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Founded 1909

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December 3, 2020

Ms. Tanowa Troupe  
Ohio Power Siting Board, Docketing Division  
The Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus, OH 43215-3793

Re: 20-1741-EL-BNR  
Angelina Solar I, LLC Transmission Interconnect

Dear Ms. Troupe:

In accordance with Ohio Administrative Code (“OAC”) Rule 4906-2-04(A)(3) and OAC Chapter 4906-6, Angelina Solar I, LLC is submitting hard copies of a Construction Notice Application for the Angelina Solar I, LLC Transmission Interconnect. The original application was electronically filed.

In accordance with Rule 4906-2-04 of the OAC, I would like to make the following declarations:

Name of the applicant:

Angelina Solar I, LLC  
1105 Navasota Street  
Austin, TX 78702

Name and location of the proposed facility:

Angelina Solar I, LLC Transmission Interconnect  
Israel Township  
Preble County, Ohio

Ms. Tanowa Troupe  
Page 2

Name of the authorized representative:

Michael J. Settineri  
Vorys, Sater, Seymour and Pease LLP  
52 East Gay Street  
Columbus, Ohio 43215  
614-464-5462  
[mjsettineri@vorys.com](mailto:mjsettineri@vorys.com)

Notarized Statement:

See attached Affidavit of Cyrus Tashakkori,  
Officer of Angelina Solar I, LLC

None of the information contained in the preapplication notification letter has been revised. Angelina Solar I, LLC still requests expedited processing of the application. Contemporaneously with this submittal, Angelina Solar I, LLC is serving a copy of the application on the Board's Executive Director and is submitting the fee for the expedited processing in the amount of \$2,000 as required by OAC 4906-6-04(A)(2).

Very truly yours,

/s/ Michael J. Settineri

Michael J. Settineri  
Attorney for Angelina Solar I, LLC

Enclosure

cc: Theresa White, Executive Director

**BEFORE  
THE OHIO POWER SITING BOARD**

<b>In the Matter of the Construction</b>	)	
<b>Notice Application for the</b>	)	
<b>Angelina Solar I, LLC</b>	)	<b>Case No. 20-1741-EL-BNR</b>
<b>Transmission Interconnect</b>	)	

**OFFICER'S AFFIDAVIT**

STATE OF TEXAS            )  
COUNTY OF TRAVIS       ) SS:

Now comes Cyrus Tashakkori, President of Angelina Solar I, LLC and an officer of Angelina Solar I, LLC, having been first duly sworn, declares and states as follows:

1. I am the highest ranking executive officer in charge of the Angelina Solar I, LLC Transmission Interconnect to be located in Israel Township in Preble County, Ohio.
2. I have reviewed the Construction Notice Application for the Angelina Solar I, LLC Transmission Interconnect in Case No. 20-1741-EL-BNR.
3. To the best of my knowledge, the information and statements contained in the Construction Notice Application are true and correct.
4. To the best of my knowledge, the Construction Notice Application is complete.

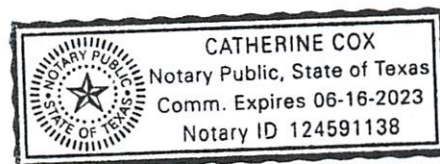
Signature: \_\_\_\_\_

Cyrus Tashakkori  
President  
Angelina Solar I, LLC

Sworn to before me and signed in my presence this 30 day of November, 2020.

Catherine Cox  
Notary Public

My Commission Expires 6-16-2023



**CONSTRUCTION NOTICE AND REQUEST  
FOR 21-DAY EXPEDITED REVIEW  
Angelina Solar I, LLC's 138 kV Transmission Line Project**

**Ohio Power Siting Board  
Case No. 20-1741-EL-BNR**

**December 3, 2020**

**Prepared by:**

Angelina Solar I, LLC  
1105 Navasota Street  
Austin, Texas 78702  
Contact: Doug Herling  
Tel: 512.524.1195



**Construction Notice**  
**Angelina Solar I, LLC's 138 kV Transmission Line Project**

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**Attachments**

Attachment A – Project Location

Attachment B – Area Map

Attachment C – Archeological Investigation Correspondence

Attachment D – Ecological Assessment

## **CONSTRUCTION NOTICE**

### **Angelina Solar I, LLC's 138 kV Transmission Line Project**

Angelina Solar I, LLC (“Angelina Solar”) submits the following information to the Ohio Power Siting Board (“OPSB”) for a Construction Notice (“CN”) pursuant to Section 4906-6-05 of the Ohio Administrative Code (“OAC”). Please note that Angelina Solar is requesting a 21-day expedited review of this application to support project development.

#### **4906-6-05(B)(1): Project Name and Description**

*The name of the Project and applicant's reference number, names and reference number(s) of resulting circuits, a brief description of the Project, and why the Project meets the requirements for a letter of notification or construction notice application.*

Angelina Solar is proposing the Angelina Solar 138 kV Transmission Line Project (the “Project”) in Preble County, Ohio. The Project has been assigned OPSB Case No. 20-1741-EL-BNR. The Project will transmit power generated by the Angelina Solar Project (assigned Case No. 18-1579-EL-BGN) into the existing American Electric Power (“AEP”) 138 kV College Corner Substation (“Utility Substation”) located immediately adjacent to the Ohio border in Union County, Indiana.

Angelina Solar is developing the Angelina Solar Project on the border between Preble County, Ohio and Union County, Indiana. Although all of the solar generation equipment will be located in Ohio, an approximately 700-foot-long, overhead 138kV transmission line (“Gen-tie”) will connect the Angelina Solar Project’s substation to the Utility Substation. This CN is submitted for the approximately 100-foot-long portion of the Gen-tie to be located in Ohio.<sup>1</sup>

The Project is located on the east side of the centerline of State Line Road, which straddles the state border. It is adjacent and immediately to the east of the parcel in Indiana owned by AEP and on which sits the Utility Substation. The general coordinates for the Project are latitude 39.640670° and longitude -84.814520°.

The Project area is approximately 100 feet by 100 feet, or 0.23 acres, in size. The permanent

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<sup>1</sup> The Indiana Utility Regulatory Commission (“IURC”) has approved a petition submitted by Angelina Solar requesting that the IURC partly decline to exercise jurisdiction over Angelina Solar with respect to the approximately 600-foot-long portion of the Gen-tie in Indiana. The full IURC docket for this proceeding can be found at: <https://iurc.portal.in.gov/docketed-case-details/?id=d9fe59c4-a4d8-e911-a987-001dd8009f4b>.

impact in Ohio will be limited to the ground surface needed to accommodate a dead-end structure. The permanent impact will be less than 0.1 acres.

The Project meets the requirements for a CN because it is among the types of project defined by Item 1 of Appendix A (Application Requirement Matrix for Electric Power Transmission Lines) of OAC Rule 4906-1-01, which states:

*(1) New construction, extension, or relocation of single or multiple circuit electric power transmission line(s), or upgrading existing transmission or distribution line(s) for operation at a higher transmission voltage, as follows:*

*(a) Line(s) not greater than 0.2 miles in length.*

The Project falls under Item 1(a) because the portion of the Gen-tie to be constructed in Ohio (as well as the entire Gen-tie) is a single circuit (three-phase) electric power transmission line not greater than 0.2 miles in length.

#### **4906-6-05(B)(2): Need for the Project**

*If the proposed project is an electric power transmission line or gas pipeline, the applicant shall provide a statement explaining the need for the proposed facility.*

Angelina Solar is seeking a Certificate of Environmental Compatibility and Public Need (“CECPN”) from the OPSB for the Angelina Solar Project (assigned Case No. 18-1579-EL-BGN). This Project is needed to interconnect the Angelina Solar Project to the regional transmission system for distribution of clean, renewable generated electricity.

#### **4906-6-05(B)(3): Project Location**

*Provide the location of the Project in relation to existing or proposed lines and substations shown on an area system map of sufficient scale and size to show existing and proposed transmission facilities in the Project area.*

The Project is shown on the Project Location Map in **Attachment A**, which shows the location of the Project in Israel Township, Preble County, Ohio, the existing College Corner Substation in Union County, Indiana, and the proposed transmission lines in the Project area.

#### **4906-6-05(B)(4): Alternatives Considered**

*Describe the alternatives considered and reasons why the proposed location or route is best suited for the proposed facility. The discussion shall include, but not be limited to, impacts associated with socioeconomic, ecological, construction, or engineering aspects of the Project.*

The Project is sited to provide the most direct path to the Utility Substation. Minimizing the length of the Gen-tie will allow for minimal disturbance to the environment, simplify engineering and facilitate construction. By locating the Project adjacent to an existing substation that already serves several large transmission lines, additional impacts to adjacent landowners from the Project will be minimal. There will be no significant socioeconomic impacts from the Project. Ecological impacts from the Project will be extremely small.

#### **4906-6-05(B)(5): Public Information Program**

*Describe the public information program to inform affected property owners and tenants of the nature of the Project and the proposed timeframe for project construction and restoration activities.*

Angelina Solar has worked closely with the participating and non-participating landowners during the development of the Angelina Solar Project and this proposed transmission line project. Angelina Solar maintains a website ([www.angelinasolar.com](http://www.angelinasolar.com)) on which an electronic copy of the CN is available. A paper copy of the CN will be sent to the main public library in Preble County and copies will be served on local public officials as required by OAC 4906-6-07.

#### **4906-6-05(B)(6): Construction Schedule**

*Provide an anticipated construction schedule and proposed in-service date of the Project.*

Construction of the Project is anticipated to begin in the second half of 2021, with a proposed in-service date of December 31, 2022.

**4906-6-05(B)(7): Area Map**

*Provide a map of at least 1:24,000 scale clearly depicting the facility with clearly marked streets, roads, and highways, and an aerial image.*

The Project is depicted in the Area Map in **Attachment B**, which is 1:24,000 scale and includes area roads and an aerial image.

**4906-6-05(B)(8): Property Agreements**

*Provide a list of properties for which the applicant has obtained easements, options, and/or land use agreements necessary to construct and operate the facility and a list of the additional properties for which such agreements have not been obtained.*

Angelina Solar has obtained the only land use agreement necessary to construct and operate the Project, which is as follows:

Property owner	Parcel Number(s)	Description
David R. Giffen	E18610600000004000	Lease, Easement and Option Agreement

Angelina Solar does not need land use agreements from any additional properties.

**4906-6-05(B)(9): Technical Features**

*Describe the following information regarding the technical features of the project:*

**4906-6-05(B)(9)(a): Operating Characteristics**

*Provide the operating characteristics, estimated number and types of structures required, and right-of-way and/or land requirements.*

The Project is an approximately 100-foot-long span of an overhead 138kV transmission line, associated optic fiber lines, and a dead-end structure. The primary pieces of equipment that will comprise the Project are the following:

- One (1) 138kV (three-phase) above-ground transmission line
- Two (2) or more fiber optic cables to transmit data between the Angelina Solar Project's substation and the Utility Substation
- One (1) steel H-frame dead-end structure on a gravel pad

Angelina Solar has secured all the rights-of-way and land rights needed for the Project, except for a right-of-way authorization from Preble County to cross half of State Line Road.

**4906-6-05(B)(9)(b): Electric Magnetic Fields**

*For electric power transmission lines that are within one hundred feet of an occupied residence or institution, the production of electric and magnetic fields during the operation of the proposed electric power transmission line.*

No occupied residences or institutions are located within 100 feet of the Project. Therefore, no electric and magnetic field calculations or design alternatives are required for the Project.

**4906-6-05(B)(9)(c): Estimated Costs**

*The estimated capital cost of the project.*

A preliminary estimate of the capital cost of the Project is \$375,000.

**4906-6-05(B)(10): Social and Ecological impacts**

*Describe the social and ecological impacts of the project.*

**4906-6-05(B)(10)(a): Land Uses**

*Provide a brief, general description of land use within the vicinity of the proposed project, including a list of municipalities, townships, and counties affected.*

The Project is wholly located within Israel Township, Preble County, Ohio. The Project is located on the edge of an agricultural field and spans to the centerline of a public road. Land use in the wider vicinity of the Project primarily consists of a large electric substation, farm fields, farm buildings, a few residences and overhead transmission lines. There are no parks, schools, churches, cemeteries, wildlife management areas, nature preserves or public amenities

within one mile of the Project.

4906-6-05(B)(10)(b): Agricultural Land

*Provide the acreage and a general description of all agricultural land, and separately all agricultural district land, existing at least sixty days prior to submission of the application within the potential disturbance area of the project.*

The Project will occupy approximately 0.23 acres. A portion of this land is the edge of an existing agricultural field and a portion is a public road and associated right-of-way. The parcel on which the agricultural field is located is not part of an agricultural district.

4906-6-05(B)(10)(c): Archaeological or Cultural Resources

*Provide a description of the applicant's investigation concerning the presence or absence of significant archeological or cultural resources that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.*

An archaeological investigation, including an on-site survey that included the area where the dead end structure will be constructed, was completed in the summer of 2020, and no archeological artifacts were found in the area in which the dead end structure will be located. A copy of the report of the archeological investigation is included in **Attachment C**. The Project is not anticipated to cause any impacts to cultural or archaeological resources.

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**4906-6-05(B)(10)(d): Local, State, and Federal Requirements**

*Provide a list of the local, state, and federal governmental agencies known to have requirements that must be met in connection with the construction of the project, and a list of documents that have been or are being filed with those agencies in connection with siting and constructing the project.*

<b>Permit Description</b>	<b>Responsible Agency</b>	<b>Status</b>
<b>STATE</b>		
National Pollutant Discharge Elimination System Construction Storm Water General Permit	OEPA	To be submitted prior to start of construction
<b>COUNTY</b>		
Right of Way Permit	Preble County	To be submitted prior to construction in right-of way
<b>INTERCONNECTION</b>		
Interconnection Construction Service Agreement	PJM Interconnection, LLC, AEP and Angelina Solar I, LLC	Expected to be executed in 2021
Interconnection Service Agreement	PJM Interconnection, LLC, AEP, and Angelina Solar I, LLC	Expected to be executed in 2021

**4906-6-05(B)(10)(e): Endangered, Threatened, and Rare Species Investigation**

*Provide a description of the applicant's investigation concerning the presence or absence of federal and state designated species (including endangered species, threatened species, rare species, species proposed for listing, species under review for listing, and species of special interest) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.*

Angelina Solar conducted an Ecological Assessment in 2017 for the area that includes the Project



Area for this CN. Angelina Solar coordinated with the U.S. Fish and Wildlife Service (“USFWS”) and the Ohio Department of Natural Resources (“ONDR”) regarding special status species in the vicinity of the Project. The potential for listed species known to occur in the area were evaluated based on a review of desk-top resources. In addition, a field survey was performed in which all observed Endangered, Threatened, and Rare species or specific known special habitats were noted.

The Indiana bat (*Myotis sodalis*, federally endangered) and northern long-eared bat (*Myotis septentrionalis*, federally threatened) are protected under the Endangered Species Act, which is overseen by the USFWS. Low quality bat roost habitat was observed within the vicinity of the Project. Generally, the USFWS standard recommendation is that all tree clearing activities for this habitat occur between October 1 and March 31, which is during the hibernation period of these species. No trees will be removed for the Project.

A copy of the Ecological Assessment is included in **Attachment D**.

4906-6-05(B)(10)(f): Areas of Ecological Concern

*Provide a description of the applicant's investigation concerning the presence or absence of areas of ecological concern (including national and state forests and parks, floodplains, wetlands, designated or proposed wilderness areas, national and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, and wildlife sanctuaries) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.*

The Ecological Assessment included a field delineation of all wetlands for the Project Area for this Project. There are no wetlands in the 0.23-acre area to be used for the Project. The Ecological Assessment also shows that within the 0.23-acre area, there are no national and state forests and parks, floodplains, designated or proposed wilderness areas, national and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, or wildlife sanctuaries.

A copy of the Ecological Assessment is included in **Attachment D**.

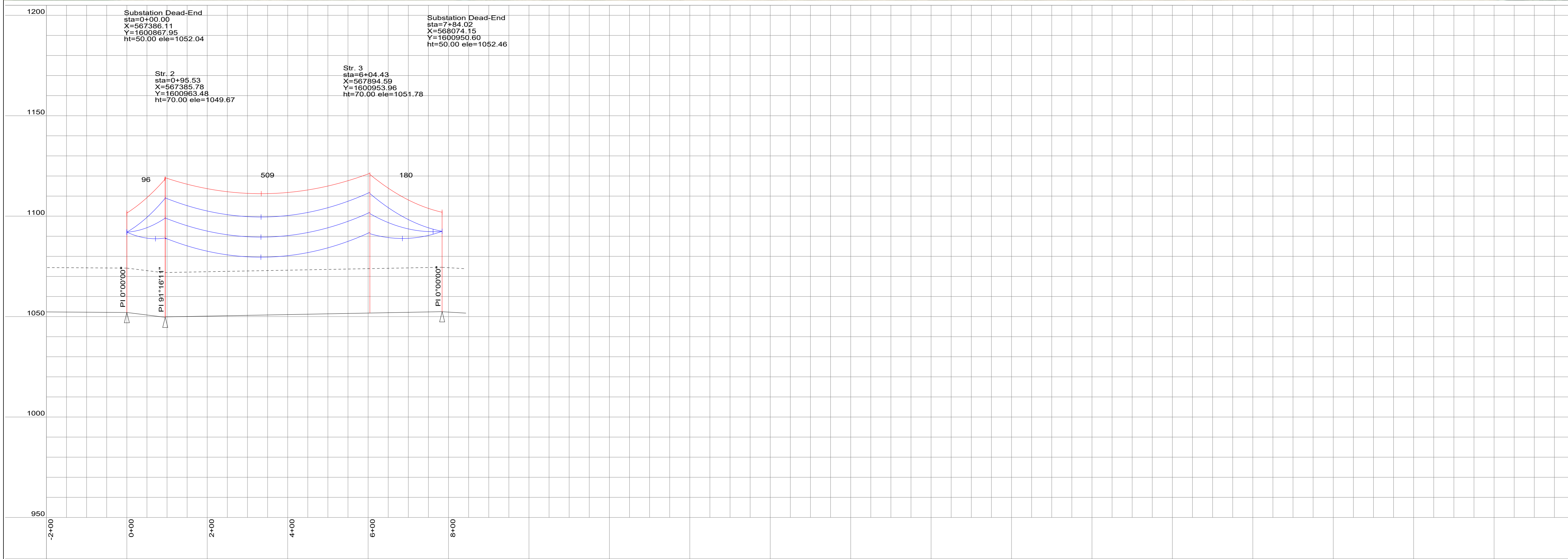
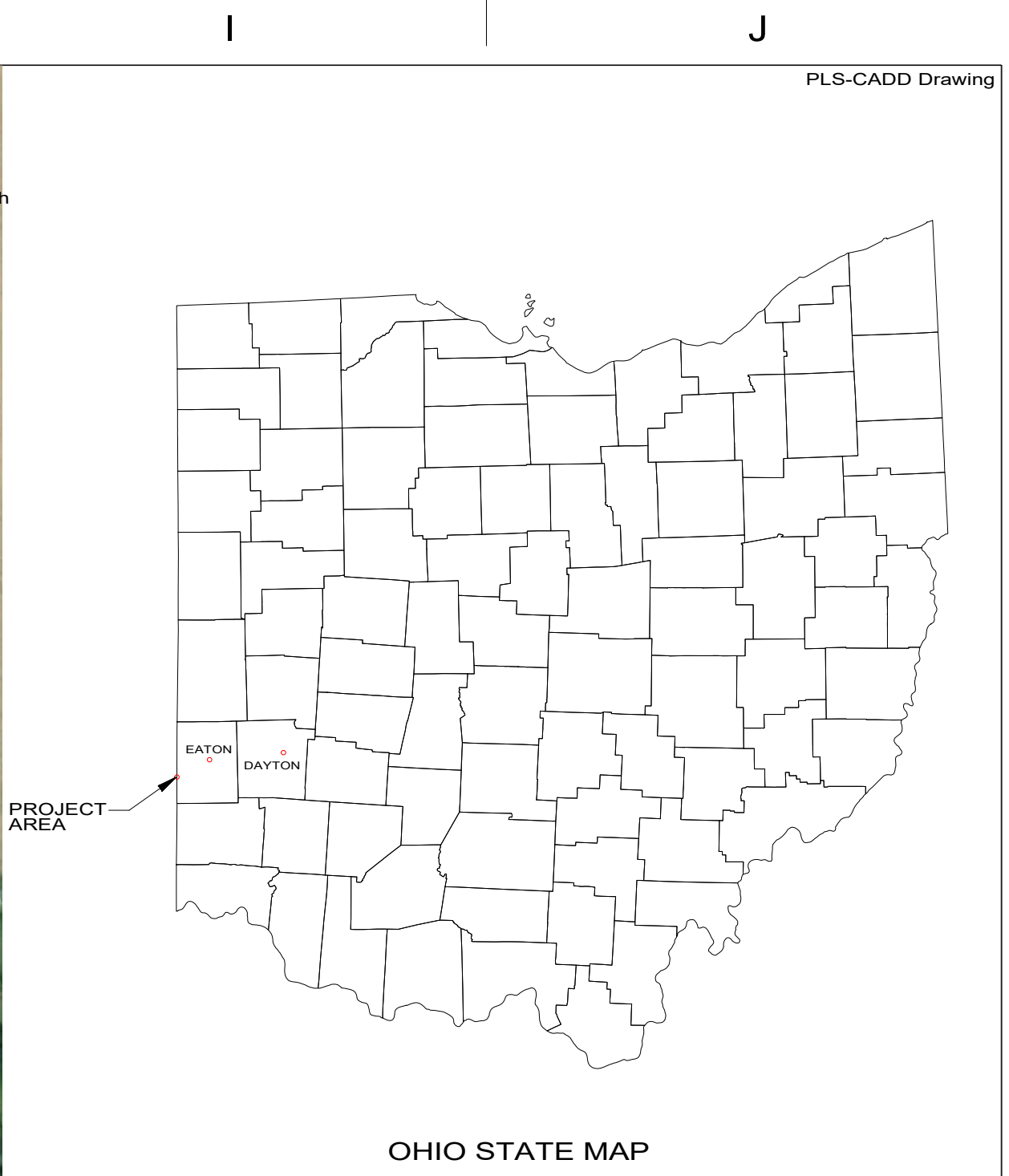
4906-6-05(B)(10)(g): Other Information/Unusual Conditions

*Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.*

To the best of Angelina Solar's knowledge, no unusual conditions exist that would result in significant environmental, social, health, or safety impacts.

# **Attachment A**





PROJECT COORDINATE SYSTEM:  
COORDINATE SYSTEM: STATE PLANE - NAD 83  
PROJECTION: 1301, INDIANA EAST ( FT. US)

GENERAL NOTES:  
1. OVERHEAD 138KV TRANSMISSION LINE IS DESIGNED TO MEET NESC 2012 DESIGN REQUIREMENTS.  
2. THE BOTTOM PHASE OF THE CONDUCTOR CLEARANCE IS 21.6FT. ABOVE GROUND LEVEL (20.6FT. NESC REQUIREMENT + 1FT.) AT THE MAXIMUM OPERATING TEMPERATURE OF THE CONDUCTOR AT 212DEG. F.  
3. POLES CAN BE EITHER GUYED WOOD POLES OR STEEL POLE SUPPORTED BY CONCRETE FOUNDATION.

REV.	DATE	DESCRIPTION	DRWN	CHK'D	APRVD
C	12/02/20	ISSUED FOR REVIEW	DS	DS	MJN
B	04/10/19	ISSUED FOR REVIEW	DS	DS	MJN
A	04/05/19	ISSUED FOR REVIEW	DS	DS	MJN

PRELIMINARY  
DRAWING  
NOT FOR  
CONSTRUCTION

MSE

Engineering, LLC

1843 CENTRAL AVE.  
SUITE 196  
ALBANY, NY 12205

ANGELINA SOLAR PROJECT  
OPEN ROAD RENEWABLES

138KV TRANSMISSION LINE  
PLAN & PROFILE

PROJ. NO.:  
2019002

SCALE:  
AS NOTED

DWG. NO.:  
901

SHEET:  
01




REV.:  
C



# **Attachment B**



**Area Map**  
**Angelina Solar 138kV Transmission Line Project**  
**Preble County, Ohio**

 Project Area     County and Township Roads  
 State Route

  
1:24,000





# **Attachment C**



**Environmental Design & Research,**

Landscape Architecture, Engineering & Environmental Services, D.P.C.

274 North Goodman Street, Rochester, New York 14607

P. 585.271.0040 • F. 585.271.0042 • [www.edrdpc.com](http://www.edrdpc.com)

November 30, 2020

Mr. Doug Herling  
Angelina Solar I, LLC  
1105 Navasota Street  
Austin, TX 78702

**RE: Angelina Solar Transmission Line Project  
Archaeological Investigation**

Dear Doug:

Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR), along with Commonwealth Heritage Group (CHG), completed an archaeological investigation for the area of potential disturbance for the above transmission line project in Israel Township, Preble County, Ohio ("Project"). Specifically, this letter is provided to confirm our archaeological investigation of the 0.23-acre area adjacent to County Road 600E (also known as State Line Road) to be used for the construction of the Project ("Project Area"; see attached Figure 1). This information is being provided to satisfy the information required by Ohio Administrative Code, Section 4906-6-05(B)(10)(c).

EDR and CHG conducted a desktop and field archaeological survey of the area of potential effect (APE) for the Project Area. The initial survey involved a desktop review of the Ohio State Historic Preservation Office (OHPO) database to identify previously recorded archaeological sites located within or immediately adjacent to the Project Area, as well as a review of the National Register of Historic Places (NRHP) inventory of previously identified cultural resources. This analysis also included a survey of historical research materials, with particular emphasis on historic cartographic sources. This investigation revealed no previously recorded cultural resources within the Project Area.

In addition, an archaeological field investigation was conducted at the Project Area. This field work was conducted to determine if previously un-recorded archaeological sites are present within the Project Area. This field survey was conducted in the summer of 2020. No previously unrecorded archaeological materials were recovered in the Project Area.

It is the opinion of EDR that no archaeological resources will be impacted by the installation of the transmission line for the proposed Project.



Mr. Doug Herling  
November 30, 2020

We appreciate the opportunity to assist you with this project. If you have any questions or require additional information, please contact me at [dpippin@edrdpc.com](mailto:dpippin@edrdpc.com) or (585) 752-6147 or Patrick Heaton at [pheaton@edrdpc.com](mailto:pheaton@edrdpc.com) or (315) 471-0688.

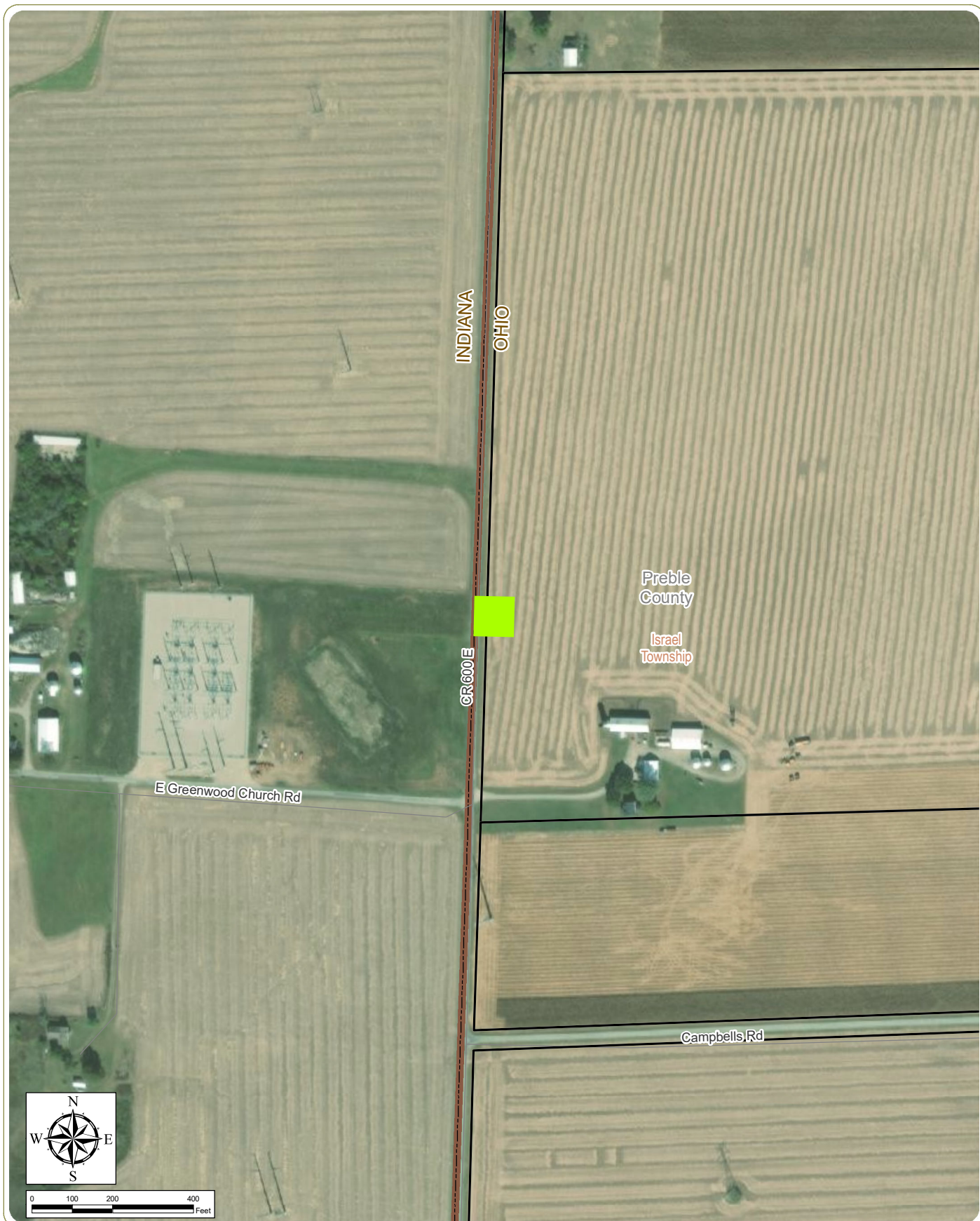
Thank you very much for your time.

Sincerely,

A handwritten signature in black ink that reads "Douglas Pippin". The signature is fluid and cursive, with the first name "Douglas" and last name "Pippin" clearly distinguishable.

Douglas Pippin  
Archaeology Project Manager  
Environmental Design and Research, D.P.C

Attachment: Figure 1. Project Area



## Angelina Solar Transmission Line Project

Israel Township, Preble County, Ohio

**Figure 1. Project Area**

**Notes:** 1. Basemap: ESRI ArcGIS Online "World Imagery" map service. 2. This map was generated in ArcMap on November 30, 2020. 3. This is a color graphic. Reproduction in grayscale may misrepresent the data.

- Project Area (0.23 Acres)
- Parcel Boundary



# **Attachment D**

# Technical Memorandum

**Date** November 30, 2020

**To:** Doug Herling  
Angelina Solar I, LLC

**From:** Cardno, Ryan Rupprecht

**RE:** **Angelina Solar Transmission Line Project - Ecological Assessment**

Cardno

121 Continental Drive  
Suite 308  
Newark, DE 19713  
USA

**Phone:** +1 302 395-1919  
**Fax:** +1 302 395-1920

[www.cardno.com](http://www.cardno.com)

Cardno conducted an ecological assessment of the Angelina Solar Transmission Line Project Gen-Tie line area. The Project is near Fairhaven, Ohio, which is located approximately 40 miles west of Dayton. This assessment is to provide the information required by Section 4906-6-05(b)(10)(e)&(f) for the 0.23 acre Project Area associated with the Project (see Figure 1, Project Overview).

The Project Area is primarily an active agricultural field and telecommunication ROW (turf grass) along County Rd 600E (also known as State Line Road).

Cardno prepared this assessment using Geographic Information Systems (GIS) to screen for and classify potential environmental resources, as well as field data and observations during surveys conducted in fall of 2017 and spring of 2018. Sources of the desktop reference material included, but was not limited to, the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Survey for Preble County, historic aerial photographs and farmed wetland maps from the USDA Farm Service Agency (FSA), U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) maps, Ohio Wetland Inventory (OWI) maps, U.S. Geological Survey (USGS) topographic maps, the USGS National Hydrography Dataset (NHD), and recent aerial photographs.

## 1.0 Land Use

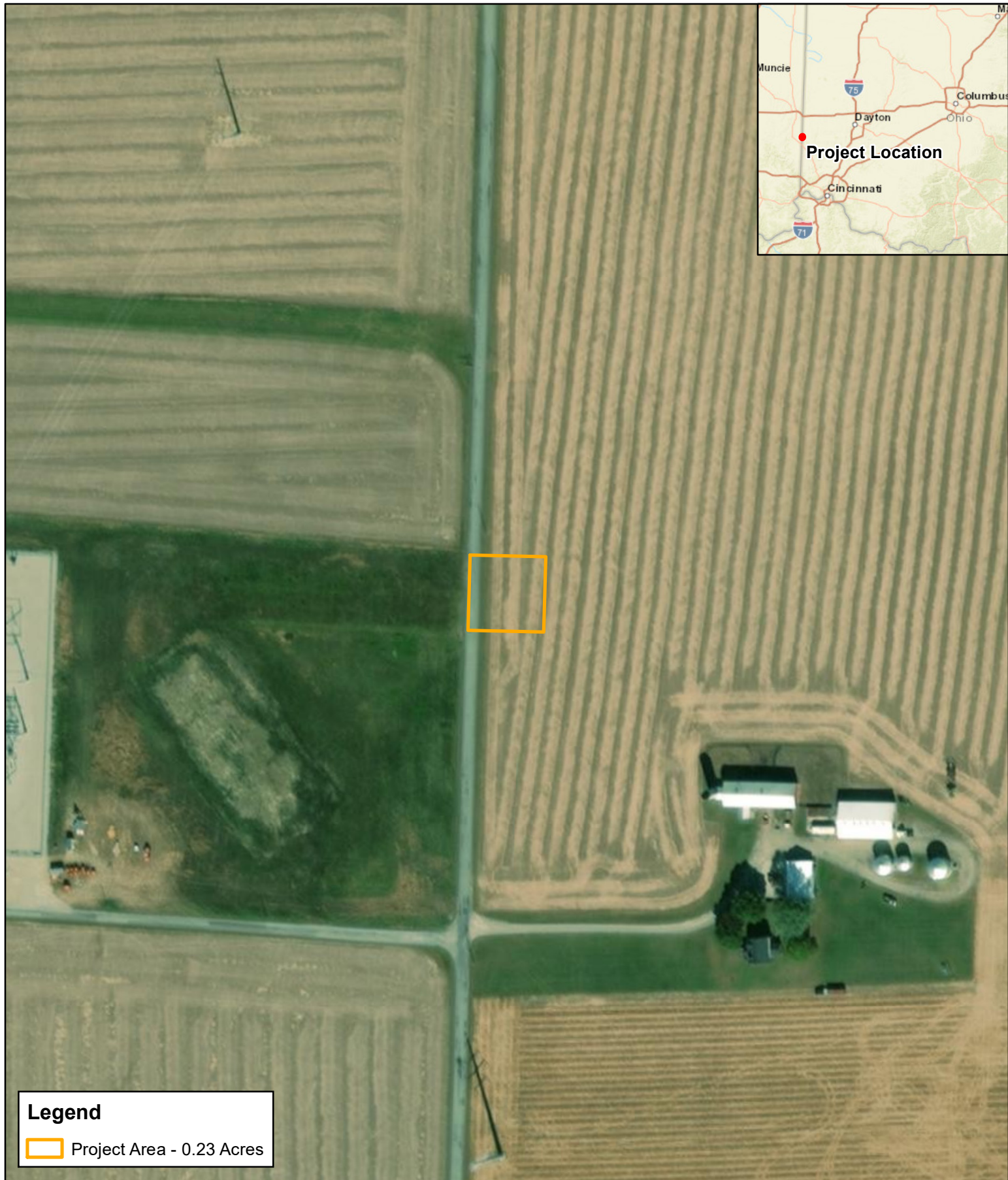
The land use types within the 0.23 acre Project Area are based on data provided by the Multi-Resolution Land Characteristics Consortium (MRLC), from the 2011 National Land Cover Database, amended 2014<sup>1</sup>. The land use categories within the Project Area are classified according to the predominant land use, as follows:

- > **Agricultural (Cultivated Crops)** – areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20% of total vegetation. This class also includes all land being actively tilled.
- > **Developed, Open Space** – areas with a mixture of some constructed materials, but mostly vegetation in the form of lawn grasses. Impervious surfaces account for less than 20% of total cover. These areas most commonly include large-lot single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes.

---

<sup>1</sup> [https://www.mrlc.gov/nlcd11\\_data.php](https://www.mrlc.gov/nlcd11_data.php)





## Legend

 Project Area - 0.23 Acres



This map and all data contained within are supplied as is with no warranty. Cardno Inc. expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user's needs. This map was not created as survey data, nor should it be used as such. It is the user's responsibility to obtain proper survey data, prepared by a licensed surveyor, where required by law.

## Project Overview

### Angelina Solar Transmission Line Project Preble County, Ohio



121 Continental Drive, Suite 308  
Newark, DE 19713 USA  
Phone (+1) 302-395-1919 Fax (+1) 302-395-1920  
[www.cardno.com](http://www.cardno.com)

Based on a review of available aerial imagery, the Project Area appears to generally occur in telecommunication ROW along County Road 600E and cultivated crop areas. Review of the 2011 NLCD<sup>2</sup> confirmed this assessment, which showed that Developed Open Space accounted for approximately 83% of the total Project Area acreage. The second most prominent land use within the Project Area was classified as Cultivated Crops, for approximately 17% of the acreage. A summary is provided in Table 1-1 below.

**Table 1-1. Land Use within the Project Corridor**

Type	Project Corridor (acres)	Project Corridor (%)
Developed, Open Space	0.19	83%
Agriculture, Cultivated Crops	0.04	17%
<b>TOTAL</b>	<b>0.23</b>	<b>100%</b>

*Source: Compiled from NLCD 2011, amended 2014*

## 2.0 Geology

The Project is located within the Central Lowland Physiographic Region of Ohio, and in particular, the Southern Ohio Loamy Till Plain. The Southern Ohio Loamy Till Plain is composed of loamy, high-lime Wisconsinan-age till over resistant Mississippian-age Berea Sandstone. Elevations range from 530 to 1,150 feet, with moderate relief. (ODGS, 1998, Physiographic Regions of Ohio<sup>3</sup>).

The entire Project Area is overlain by four bedrock formations – The Drakes, Whitewater, Saluda and Liberty formations. These Formations consist of alternating shale and limestone sequences<sup>4</sup>.

## 3.0 Soils

Soils within the Project Area are represented by the two types outlined in Table 3-1 below. Project soil information was obtained from the Web Soil Survey, an application of the NRCS (USDA-NRCS, 2017), and from the Soil Survey of Preble County, Ohio (USDA-NRCS, 2006). The dominant soil types were Fincastle silt loam and Cyclone silt loam, accounting for 99% and 1% respectively of the Project Area. Soil series within the Project Area were identified as low slope, which matched general expectations when consulting the topographic and aerial maps. Below are the dominate soil series:

The Fincastle silt loam series, approximately 99% of the total Project Area, consists of very deep, somewhat poorly drained soils that are deep to dense till. Permeability is moderate in the upper part of the solum, moderately slow in the lower part of the solum, and very slow in the substratum. Ponding is not typical with these soils, but they are found to have a seasonally high water table. Principal crops that are planted on these soils include corn, soybean, wheat and clover-grass mixtures. Native vegetation is hardwood forest. (Note: as noted below, there are no trees located in the Project Area.)

The Cyclone silt loam series, approximately 1% of the total Project Area, consists of very deep, poorly drained soils that formed in loess or silty material and in the underlying drift. Surface runoff is typically negligible or low, and permeability of these soils is moderate in the loess and moderately slow in the underlying drift, allowing water to pond in these soils. Most areas consisting of Cyclone soils are cultivated, with corn and soybean being the prominent crops.

<sup>2</sup> Homer, C.G., Dewitz, J.A., Yang, L., Jin, S., Danielson, P., Xian, G., Coulston, J., Herold, N.D., Wickham, J.D., and Megown, K. 2015. Completion of the 2011 National Land Cover Database for the conterminous United States-Representing a decade of land cover change information. Photogrammetric Engineering and Remote Sensing, v. 81, no. 5, p. 345-354.

<sup>3</sup> [http://geosurvey.ohiodnr.gov/portals/geosurvey/PDFs/Misc\\_State\\_Maps&Pubs/physio.pdf](http://geosurvey.ohiodnr.gov/portals/geosurvey/PDFs/Misc_State_Maps&Pubs/physio.pdf)

<sup>4</sup> [http://geosurvey.ohiodnr.gov/portals/geosurvey/PDFs/BedrockGeology/BG-1\\_8.5x11.pdf](http://geosurvey.ohiodnr.gov/portals/geosurvey/PDFs/BedrockGeology/BG-1_8.5x11.pdf)

**Table 3-1. Soils within the Project Corridor**

Type	Map Unit Description	Acres	Percentage of Area	Hydric Rating	Wind Erodibility Group
FcA	Fincastle silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	0.23	99%	10	4
CyA	Cyclone silt loam, 0 to 2 percent slopes	0.001	1%	85	4
<b>Total</b>		<b>0.23</b>	<b>100%</b>		

### 3.1 Highly Erodible Soils / Steep Slopes

Based on a review of the NRCS Web Soil Survey, the Project Area soils are not classified as highly erodible soils, all with Wind Erodibility Group (WEG) ratings between 4 and 6 (1 being highly erodible; 8 being least erodible). Additionally, no soil types within the Project Area are found to have 2% slopes or greater.

### 3.2 Hydric Soils

The Project Area is composed of one partially hydric soil - the Cyclone silt loam series (1% of the Project Area) and has a hydric rating of 85. The remaining soils found in the Project Area are either non-hydric or only partially hydric with all other soil series having a hydric rating of 10 or less.

## 4.0 Pre-construction Surveys

The following is a discussion of the results of field surveys of the Project Area conducted in November 2017.

### 4.1 Vegetative Community

Vegetative communities within the Project Area were evaluated based on desktop interpretation of aerial photography then verified during field surveys. Agricultural land is the dominant community type in the Project Area with annually maintained turf grass within the roadside ROW being the secondary community. All of the major plant communities found within the Project Area are common to Ohio.

#### ***Agricultural Land***

Much of the acreage within the Project Area is used for agricultural production, and is either currently active or recently fallowed. The dominant crops produced on agricultural lands in the Project Area include soy beans (*Glycine max*) and corn (*Zea mays*); during the winter months fields may be planted in a cover crop such as winter wheat (*Triticum aestivum*) to control erosion and restore soil nutrients. The type of crop may change seasonally, but the general extent of the crop area would remain consistent.

#### ***Forestland***

No forestland is present within the Project Area.

## 4.2 Wetlands and Waterbodies

Cardno conducted surface water delineation surveys in the Project Area during fall 2017 to determine the extent and jurisdiction of surface waters within the Project Area. A ¼-mile visual investigation was also conducted around the Project Area for sensitive habitats. No wetlands or waterbodies were delineated within the Project Area.

## 4.3 Wildlife Resources

Information on the existing wildlife in the Project Area was obtained from a variety of sources, including observations during site surveys, and publicly available data from Federal and State agencies. Wildlife within the Project Area could potentially utilize it for foraging, migratory stopover, breeding, and/or shelter. Based on the current land use, species present in the vicinity of the Project Area are primarily associated with agricultural fields, and pasture grasslands. Typical wildlife species that were observed during the field delineations included white-tailed deer and common woodland and grassland songbirds. Major species, as defined by Ohio Administrative Code (OAC) Chapter 4906-17, are those species with recreational or commercial value, or are listed as Federal- or State-listed threatened or endangered species. Common game species in southwestern Ohio include cottontail rabbit, northern bobwhite (quail), Canadian geese, gray and fox squirrels, mallard and other ducks, mourning doves, ring-necked pheasants, ruffed grouse, white-tailed deer, and wild turkey.<sup>5</sup> Other than the agricultural crops in the area, no commercially valuable species are anticipated to be present in the Project Area.

Based on existing habitat community (row crops and turf grass) and the seasonal/annual disturbance from agriculture and mowing the Project Area would not be suitable habitat for rare, threatened, or endangered (RTE) species. No RTE species were observed in or around the Project Area during field surveys.

## 5.0 Conclusion

Overall, the Project will have limited to no environmental impacts. The Project is proposed to be primarily be built on land that has already been disturbed seasonally/annually for agriculture or roadside maintenance mowing. The Project's most significant change will come from the conversion of a very small amount of agricultural land to land to be used for a transmission line (up to 0.23 acres, but practically speaking only to host a single dead-end structure). Angelina has designed the Project to avoid impacts to wetlands, waterbodies, woodlots, and aquatic and terrestrial wildlife species.

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<sup>5</sup> [http://www.dnr.state.oh.us/Home/wild\\_resource/subhomepage/ResearchandSurveys/WildlifePopulationStatusLandingPage/tabid/19230/Default.aspx](http://www.dnr.state.oh.us/Home/wild_resource/subhomepage/ResearchandSurveys/WildlifePopulationStatusLandingPage/tabid/19230/Default.aspx)



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Summary: Notice Construction Notice electronically filed by Mr. Michael J. Settineri on behalf of Angelina Solar I, LLC