

September 13, 2021

Ms. Tanowa Troupe, Secretary  
Ohio Power Siting Board  
Docketing Division  
180 East Broad Street, 11<sup>th</sup> Floor  
Columbus, Ohio 43215-3797

**Re: Case No. 21-4-EL-BGN**

In the Matter of the Application of Tymochtee Solar, LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Wyandot County, Ohio

**Third Supplement to Application – Facility Layout – Updated Figure 3-2**

Dear Ms. Troupe:

On April 29, 2021, as supplemented on June 24 and July 6, 2021, Tymochtee Solar, LLC (“Applicant”) filed an application with the Ohio Power Siting Board for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Wyandot County, Ohio (“Application”).

Attached please find, as a third supplement to the Application, a memorandum from EDR regarding some minor adjustments to the facility layout.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ Christine M.T. Pirik

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Enclosure

*Attorneys for Tymochtee Solar, LLC*

## CERTIFICATE OF SERVICE

The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 13<sup>th</sup> day of September, 2021.

/s/ Christine M.T. Pirik

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4829-7128-4218 v1 [59714-27]



## Memorandum

**in To:** Carmen O'Keefe  
Senior Development Manager,  
Apex Clean Energy

**From:** Ray Strom  
Senior Project Manager,  
EDR

**Date:** September 10, 2021

**Reference:** Inverter Adjustment and Panel Removal

As part of its ongoing effort to engage with the local community, Tymochtee Solar held an open house community meeting on August 4, 2021. At that meeting, Tymochtee Solar provided information to the attending public about its planned solar facility and sought feedback and input from attendees. During the meeting, a concern was raised about potential noise related to an inverter near the facility fenceline.

Tymochtee Solar has since reviewed this issue and has been able to make some minor adjustments to its planned facility layout. These adjustments were designed to resolve the potential noise concern while posing no additional adverse environmental impacts. The planned locations of two inverters have been shifted to increase their distance from the facility fenceline. These shifts also necessitated the removal of some planned panel areas for the placement of the inverters. Attached are two sets of Figure 3-2 that reflect these facility layout revisions. The first set of Figure 3-2 titled "Facility Overview with Highlighted Adjustments" shows the locations of these facility layout revisions on sheet 3. The second set of Figure 3-2 titled "Facility Overview" is a clean version of the Figure 3-2 and it supersedes and replaces Figure 3-2 that was filed with the Application on April 29, 2021.

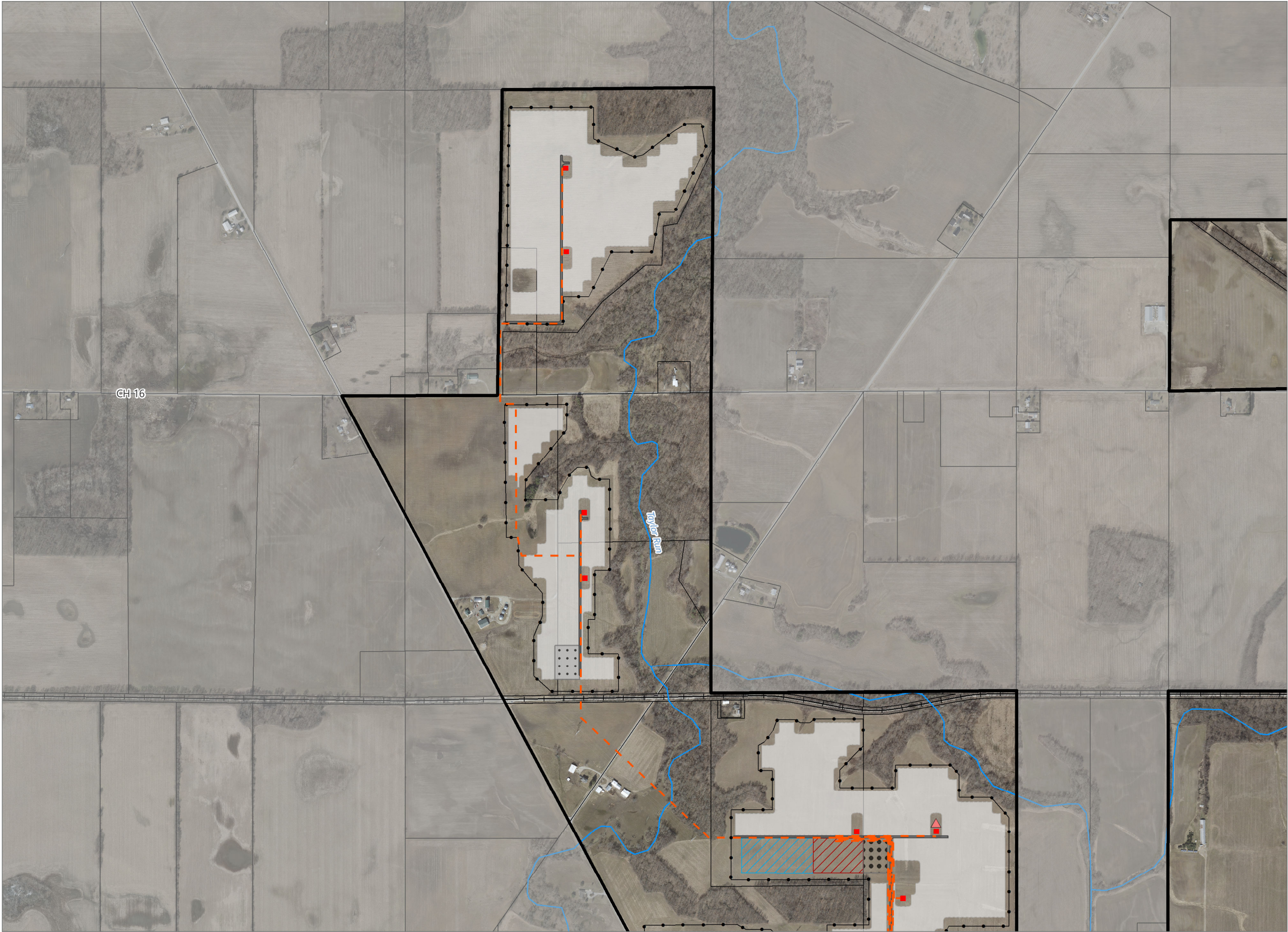
RSG modeled the anticipated facility noise levels based on the adjusted inverter locations, and presented its findings in a separate memorandum, provided in this filing as Attachment A. RSG found that the relocations of the inverters further from adjacent sensitive receptors resulted in

reductions of both daytime and nighttime sound levels for two non-participating residences. Measurable sound levels differences were not found for any other sensitive receptors.

These shifts of facility infrastructure involve areas that have previously been studied and pose no additional adverse environmental impacts. Any differences resulting from this revision on the impacts presented in Tables 08-1 through 08-14 that were filed with the Application on April 29, 2021 would be negligible.

Additionally, to address feedback from Ohio's State Historic Preservation Office, panel arrays were removed at two locations, which are shown on sheets 2 and 3 of the attached Figure 3-2 Facility Overview with Highlighted Adjustments map. These adjustments are also included on the attached Facility Overview clean version of the updated Figure 03-2 map.

Figure 03-2. Facility Overview with Highlighted Adjustments



Tymochtee Solar

Townships of Sycamore and  
Tymochtee, Wyandot County, Ohio

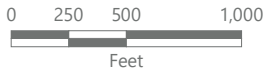
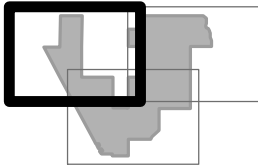
Certificate Application

Existing Features

- Active Railline
- Streams and Rivers
- Parcel

Facility Components

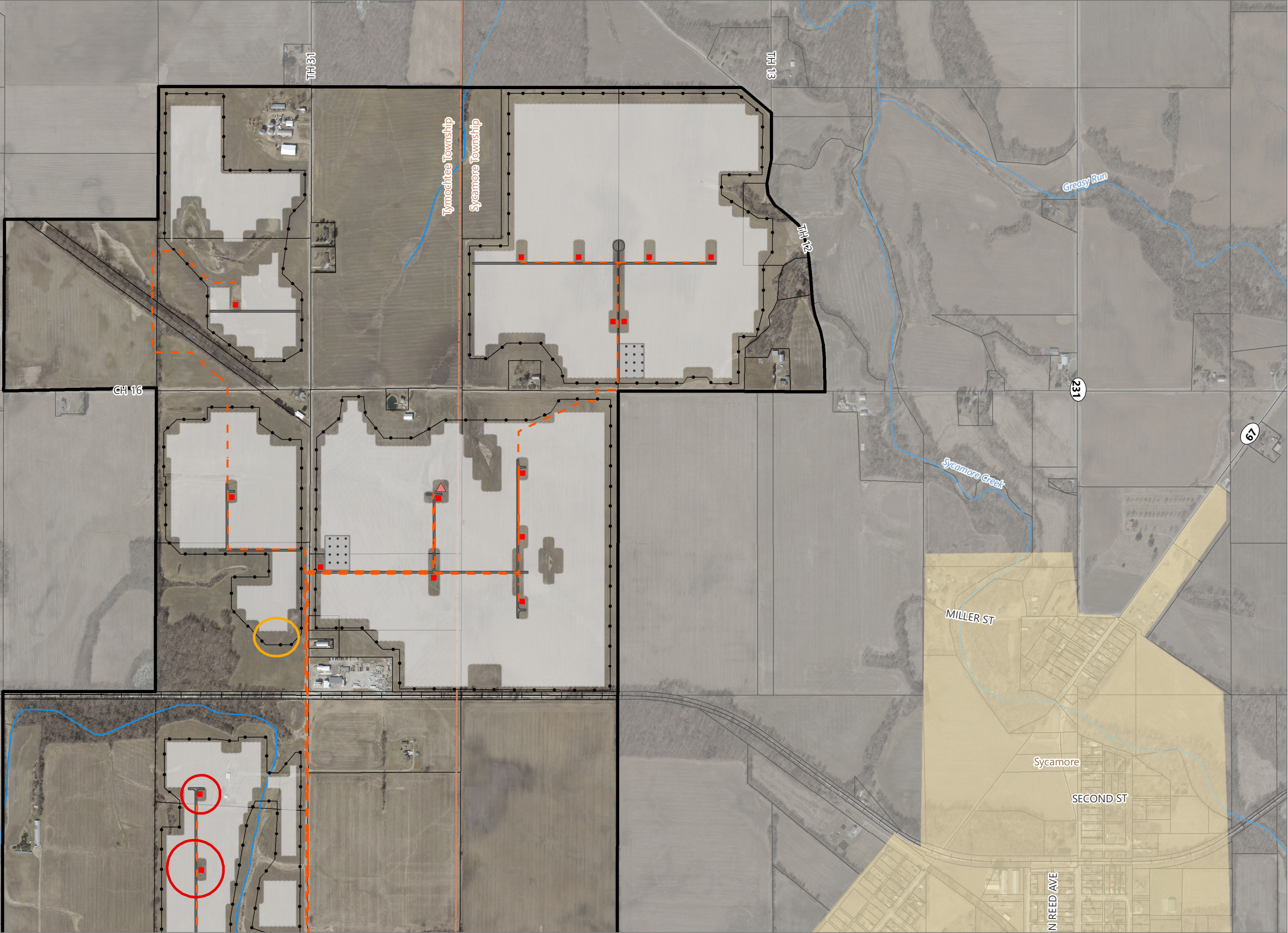
- Met Tower
- Inverter
- Fenceline
- Access Road
- Collection Line
- Permanent Laydown Yard
- Temporary Laydown Yard
- PV Panel Area
- Collector Substation
- POI Substation
- Project Area



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Prepared September 10, 2021  
Basemap: OSIP 2019 orthoimagery map service.

Figure 03-2. Facility Overview with Highlighted Adjustments



Tymochee Solar

Townships of Sycamore and  
Tymochee, Wyandot County, Ohio

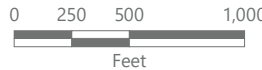
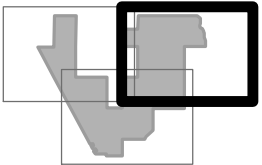
Certificate Application

Existing Features

- Active Ralline
- Streams and Rivers
- Parcel
- Municipal Boundaries

Facility Components

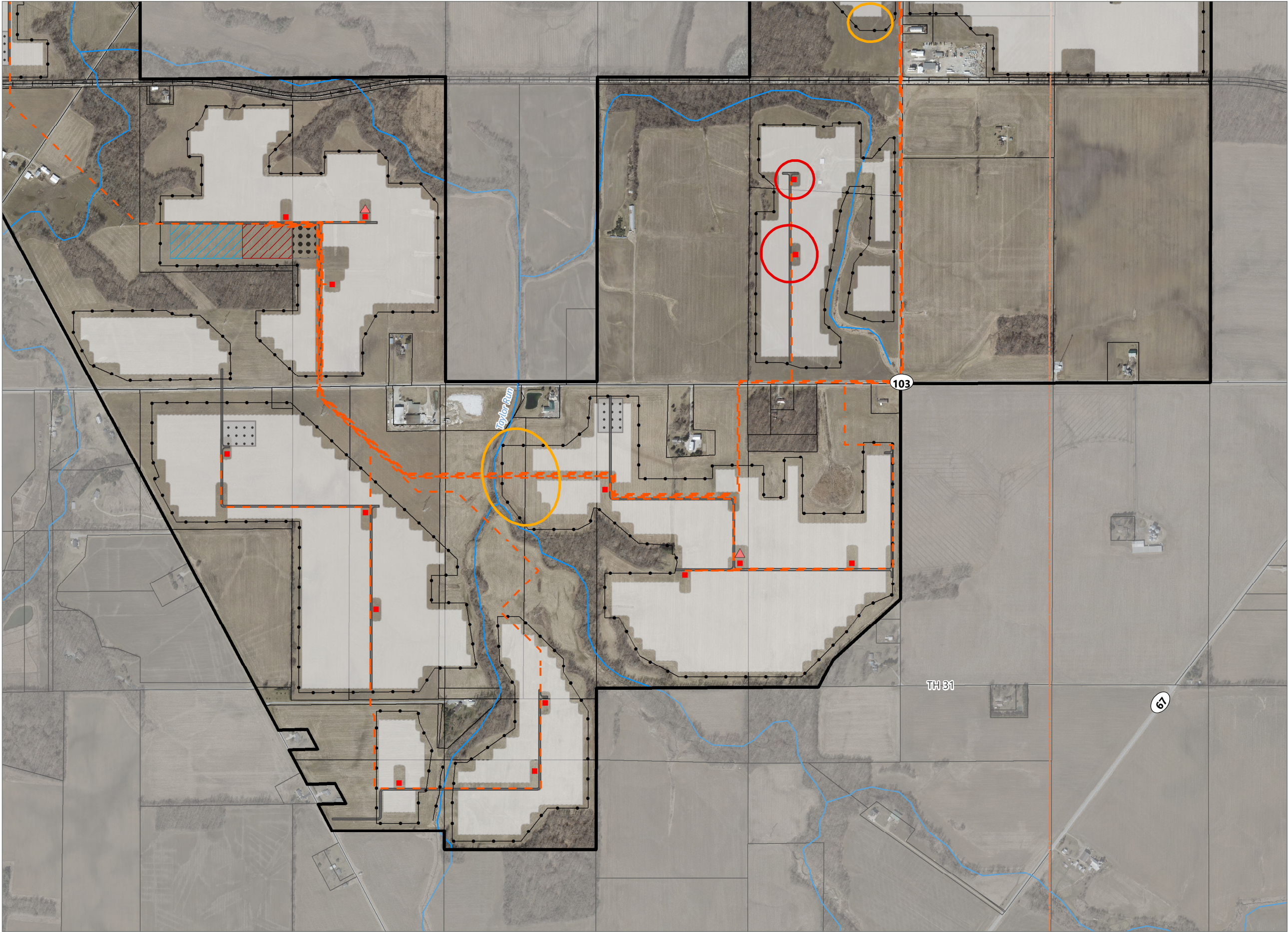
- Met Tower
- Inverter
- Fenceline
- Access Road
- Collection Line
- Temporary Laydown Yard
- PV Panel Area
- Project Area
- Inverter Adjustment
- PV Panel Area Removed



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Prepared September 10, 2021  
Basemap: OSIP 2019 orthoimagery map service.

Figure 03-2. Facility Overview with Highlighted Adjustments



**Tymochtee Solar**

Townships of Sycamore and  
Tymochtee, Wyandot County, Ohio

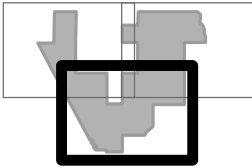
**Certificate Application**

**Existing Features**

- Active Ralline
- Streams and Rivers
- Parcel

**Facility Components**

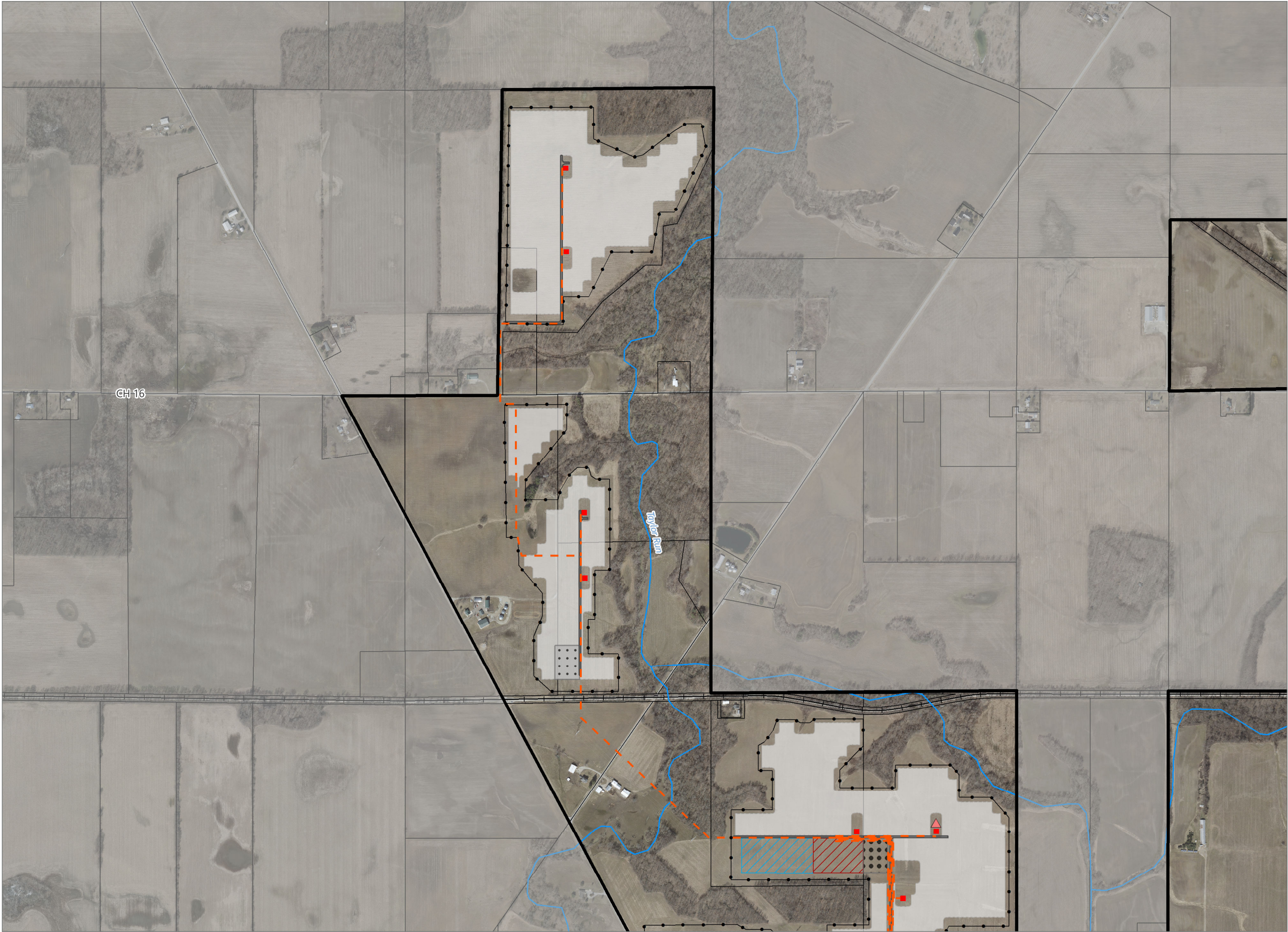
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- Temporary Laydown Yard
- PV Panel Area
- Collector Substation
- POI Substation
- Project Area
- Inverter Adjustment
- PV Panel Area Removed



0 250 500 1,000  
Feet

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Prepared September 10, 2021  
Basemap: OSIP 2019 orthoimagery map service.



Tymochtee Solar

Townships of Sycamore and  
Tymochtee, Wyandot County, Ohio

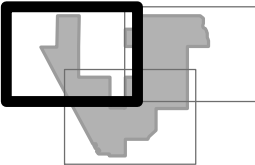
Certificate Application

Existing Features

- Active Railline
- Streams and Rivers
- Parcel

Facility Components

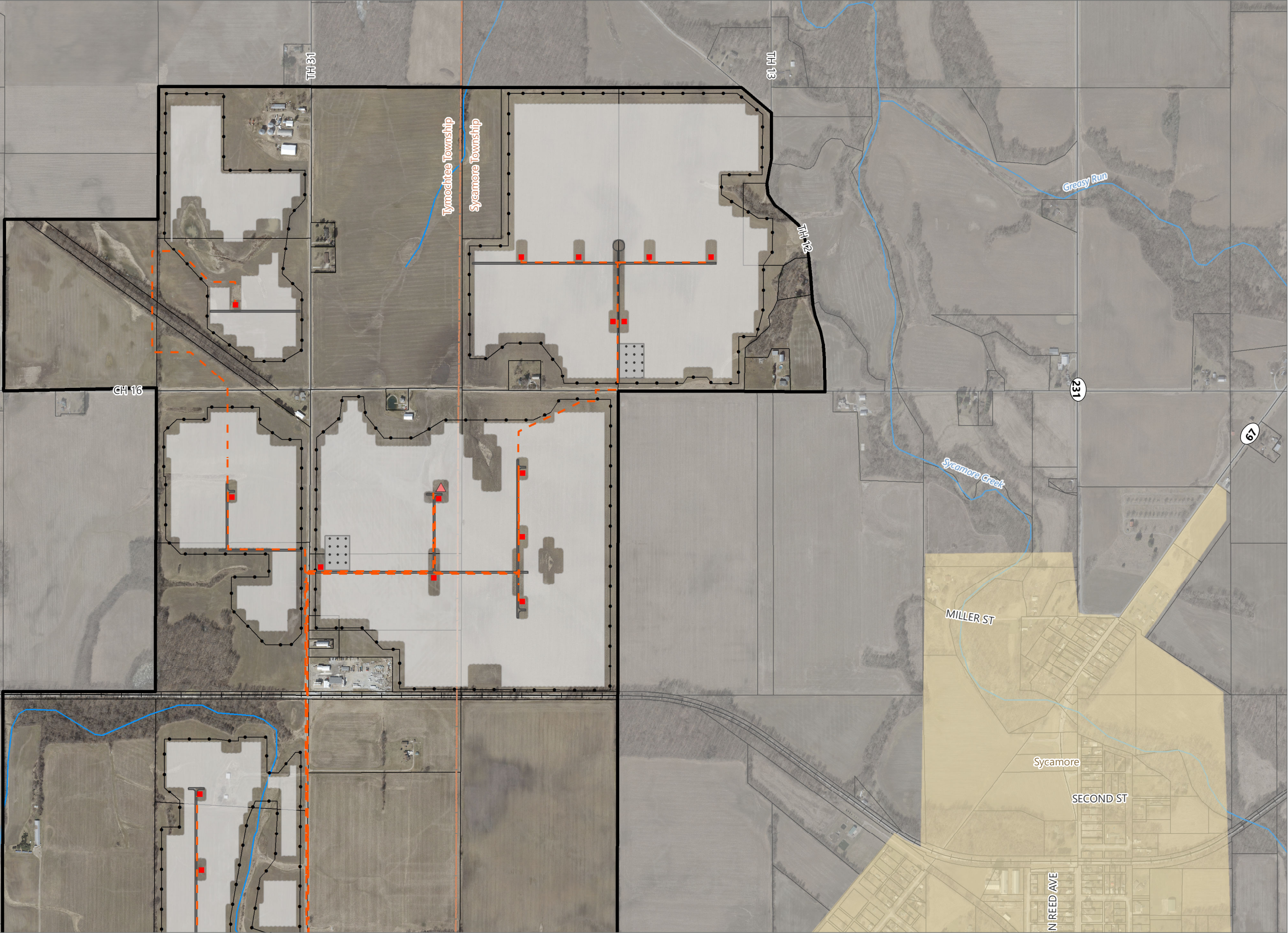
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0 250 500 1,000  
Feet

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Prepared September 10, 2021  
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Tymochtee Solar

Townships of Sycamore and  
Tymochtee, Wyandot County, Ohio

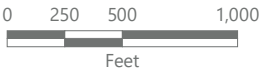
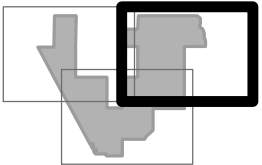
Certificate Application

Existing Features

- Active Ralline
- Streams and Rivers
- Parcel
- Municipal Boundaries

Facility Components

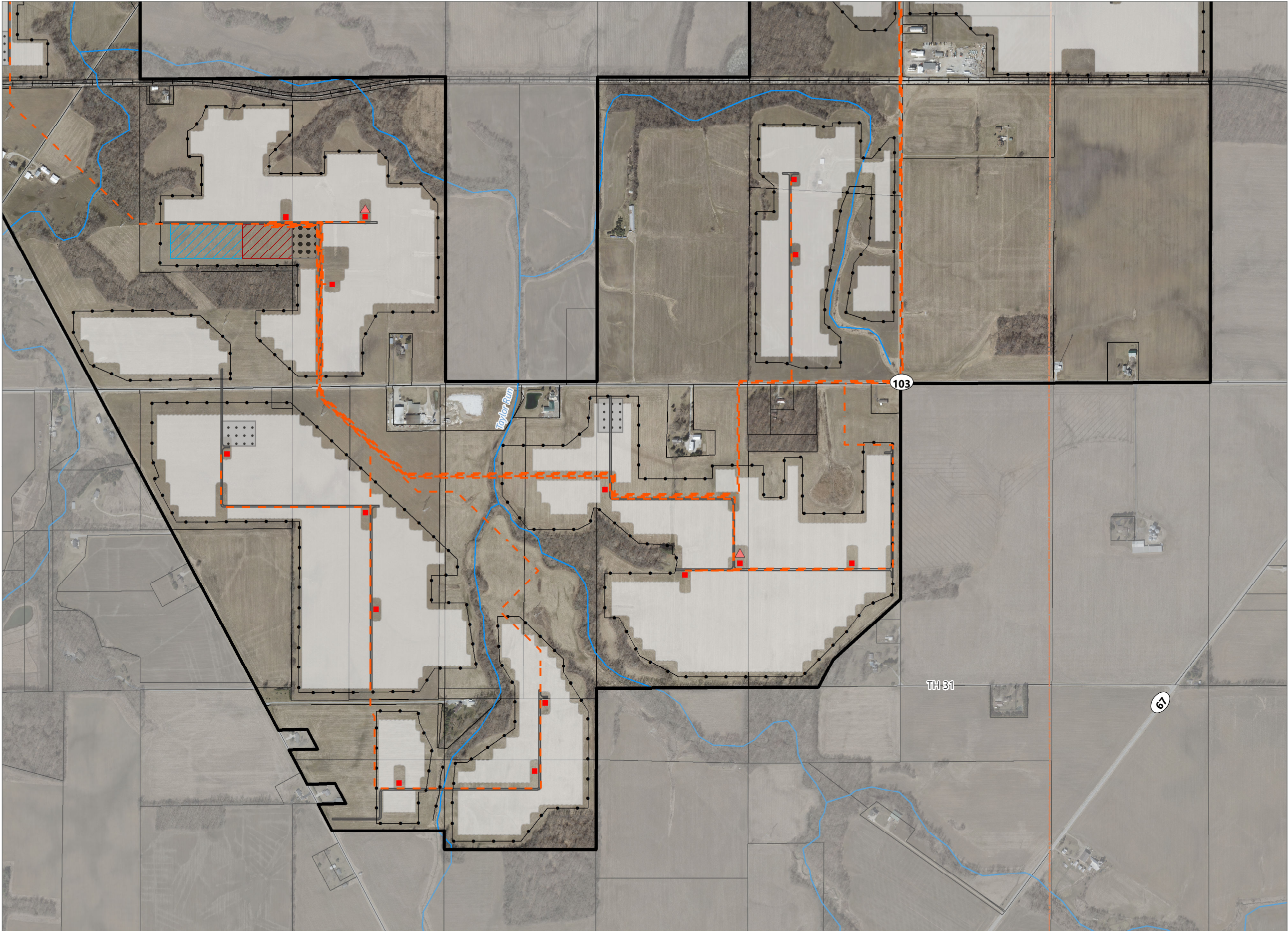
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Prepared September 10, 2021  
Basemap: OSIP 2019 orthoimagery map service.

Figure 03-2. Facility Overview



Tymochee Solar

Townships of Sycamore and  
Tymochee, Wyandot County, Ohio

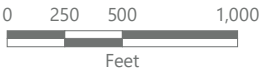
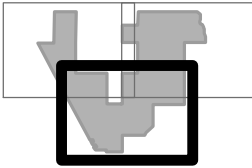
Certificate Application

Existing Features

- Active Ralline
- Streams and Rivers
- Parcel

Facility Components

- Met Tower
- Inverter
- Fenceline
- Access Road
- Collection Line
- Permanent Laydown Yard
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Prepared September 10, 2021  
Basemap: OSIP 2019 orthoimagery map service.

# **Attachment A**

## **RSG Sound Analysis Memorandum**

# MEMO

**TO:** Chris Cunningham, EDR

**FROM:** Dana Lodico, P.E., INCE Bd. Cert.

**DATE:** September 10, 2021

**SUBJECT:** Tymochtee Solar Layout Shifts

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Tymochtee Solar (the Project) is proposed to be located in the northeastern part of Wyandot County, Ohio. A previous noise assessment was published for the Project by RSG, (*Tymochtee Solar Noise Assessment, dated April; 7, 2021*). The 120 MW Project will include a solar power generation array with 33 inverter skids and a main high-voltage transformer at the Project collector substation. Each inverter skid includes an inverter and medium voltage transformer. A tracker will be used on each row of solar panels. There are anticipated to be approximately 3,364 trackers. The design thresholds for the Project are 46 dBA during the daytime and 42 dBA at night.

Since the April 2021 Noise Assessment was published, the Project has relocated two of the inverter locations to be further from adjacent sensitive receptors. This memo describes the changes in modeled sound levels between the current and previously modeled Project layout.<sup>1</sup>

## Sound Propagation Modeling

The current layout includes the same number of inverter skids (33) that were previously analyzed. The location and equipment specifications of the substation transformer and trackers have not changed from the April 2021 layout. Modeled locations for the shifted inverter skids are given in Table 1.

**TABLE 1: MODELED SOUND SOURCE LOCATIONS - PREVIOUS AND CURRENT**

Source ID	Previous			Current		
	X (m)	Y (m)	Elevation + Modeled Height (m)	X (m)	Y (m)	Elevation + Modeled Height (m)
Inv08	315044	4535546	250	315045	4536025	250
Inv26	315016	4535819	251	315045	4535826	251

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<sup>1</sup> For an acoustics primer and/or more details concerning the Project description, sound level limits applicable to the Project, background sound level monitoring procedures and results, sound propagation modeling procedures and results for the previous layout, receptor locations, and construction sound modeling, please see the April 2021 Noise Assessment.

Following the procedures outlined in the April 2021 report, 611 discrete receivers were modeled at receptors surrounding the Project Area at a height of 4 meters (13 feet) above ground level and a grid of receivers spaced 20 meters by 20 meters was modeled at a height of 4 meters above ground covering approximately 59 sq. km. (23 sq. mi.) around the Project Area. Two model configurations are used in this assessment: daytime and nighttime. The equipment modeled for each configuration is shown in Table 2.

**TABLE 2: EQUIPMENT OPERATION FOR EACH MODEL CONFIGURATION**

Equipment	Model Configuration	
	Daytime	Nighttime
Substation Trans. (ONAN)	-	X
Substation Trans. (ONAF)	X	-
Tracker	X	-
Array Inverter	X	X
Array Medium Voltage Transformer	X	X

Project-only sound levels with the shifted inverter skid locations do not change from the April 2021 modeled levels at the vast majority of receivers. Detailed results for the discrete receivers that are measurably affected by the layout shift (change is 1 dB or greater), including relative sound level increases and decreases, are given in Table 3.

**TABLE 3: DISCRETE RECEIVER RESULTS FOR CURRENT AND PREVIOUS LAYOUT**

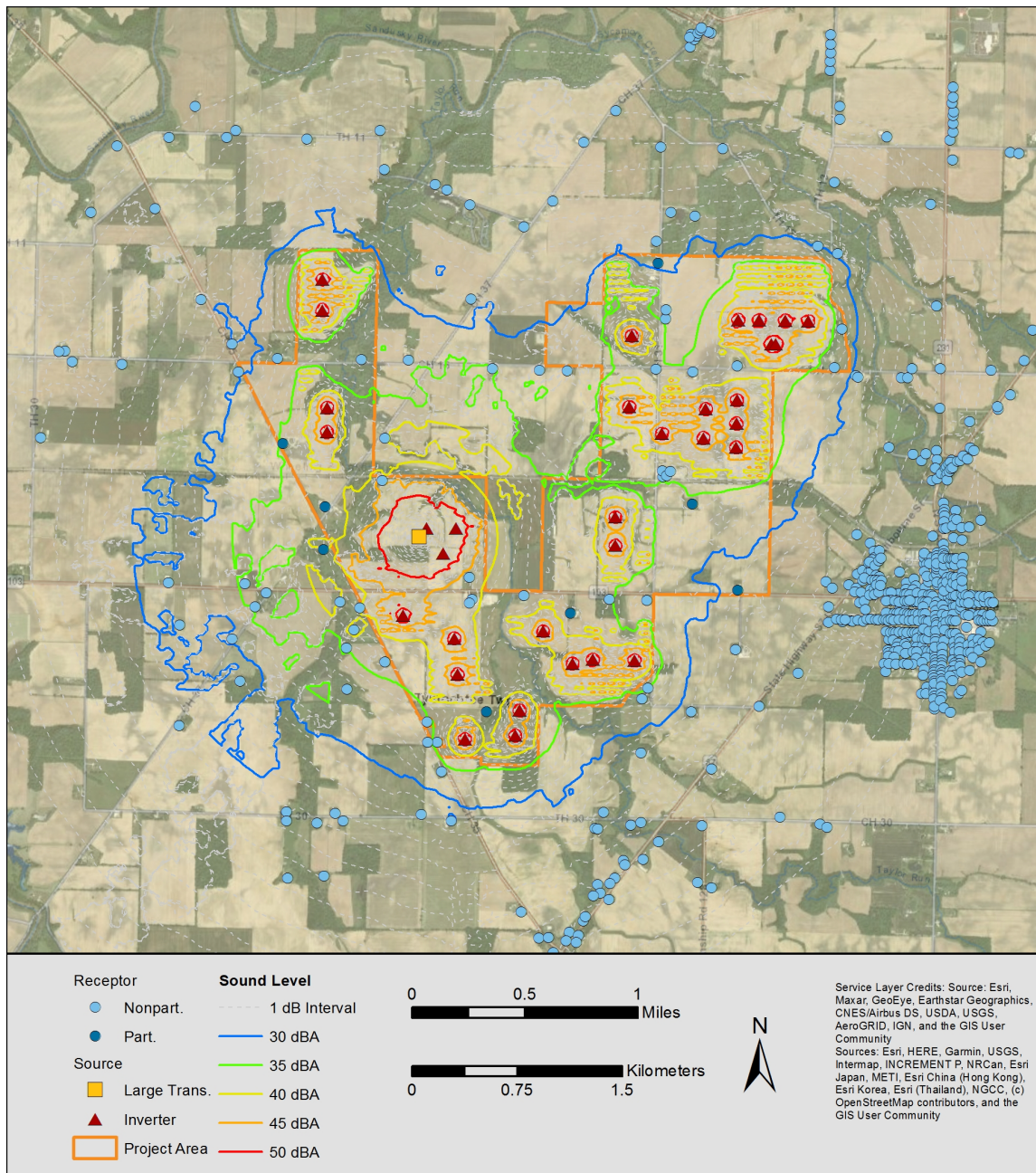
Receiver ID	Status	Daytime Sound Pressure Level (dBA)			Nighttime Sound Pressure Level (dBA)		
		Current	Previous	Difference (Current - Previous)	Current	Previous	Difference (Current - Previous)
56	Nonpart.Res.	33	35	-2	30	33	-3
57	Nonpart.Res.	36	41	-5	32	40	-8

A summary of the sound propagation model results for the current layout is provided in Table 4. As shown in Table 4, all participating and nonparticipating residences are modeled in the daytime at or below at 45 dBA which is less than the daytime Project design threshold of 46 dBA. At night, the highest modeled sound level at any residence is 38 dBA, which is lower than the nighttime design threshold of 42 dBA.

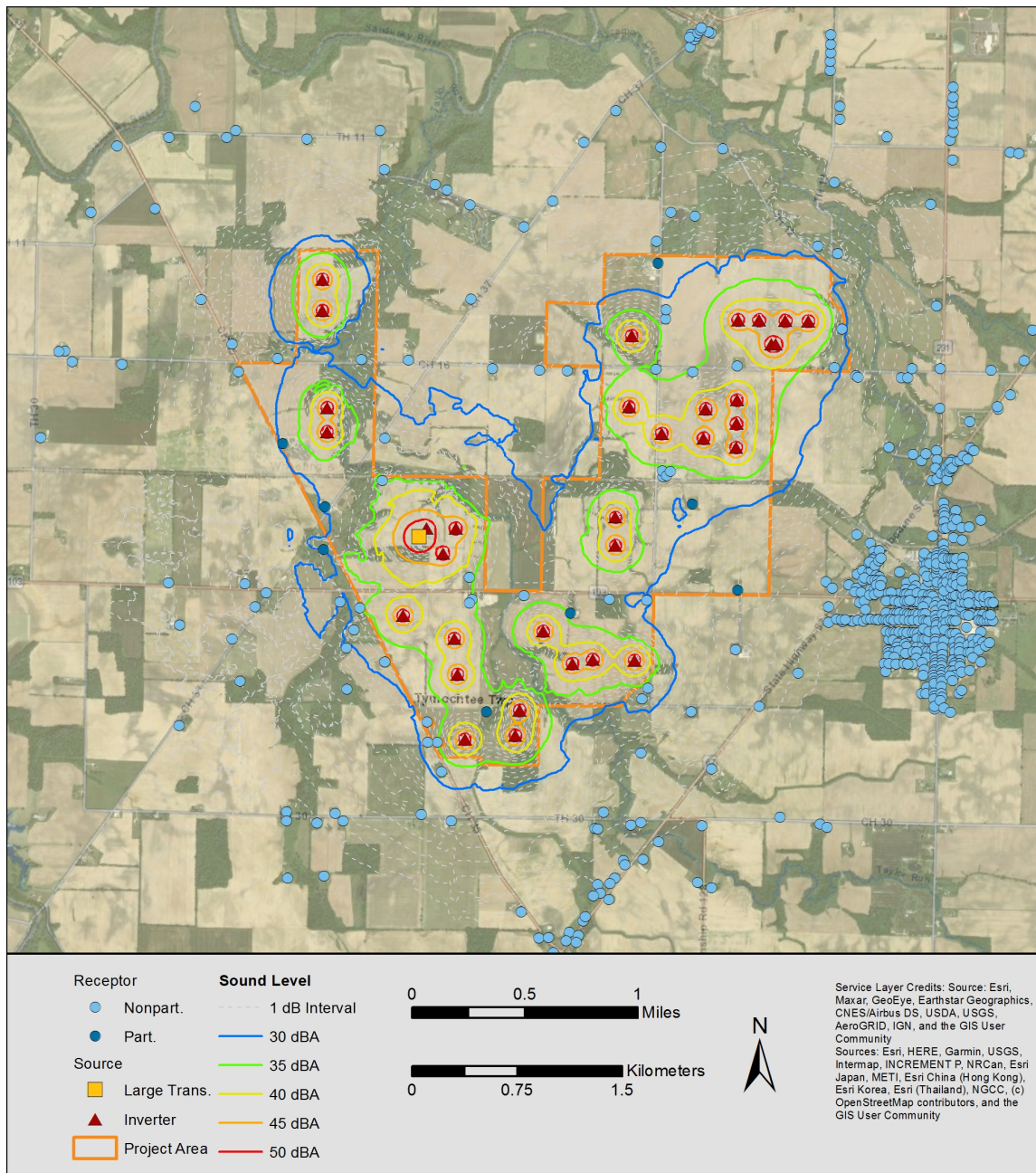
**TABLE 4: SUMMARY OF MODELED SOUND PRESSURE LEVELS, CURRENT LAYOUT**

Receptor Type	Modeled Daytime Sound Level (dBA)			Modeled Nighttime Sound Level (dBA)		
	Min.	Avg.	Max.	Min.	Avg.	Max.
Nonpart. Res.	16	23	45	13	19	38
Part. Res.	28	36	42	25	31	37

Sound contour maps for the current layout are provided in Figures 1 and 2 during the daytime and nighttime periods, respectively.



**FIGURE 1: SOUND MODELING RESULTS FOR CURRENT LAYOUT, DAYTIME**



**FIGURE 2: SOUND MODELING RESULTS FOR CURRENT LAYOUT, NIGHTTIME**

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**Commission of Ohio Docketing Information System on**

**9/13/2021 2:03:38 PM**

**in**

**Case No(s). 21-0004-EL-BGN**

Summary: Application - Third Supplement to Application – Facility Layout – Updated Figure 3-2 electronically filed by Christine M.T. Pirik on behalf of Tymochtee Solar, LLC