 2.8 (LN)	114	SG 2.7 Mode 3	109	GE 2.8 (LN)	114	SG 2.7 Mode 3	109	GE 2.8 (LN)	114	SG 2.7 Mode 3	109
20	338928.29	4549927.63	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
21	337479.11	4551644	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109
22	345610.72	4547477.16	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
23	336586.41	4552423.81	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109
24	343533.57	4548878.61	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
25	343629.4	4548374.34	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
26	337483.81	4552384.38	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109
27	327741.26	4545875.51	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
28	339675.31	4550372.02	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
29	343986.83	4548195.52	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
30	324761.03	4541256.05	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
31	344231.22	4548991.75	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
32	338202.15	4550103.1	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
33	327077.54	4547740.29	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
34	327749.13	4547428.05	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
35	326953.57	4546402.91	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
36	339008.38	4550571.25	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
37	323771.54	4545665.62	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
38	338124.34	4550629.44	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109
39	336404.09	4553219.97	GE 2.8 (LN)	114	SG 2.7 - Mode 3	109	GE 2.8 (LN)	114	SG 2.7 - Mode 3	109	GE 2.8 (LN)	114	SG 2.7 - Mode 3	109
40	325124.81	4541998.95	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
41	325869.18	4543625.96	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
42	319596.88	4544801.76	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
43	337992.77	4551541.8	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109
44	326422.2	4542520.91	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
45	327652.34	4547804.57	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
46	324174.98	4542143.33	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
47	325225.71	4541120.83	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
48	324876.3	4542846.92	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
49	323462.56	4546020.59	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
50	326708	4546775	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
51	319620.54	4545288.42	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
52	326487.67	4542934.08	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109
53	319963.55	4544714.97	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
54	325199.45	4542650.35	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109
55	325878	4544094.78	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
56	328728.7	4545293.92	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
57	329629.24	4546020.74	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
58	336836.98	4553078.08	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109	GE 2.8 (LN)	114	SG 2.7	109
59	326802.35	4543847.62	GE 2.8 (LN)	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
60	326413.08	4544489.22	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
61	326870.06	4544367.28	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
63	333598.04	4550705.27	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
64	334342.06	4549206.96	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
65	326388.05	4547664.23	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
66	325270.72	4546147.39	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
67	326235.24	4546818.35	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
68	324574.18	4546690.01	GE 2.8	114	SG 2.7	109	GE2.3-116	80	GE2.3-116	80	V110-2.2MW	95	V110-2.2MW	95
69	323653.5	4546555.37	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
70	334792.79	4553310.77	GE 2.3	90	GE 2.3	90	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80	GE2.3-116	80
71	342881.3	4548955.22	GE 2.3	94	GE 2.3	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94	GE2.3-116	94
72	342614.06	4552151.82	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
73	344096.09	4547047.36	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
74	326685.26	4540678.37	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
75	329270.07	4550183.23	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
77	333006.63	4551771.03	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
78	338305.16	4553899.95	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
79	336118.2	4550107.25	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
80	336518.93	4550686.29	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
81	338905.62	4553779.72	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
82	335869.65	4552227.18	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
83	337392.78	4549096.46	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
84	333774.98	4551884.68	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
85	326238.92	4541944.11	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
86	322940.47	4544671.59	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
87	340833.32	4552118.08	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
88	334397.32	4552362.76	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
89	337867.45	4549008.9	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
90	323379.67	4542355.18	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
92	330227.28	4549235.76	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
93	331858.36	4550772.97	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
94	331211.12	4550306.83	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
95	334334.29	4550640.7	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109
96	334334.29	4550640.7	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109	GE 2.8	114	SG 2.7	109

Figure 03-3
Project Layout

Sheet 1 of 27

Seneca Wind

Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000

Feet

1:12,000

Source: ESRI (2016)

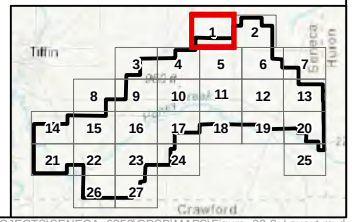

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Figure 03-3
Project Layout
Sheet 2 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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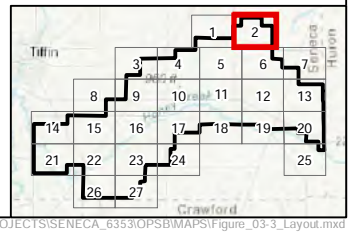
Source: ESRI (2016)



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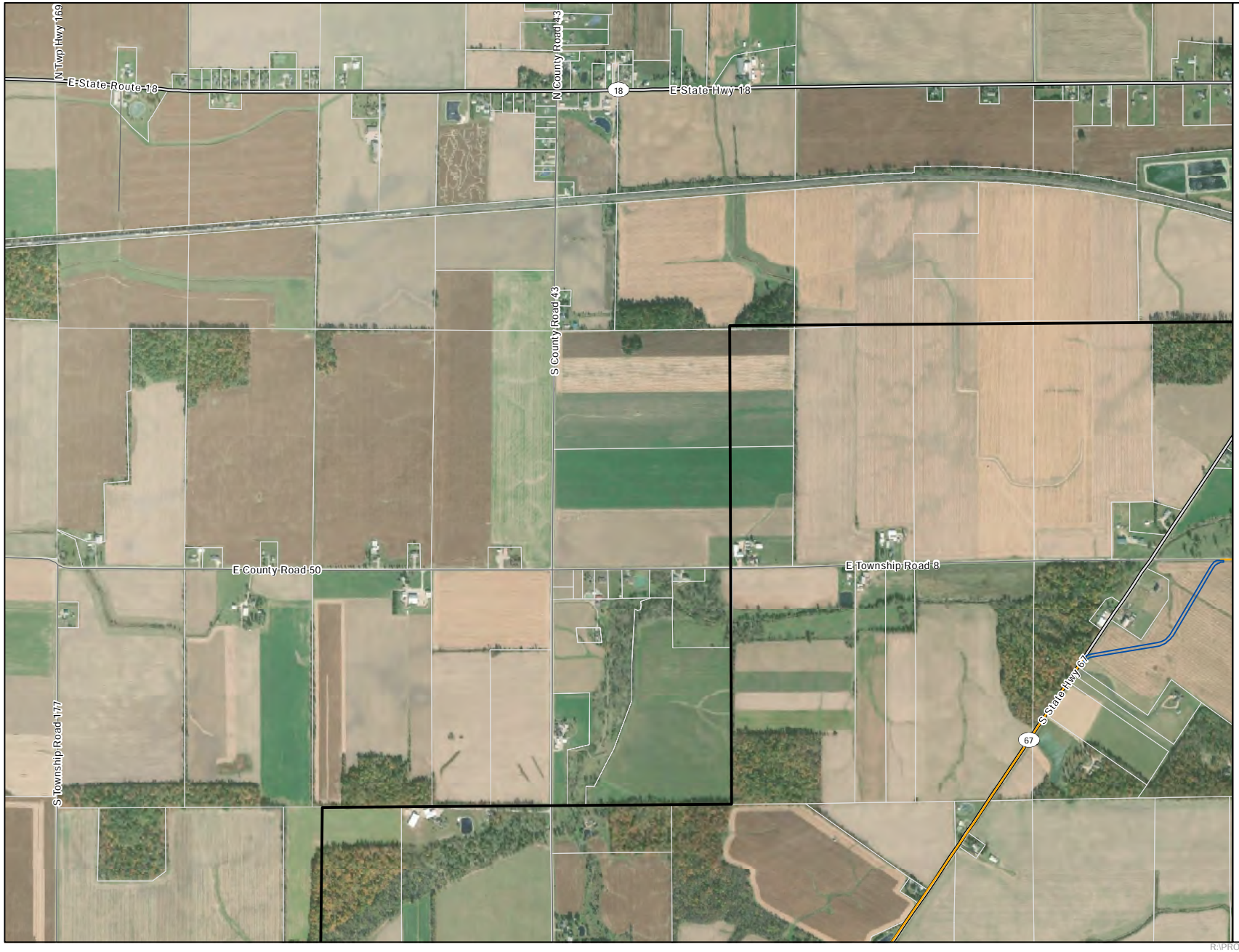

Figure 03-3
Project Layout
Sheet 3 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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Source: ESRI (2016)

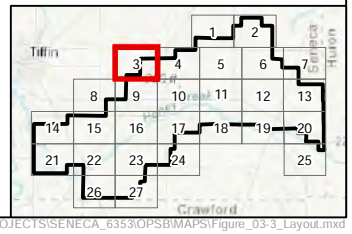

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Figure 03-3
Project Layout
Sheet 4 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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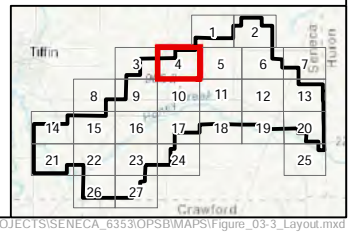
Source: ESRI (2016)



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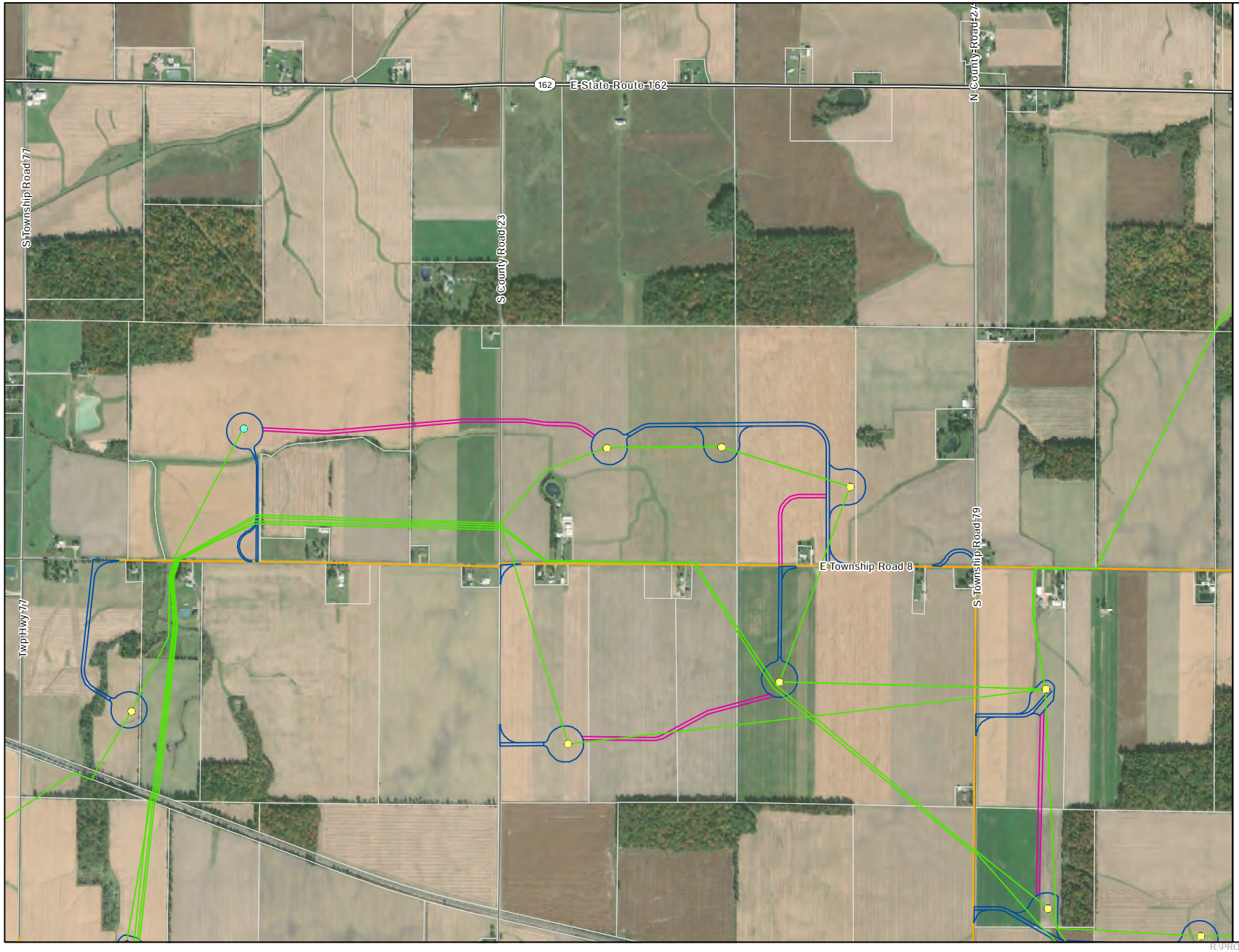

Figure 03-3
Project Layout
Sheet 5 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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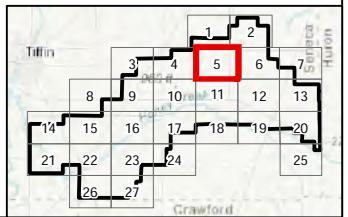

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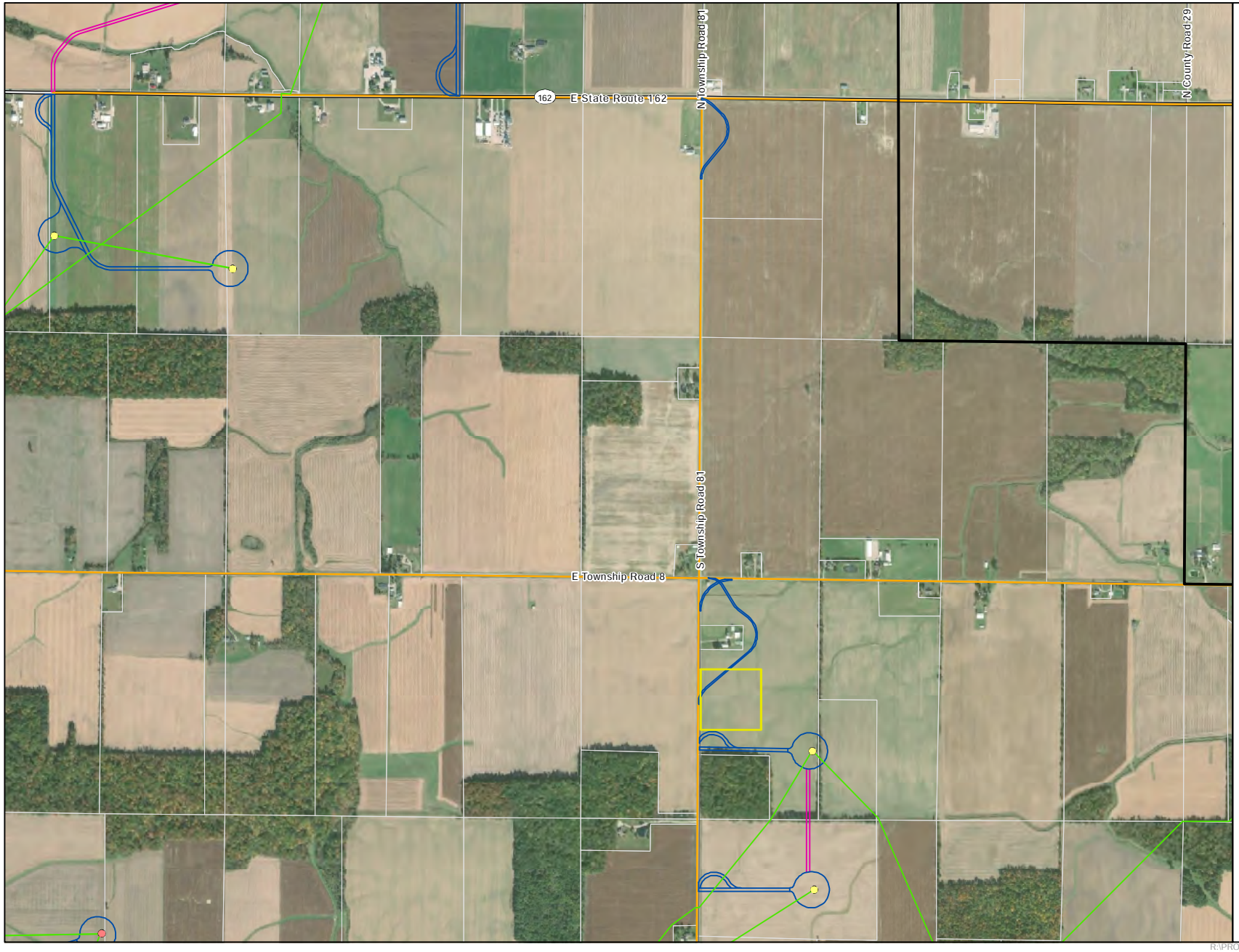

Figure 03-3
Project Layout
Sheet 6 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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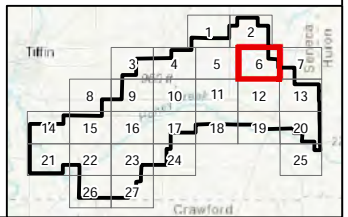

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Figure 03-3
Project Layout
Sheet 7 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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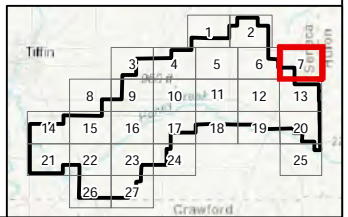

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Figure 03-3
Project Layout
Sheet 8 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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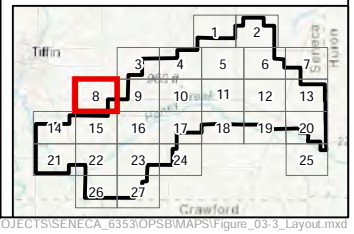

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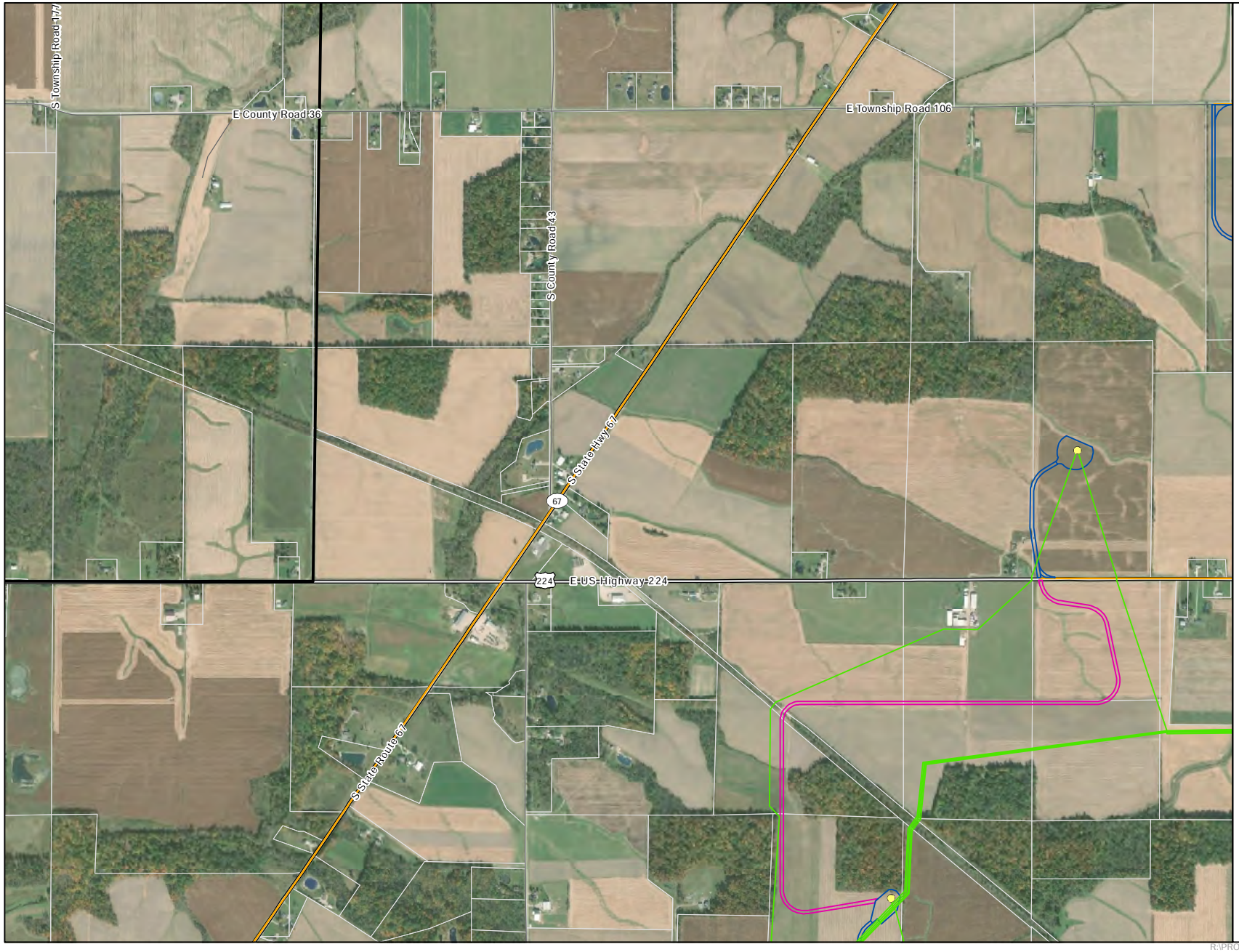

Figure 03-3
Project Layout
Sheet 9 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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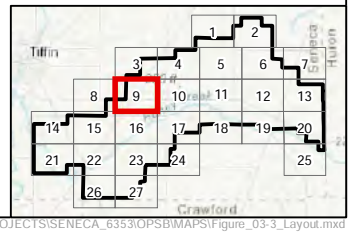

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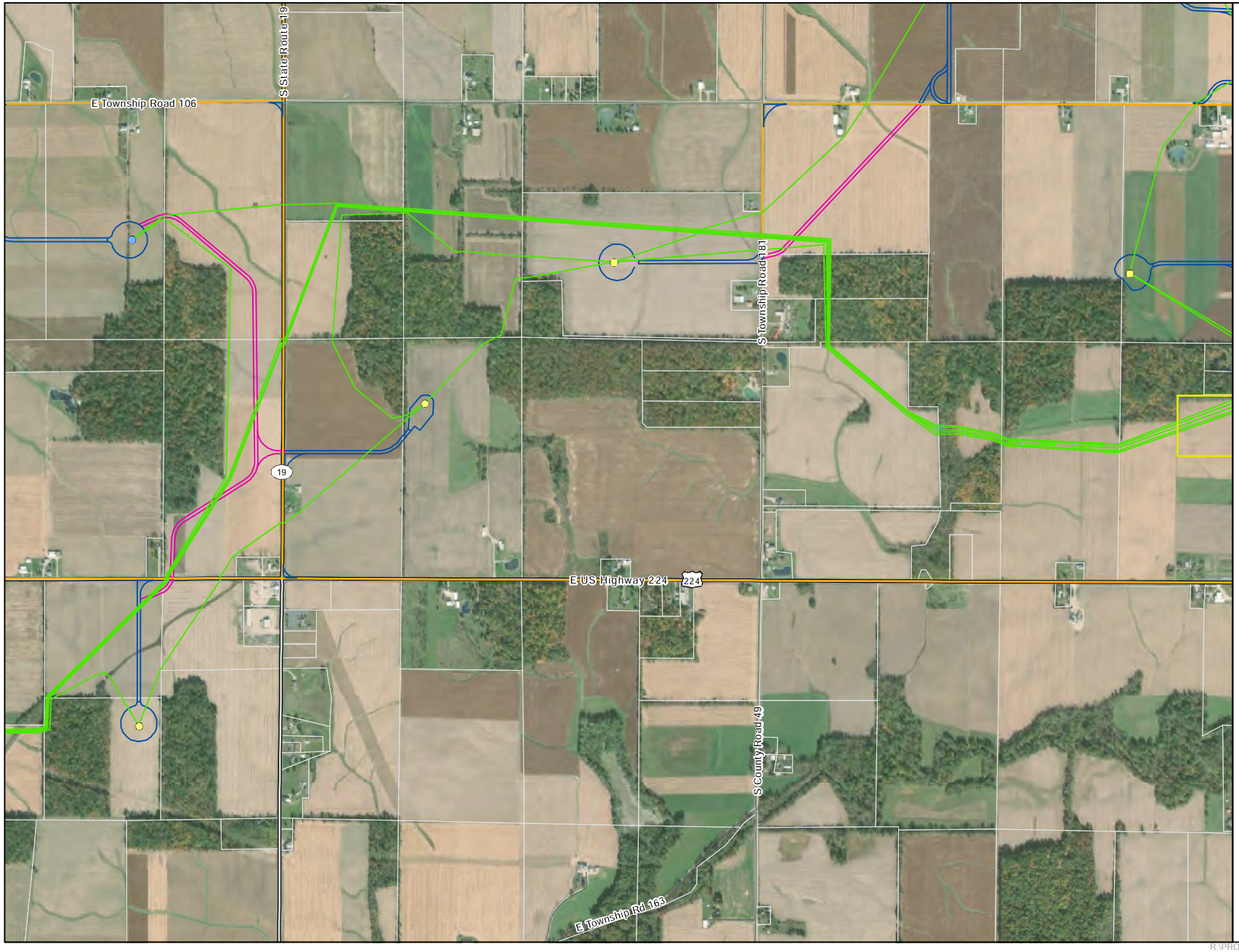

Figure 03-3
Project Layout
Sheet 10 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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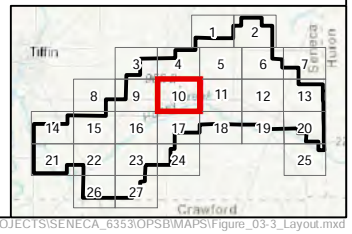

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Figure 03-3
Project Layout
Sheet 11 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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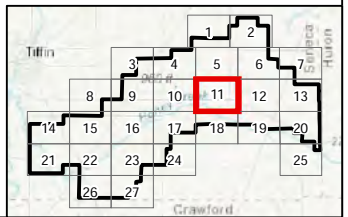

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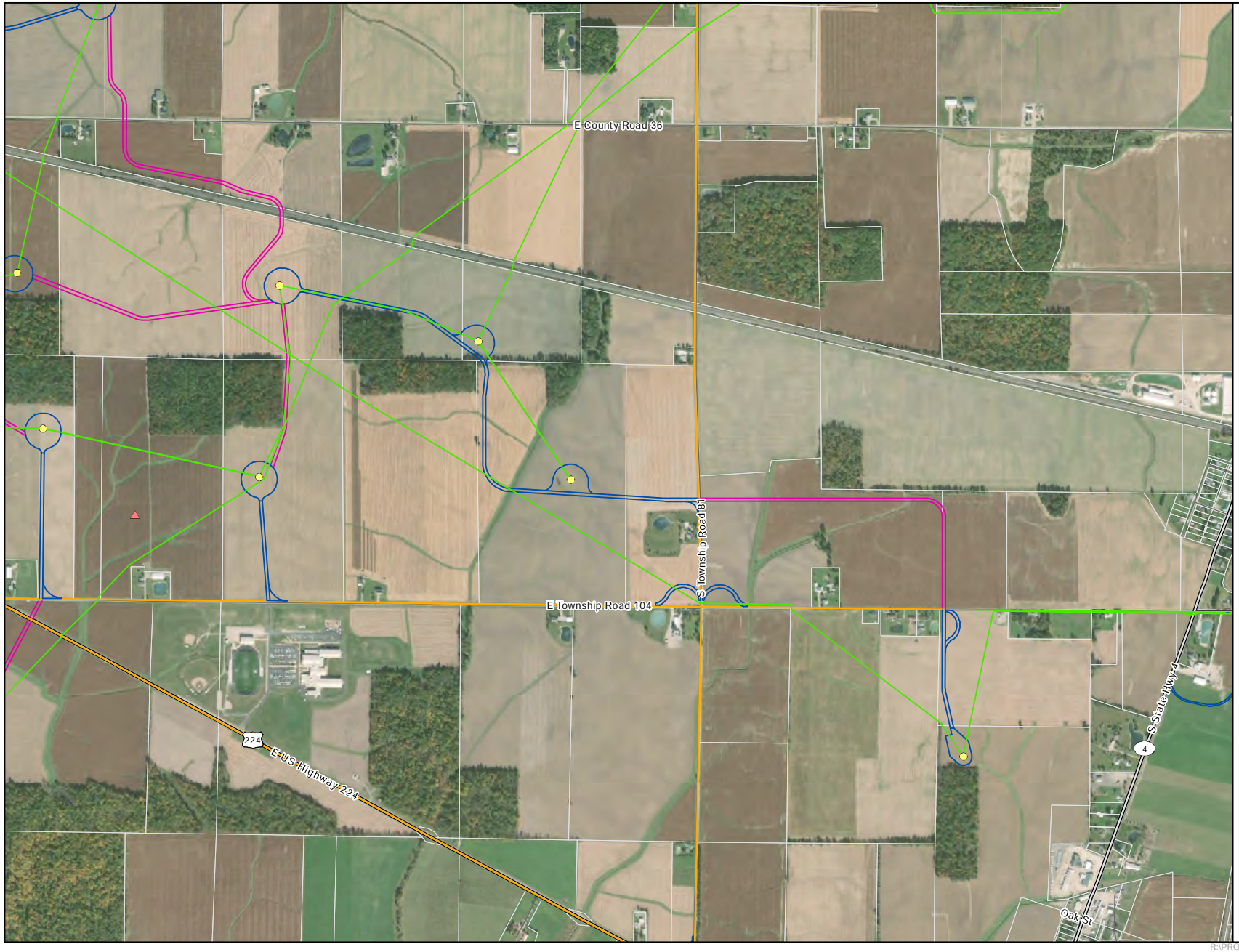

Figure 03-3
Project Layout
Sheet 12 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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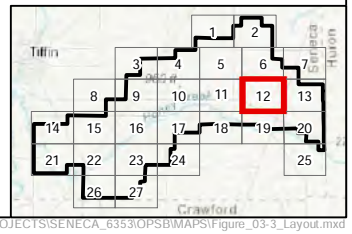

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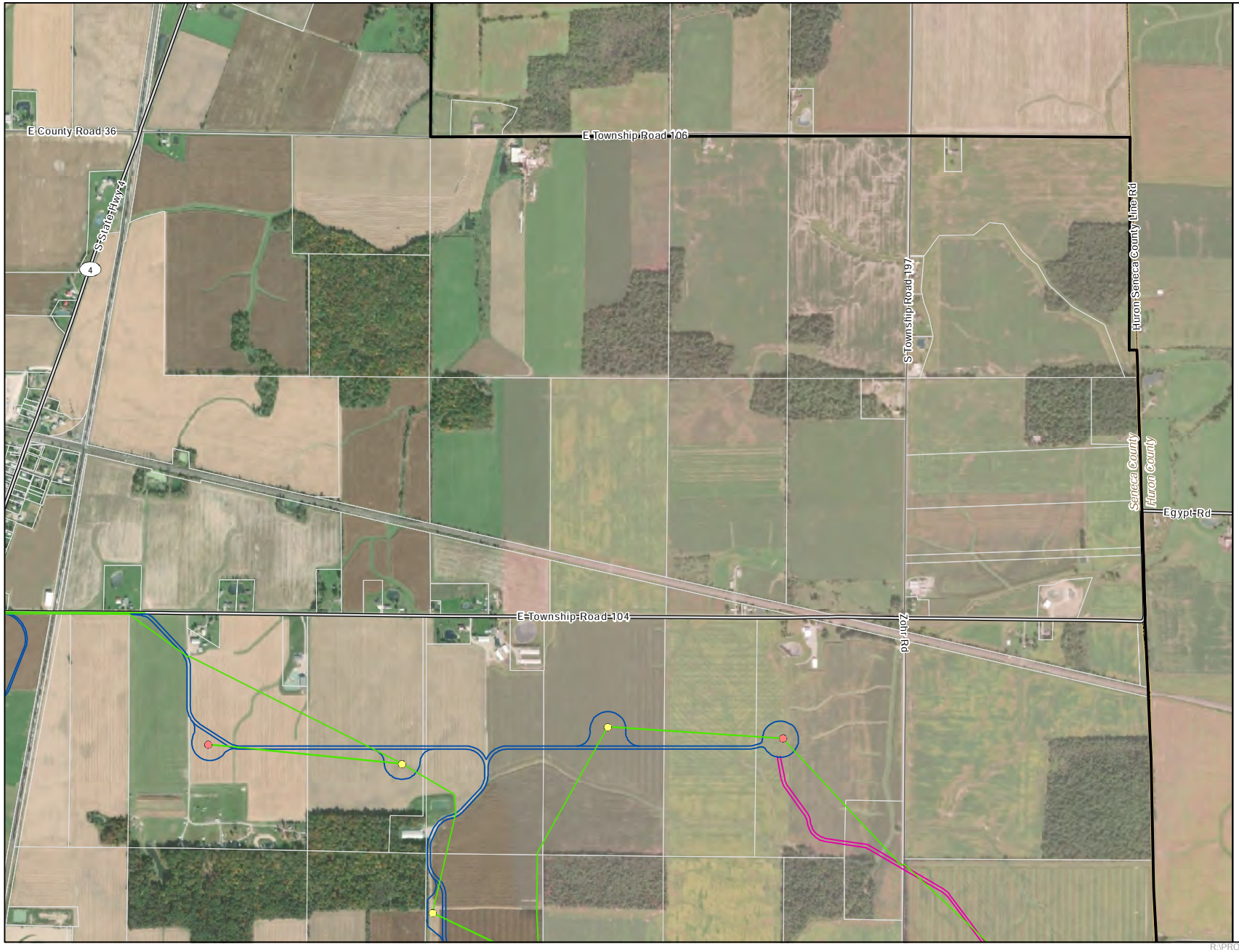

Figure 03-3
Project Layout
Sheet 13 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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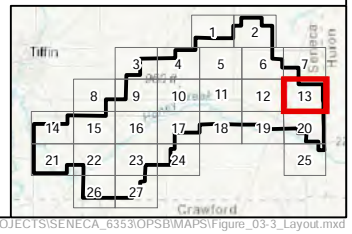
Source: ESRI (2016)



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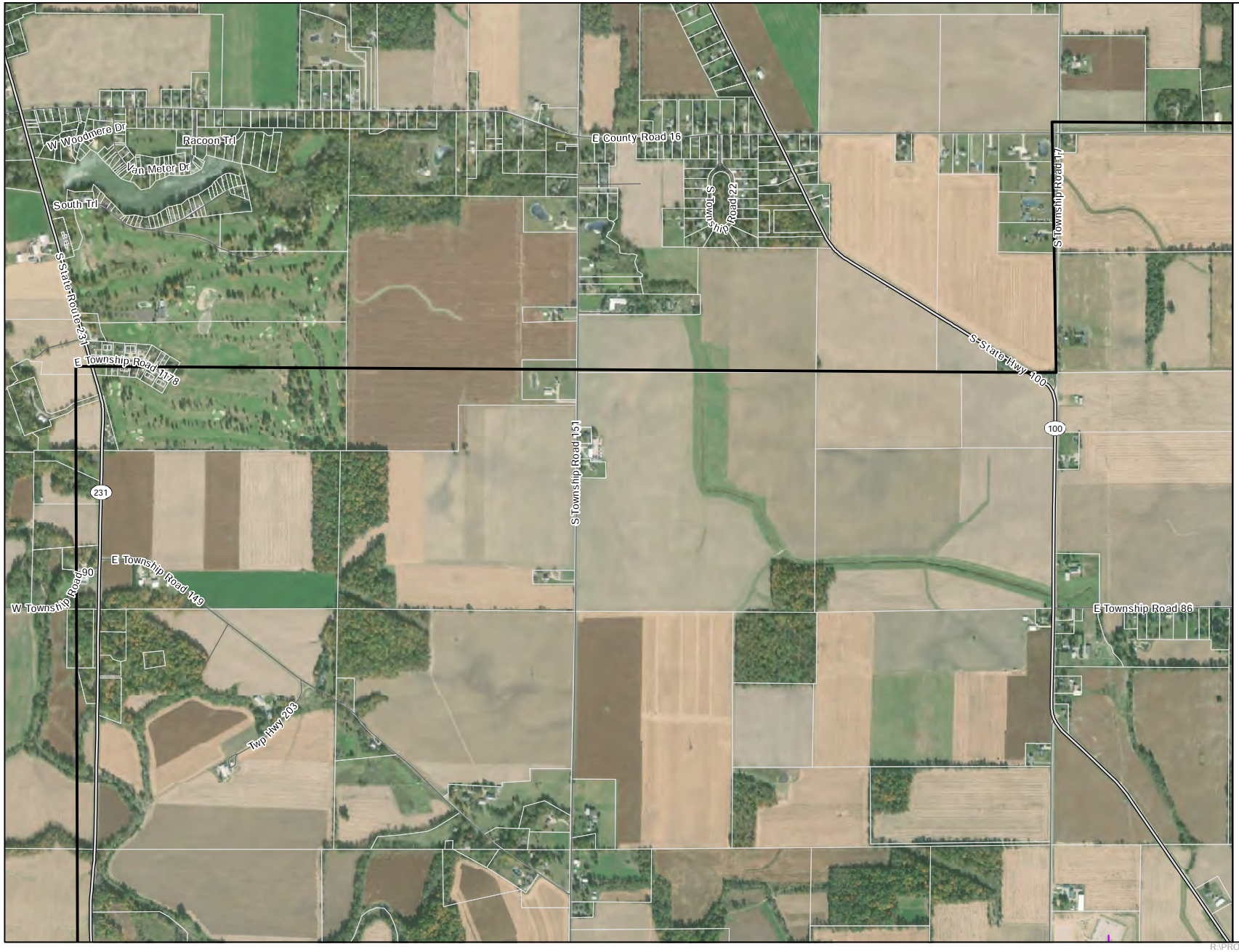

Figure 03-3
Project Layout
Sheet 14 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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Feet

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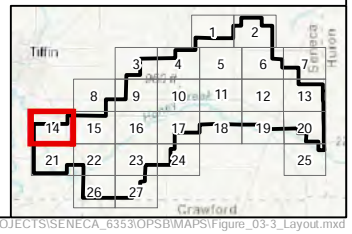
Source: ESRI (2016)



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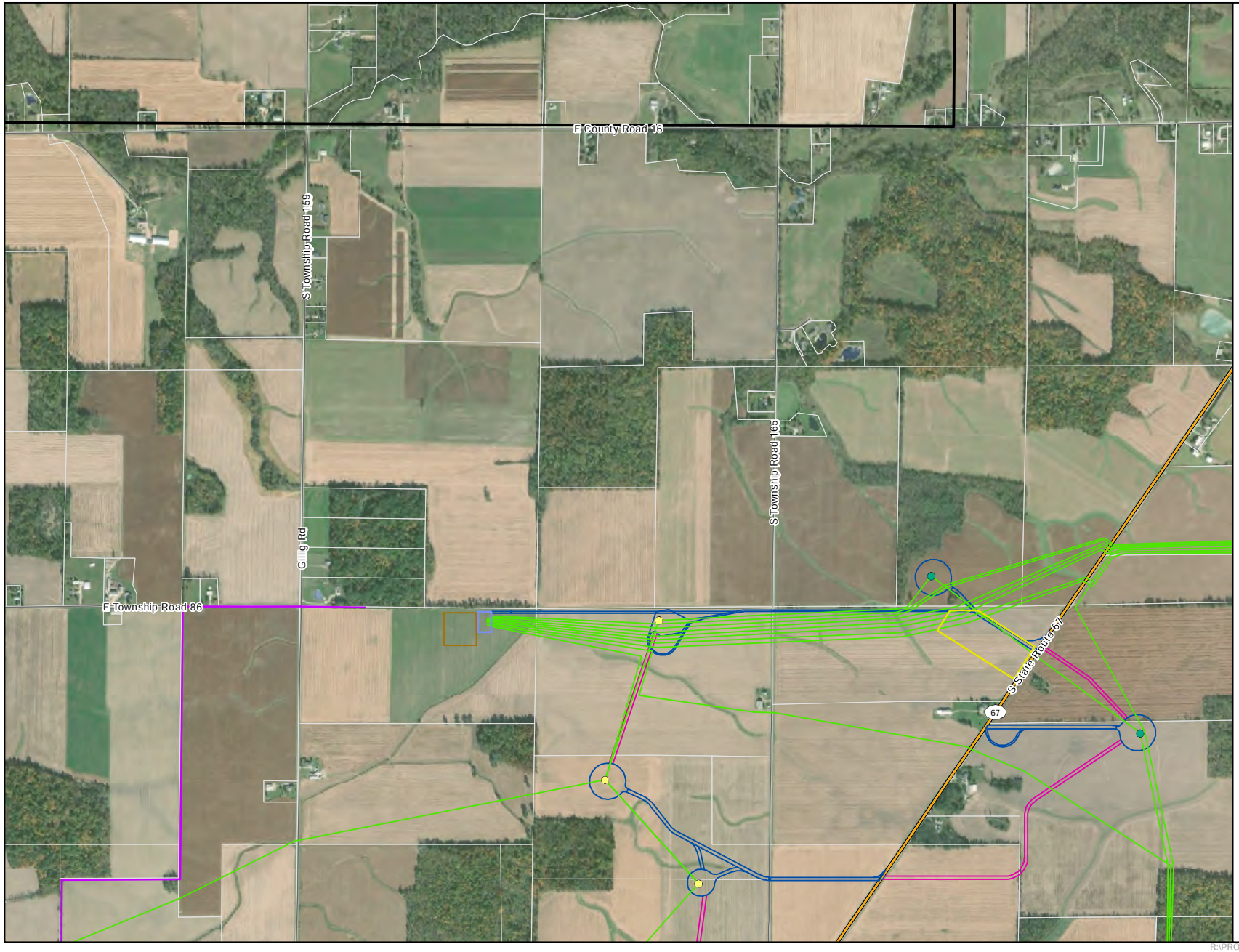

Figure 03-3
Project Layout
Sheet 15 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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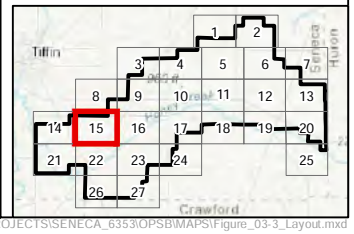
Source: ESRI (2016)



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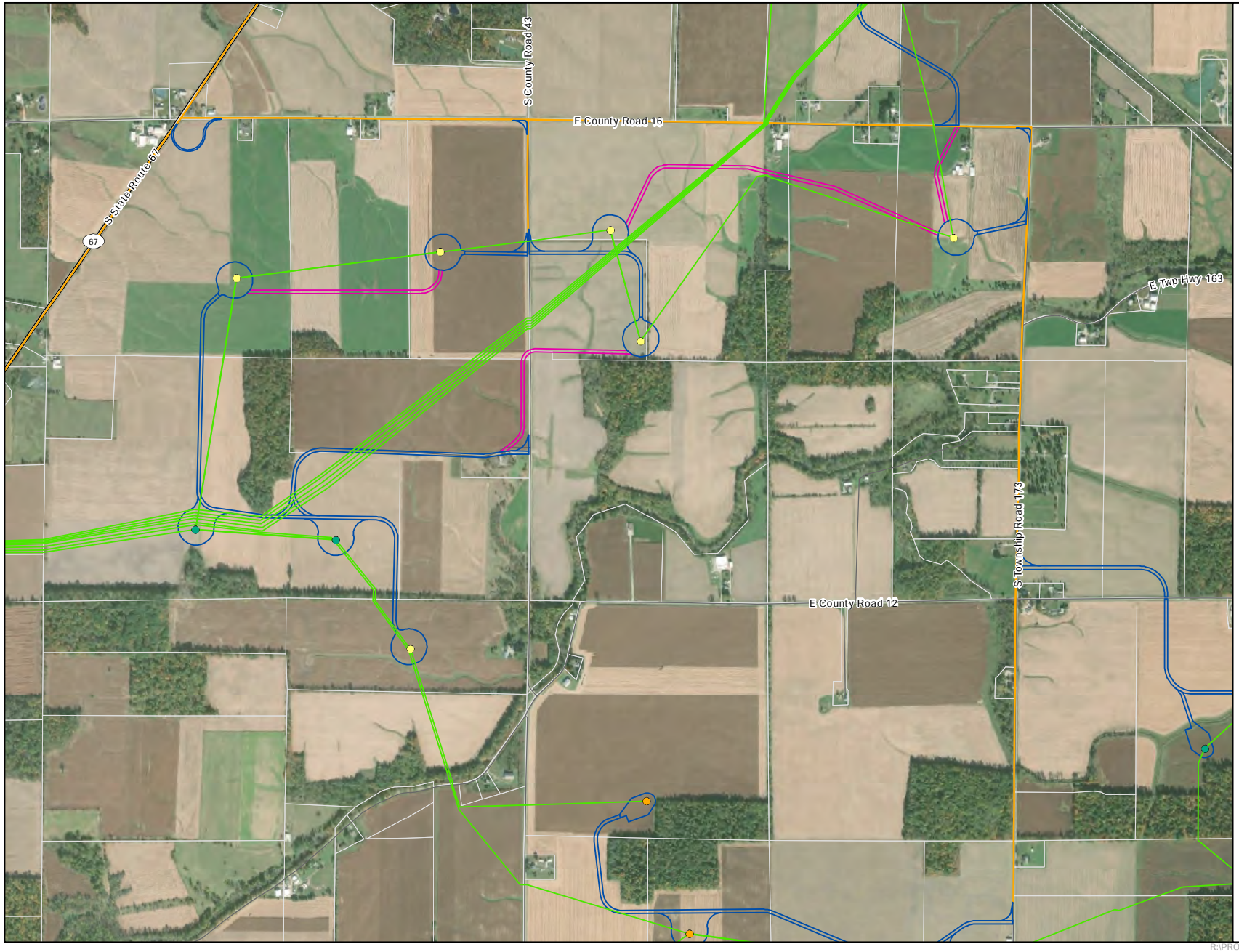

Figure 03-3
Project Layout
Sheet 16 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

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Feet

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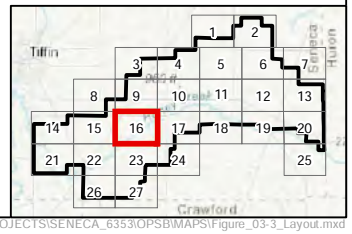

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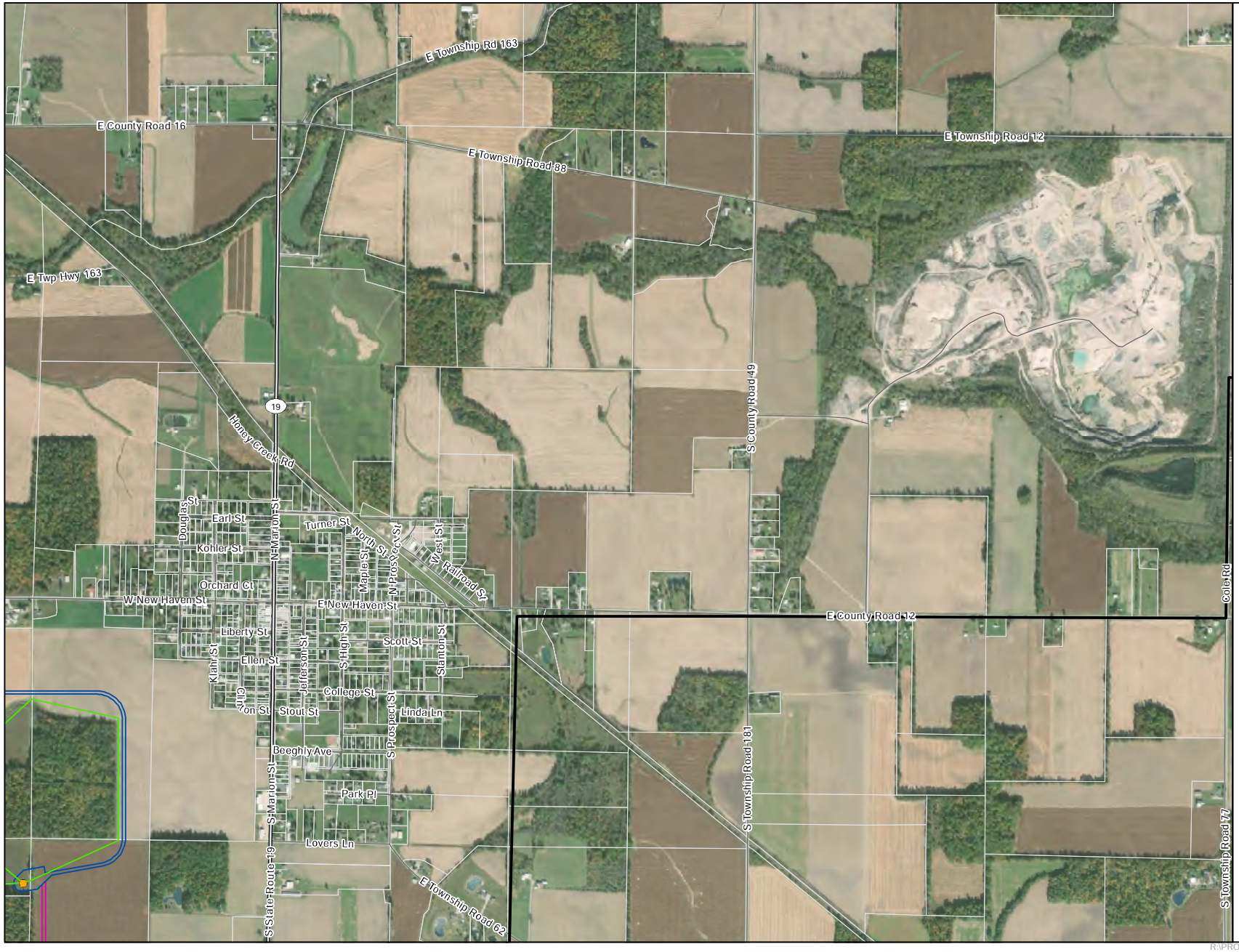

Figure 03-3
Project Layout
Sheet 17 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)

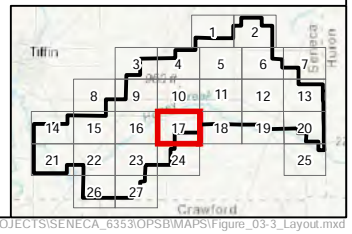

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Figure 03-3
Project Layout
Sheet 18 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)

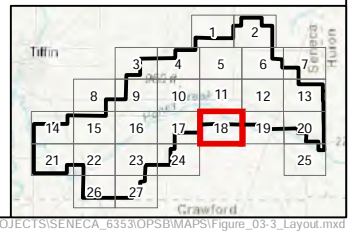

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Figure 03-3
Project Layout
Sheet 19 of 27

Seneca Wind
Seneca County, Ohio

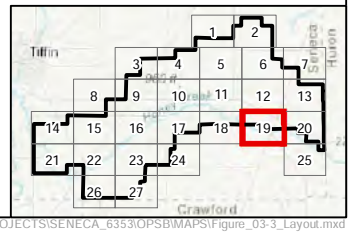
- Project Area
- Proposed Turbine Type (Hub Height)
  - GE 2.3-116 (80 m)
  - GE 2.3-116 (94 m)
  - GE 2.3-116 (80 m or 90 m)
  - GE 2.3-116 (80 m or 94 m)
  - GE 2.8 (114 m) or SG 2.7 (109 m)
  - GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
  - GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
  - Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)



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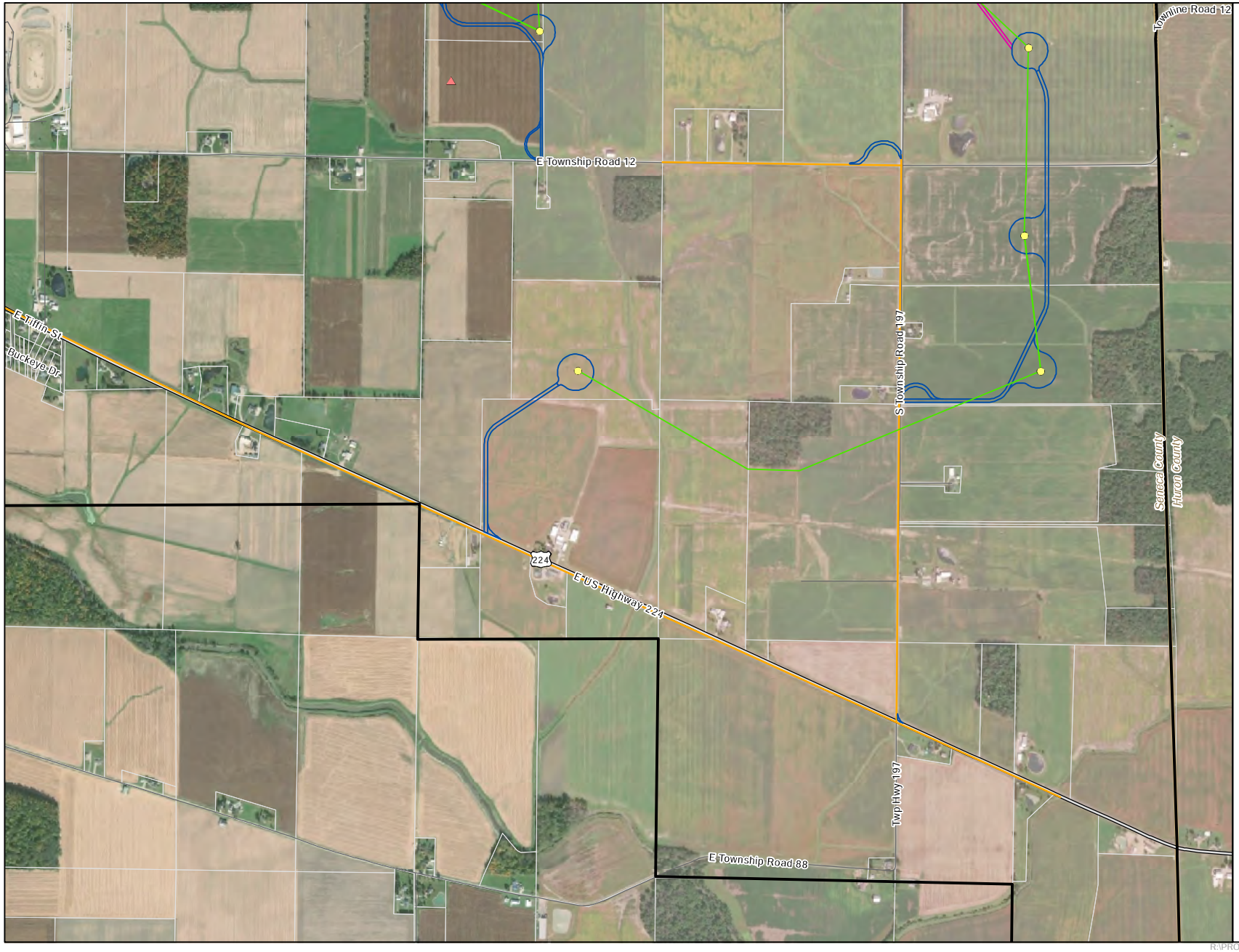

Figure 03-3
Project Layout
Sheet 20 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)

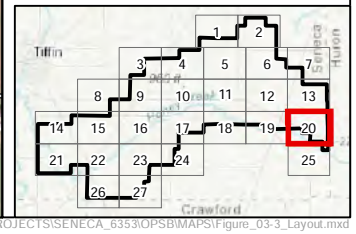

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Figure 03-3
Project Layout
Sheet 21 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

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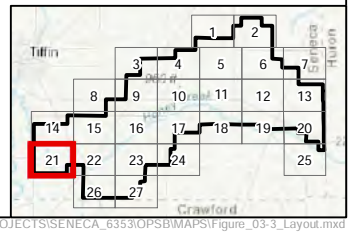

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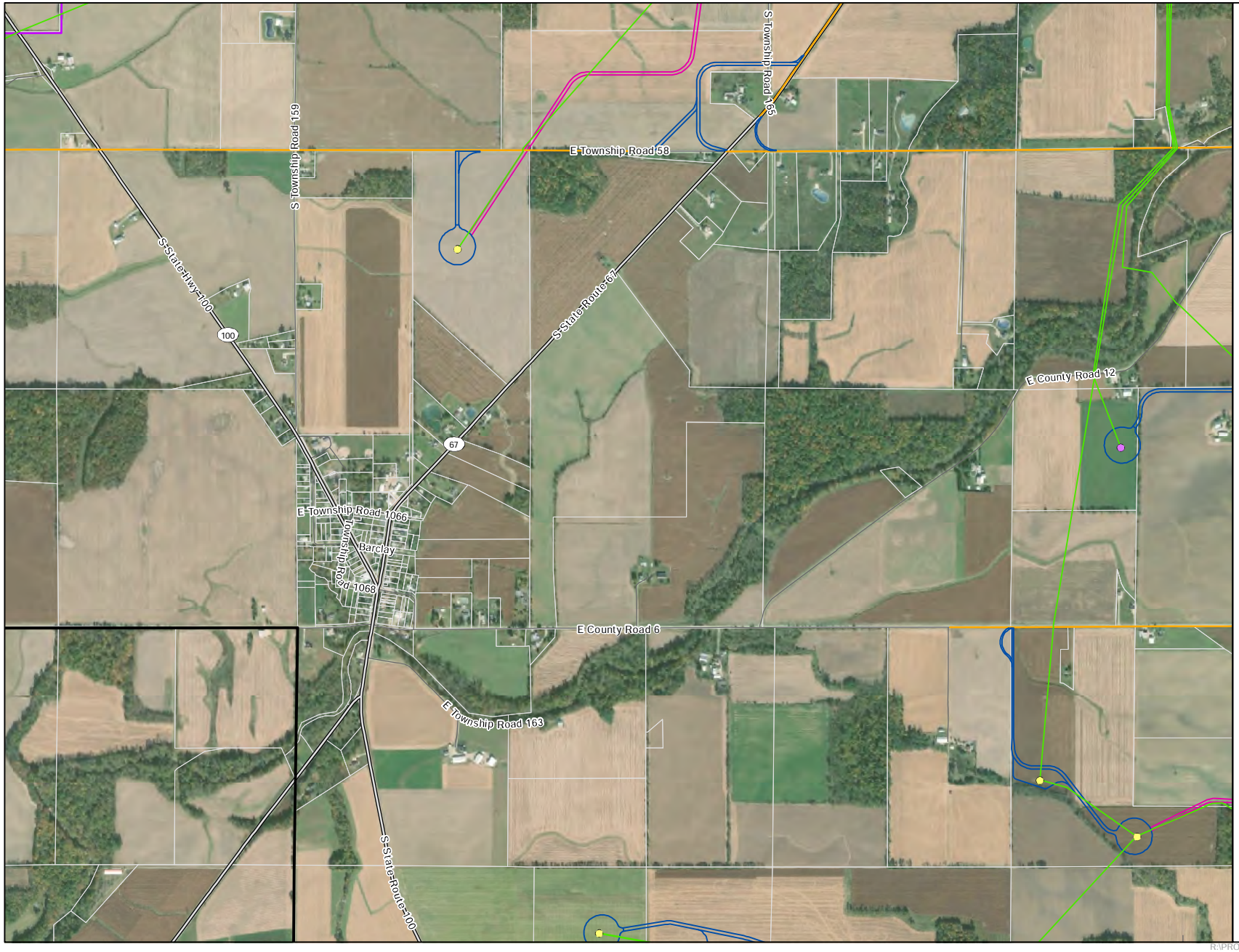


Figure 03-3
Project Layout
Sheet 22 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

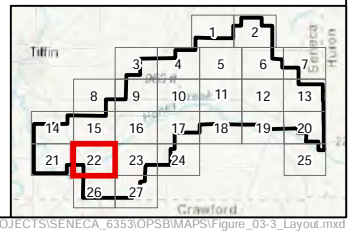
- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)



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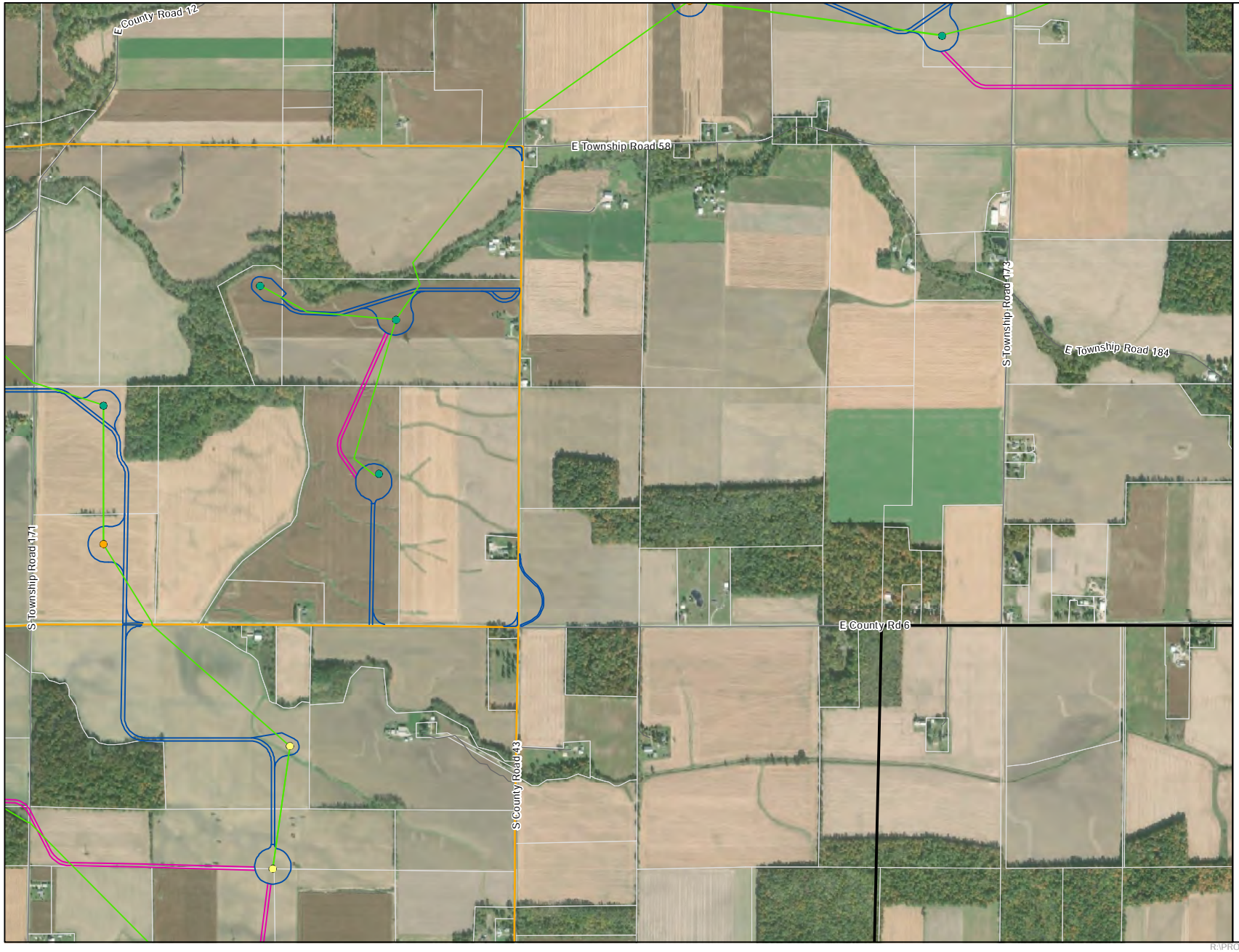

Figure 03-3
Project Layout
Sheet 23 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)

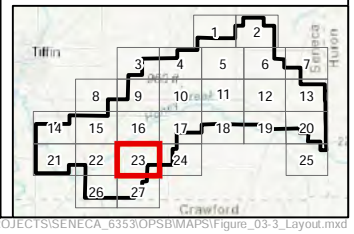

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Figure 03-3
Project Layout
Sheet 24 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)

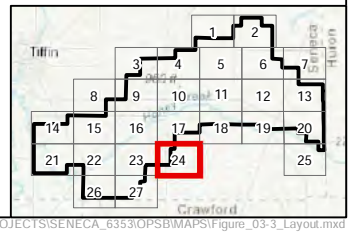

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Figure 03-3
Project Layout
Sheet 25 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

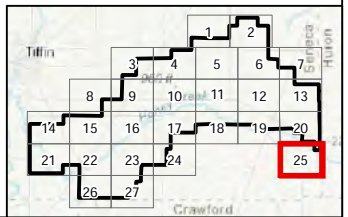
- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)



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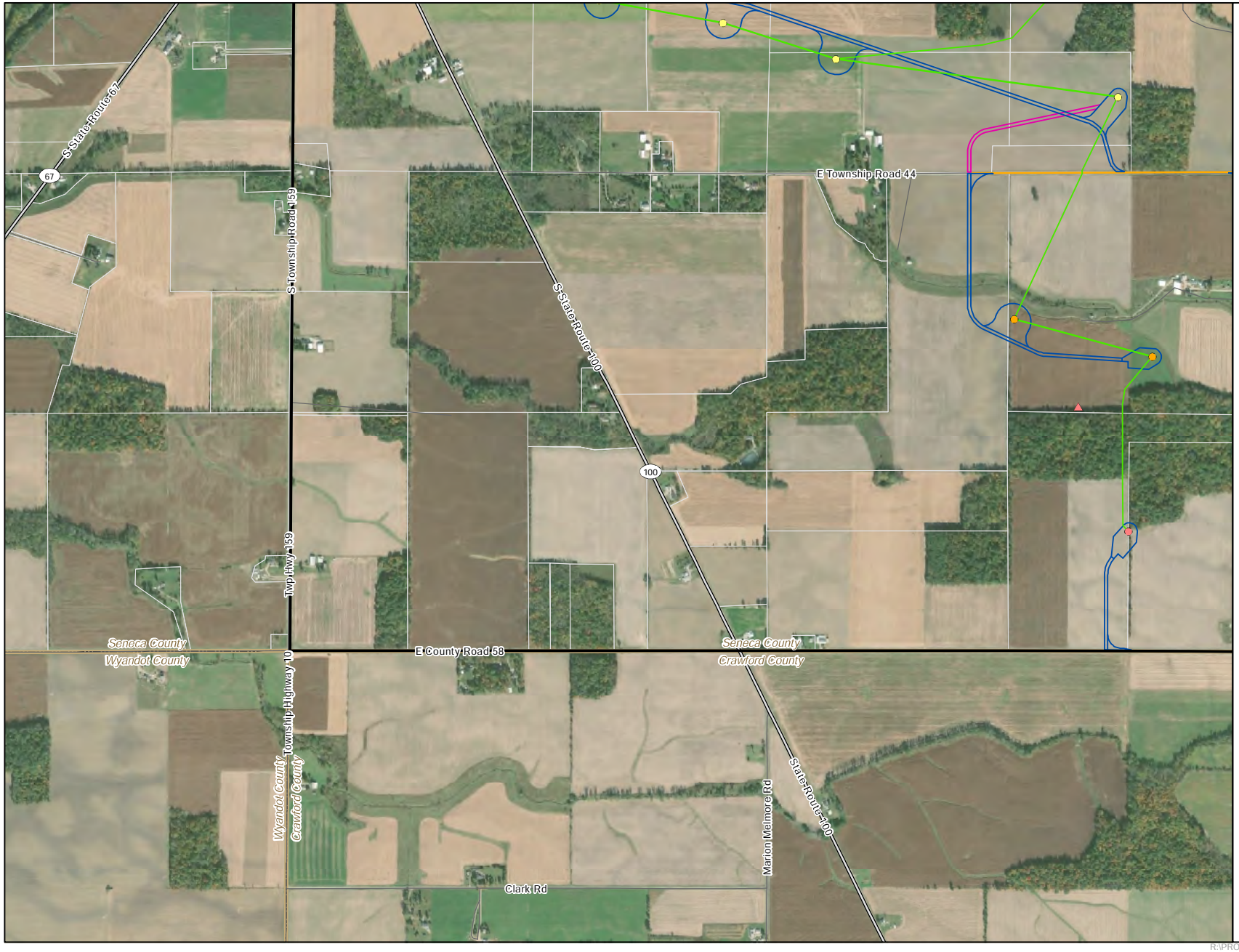

Figure 03-3
Project Layout
Sheet 26 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)

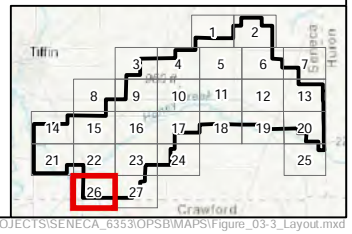

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Figure 03-3
Project Layout
Sheet 27 of 27

Seneca Wind
Seneca County, Ohio

- Project Area

Proposed Turbine Type (Hub Height)

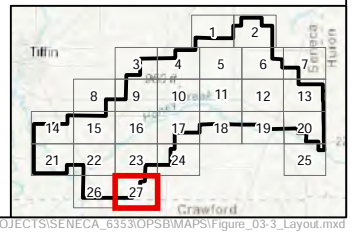
- GE 2.3-116 (80 m)
- GE 2.3-116 (94 m)
- GE 2.3-116 (80 m or 90 m)
- GE 2.3-116 (80 m or 94 m)
- GE 2.8 (114 m) or SG 2.7 (109 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m)
- GE 2.8 (114 m) or SG 2.7 (109 m) or GE 2.3-116 (80 m) or V110-2.2 (95 m)
- Permanent Met Tower
- 138-kV Electrical Interconnection
- Cranewalk
- Delivery Route
- Electrical Collection Lines
- Laydown Yard
- Potential O&M Area
- Site Road
- Substation
- Highway/Major Road
- Local Road
- Parcels
- County Boundary

N

0 1,000 2,000
Feet

1:12,000

Source: ESRI (2016)



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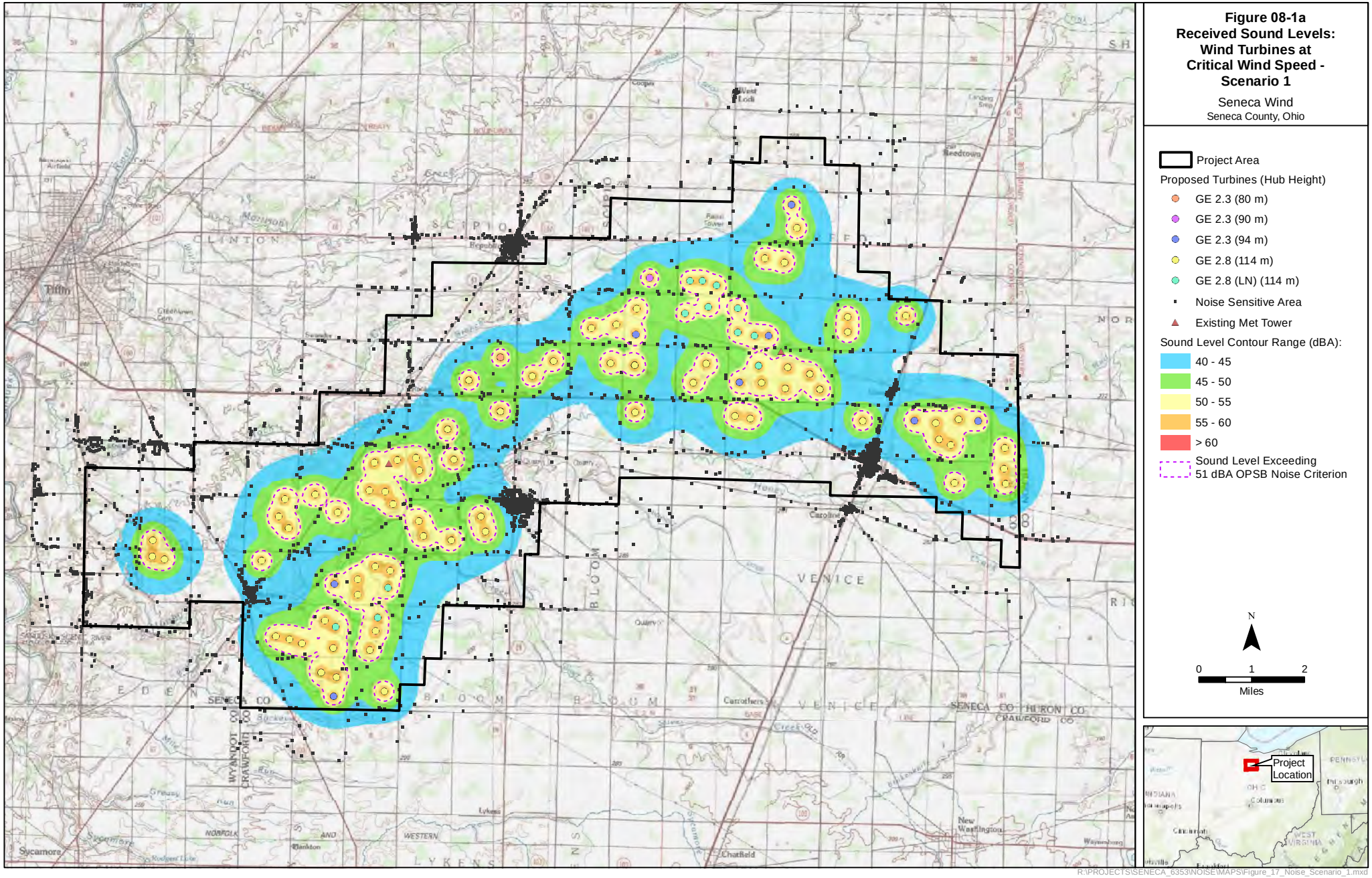

Figure 08-1a
Received Sound Levels: Wind Turbines at Critical Wind Speed - Scenario 1

Seneca Wind
Seneca County, Ohio

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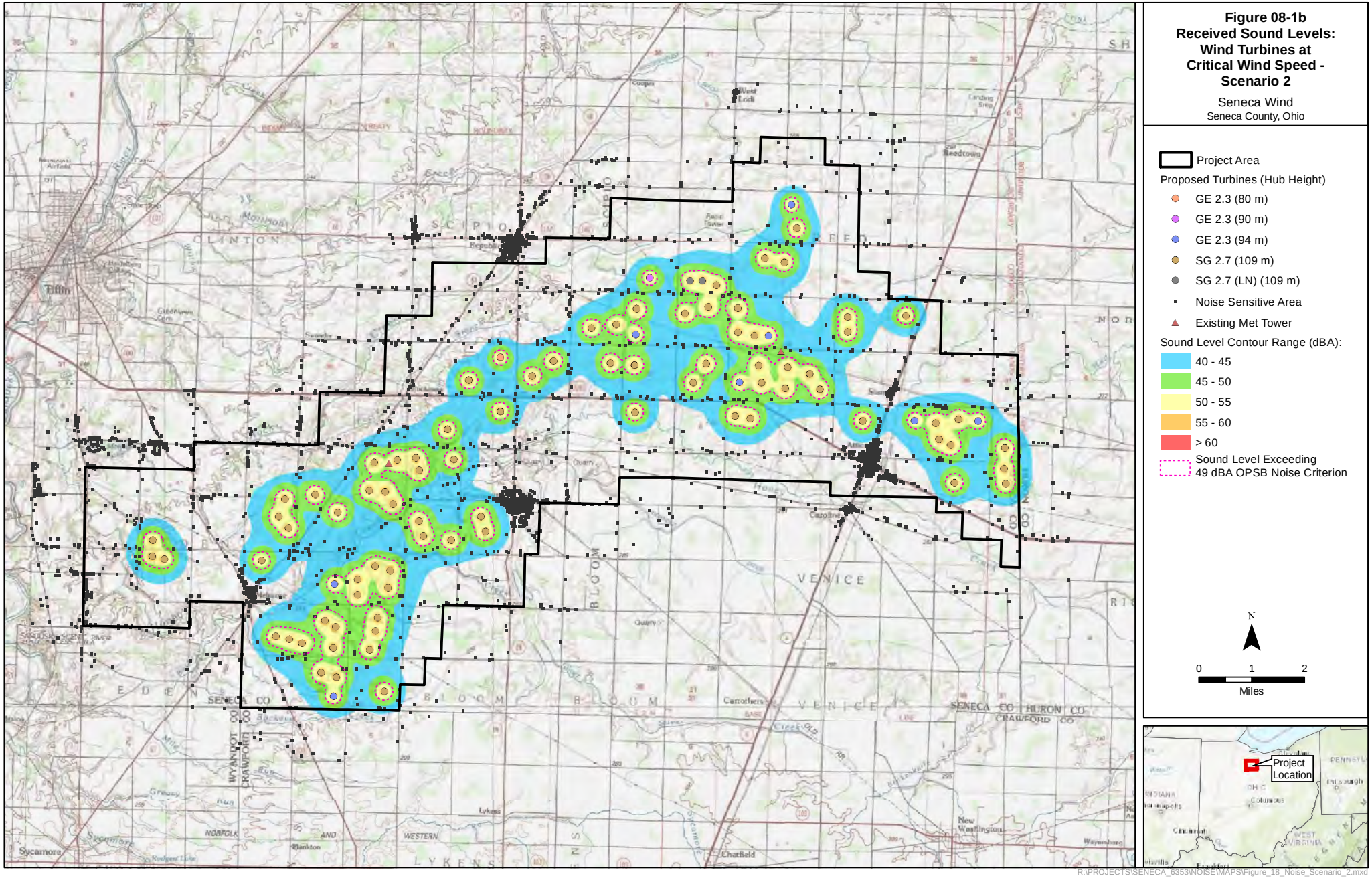
Figure 08-1b
Received Sound Levels:
Wind Turbines at
Critical Wind Speed -
Scenario 2
Seneca Wind
Seneca County, Ohio
Project Area
Proposed Turbines (Hub Height)
GE 2.3 (80 m)
GE 2.3 (90 m)
GE 2.3 (94 m)
SG 2.7 (109 m)
SG 2.7 (LN) (109 m)
Noise Sensitive Area
Existing Met Tower
Sound Level Contour Range (dBA):
40 - 45
45 - 50
50 - 55
55 - 60
> 60
Sound Level Exceeding
49 dBA OPSB Noise Criterion
N
0
1
2
Miles
Project Location
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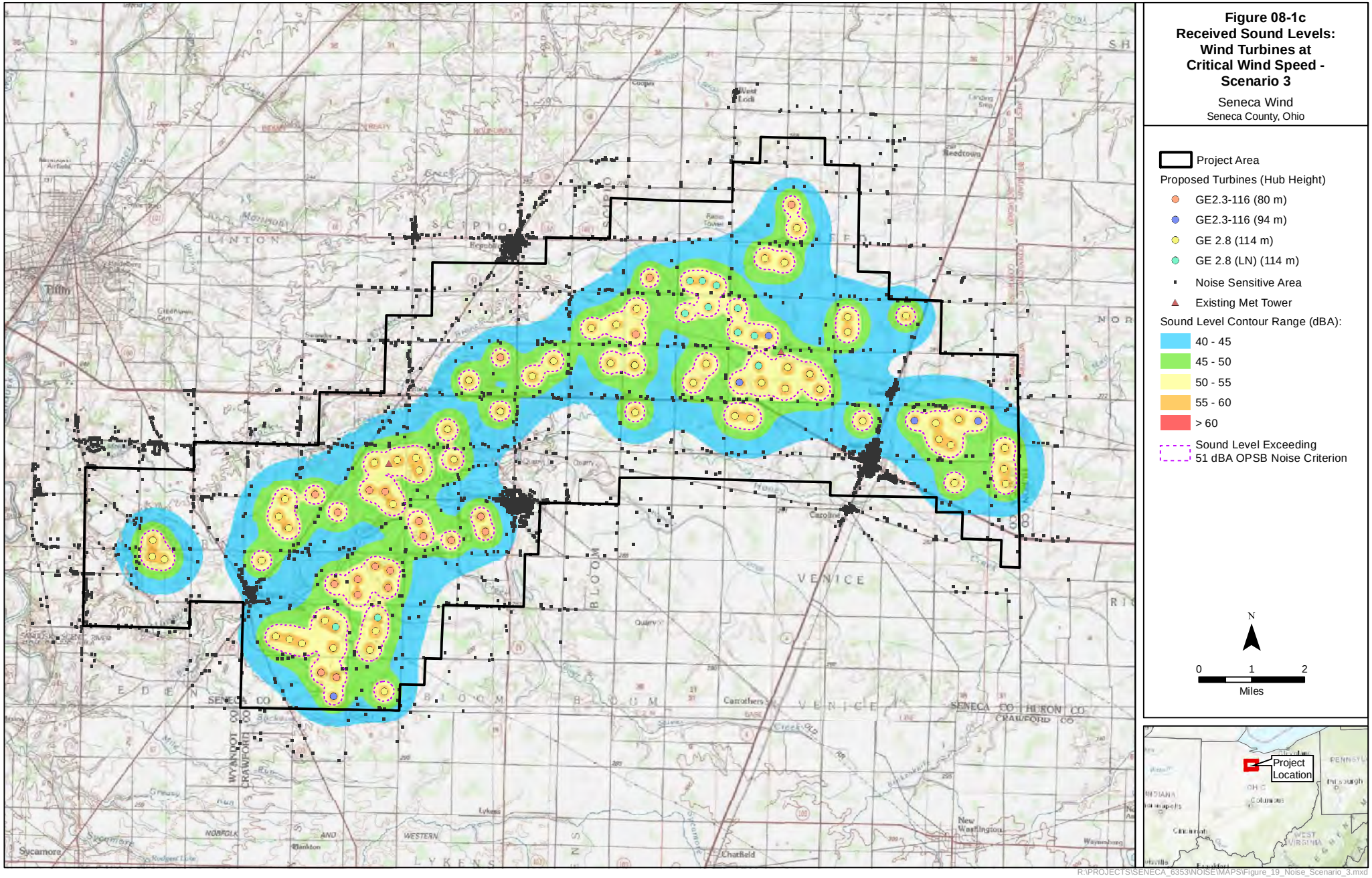
Figure 08-1c
Received Sound Levels:
Wind Turbines at
Critical Wind Speed -
Scenario 3
Seneca Wind
Seneca County, Ohio
Project Area
Proposed Turbines (Hub Height)
GE2.3-116 (80 m)
GE2.3-116 (94 m)
GE 2.8 (114 m)
GE 2.8 (LN) (114 m)
Noise Sensitive Area
Existing Met Tower
Sound Level Contour Range (dBA):
40 - 45
45 - 50
50 - 55
55 - 60
> 60
Sound Level Exceeding
51 dBA OPSB Noise Criterion
N
0
1
2
Miles
Project Location
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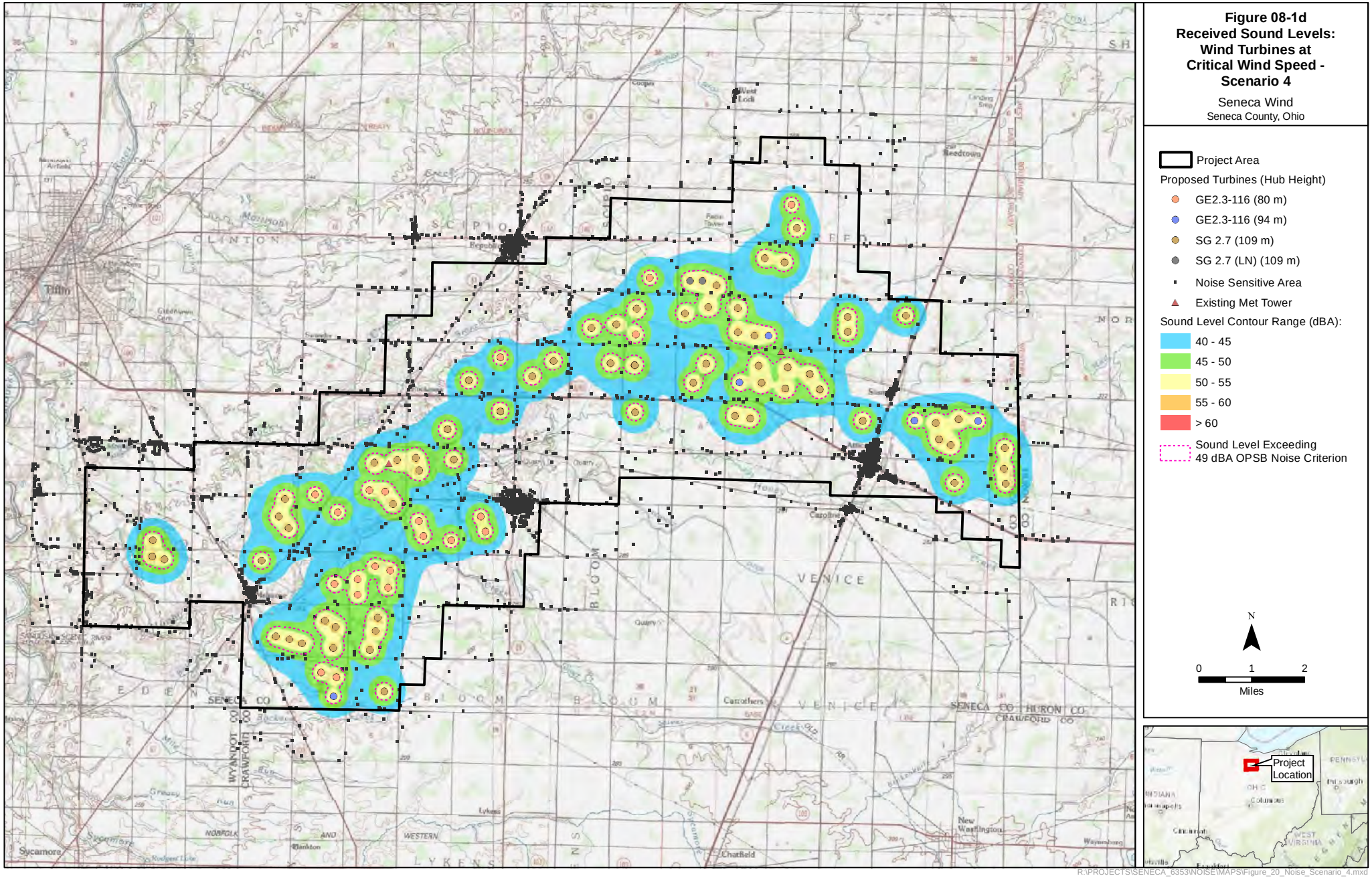
Figure 08-1d
Received Sound Levels:
Wind Turbines at
Critical Wind Speed -
Scenario 4
Seneca Wind
Seneca County, Ohio
Project Area
Proposed Turbines (Hub Height)
GE2.3-116 (80 m)
GE2.3-116 (94 m)
SG 2.7 (109 m)
SG 2.7 (LN) (109 m)
Noise Sensitive Area
Existing Met Tower
Sound Level Contour Range (dBA):
40 - 45
45 - 50
50 - 55
55 - 60
> 60
Sound Level Exceeding
49 dBA OPSB Noise Criterion
N
0
1
2
Miles
Project Location
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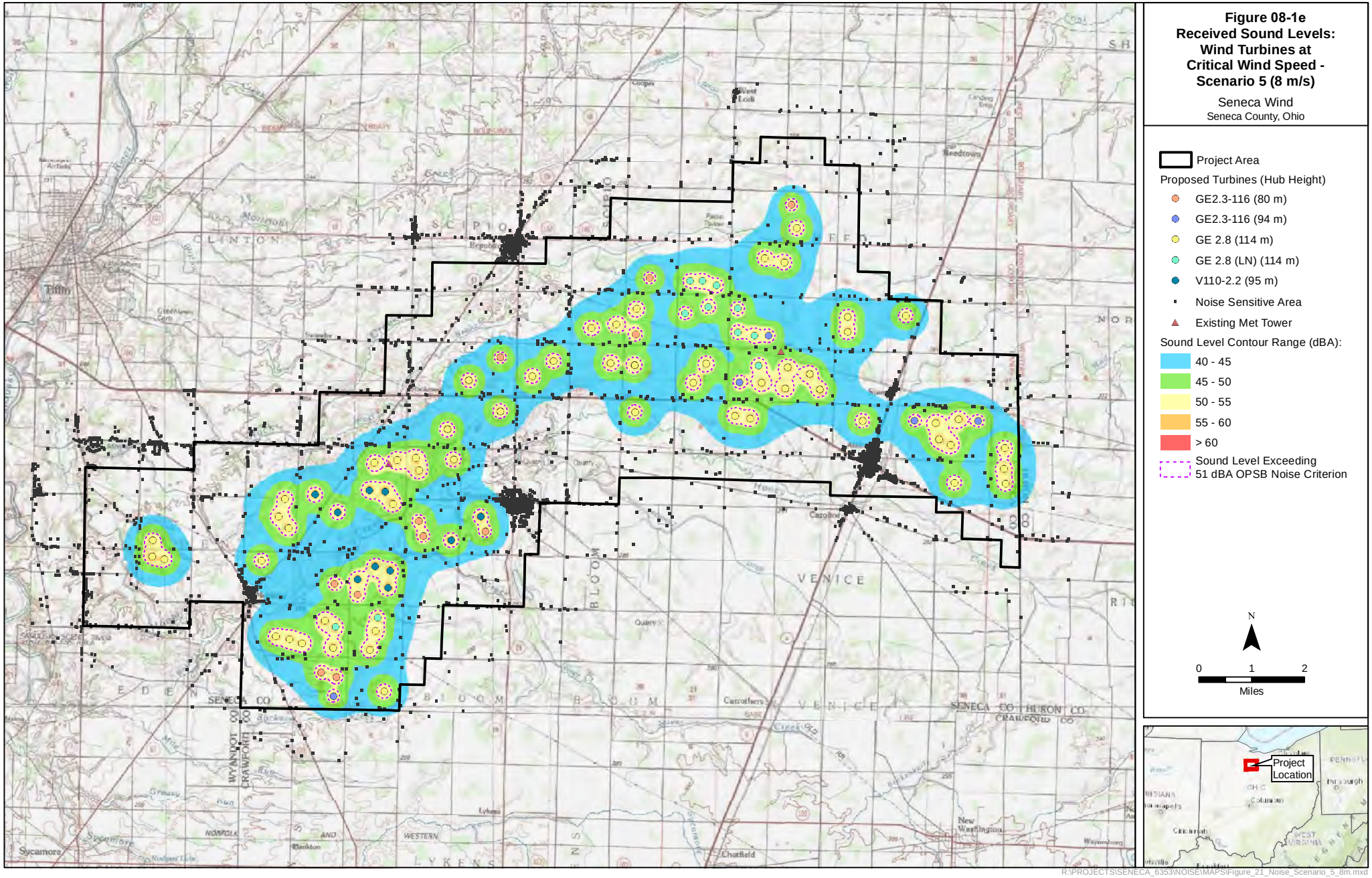
Figure 08-1e
Received Sound Levels:
Wind Turbines at
Critical Wind Speed -
Scenario 5 (8 m/s)
Seneca Wind
Seneca County, Ohio
Project Area
Proposed Turbines (Hub Height)
GE2.3-116 (80 m)
GE2.3-116 (94 m)
GE 2.8 (114 m)
GE 2.8 (LN) (114 m)
V110-2.2 (95 m)
Noise Sensitive Area
Existing Met Tower
Sound Level Contour Range (dBA):
40 - 45
45 - 50
50 - 55
55 - 60
> 60
Sound Level Exceeding
51 dBA OPSB Noise Criterion
N
0
1
2
Miles
Project Location
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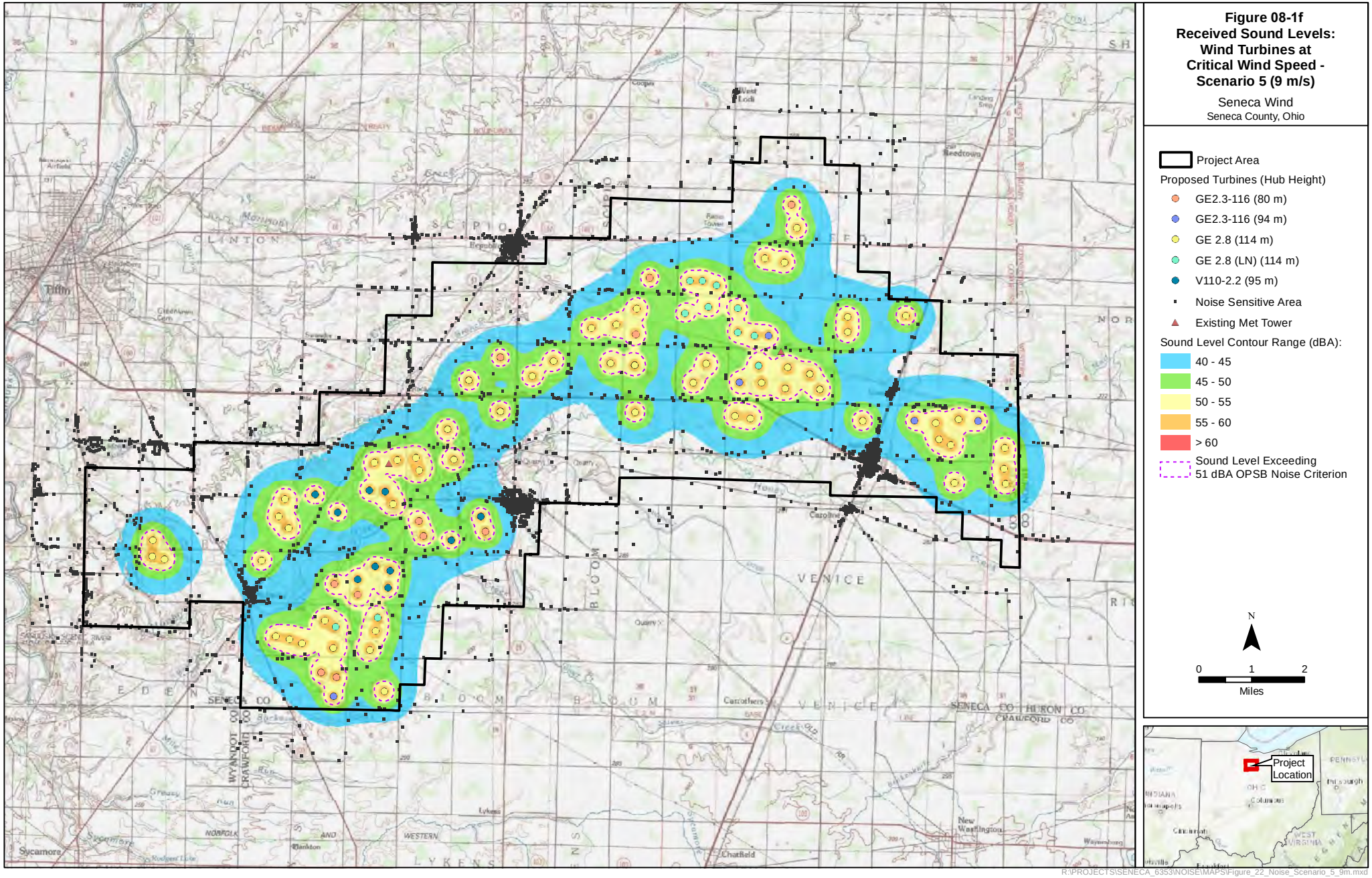

Figure 08-1f
Received Sound Levels: Wind Turbines at Critical Wind Speed - Scenario 5 (9 m/s)

Seneca Wind
Seneca County, Ohio

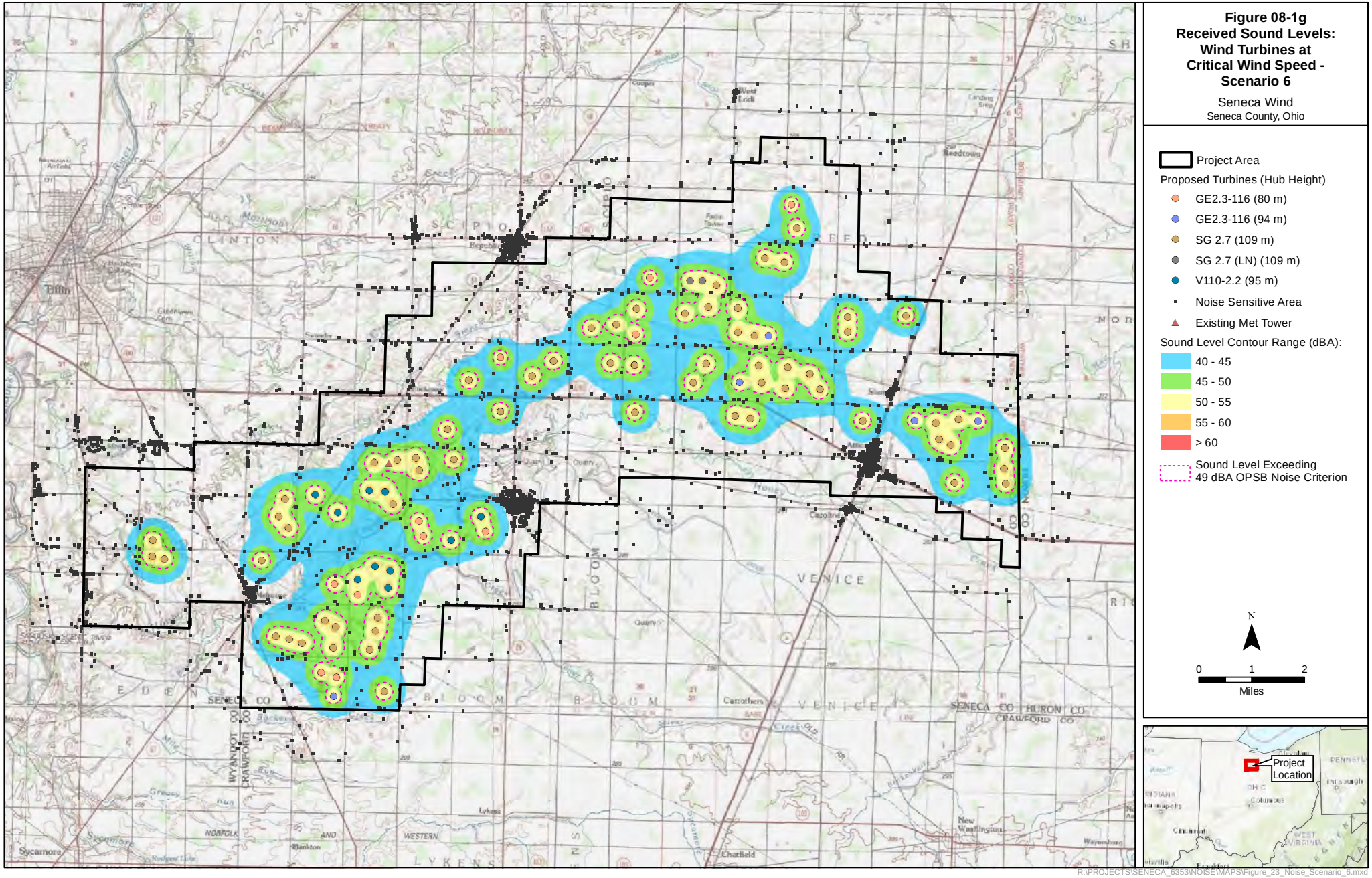
Figure 08-1g
Received Sound Levels:
Wind Turbines at
Critical Wind Speed -
Scenario 6
Seneca Wind
Seneca County, Ohio
Project Area
Proposed Turbines (Hub Height)
GE2.3-116 (80 m)
GE2.3-116 (94 m)
SG 2.7 (109 m)
SG 2.7 (LN) (109 m)
V110-2.2 (95 m)
Noise Sensitive Area
Existing Met Tower
Sound Level Contour Range (dBA):
40 - 45
45 - 50
50 - 55
55 - 60
> 60
Sound Level Exceeding
49 dBA OPSB Noise Criterion
N
0
1
2
Miles
Project Location
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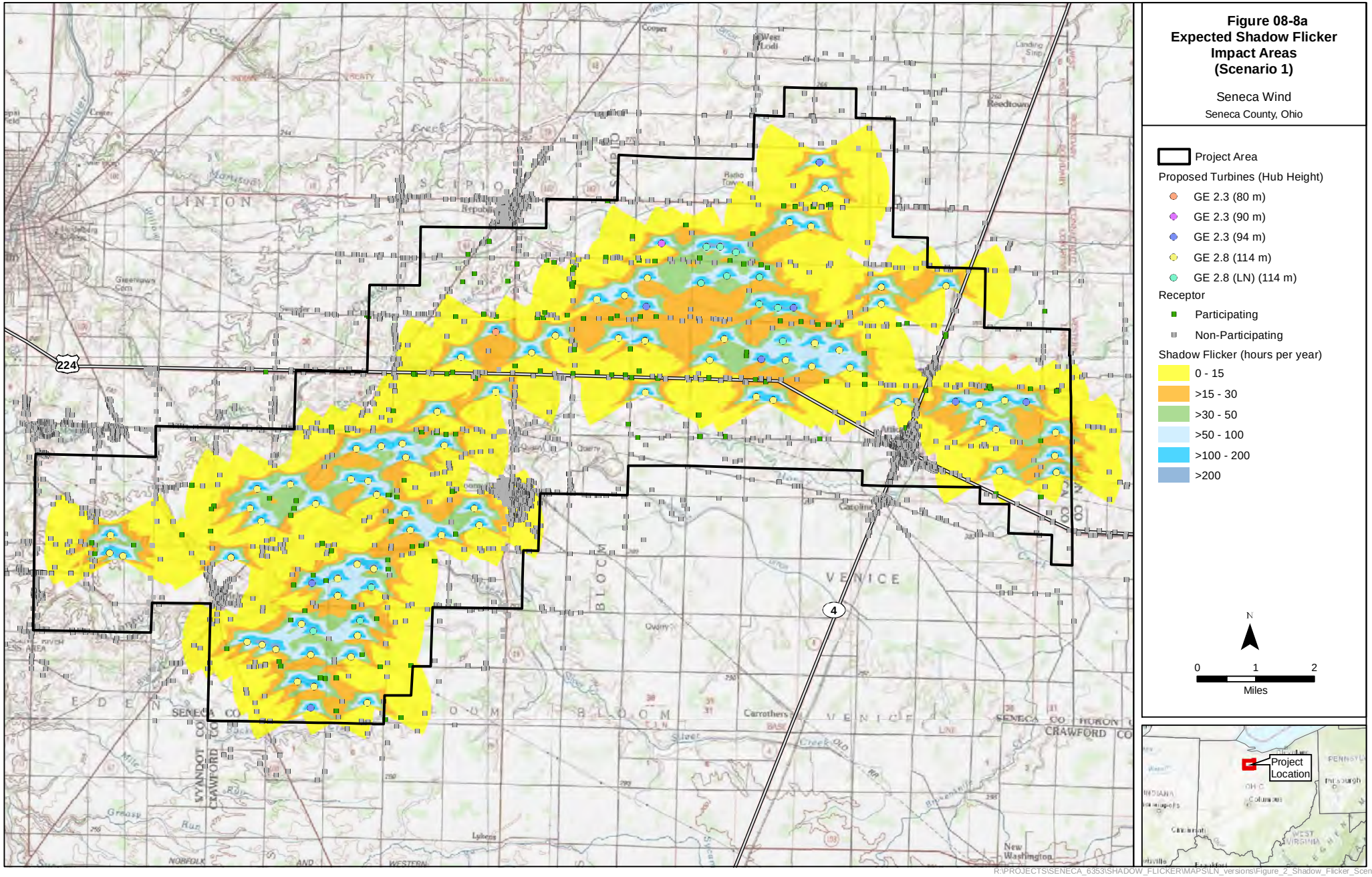
Figure 08-8a
Expected Shadow Flicker Impact Areas (Scenario 1)
Seneca Wind
Seneca County, Ohio
Project Area
Proposed Turbines (Hub Height)
GE 2.3 (80 m)
GE 2.3 (90 m)
GE 2.3 (94 m)
GE 2.8 (114 m)
GE 2.8 (LN) (114 m)
Receptor
Participating
Non-Participating
Shadow Flicker (hours per year)
0 - 15
>15 - 30
>30 - 50
>50 - 100
>100 - 200
>200
N
0
1
2
Miles
Project Location
SCIPIO
CLINTON
BLOOM
VENICE
EDEN
SENECA CO
WYANDOT CO
CRAWFORD CO
HURON CO
224
4
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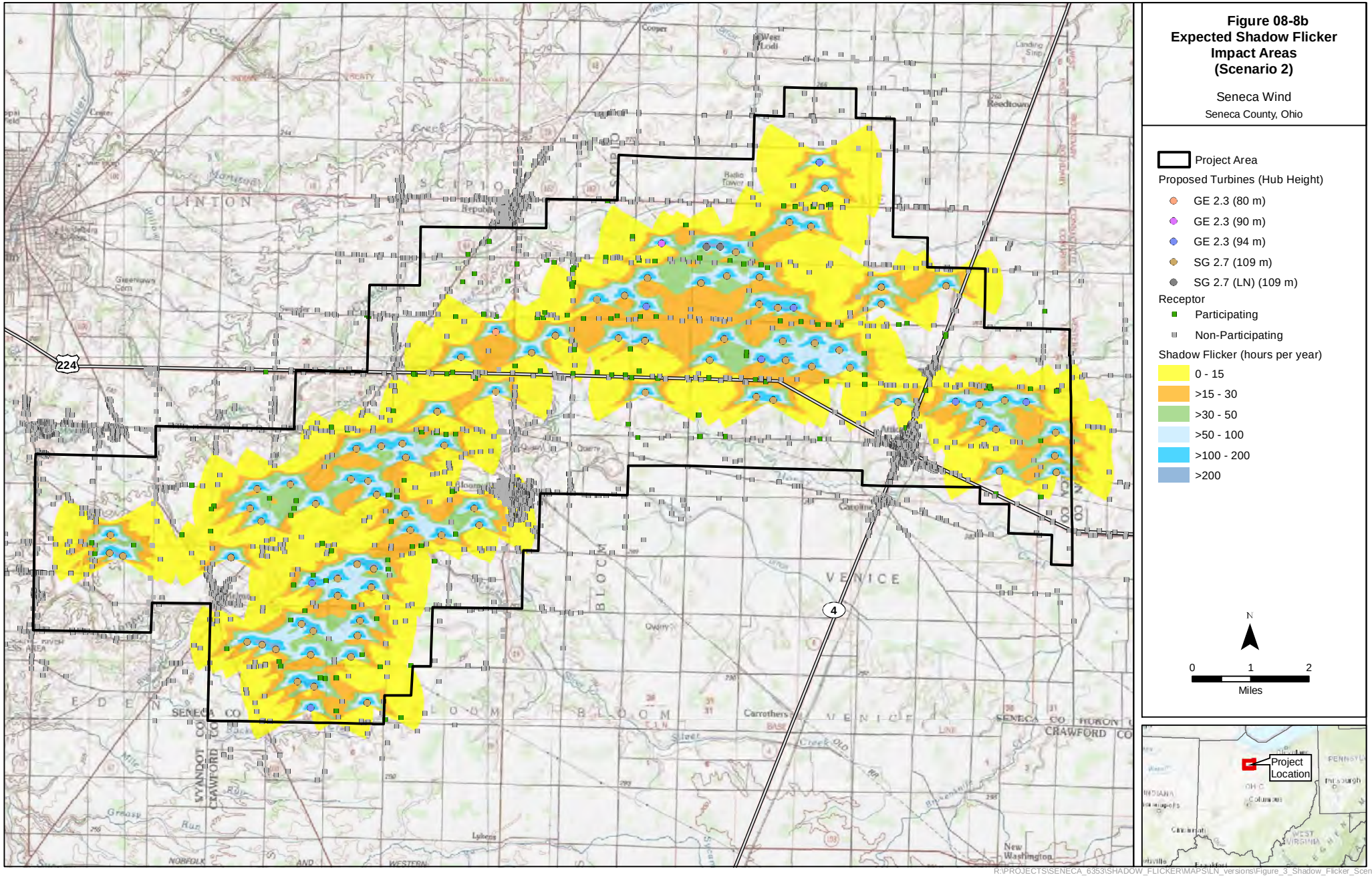

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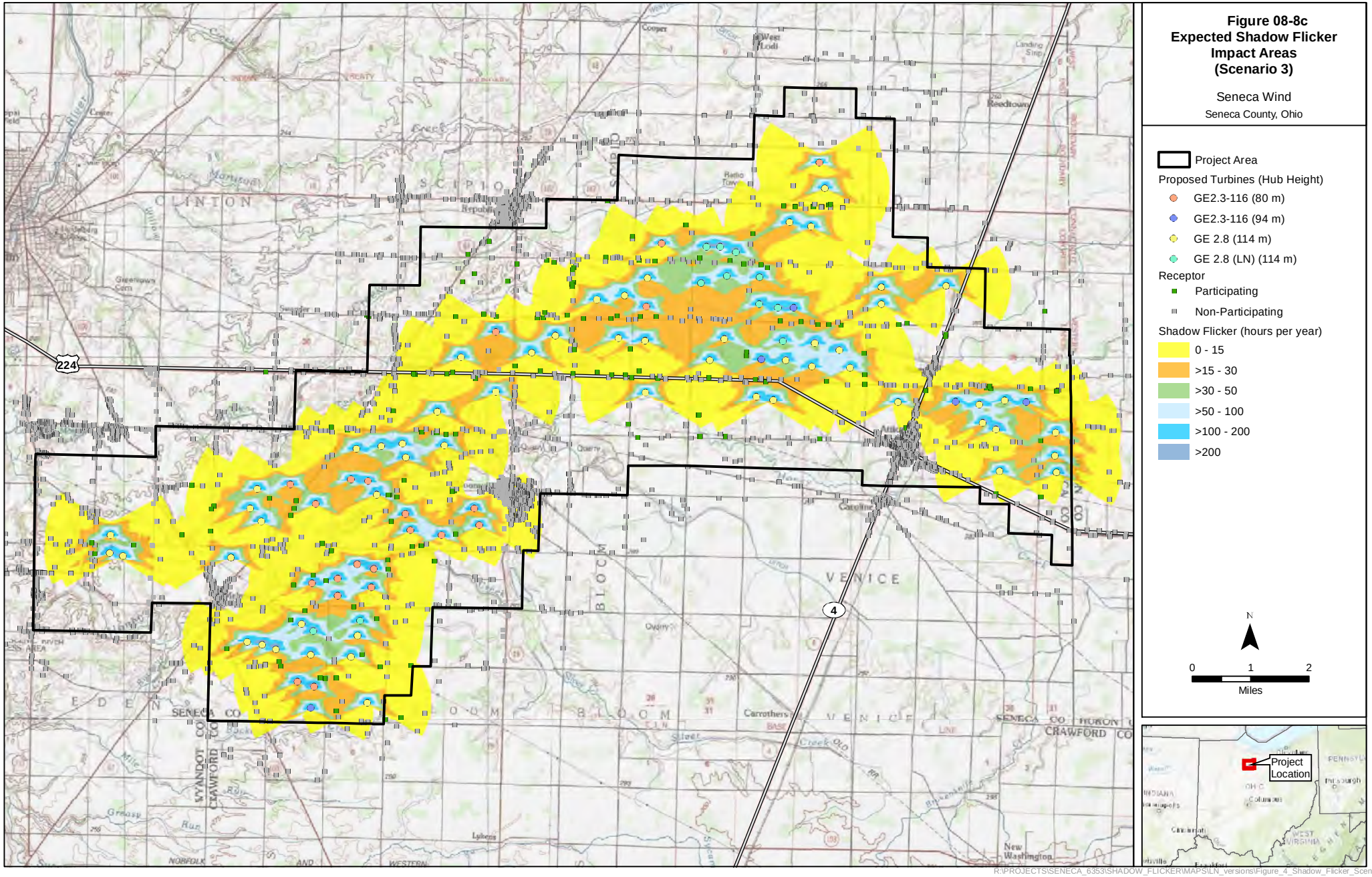
Figure 08-8c
Expected Shadow Flicker Impact Areas (Scenario 3)
Seneca Wind
Seneca County, Ohio
Project Area
Proposed Turbines (Hub Height)
GE2.3-116 (80 m)
GE2.3-116 (94 m)
GE 2.8 (114 m)
GE 2.8 (LN) (114 m)
Receptor
Participating
Non-Participating
Shadow Flicker (hours per year)
0 - 15
>15 - 30
>30 - 50
>50 - 100
>100 - 200
>200
N
0
1
2
Miles
Project Location
CLINTON
SCIPIO
BLOOM
VENICE
EDEN
SENECA CO
CRAWFORD CO
WYANDOT CO
HURON CO
224
4
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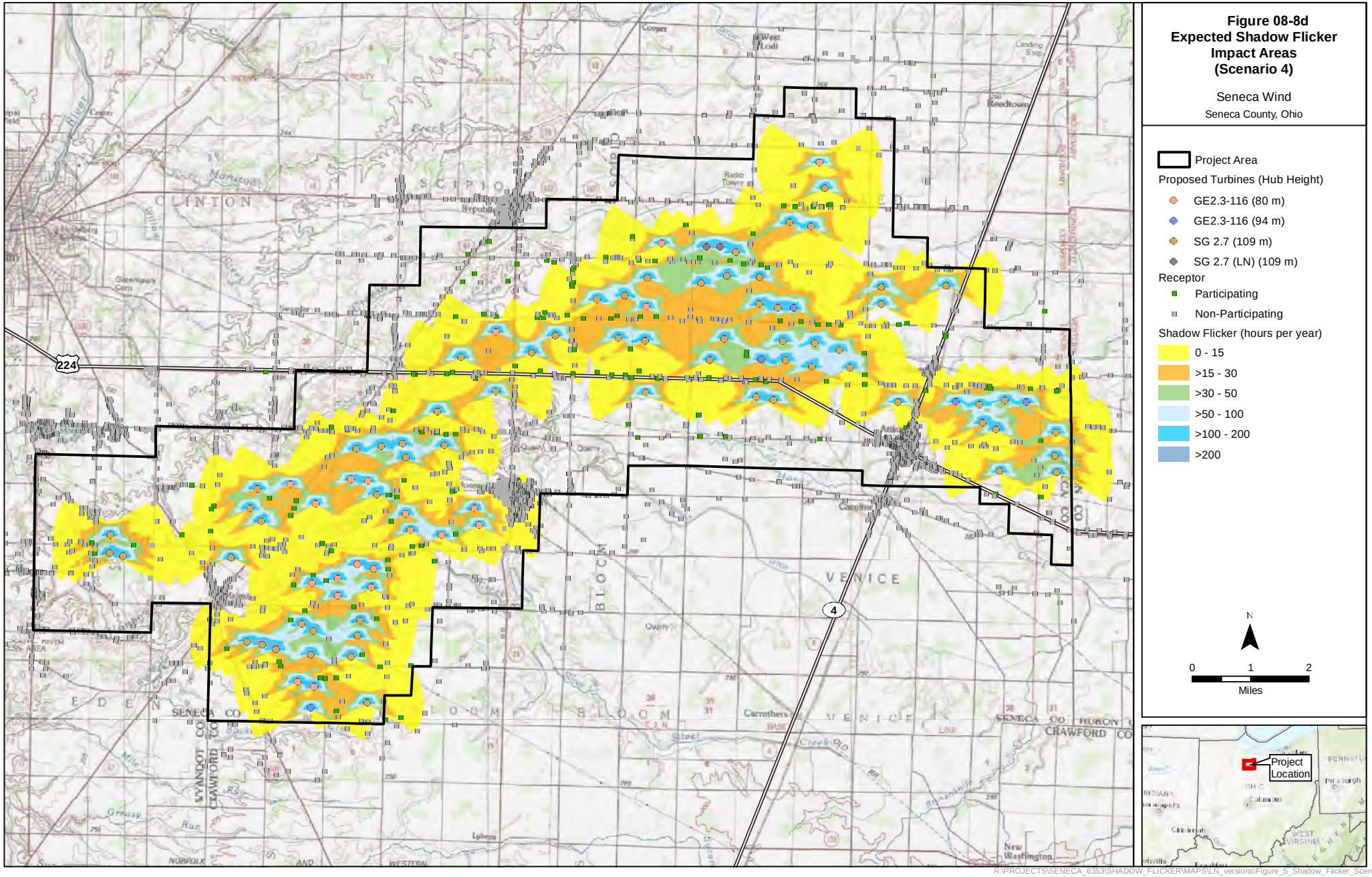

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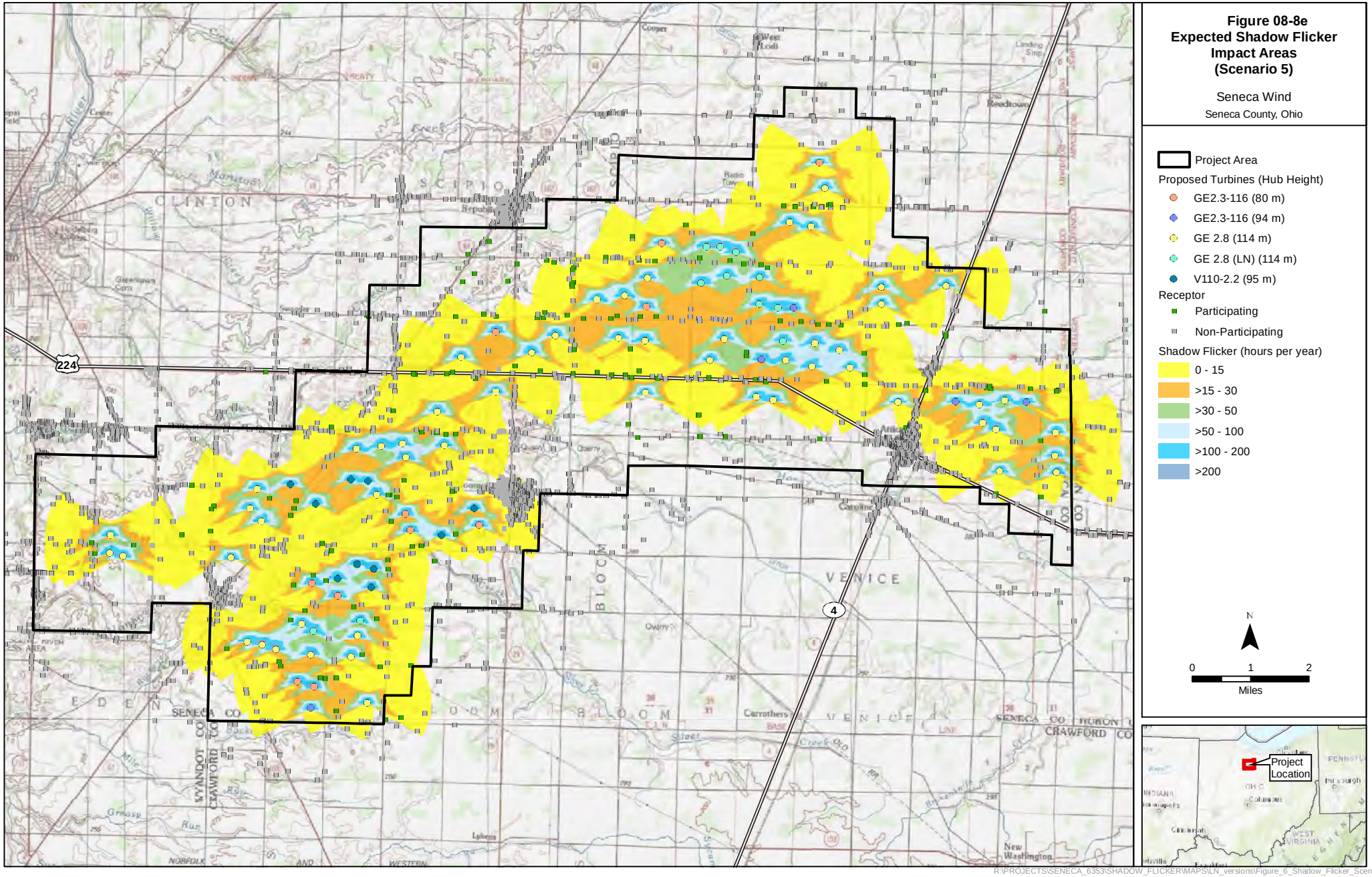
Figure 08-8e
Expected Shadow Flicker Impact Areas (Scenario 5)
Seneca Wind
Seneca County, Ohio
Project Area
Proposed Turbines (Hub Height)
GE2.3-116 (80 m)
GE2.3-116 (94 m)
GE 2.8 (114 m)
GE 2.8 (LN) (114 m)
V110-2.2 (95 m)
Receptor
Participating
Non-Participating
Shadow Flicker (hours per year)
0 - 15
>15 - 30
>30 - 50
>50 - 100
>100 - 200
>200
N
0
1
2
Miles
Project Location
SCIPIO
CLINTON
BLOOM
VENICE
EDEN
224
4
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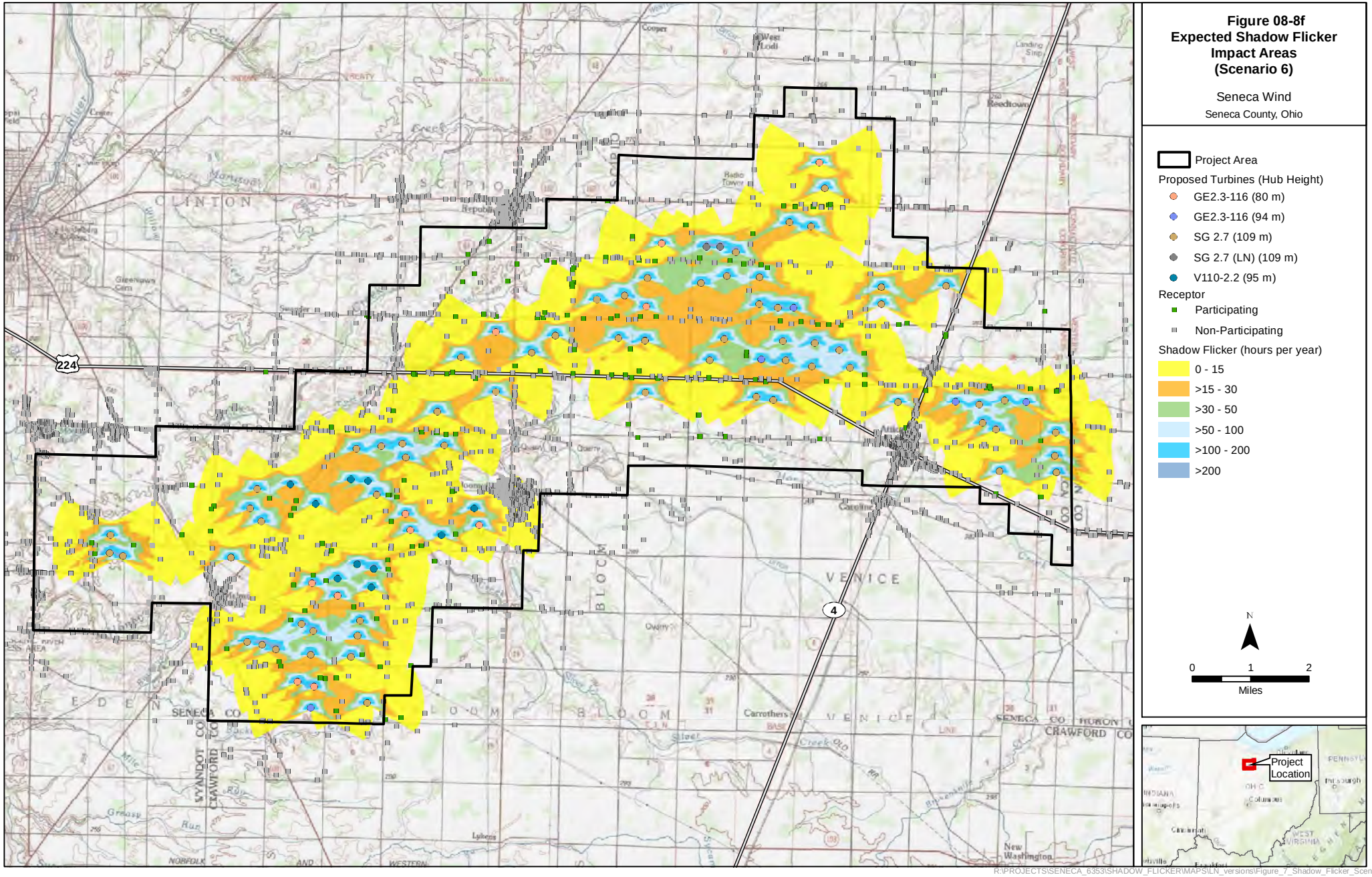
Figure 08-8f
Expected Shadow Flicker Impact Areas (Scenario 6)
Seneca Wind
Seneca County, Ohio
Project Area
Proposed Turbines (Hub Height)
GE2.3-116 (80 m)
GE2.3-116 (94 m)
SG 2.7 (109 m)
SG 2.7 (LN) (109 m)
V110-2.2 (95 m)
Receptor
Participating
Non-Participating
Shadow Flicker (hours per year)
0 - 15
>15 - 30
>30 - 50
>50 - 100
>100 - 200
>200
N
0
1
2
Miles
Project Location
SCIPIO
CLINTON
VENICE
BLOOM
EDEN
SENECA CO
CRAWFORD CO
WYANDOT CO
HURON CO
224
4
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Summary: Correspondence of Seneca Wind, LLC Submitting Notice of Project Modifications and Information Update - Part 1 of 2 electronically filed by Teresa Orahood on behalf of Dylan F. Borchers