

**AMERICAN TRANSMISSION SYSTEMS,  
INCORPORATED  
A FIRSTENERGY COMPANY**

**LETTER OF NOTIFICATION**

**CHRYSLER-MACLEAN 138 kV TRANSMISSION LINE  
TAP TO FIRST SOLAR PROJECT**

**OPSB CASE NO.: 18-1681-EL-BLN**

**December 28, 2018**

**American Transmission Systems, Incorporated  
76 South Main Street  
Akron, Ohio 44308**

**LETTER OF NOTIFICATION  
CHRYSLER-MACLEAN 138 kV TRANSMISSION LINE  
TAP TO FIRST SOLAR PROJECT**

The following information is being provided in accordance with the procedures in the Ohio Administrative Code (OAC) Chapter 4906-6 for the application and review of Accelerated Certificate Applications. Based upon the requirements found in Appendix A to OAC Rule 4906-1-01, this Project qualifies for submittal to the Ohio Power Siting Board (“Board”) as a Letter of Notification application.

**4906-6-05: ACCELERATED APPLICATION REQUIREMENTS**

**4906-6-05: Name**

Name of Project: Chrysler-Maclean 138 kV Transmission Line Tap to First Solar Project (“Project”).

**4906-6-05 (B)(1): Brief Description of the Project**

In this Project, American Transmission Systems, Incorporated (“ATSI”), a FirstEnergy company, is proposing to construct a new approximately 9,807 foot-long (1.86 mile-long) 138 kV Transmission Line tap from the existing Chrysler-Maclean 138 kV Transmission Line to the new First Solar Facility located in Lake Township, Wood County, Ohio. The tap line begins on the existing Chrysler-Maclean 138 kV Transmission Line at existing structure 16. The proposed route begins on the south side of State Route 795 and heads east for approximately 6,328 feet (1.20 miles). The proposed route then turns south for approximately 2,112 feet (0.40 miles). The proposed route then turns east for approximately 1,269 feet (0.24 miles) and then turns north for approximately 99 feet (0.20 miles) to enter into a new First Solar Substation.

Existing structures 15 and 17 on the Chrysler-Maclean 138 kV Transmission Line will be replaced with new switch structures.

The general location of the Project is shown in Exhibit 1, a partial copy of the United States Geologic Survey, Wood County OH, Quad Map, ID number 41081-E1. Exhibit 2

is a partial copy of Bing aerial imagery. The general layout is shown in Exhibit 3. The Project will be located in Perrysburg Township and Lake Township, Wood County, Ohio.

**4906-6-05 (B)(1): Letter of Notification Requirement**

The Project meets the requirements of a Letter of Notification because the Project meets the definition of Item (1)(d)(ii) of the Application Requirement Matrix for Electric Power Transmission Lines, Appendix A of OAC Rule 4906-1-01. This item 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 operating at a higher transmission voltage, as follows:*

*(d) Line(s) primarily needed to attract or meet the requirements of a specific customer or customers, as follows:*

*(ii) Any portion of the line is on property owned by someone other than the specific customer of applicant*

The proposed Project is within the requirements of Item (1)(d)(ii) as the Project is needed for a specific customer, First Solar, and a portion of the proposed Project is on property owned by someone other than First Solar or ATSI.

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

The Project is needed to provide service to First Solar's new manufacturing facility located in Lake Township, Wood County Ohio. First Solar requested an initial load of 35 MVA and plans to increase the load to 70 MVA by 2020. The Project is assigned the PJM identification number s1694.

**4906-6-05 (B)(3): Location of the Project Relative to Existing or Proposed Lines**

The location of the Project relative to existing or proposed lines is shown in the ATSI Transmission Network Map, included as part of the confidential portion of the

FirstEnergy Corp. 2018 Long-Term Forecast Report. This map was submitted to the PUCO in Case No. 18-0449-EL-FOR under Rule 4901:5-5:04 (C)(2)(b) of the Ohio Administrative Code. The map is incorporated by reference only. This map shows ATSI's 345 kV and 138 kV transmission lines and transmission substations including the Chrysler-Maclean 138 kV Transmission Line. The project area is located approximately 3 ¼ inches (11" x 17" printed version) from the left edge of the map and 1 ¾ inches (11" x 17" printed version) from the top of the map. The general location and layout of the project area is shown in Exhibits 1 and 2.

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

The general area of the Project was carefully considered to identify potential routes for the Project that are constructible, minimize potential impacts to the extent practical, and meet the needs of the Project. Two alternative routes were developed in addition to the proposed route chosen for this Project. A map of the routes evaluated is shown in Exhibit 4.

The southern alternative route taps the existing Chrysler-Maclean 138 kV Transmission Line approximately 2,700 feet (0.51 miles) to the southeast of the proposed tap location. This route is approximately 7,580 feet (1.44 miles) long and would require new right-of-way across commercial and agricultural properties. It follows a portion of an existing rail corridor for approximately 1,330 feet (0.25 miles) in a southeast direction from the tap point location and continues approximately 710 additional feet (0.13 miles) along the same direction until reaching Oregon Rd. Then it turns south for approximately 300 feet (0.06 miles) before turning east and crossing Oregon Rd. The route continues east for approximately 3,140 feet (0.59 miles) and then turns north for approximately 1,150 feet (0.22 miles) before heading east and continuing along the proposed route to the proposed First Solar Substation for the final 950 feet (0.18 miles).

The northern alternative route taps the existing Chrysler-Maclean 138 kV Transmission Line approximately 2,620 feet (0.50 miles) to the northeast of the proposed route. This route is approximately 11,580 feet (2.19 miles) long and would require new right-of-way

across commercial and agricultural properties adjacent to residential areas. This route heads due east from the tap point location for approximately 4,060 feet (0.77 miles) and then turns south, crossing Ayers Rd, for approximately 2,130 feet (0.40 miles). The route then turns southeast for approximately 970 feet (0.18 miles) and then heads east again for approximately 570 feet (0.11 miles) crossing Tracy Rd. The route then turns south for approximately 370 feet (0.07 miles) crossing SR 795 and then follows the proposed route for approximately 3,480 feet (0.66 miles) until it reaches the proposed First Solar Substation.

First Solar requires the 138 kV service by mid-April to support their new facility. As a result, the two primary criteria for evaluating the routes was land-use compatibility and the availability of right-of-way within the requisite timeframe. The proposed route is approximately 1.86 miles long and follows State Route 795, utilizing existing easements currently occupied by a maintained Toledo Edison (a FirstEnergy Company) distribution line right of way. The existing easements can accommodate a transmission line overbuild of the distribution line. ATSI is presently negotiating with affected property owners to supplement these easements where additional rights have been deemed necessary to expand vegetation clearance, address existing infrastructure and/or the potential for future structural encroachment / obstructions.

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

ATSI's manager of External Affairs will advise local officials of features and the status of the proposed Project as necessary. ATSI will publish notice of the Project in the Bowling Green Sentinel Tribune. Additionally, letters will be sent to affected property owners when this Letter of Notification application is submitted to the Board. ATSI will maintain a copy of this Letter of Notification application on FirstEnergy's website. Letters will also be sent to affected property owners at least 7 days before construction begins on the project informing them of the Project's start and a proposed timeframe of construction and restoration activities.

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

The construction schedule for this Project is expected to begin as early as February 1, 2019 and be completed by April 1, 2019.

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

Exhibit 1 depicts the general location of the Project. This Exhibit provides a partial copy of the United States Geological Survey, Wood County OH, quadrangle map (Quad Order ID 41081-E1). Exhibit 2 provides a partial copy of Bing aerial imagery of the Project Area

**4906-6-05 (B)(8): Property Owner List**

The Project centerline is located in both existing right of way through private property, and in public road right-of-way with easements on adjacent properties that permit vegetation maintenance and restrictions on erecting obstructions. ATSI is presently negotiating with affected property owners to supplement these easements where additional rights have been deemed necessary to expand vegetation clearance, address existing infrastructure and/or the potential for future structural encroachment / obstructions. Table 1 contains a list of property owners affected by the project.

<b>Table 1: Property Owner List</b>			
<b>Parcel Number</b>	<b>Property Owner</b>	<b>Property Address</b>	<b>Easement Status</b>
P57-400-020000045000	First Solar Inc.	8043 Broadstone Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-020000045006	Zenobia Shrine Holding Corporation	8048 Broadstone Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-020000045004, P57-400-010000053004	Desc LTD	8030 Broadstone Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000041001	Fram Group Operations LLC	28399 Cedar Park Blvd., Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights

<b>Table 1: Property Owner List</b>			
<b>Parcel Number</b>	<b>Property Owner</b>	<b>Property Address</b>	<b>Easement Status</b>
P57-400-010000040004	Cedar Investments LLC	28400 Cedar Park Blvd., Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000040000	Cedar Investments LLC	7820 Ponderosa Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000040001	Cedar Investments LLC	7796 Ponderosa Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000040003	Land Art Real Estate LLC	7728 Ponderosa Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000040500	Apache Enterprises Inc.	7700 Ponderosa Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000040501	Four M Holdings LTD	7650 Ponderosa Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000039000	Cedar Business Association Inc.	Ponderosa Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000035501	Reality Income Corp.	28350 Oregon Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000036510	Streams Edge Properties Ltd	28240 Oregon Rd, Perrysburg, OH 43551	Easement Obtained & Negotiating Additional Rights
P57-400-010000001501	Snyder Donald G & Avis A Trustees	28287 Tracy Road, Walbridge Ohio 43465	Easement Obtained
H28-712-180000021000 H28-712-180000023000 H28-712-180000024000 H28-712-190000004000 H28-712-190000005000	First Solar	28380 Tracy Road, Walbridge Ohio 43465	Negotiating

## **4906-6-05 (B)(9): TECHNICAL FEATURES OF THE PROJECT**

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

The transmission line construction will have the following characteristics:

- Voltage: 138 kV
- Conductors: 336.4 kcmil 26/7 ACSR (For the proposed First Solar Tap)  
954 kcmil 37/0 AAC (Existing on the Chrysler-Maclean 138 kV Transmission Line)
- Static Wire: 7#8 Alumoweld (For the proposed First Solar Tap)  
7#10 Alumoweld (Existing on the Chrysler-Maclean 138 kV Transmission Line)
- Insulators: Polymer
- ROW Width: 60 feet
- Land Requirements: 150 feet from the transmission line centerline for priority tree rights.
- Structure Types: Exhibit 5: Typical Delta Horizontal Post Tangent. Seven (7) structures are needed.  
Exhibit 6: Typical Light Angle Horizontal Post Tangent. One (1) structure is needed.  
Exhibit 7: Typical Corner Deadend. Three (3) structures are needed.  
Exhibit 8: Typical Laminated Wood Pole 3-Way Deadend. One (1) structure is needed.  
Exhibit 9: Typical Wood Pole 138 kV Switch. Two (2) structures are needed.  
Exhibit 10: Typical Laminated Wood Pole 138 kV Switch. One (1) structure is needed.  
Exhibit 11: Typical Vertical Horizontal Post Tangent. Fourteen (14) structures are needed.



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

The closest occupied residence or institution is approximately 30 feet from the proposed transmission line centerline therefore Electric and Magnetic Field (“EMF”) calculations are required by this code provision.

**4906-6-05 (B)(9)(b)(i): Calculated Electric and Magnetic Fields Strength Levels**

Table 2 itemizes the line loading of the Chrysler-Maclean 138 kV Transmission Line Tap to First Solar. The normal line loading represents FirstEnergy’s peak system load for the transmission lines. The emergency line loading represents the maximum line loading under contingency operation. The winter rating is based on the continuous maximum conductor rating (“MCR”) of the circuits for the single conductors per phase and an ambient temperature of zero degrees centigrade (32 °F), wind speed of 1.3 miles per hour, and a circuit design operating temperature of 100 °C (212 °F).

**Table 2: Transmission Line Loading**

<b>Line Name</b>	<b>Normal Loading Amps</b>	<b>Emergency Loading Amps</b>	<b>Winter Rating Amps</b>
Chrysler-Maclean 138 kV Transmission Line Tap to First Solar	146.3	N/A	758

Table 3 provide an approximation of the magnetic and electric fields strengths of the Chrysler-Maclean 138 kV Transmission Line Tap to First Solar are all calculated in a 60-foot wide right-of-way. The calculations provide an approximation of the electric and magnetic fields levels based on specific assumptions utilizing the EPRI EMF Workstation 2009 program software. This program software assumes the input transmission line configuration is located on flat terrain. Also, a balanced, three-phase circuit loading is assumed for the transmission circuit. The model utilizes the normal, emergency, and winter rating of the transmission lines.

**Table 3: EMF Calculations for the Chrysler-Maclean 138 kV Transmission Line Tap to First Solar**

<b>Chrysler-Maclean 138 kV Transmission Line Tap to First Solar, 60 foot Right-of-Way</b>		<b>Electric Field kV/m</b>	<b>Magnetic Field mG</b>
<b>Normal Loading</b>	Under Lowest Conductors	0.768	10.72
	At Right-of-Way Edges	0.377/0.444	5.93/7.21
<b>Emergency Loading</b>	Under Lowest Conductors	N/A	N/A
	At Right-of-Way Edges	N/A	N/A
<b>Winter Rating</b>	Under Lowest Conductors	0.768	55.55
	At Right-of-Way Edges	0.377/0.444	30.74/34.58

**4906-6-05 (B)(9)(b)(ii): Alternative Design Consideration for Electric and Magnetic Fields**

The strength of EMFs can potentially be reduced by installing the transmission line conductors in a compact configuration and, for multiple circuit transmission lines, by selecting conductor phasing that reduces the field strengths. ATSI designs its facilities according to the requirements of the NESC. The pole heights and configuration were chosen based on NESC specifications, engineering parameters, and cost. ATSI’s typical practice, as proposed in this Project, is to install 138 kV transmission lines primarily on wood tangent structures supported on horizontal post insulators – this is a compact design that reduces EMF field strengths in comparison to other installations.

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

The estimated capital cost for the proposed project is approximately \$3,732,800. The cost of the Project will be paid by ATSI.

**4906-6-05 (B)(10): SOCIAL AND ECOLOGICAL IMPACTS**

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

The Project is located in Perrysburg Township and Lake Township, Wood County, Ohio. The main land uses around the Project is commercial land, vacant land, and agricultural land.

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

Agricultural land does exist within the Project’s disturbance area. There is one parcel that is used as agricultural land in the Project area. This parcel is registered as an agricultural district. A list of all agricultural land and acreage including agricultural district land is given in Table 4.

**Table 4: Agricultural Lands within the Project’s Disturbance Area**

<b>Parcel Number</b>	<b>Property Owner</b>	<b>Acreage</b>	<b>Agricultural District</b>	<b>Agricultural District Expiration</b>
P57-400-010000001501	Snyder Donald G & Avis A Trustees	29.85	Yes	2020

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

GAI Consultants Inc. (“GAI”) conducted a search of the Ohio Historic Preservation Office (“OHPO”) online database to identify the existence of any significant archeological or cultural resource sites within 0.5 miles of the Project area. The results of the search are shown in GAI’s Environmental and Cultural Assessment, Attachment 6 of Exhibit 12.

The OHPO database includes all Ohio listings on the National Register of Historic Places (“NRHP”), including districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture. The results of the search indicate that no listed NRHP sites and no NRHP eligible sites were identified within 0.5 miles of the Project potential disturbance area.

The OHPO database also includes listing of the Ohio Archaeological Inventory (“OAI”), the Ohio Historic Inventory (“OHI”), previous cultural resource surveys, and the Ohio Genealogical Society (“OGS”) cemetery inventory. One OAI listed archeological resource has been previously inventoried within 0.5 miles of the Project area. No OHI listed structural resource is located within 0.5 miles of the Project area. No previous cultural resource survey was conducted within 0.5 miles of the Project area. One OGS

cemetery is located within 0.5 miles of the Project area, but the location of this cemetery is not confident.

Based on the results, no impacts to archeological resources are anticipated due to the Project area along road right-of-way in a mostly commercially developed area. No impacts to the OGS cemetery are expected because the OGS records indicate the cemetery is located in Section 17 of Lake Township and the Project is located in Section 18 & 19. A map of the Project in relation to the Sections of Lake Township is shown in Attachment 1 of Exhibit 12.

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

Table 5 shows the list of government agency requirements and the filing status at the time of filing.

**Table 5. List of Government Agency Requirements to be Secured Prior to Construction**

Agency	Permit Requirement	Status
Ohio EPA	General NPDES Construction Storm Water Permit	Will be Filed

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

GAI submitted an online review to the US Fish and Wildlife Service (“USFWS”) Information for Planning and Consultation (“IPaC”), to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project area. A copy of USFWS’s Ecological Review response is included as Attachment 2 in Exhibit 12. The USFW’s response on November 14, 2018 indicated that they have records of the federal and state endangered Indiana Bat (*Myotis sodalis*) and the federal threatened Northern Long-Eared Bat (*Myotis septentrionalis*) are within the range of the Project. While the Project does not require significant vegetation removal, any required tree clearing will be completed prior to April 1, 2019.

GAI submitted a request to the Ohio Department of Natural Resources (“ODNR”) Division of Wildlife on November 21, 2018 to search of the ODNR’s Division of Wildlife’s Natural Heritage Database to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project area. A copy of this letter is included as Attachment 3 in Exhibit 12.

The ODNR’s Division of Wildlife has not responded at this time, though a list of endangered and threatened species maintained on ODNR’s website for Wood County as Attachment 4 in Exhibit 12. The list includes nine (9) endangered species and three (3) threatened species.

ODNR’s county list for Wood County indicated that the state endangered Blue-spotted Salamander (*Ambystoma laterale*), Western Banded Killfish (*Fundulus diaphanus menona*), Clubshell (*Pleurobema clava*), and Purple Liliput (*Toxolasma lividus*); and the state threatened Pondhorn (*Uniomerus tetralasmus*) and Spotted Turtle (*Clemmys guttata*) may be present in the Project Area. No impacts to these species are expected due to the Project’s location and that no work is proposed in streams or wetlands.

ODNR’s county list for Wood County indicated that the state endangered Regal Fritillary (*Speyeria idalia*), may be present in the Project Area. No impacts to this species are expected based on the Project setting. Further, all access road construction and vegetation clearing will be completed during the winter, by the end of February 2019.

ODNR’s county list for Wood County indicated that the state endangered Northern Harrier (*Circus cyaneus*); the state threatened Black-crowned Night Heron (*Nycticorax nycticorax*) may be present in the Project Area. No impacts to these species are anticipated due to their migratory nature.

ODNR’s county list for Wood County indicated that the state endangered Upland Sandpiper (*Bartramia longicauda*). This species nests on dry grasslands including native grasslands, seeded grasslands, grazed and ungrazed pasture, hayfields, and grasslands

established habitats. The nesting period is April 15<sup>th</sup> to July 31<sup>st</sup>. No impacts to this species are expected as the Project will be completed prior to the nesting period.

ODNR's county list for Wood County indicated that the state endangered Lark Sparrow (*Chondestes grammacus*). This species nests in grassland habitats with scattered shrub layers, disturbed open areas, as well as patches of bare soil. The Lark Sparrow has a nesting period of May 1<sup>st</sup> to June 30<sup>th</sup>. No impacts to this species are expected as the Project will be completed prior to the nesting period.

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

GAI submitted a request to the Ohio Department of Natural Resources ("ODNR") Division of Wildlife on November 21, 2018 to research the ODNR's Division of Wildlife's Natural Heritage Database for the presence of any unique ecological sites, geological features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forest, national wildlife refuges, or other protected natural areas within one (1) mile of the project area. The ODNR's Division of Wildlife has not responded at this time. However, given the nature of the Project and the surrounding land use, no constraints related to these features are anticipated.

GAI completed a wetland and stream assessment of the Project area, focusing on proposed Project centerline, construction access roads, and additional workspace areas anticipated for construction. During the study, GAI identified no jurisdictional streams or wetlands. Multiple drainage features were identified south of SR 795 along with one storm water retention pond. A copy of the finding is in Attachment 5 in Exhibit 12.

The Project work limits do not encroach on any regulated flood plains based on a review of online FEMA Flood Insurance Rate Mapping.

**4906-6-05(B)(10)(g): Other Information**

Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the National Electric Safety Code as

adopted by the PUCO and will meet all applicable safety standards established by the Occupational Safety and Health Administration.

No other or unusual conditions are expected that will result in significant environmental, social, health or safety impacts.

**4906-6-07: Documentation of Letter of Notification Transmittal and Availability for Public Review**

This Letter of Notification is being provided concurrently with its docketing with the Board to the following officials in Perrysburg Township and Lake Township, Wood County, Ohio.

**Wood County**

Ms. Doris Herringshaw, President  
Wood County Commissioners  
5th Floor, County Office Building  
One Courthouse Square  
Bowling Green, OH 43402

Mr. Bernie Scott, Chairman  
Soil and Water Conservation Dist.  
1616 East Wooster Street, STE 32  
Bowling Green, OH 43402

Mr. Craig LaHote, Vice President  
Wood County Commissioners  
5th Floor, County Office Building  
One Courthouse Square  
Bowling Green, OH 43402

Mr. John M. Musteric, P.E., P.S.  
Wood County Engineer  
One Courthouse Square  
Bowling Green, OH 43402

Dr. Theodore Bowlus  
Wood County Commissioners  
5th Floor, County Office Building  
One Courthouse Square  
Bowling Green, OH 43402

**Perrysburg Township**

Mr. Gary Britten  
Perrysburg Township Trustee  
26609 Lime City Road  
Perrysburg OH 43551

Mr. Robert Mack  
Perrysburg Township Trustee  
26609 Lime City Road  
Perrysburg OH 43551

Mr. Joseph Schaller  
Perrysburg Township Trustee  
26609 Lime City Road  
Perrysburg OH 43551

Mr. Walt Celley,  
Perrysburg Twp. Administrator  
26609 Lime City Road  
Perrysburg, OH 43551

Mrs. Shirley Harr  
Perrysburg Twp. Fiscal Officer  
26609 Lime City Road  
Perrysburg, OH 43551

Ms. Kelly Hemminger,  
Administrator, Perrysburg Twp.  
Department of Planning & Zoning  
26609 Lime City Road  
Perrysburg, OH 43551

**Lake Township**

Mr. Ken Gilsdorf  
Lake Township Trustee  
27975 Cummings Road  
Millbury, Ohio 43447

Mrs. Vicki Schwamberger  
Lake Township Fiscal Officer  
27975 Cummings Road  
Millbury, Ohio 43447

Mr. Richard Welling  
Lake Township Trustee  
27975 Cummings Road  
Millbury, Ohio 43447

Mr. Mark Hummer  
Lake Township Administrator  
27975 Cummings Rd.  
Millbury, OH 43447

Mr. Jeffery Pettit  
Lake Township Trustee  
27975 Cummings Road  
Millbury, Ohio 43447

**Libraries**

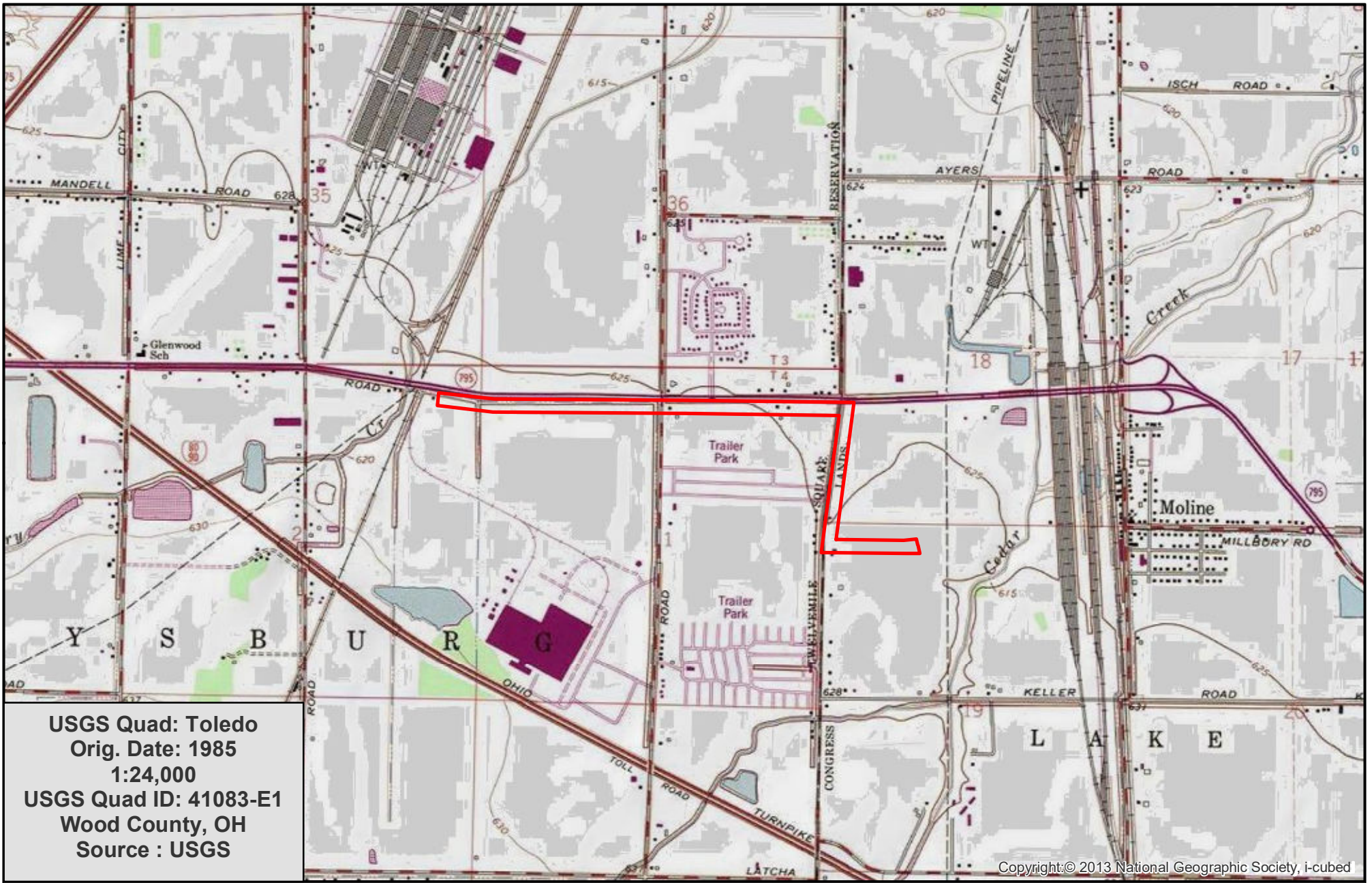
Ms. Janel Haas, Director  
Way Public Library  
101 E. Indiana Ave.  
Perrysburg, OH 43551

Mr. Michael Penrod, Director  
Walbridge Branch  
Wood County Public Library  
108 North Main Street  
Walbridge, OH 43465

Copies of the transmittal letters to these officials have been included with this application as proof of compliance under OAC Rule 4906-6-07 (B) to provide the Board with proof of notice to local officials as required by OAC Rule 4906-6-07 (A)(1) and to libraries per OAC Rule 4906-6-07 (A)(2).

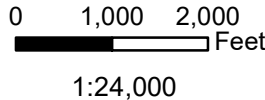


Information is posted at [www.firstenergycorp.com/about/transmission\\_project/ohio.html](http://www.firstenergycorp.com/about/transmission_project/ohio.html) on how to request an electronic or paper copy of this Letter of Notification application. The link to this website is being provided to meet the requirements of OAC Rule 4906-6-07 (B) and to provide the Board with proof of compliance with the notice requirements in OAC Rule 4906-6-07 (A)(3).



USGS Quad: Toledo  
 Orig. Date: 1985  
 1:24,000  
 USGS Quad ID: 41083-E1  
 Wood County, OH  
 Source : USGS

Copyright:© 2013 National Geographic Society, i-cubed

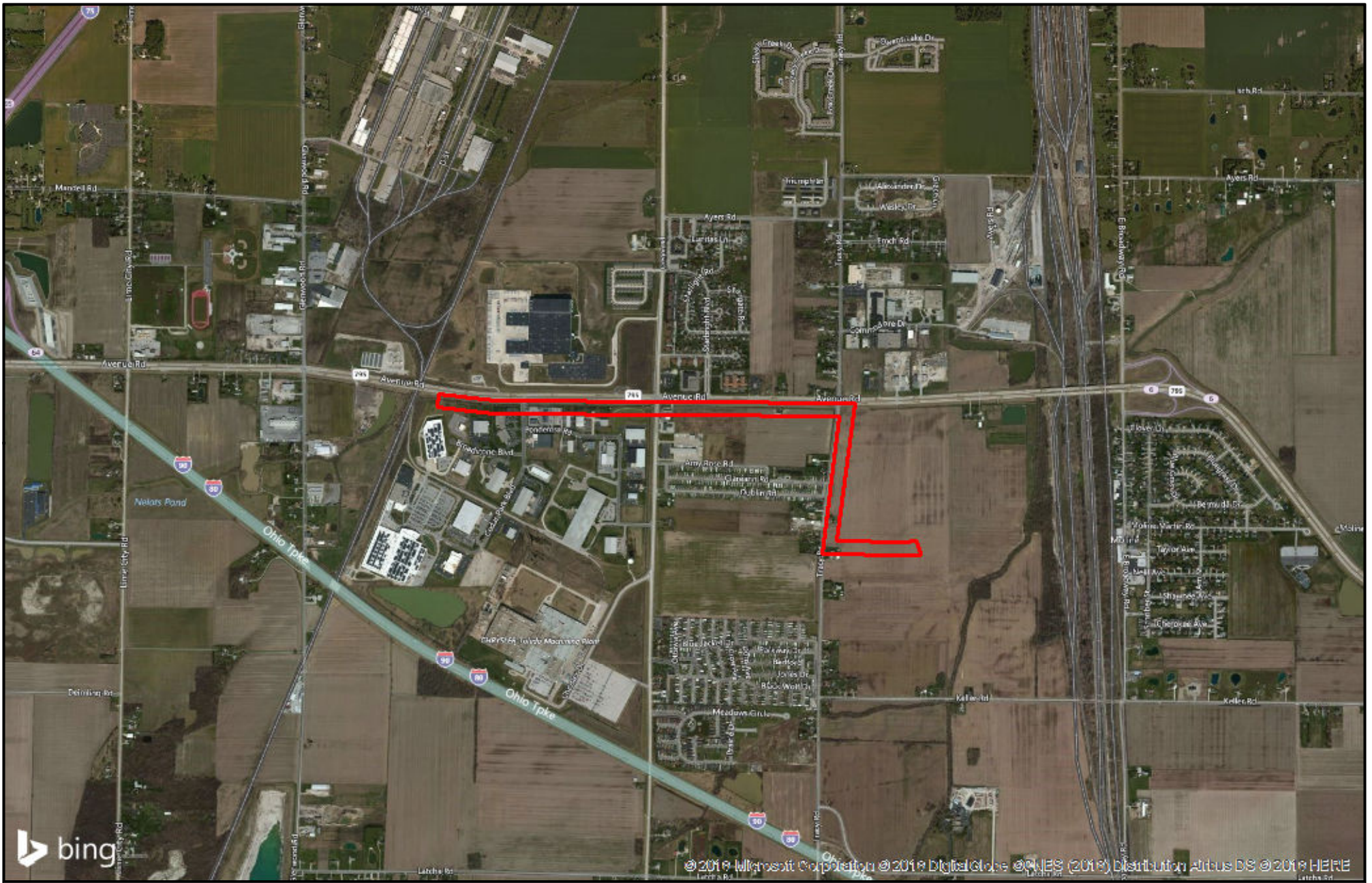


 Project Area

**Chrysler-Maclean 138 kV Transmission Line  
 Tap to First Solar Project**

**Exhibit 1**





bing

© 2019 Microsoft Corporation © 2018 DigitalGlobe © CNES (2018) Distribution Airbus DS © 2018 HERE

0 1,000 2,000  
 Feet  
 1:24,000

 Project Area

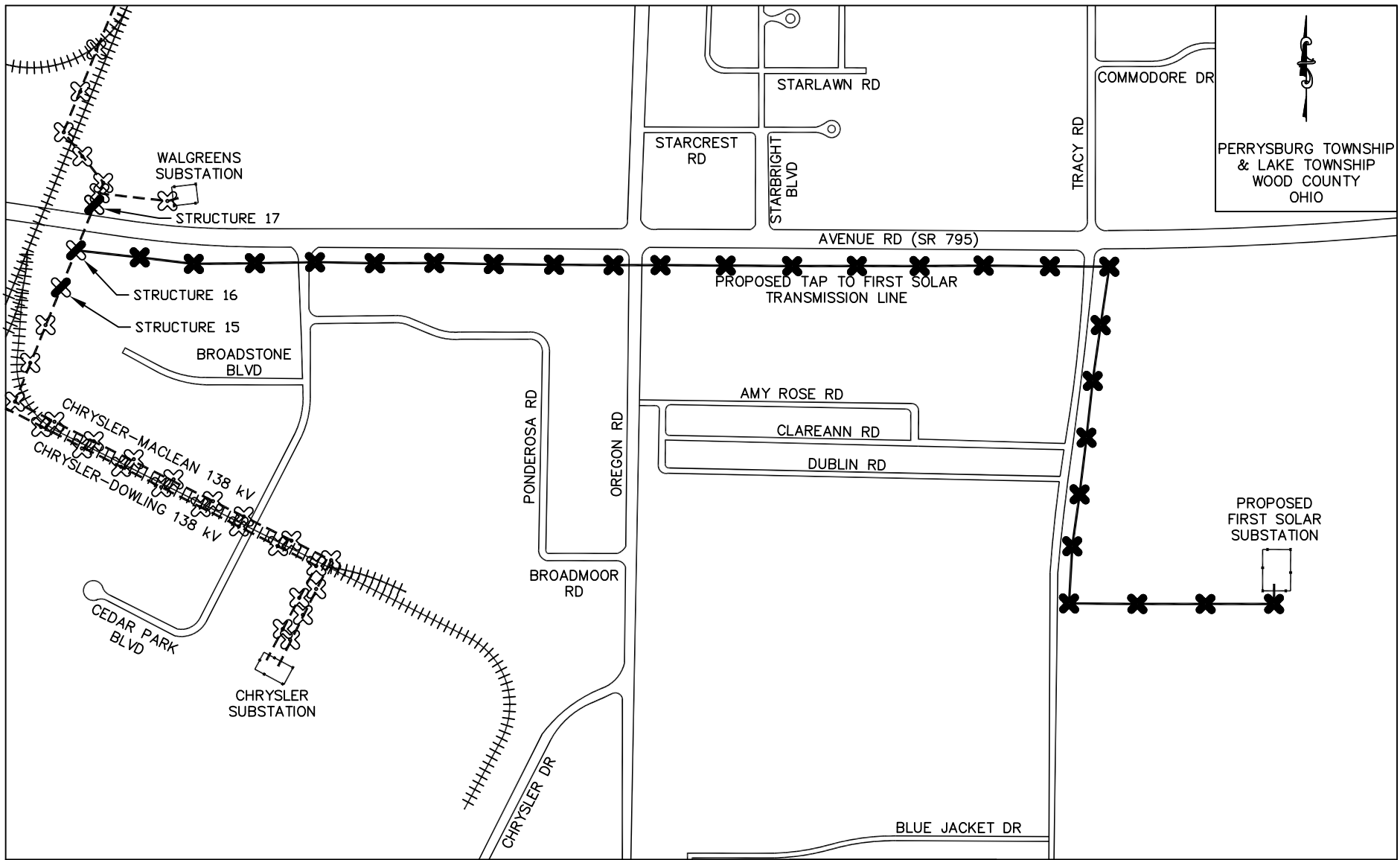
**Chrysler-Maclean 138 kV Transmission Line  
 Tap to First Solar Project**


**Exhibit 2**






**FirstEnergy**

Created on 12/20/2018



  
 PERRYSBURG TOWNSHIP  
 & LAKE TOWNSHIP  
 WOOD COUNTY  
 OHIO

**LEGEND**

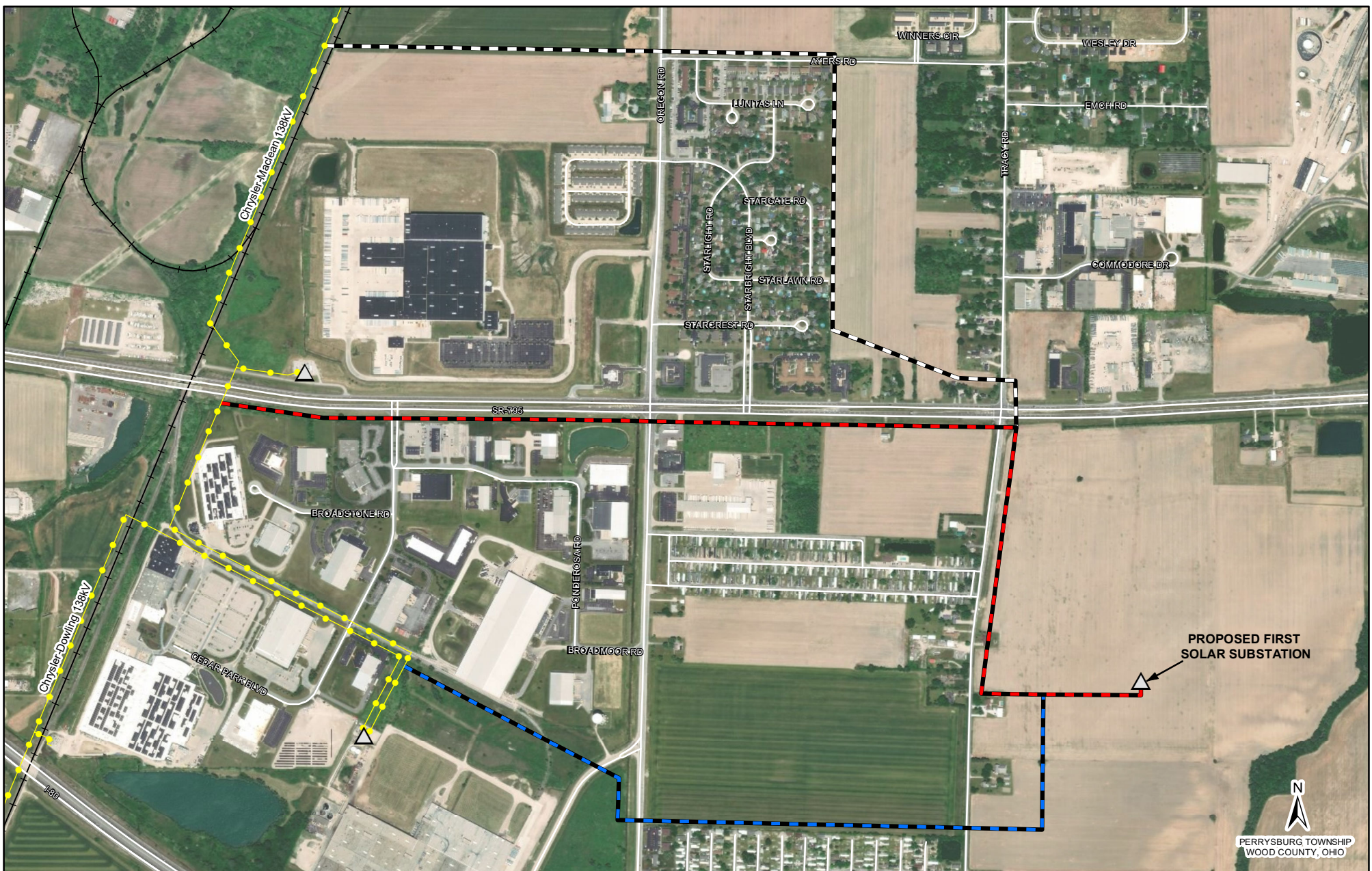
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|---------|-----------------------|---|---|
| -----   | EXISTING CONDUCTOR    |  | EXISTING 1-POLE WOOD STRUCTURE                |
| —————   | NEW CONDUCTOR         |  | EXISTING 1-POLE WOOD STRUCTURE TO BE REPLACED |
| +++++   | RAILROAD              |  | NEW 1-POLE WOOD STRUCTURE                     |
| —•••••— | SUBSTATION FENCE LINE |   |   |



CHRYSLER-MACLEAN 138 kV  
TRANSMISSION LINE TAP TO FIRST  
SOLAR PROJECT

GENERAL LAYOUT

EXHIBIT 3



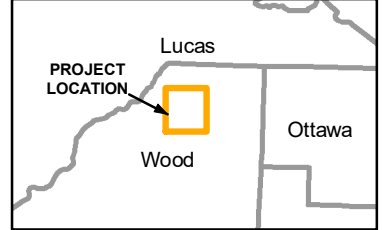
**LEGEND:**

- Substation
- Existing 138 kV
- Proposed Route
- Northern Alternative
- Southern Alternative

0 500 1,000 2,000  
Feet

**Reference:**  
ESRI Aerial Imagery; ODOT

**Coordinate System:**  
NAD 1983 StatePlane Ohio North FIPS 3401 Feet  
Projection: Lambert Conformal Conic; Units: Foot US



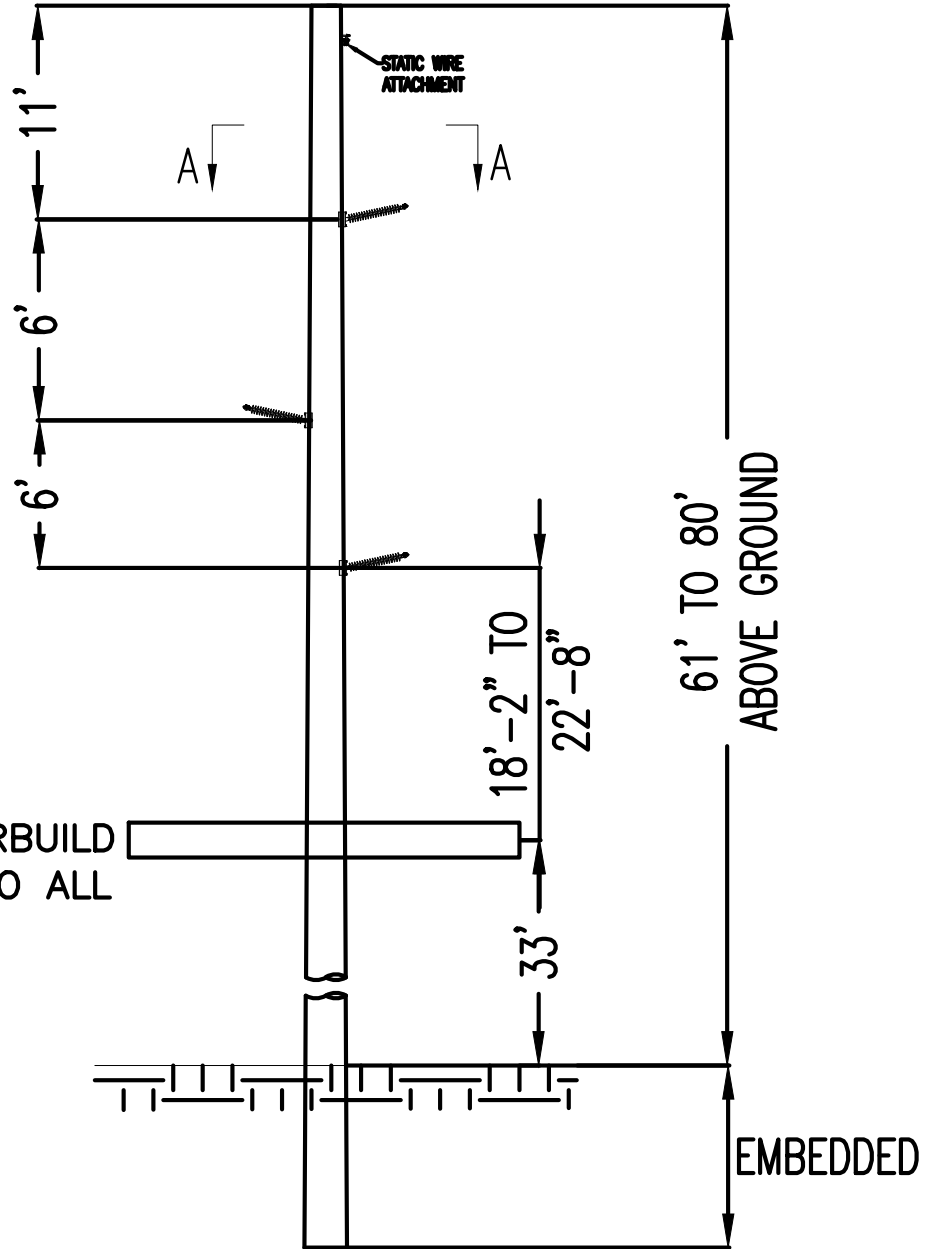
**EXHIBIT 4**

**Chrysler-Maclean 138 kV Transmission Line Tap to First Solar**

**ATSI**  
American Transmission Systems, Inc.  
a subsidiary of FirstEnergy Corp.



SECTION A-A



DISTRIBUTION UNDERBUILD  
(NOT APPLICABLE TO ALL  
STRUCTURES)

ELEVATION VIEW

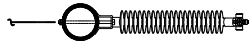
\*\*NOT TO SCALE



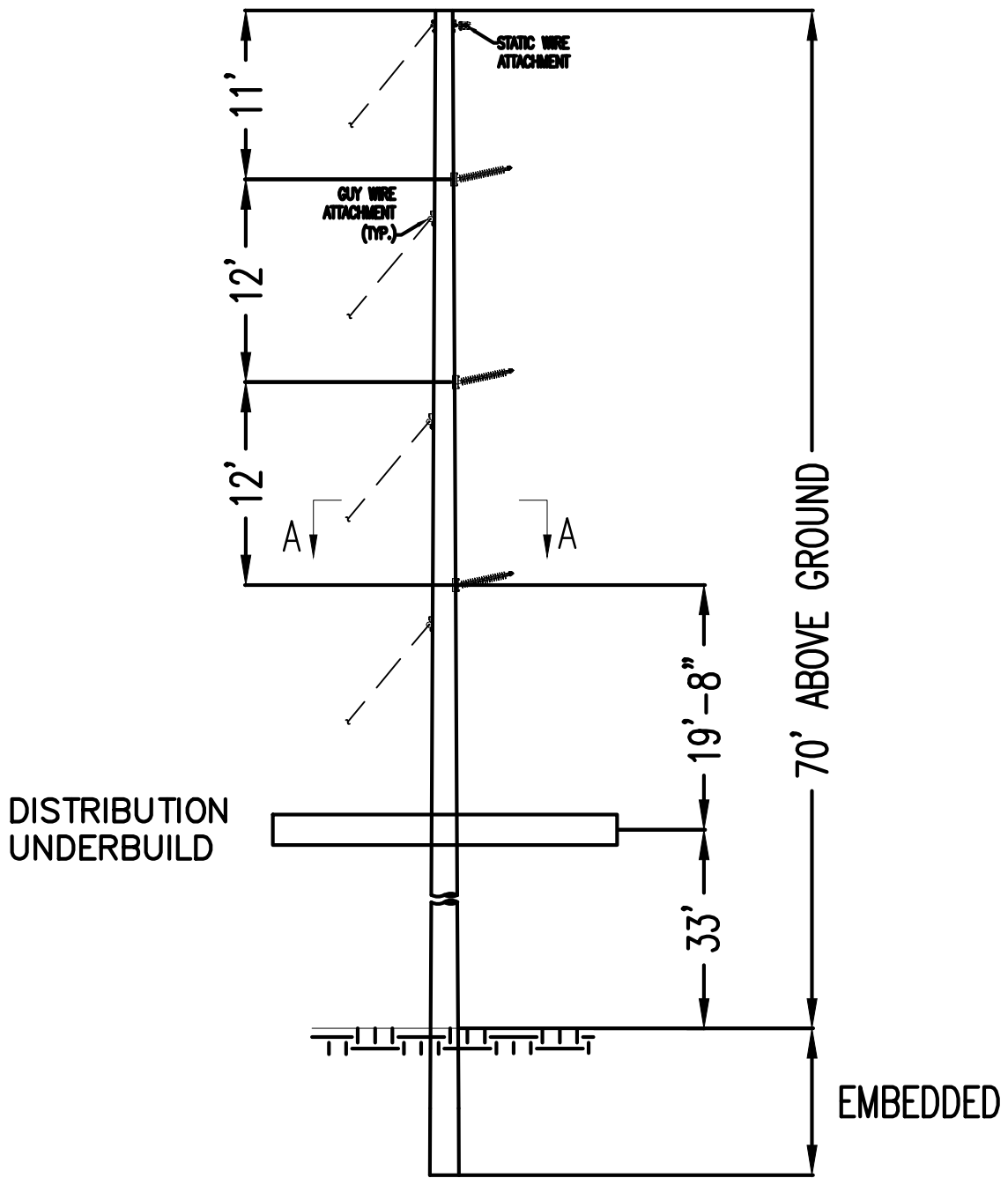
CHRYSLER-MACLEAN 138kV  
TRANSMISSION LINE  
TAP TO FIRST SOLAR

TYPICAL DELTA HORIZONTAL POST TANGENT

EXHIBIT 5



SECTION A-A



ELEVATION VIEW

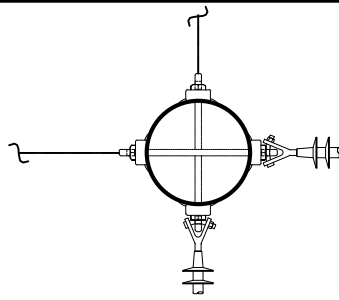
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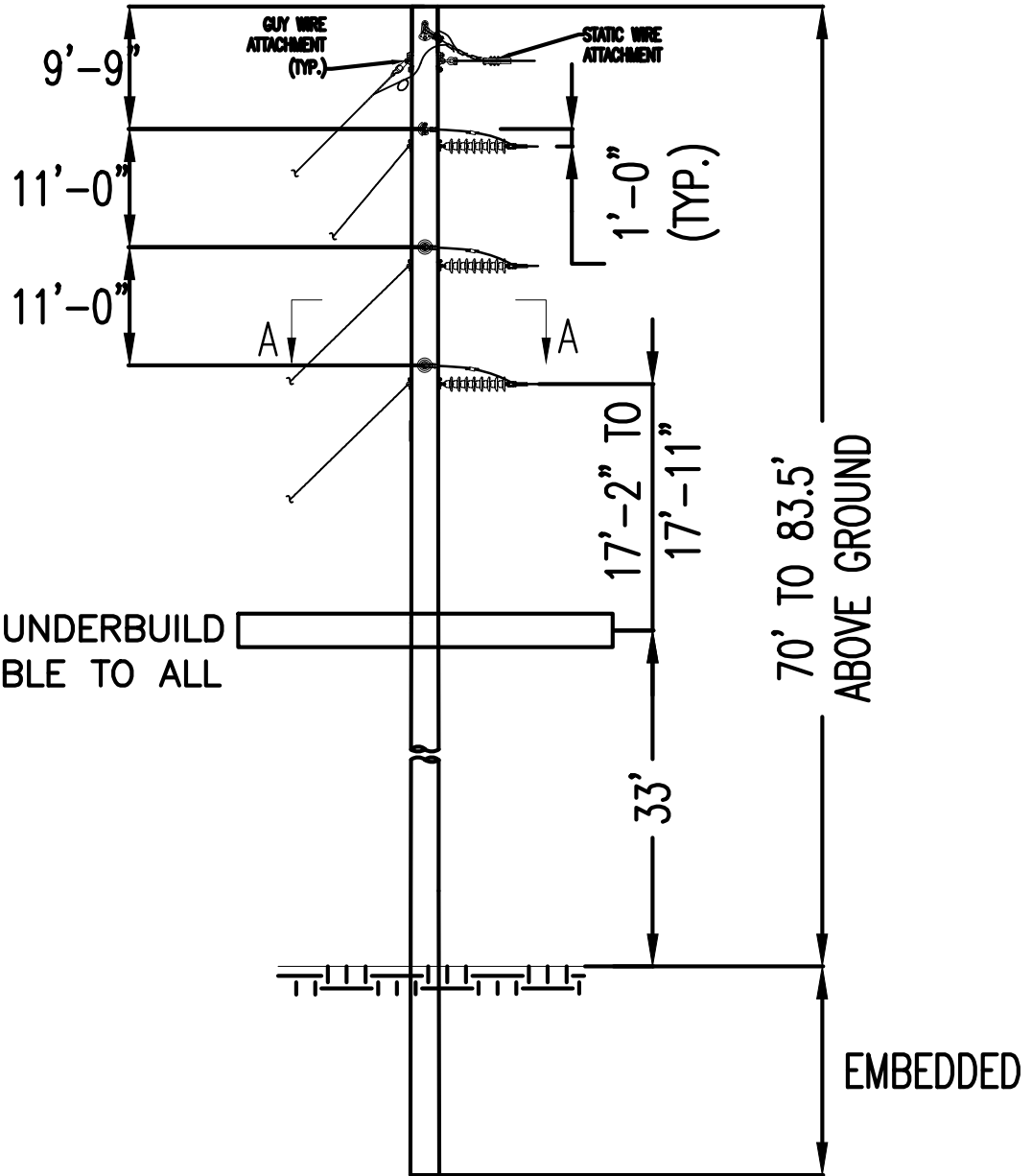
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TRANSMISSION LINE  
TAP TO FIRST SOLAR

TYPICAL LIGHT ANGLE HORIZONTAL POST  
TANGENT

EXHIBIT 6



SECTION A-A



DISTRIBUTION UNDERBUILD  
(NOT APPLICABLE TO ALL  
STRUCTURES)

ELEVATION VIEW

\*\*NOT TO SCALE

**ATSI**<sup>®</sup>

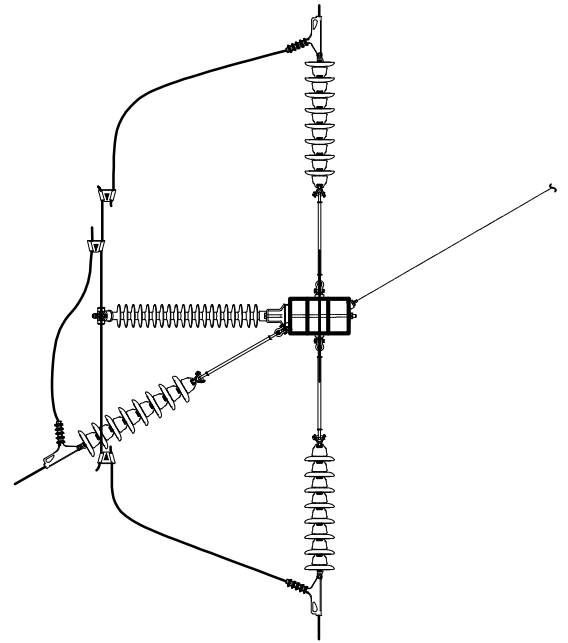
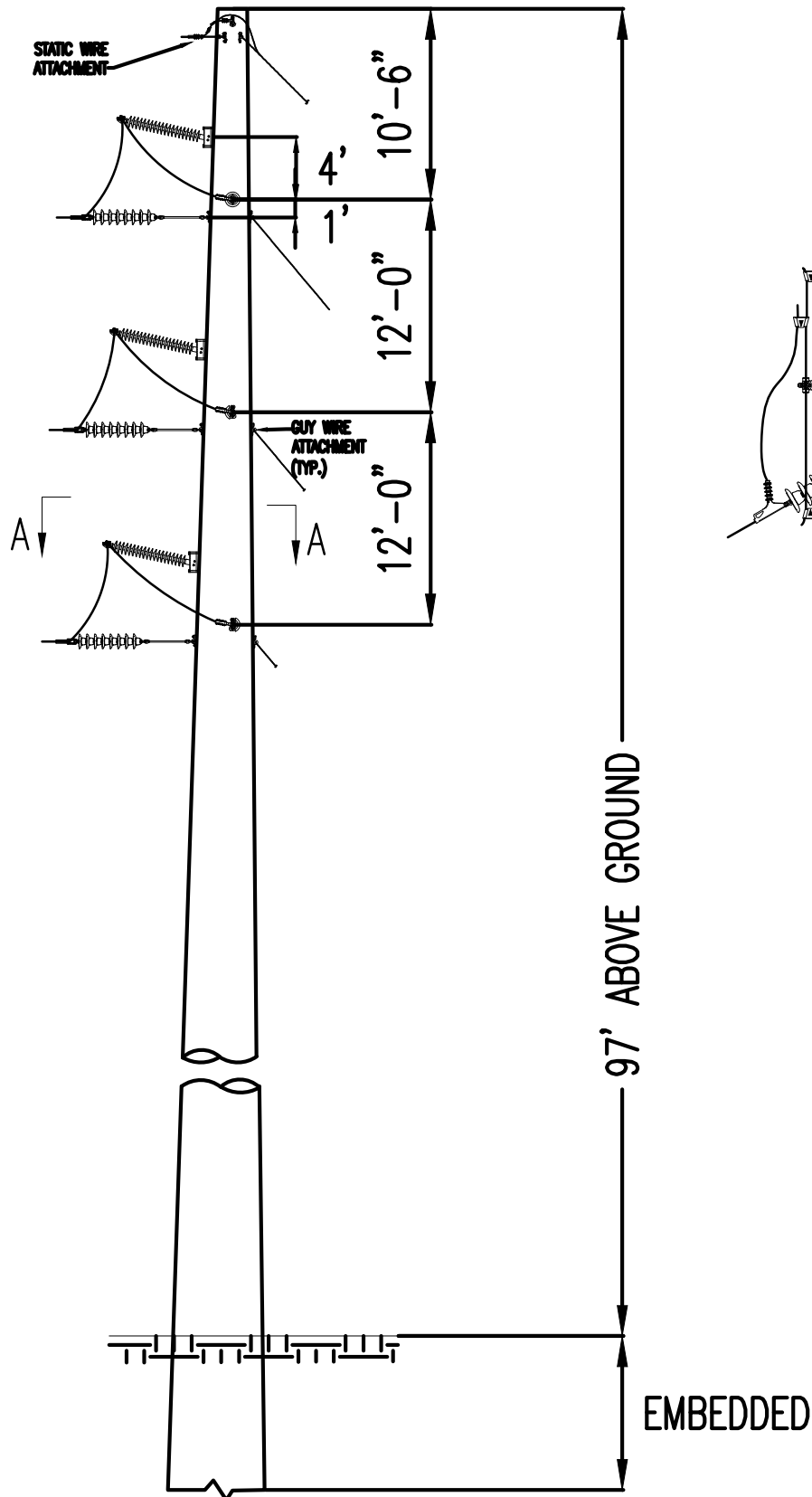
American Transmission Systems, Inc.  
a subsidiary of FirstEnergy Corp.

CHRYSLER-MACLEAN 138kV  
TRANSMISSION LINE  
TAP TO FIRST SOLAR

TYPICAL CORNER DEADEND

EXHIBIT 7





SECTION A-A

ELEVATION VIEW

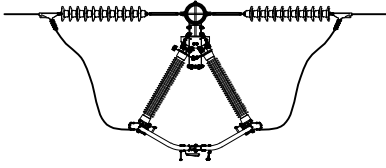
\*\*NOT TO SCALE

**ATSI**<sup>®</sup>  
 American Transmission Systems, Inc.  
a subsidiary of FirstEnergy Corp.

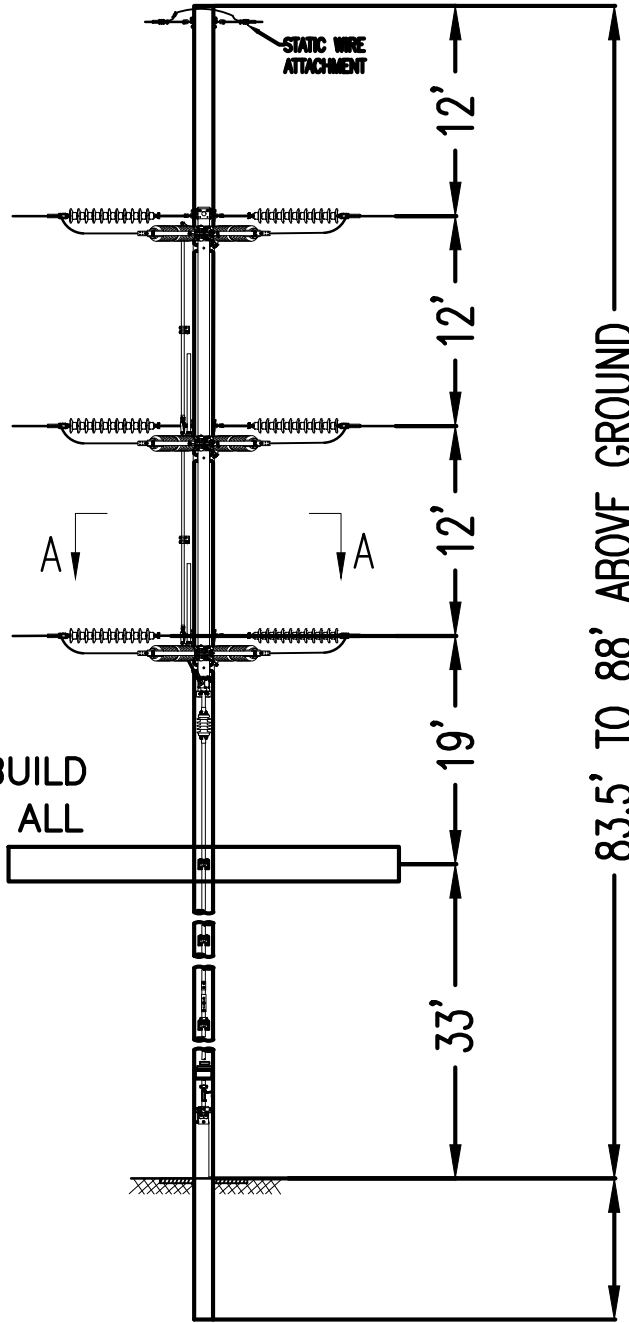
CHRYSLER-MACLEAN 138kV  
 TRANSMISSION LINE  
 TAP TO FIRST SOLAR

TYPICAL LAMINATED WOOD POLE 3-WAY  
 DEADEND

EXHIBIT 8



SECTION A-A

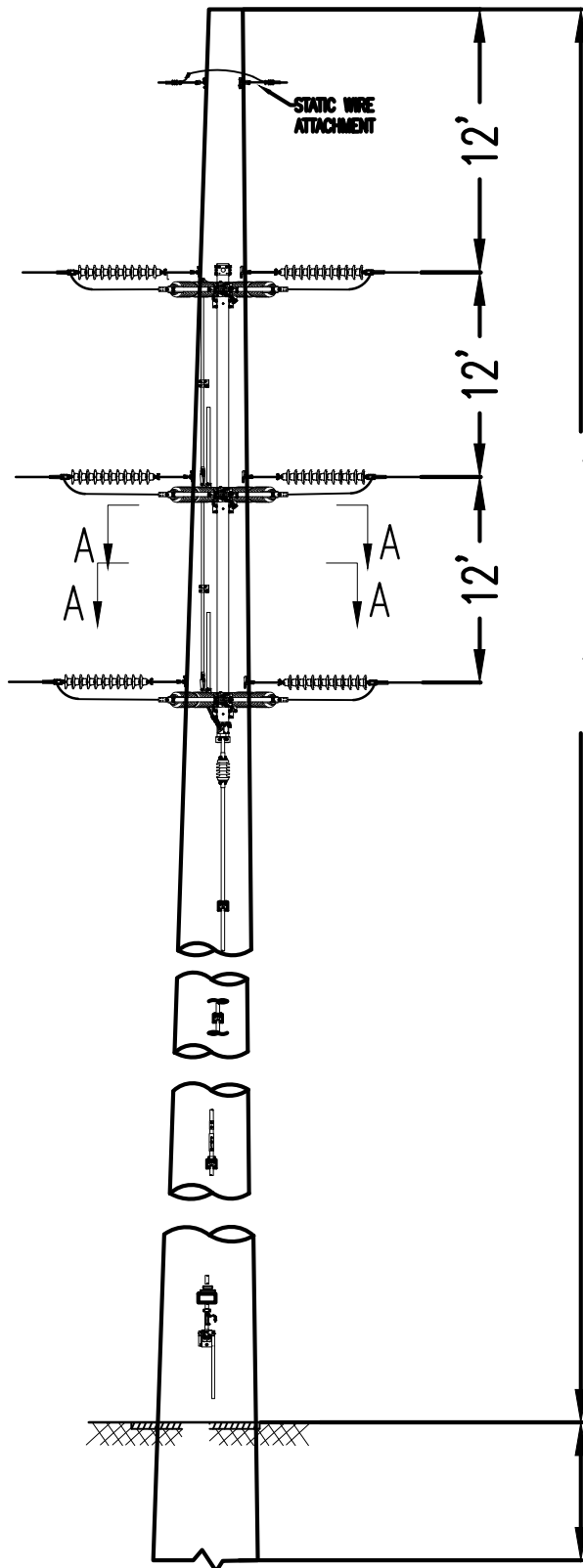


DISTRIBUTION UNDERBUILD  
(NOT APPLICABLE TO ALL  
STRUCTURES)

ELEVATION VIEW

\*\*NOT TO SCALE

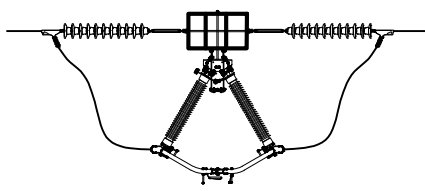
<p><b>ATSI</b><sup>®</sup> American Transmission Systems, Inc. <small>a subsidiary of FirstEnergy Corp.</small></p>	<p>CHRYSLER-MACLEAN 138kV TRANSMISSION LINE TAP TO FIRST SOLAR</p>
<p>TYPICAL WOOD POLE 138kV SWITCH</p>	
<p>EXHIBIT 9</p>	



ELEVATION VIEW

97' TO 101.5'  
ABOVE GROUND

EMBEDDED



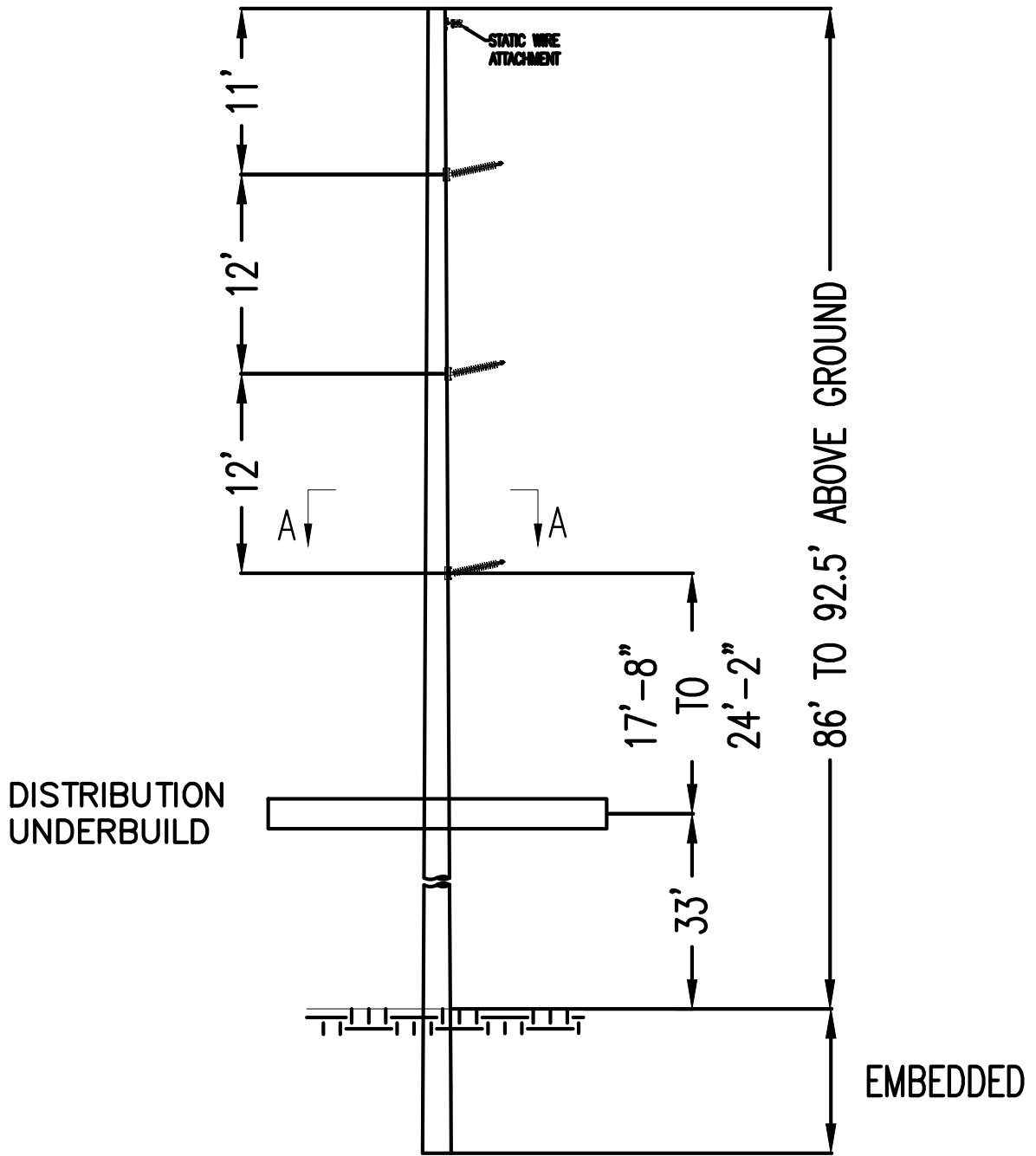
SECTION A-A

\*\*NOT TO SCALE

<p><b>ATSI</b><sup>®</sup> American Transmission Systems, Inc. <small>a subsidiary of FirstEnergy Corp.</small></p>	<p>CHRYSLER-MACLEAN 138kV TRANSMISSION LINE TAP TO FIRST SOLAR</p>
<p>TYPICAL LAMINATED WOOD POLE 138kV SWITCH</p>	
<p>EXHIBIT 10</p>	



SECTION A-A



ELEVATION VIEW

\*\*NOT TO SCALE



CHRYSLER-MACLEAN 138kV  
TRANSMISSION LINE  
TAP TO FIRST SOLAR

TYPICAL VERTICAL HORIZONTAL POST  
TANGENT

EXHIBIT 11

---

**Chrysler-Maclean 138 kV Transmission Lines Tap to First Solar Project  
Case Number 18-1681-EL-BLN**

---

**Exhibit 12  
GAI Cultural and Environmental Report**



Pittsburgh Office  
385 East Waterfront Drive  
Homestead, Pennsylvania 15120-5005

T 412.476.2000  
F 412.476.2020

December 21, 2018

Project C180941.00, Task 003

Mr. William Beutler  
FirstEnergy Corporation  
76 South Main Street  
Akron, Ohio 44308-1812

**Summary of Findings  
Chrysler-Maclean 138 kV Line Tap  
to First Solar Substation Project  
Lake and Perrysburg Townships, Wood County, Ohio**

Dear Mr. Beutler:

GAI Consultants, Inc. (GAI) has conducted a literature review and consulted with regulatory agencies regarding FirstEnergy Corporation's proposed Chrysler-Maclean 138 kV Line Tap to First Solar Substation Project (Project) located in Lake and Perrysburg Townships, Wood County, Ohio (OH) in support of a Letter of Notification filing with the Ohio Power and Siting Board. The Project Location Map is included in Attachment 1. Below and attached is a summary of the findings.

GAI submitted an online review of the United States Fish and Wildlife Service's Information for Planning and Consultation (IPaC) on November 14, 2018. The IPaC identified the Indiana bat (*Myotis sodalis*), and Northern long-eared bat (*Myotis septentrionalis*) as potentially within the Project area. Neither species have critical habitat within the Project Area. The results are shown in the official species list in Attachment 2. The OH Department of Natural Resources (ODNR) maintains a record of state-listed species organized by county on their website that is available to the public. The state-listed species for Wood County, OH are included in Attachment 3. Given the Project area is located adjacent to public road rights-of-way for a majority of its length with the remainder located within First Solar's property, Project activities are not likely to impact to these species. GAI also submitted an initial consultation letter to ODNR on November 19, 2018 to obtain information concerning potential for protected species occurrences in the proposed Project area. The letter and mapping are included in Attachment 4 and the response will be forwarded upon receipt.

GAI conducted an environmental resource survey of the Project area on November 15 and December 21, 2018. No potentially-jurisdictional wetlands or streams were identified in the study area but a roadside drainage feature and multiple stormwater drainages were identified along the south side of Avenue Road. A stormwater pond was also identified southwest of the Route 795 (Avenue Road) and Oregon Road intersection. A Field Report Memo and map detailing the findings is provided in Attachment 5.

GAI conducted background research using the OH Historic Preservation Office's (OHPO's) Online Mapping System on November 13, 2018. One cemetery and one prehistoric archaeological resource were found within 0.5-mile of the proposed centerline. OHPO records indicate a low confidence in the location of the cemetery and review of the Ohio Genealogical Society website indicates that the cemetery is identified as being located in Section 17 of the Public Land Survey System, while the Project area is located in Sections 18 and 19, as shown on the Project Location Map provided in Attachment 1. Therefore, impacts to the cemetery are not anticipated. The previously recorded archaeological resource is not located within the Project area and both resources have a National Register of Historic Places status of Unevaluated. A table and mapping detailing the cultural resource findings are included in Attachment 6.

Given that potentially-jurisdictional streams or wetlands were not identified within the Project area and expected construction methods it is anticipated that Project activities as planned are likely to avoid the need to obtain federal and state waterbody and wetland permit approvals. However, it is anticipated that Project activities will result in greater than one-acre of land disturbance and that a Notice of Intent for Coverage Under OH Environmental Protection Agency General National Pollutant Discharge Elimination System Permit for Discharges of Storm Water Associated with Construction Activity (OHC000005) will be needed. The NOI will include a Stormwater Pollution and Prevention Plan (SWPPP), which, based on review of county regulations, it is understood that the SWPPP is to be reviewed and approved by Wood County prior to construction. The review has an approximately 30-day timeframe.

These findings are limited to GAI's review of proposed design files along with publicly-available data and regulations as of December 21, 2018. If there are changes to the proposed facility locations, or design or construction methods as described herein, we should be informed so that the findings may be reviewed and modified, if necessary.

Sincerely,  
**GAI Consultants, Inc.**

Lawrence J. Peterson, Jr.  
Assistant Environmental Manager

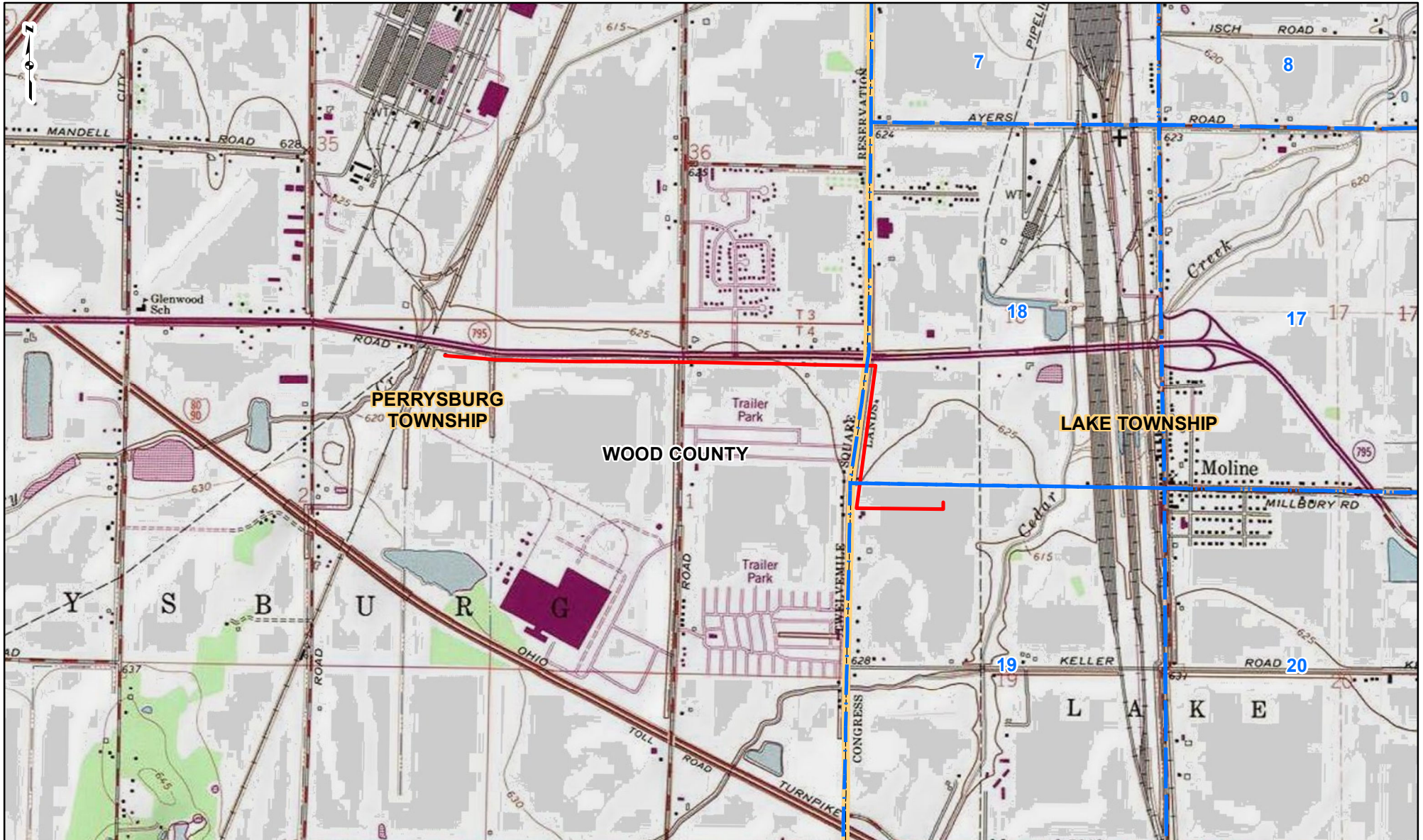
Lisa J. Keck, EIT  
Assistant Environmental Director

LP:LJK/gmg

Attachments: Attachment 1 (Project Location Map), Attachment 2 (IPaC Official Species List), Attachment 3 (ODNR State-Listed Wildlife Species for Wood County, OH), Attachment 4 (ODNR Initial Consultation Letter), Attachment 5 (Field Report Memo), and Attachment 6 (Cultural Resources Previously-Recorded Features)

**ATTACHMENT 1**  
**PROJECT LOCATION MAP**





**PROJECT LOCATION**

WOOD COUNTY, OHIO

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ROSSFORD (1980) AND WALBRIDGE (1980), OHIO, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND USGS, ACCESSED 12/2018.

**LEGEND**

- ROUTE ALIGNMENT
- PUBLIC LAND SURVEY SYSTEM SECTION
- MUNICIPAL BOUNDARY
- COUNTY BOUNDARY

0 1,000 2,000 4,000 Feet

**PROJECT LOCATION MAP**

CHRYSLER-MACLEAN 138 KV LINE TAP TO FIRST SOLAR SUBSTATION

AMERICAN TRANSMISSION SYSTEMS INCORPORATED (ATSI)

gai consultants

DRAWN BY: CJW DATE: 12/19/2018  
 CHECKED: MDO APPROVED: LJP

**ATTACHMENT 2**  
**IPAC OFFICIAL SPECIES LIST**



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Ohio Ecological Services Field Office  
4625 Morse Road, Suite 104  
Columbus, OH 43230-8355  
Phone: (614) 416-8993 Fax: (614) 416-8994

In Reply Refer To:

November 14, 2018

Consultation Code: 03E15000-2019-SLI-0275

Event Code: 03E15000-2019-E-00296

Project Name: Chrysler-Maclean 138kV Line Tap to First Solar Substation

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

**Migratory Birds:** In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/BirdHazards.html>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <http://www.fws.gov/migratorybirds/AboutUS.html>.

---

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Ohio Ecological Services Field Office**

4625 Morse Road, Suite 104

Columbus, OH 43230-8355

(614) 416-8993

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## Project Summary

Consultation Code: 03E15000-2019-SLI-0275

Event Code: 03E15000-2019-E-00296

Project Name: Chrysler-Maclean 138kV Line Tap to First Solar Substation

Project Type: TRANSMISSION LINE

Project Description: Project consists of the construction of approximately 6,000 feet of transmission tap line within the public road right of way of route 795 within an approximately 60-foot-wide corridor with access to be provided by way of public roadways directly onto the corridor.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/41.561173313266885N83.52761577631969W>



Counties: Wood, OH

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## Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## Mammals

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a>	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> <li>▪ Incidental take of the northern long-eared bat is not prohibited at this location. Federal action agencies may conclude consultation using the streamlined process described at <a href="https://www.fws.gov/midwest/endangered/mammals/nleb/s7.html">https://www.fws.gov/midwest/endangered/mammals/nleb/s7.html</a></li> </ul> Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

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**ATTACHMENT 3**  
**ODNR STATE-LISTED WILDLIFE SPECIES FOR WOOD COUNTY, OH**

## WOOD COUNTY

State Status	Federal Status	County	Category	Species	CommonName	Sensitive Species	Most Recent Record	FWS
<b>Endangered</b>		<b>Wood</b>	<b>Amphibian - Salamander</b>	<b>Ambystoma laterale</b>	<b>Blue-spotted Salamander</b>	<b>Yes</b>	<b>1966</b>	
Endangered		Wood	Bird	Bartramia longicauda	Upland Sandpiper	No	1994	
Endangered		Wood	Bird	Chondestes grammacus	Lark Sparrow	No	2014	
Endangered		Wood	Bird	Circus cyaneus	Northern Harrier	No	1996	
Endangered		Wood	Fish	Fundulus diaphanus menona	Western Banded Killifish	No	2008	
Endangered		Wood	Insect - butterfly	Speyeria idalia	Regal Fritillary	No	1940	
Endangered	Endangered	Wood	Invert. - fw bivalve	Pleurobema clava	Clubshell	No	1962	
Endangered		Wood	Invert. - fw bivalve	Toxolasma lividus	Purple Lilliput	No	1962	
<b>Endangered</b>	<b>Endangered</b>	<b>Wood</b>	<b>Mammal</b>	<b>Myotis sodalis</b>	<b>Indiana Myotis</b>	<b>Yes</b>		*
Threatened		Wood	Bird	Nycticorax nycticorax	Black-crowned Night-Heron	No	1994	
Threatened		Wood	Invert. - fw bivalve	Uniomerus tetralasmus	Pondhorn	No	2008	
<b>Threatened</b>		<b>Wood</b>	<b>Reptile - Turtle</b>	<b>Clemmys guttata</b>	<b>Spotted Turtle</b>	<b>Yes</b>	<b>2008</b>	
Species of Concern		Wood	Amphibian - Frog / Toad	Acris crepitans crepitans	Eastern Cricket Frog	No	2011	
Species of Concern		Wood	Amphibian - Salamander	Hemidactylium scutatum	Four-toed Salamander	No	1963	
Species of Concern		Wood	Bird	Accipiter striatus	Sharp-shinned Hawk	No	2005	
Species of Concern		Wood	Bird	Ardea alba	Great Egret	No	2014	
Species of Concern		Wood	Bird	Colinus virginianus	Northern Bobwhite	No	2009	
Species of Concern		Wood	Bird	Dolichonyx oryzivorus	Bobolink	No	2014	
Species of Concern		Wood	Bird	Protonotaria citrea	Prothonotary Warbler	No	2007	
Species of Concern		Wood	Fish	Esox masquinongy	Muskellunge	No	1993	
Species of Concern		Wood	Invert. - fw bivalve	Cyclonaias tuberculata	Purple Wartback	No	1967	
Species of Concern		Wood	Invert. - fw bivalve	Lasmigona compressa	Creek Heelsplitter	No	2010	
Species of Concern		Wood	Invert. - fw bivalve	Ptychobranchnus fasciolaris	Kidneyshell	No	1936	
Species of Concern		Wood	Invert. - fw bivalve	Truncilla truncata	Deertoe	No	2010	
Species of Concern		Wood	Mammal	Condylura cristata	Star-nosed Mole	No	1986	
Species of Concern		Wood	Mammal	Eptesicus fuscus	Big Brown Bat	No	2012	
Species of Concern		Wood	Mammal	Lasionycteris noctivagans	Silver-haired Bat	No	1971	
Species of Concern		Wood	Mammal	Lasiurus borealis	Red Bat	No	2012	
Species of Concern		Wood	Mammal	Lasiurus cinereus	Hoary Bat	No	1964	
Species of Concern		Wood	Mammal	Microtus pinetorum	Woodland Vole	No	1981	
Species of Concern		Wood	Mammal	Myotis lucifugus	Little Brown Bat	No	2012	
Species of Concern	Threatened	Wood	Mammal	Myotis septentrionalis	Northern Long-eared Bat	No	2012	
Species of Concern		Wood	Mammal	Peromyscus maniculatus	Deer Mouse	No	1987	
Species of Concern		Wood	Mammal	Taxidea taxus	Badger	No	2007	
Species of Concern		Wood	Reptile - Turtle	Terrapene carolina carolina	Eastern Box Turtle	No	2013	
Special Interest		Wood	Bird	Empidonax minimus	Least Flycatcher	No	1993	
Special Interest		Wood	Bird	Junco hyemalis	Dark-eyed Junco	No	2007	
Extirpated		Wood	Invert. - fw bivalve	Actinonaias ligamentina ligamentina	Mucket	No	1968	

**ATTACHMENT 4**  
**ODNR INITIAL CONSULTATION LETTER**



Pittsburgh Office  
385 East Waterfront Drive  
Homestead, Pennsylvania 15120-5005

T 412.476.2000  
F 412.476.2020

November 21, 2018

Project C180941.00, Task 003

Environmental Review Staff  
Ohio Department of Natural Resources  
Division of Wildlife - Ohio Natural Heritage Program  
2045 Morse Road, Building G-3  
Columbus, Ohio 43229-6693

**Threatened and Endangered Species and Critical Habitat Consultation  
FirstEnergy Service Company  
Chrysler-Maclean 138kV Line Tap to First Solar Substation  
Lake and Perrysburg Townships, Wood County, Ohio**

Dear Staff:

GAI Consultants, Inc. (GAI) is assisting FirstEnergy (FE) in the siting and permitting of the proposed Chrysler-Maclean 138kV Line Tap to First Solar Substation (Project) located in Wood County, Ohio. FE proposes the construction of approximately 1.84 miles of a new transmission tap line to be located within an approximately 60-foot-wide corridor with access to be provided by way of public roadways directly onto the corridor. The majority of the Project is proposed to be located within existing and previously disturbed areas which are adjacent to Ohio State Route 795 and Tracy Road for approximately 1.58 miles of its length with the remainder being located within the Project area of the First Solar facility. The proposed route is shown on the Project Location Map provided in Attachment 1.

**GAI is requesting information concerning the identification of rare, threatened, and endangered species, their critical habitat, or significant biological features that are crossed by the proposed route or would have potential to be impacted by the Project, as shown on the Project Location Map.**

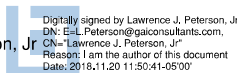
For your use, Geographic Information System shapefiles of the proposed route has been included in a zip file attached to the email.

GAI and FE appreciate your cooperation on this Project. Should you have questions or concerns, please feel free to contact either Mr. William Beutler of FE at 330.384.2740 or [wbeutler@firstenergycorp.com](mailto:wbeutler@firstenergycorp.com); or me at 412.399.5268 or [l.peterson@gaiconsultants.com](mailto:l.peterson@gaiconsultants.com).

Sincerely,

**GAI Consultants, Inc.**

Lawrence J. Peterson, Jr.



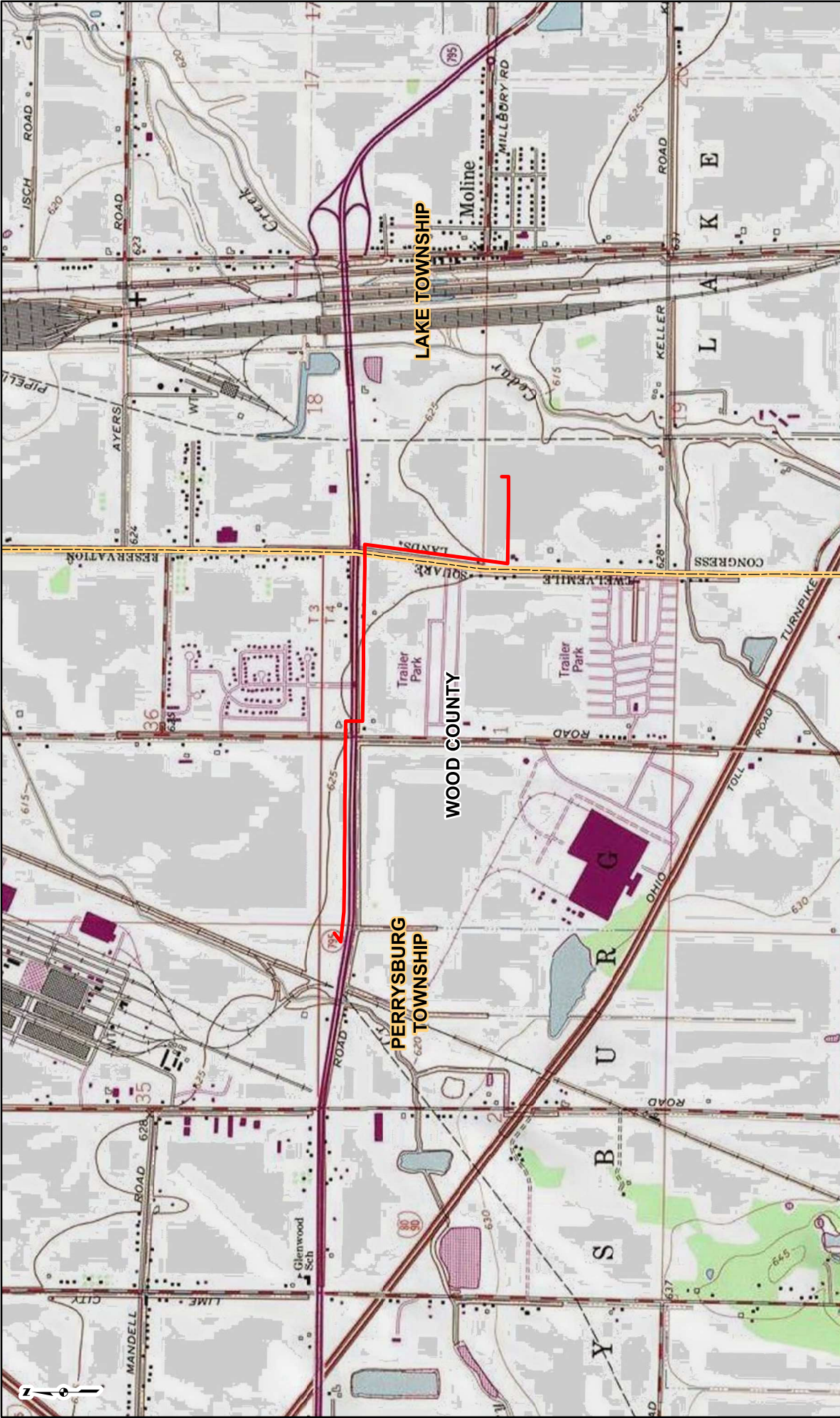
Lars Peterson  
Assistant Environmental Manager

LP/djz


Attachments: Attachment 1 (Project Location Map) and Project Shapefiles

cc: Mr. William R. Beutler, FE

**ATTACHMENT 1**  
**PROJECT LOCATION MAP**



**PROJECT LOCATION**



WOOD COUNTY, OHIO

**PROJECT LOCATION MAP**

CHRYSLER-MACLEAN 138 KV LINE TAP  
TO FIRST SOLAR SUBSTATION

gal consultants  
FIRSTENERGY

DRAWN BY: CJW DATE: 11/19/2018  
CHECKED: MDO APPROVED: LJP

**LEGEND**

- ROUTE ALIGNMENT
- MUNICIPAL BOUNDARY
- COUNTY BOUNDARY

0 1,000 2,000 4,000 Feet

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ROSSFORD (1980) AND WALBRIDGE (1980), OHIO, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND USGS, ACCESSED 11/2018.

**ATTACHMENT 5**  
**FIELD REPORT MEMO**

# Field Report Memo

Date:	December 21, 2018
Trip Date(s):	November 15 and December 21, 2018
Project No.	C180941.00, Task 003
To:	Mr. William Beutler, FirstEnergy Corporation
From:	Lars Peterson, Assistant Environmental Manager, GAI Consultants, Inc.
cc:	Lisa J. Keck, Assistant Environmental Director, GAI Consultants, Inc.
Subject:	Chrysler-Maclean 138 kV Line Tap to First Solar Substation

## Summary of Events

On November 15 and December 21, 2018 GAI Consultants, Inc. (GAI), on behalf of American Transmission Systems Incorporated (ATSI), conducted an environmental review to locate sensitive environmental resources including wetlands and streams within a 60-foot-wide study area along approximately 1.8 miles of proposed transmission line for the proposed Chrysler-Maclean 138 kV Line Tap to First Solar Substation (Project) in Wood County, Ohio. This Project will be a tap line from the existing Chrysler-MacLean 138 kV Transmission Line to the new proposed First Solar Substation, which is currently under construction. GAI conducted this review for ecological features by visual observations from public access locations, considering resource delineation protocols to improve the accuracy of the assessment.

The Project's study area included the proposed location of the electric transmission line located adjacent to State Road 795 and Tracy Road. Review of existing publicly available data indicates that the Project area is within the Cedar Creek-Frontal Lake Erie HUC 12 Watershed (041000100703) and not within a Federal Emergency Management Agency 100-Year floodplain. Adjacent land use surrounding the project study area consists of a road right-of-way, as well as agricultural, residential and industrial areas. Attachments 1 and 2 depict the project area.

### Wetland and Stream Field Review Results:

Wetlands determinations were conducted in accordance with the 1987 United States Army Corps of Engineers (USACE) *Wetlands Delineation Manual* (Environmental Laboratory, 1987) and the USACE *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (Version 2.0). Prior to the environmental field review, GAI obtained and reviewed United States Geological Survey topographic mapping, National Wetlands Inventory (NWI) database, National Hydrography Dataset (NHD), and the United States Department of Agriculture, Natural Resources Conservation Service's soil mapping to supplement the field data. No NWI wetlands or NHD streams were identified within the study area prior to the study.

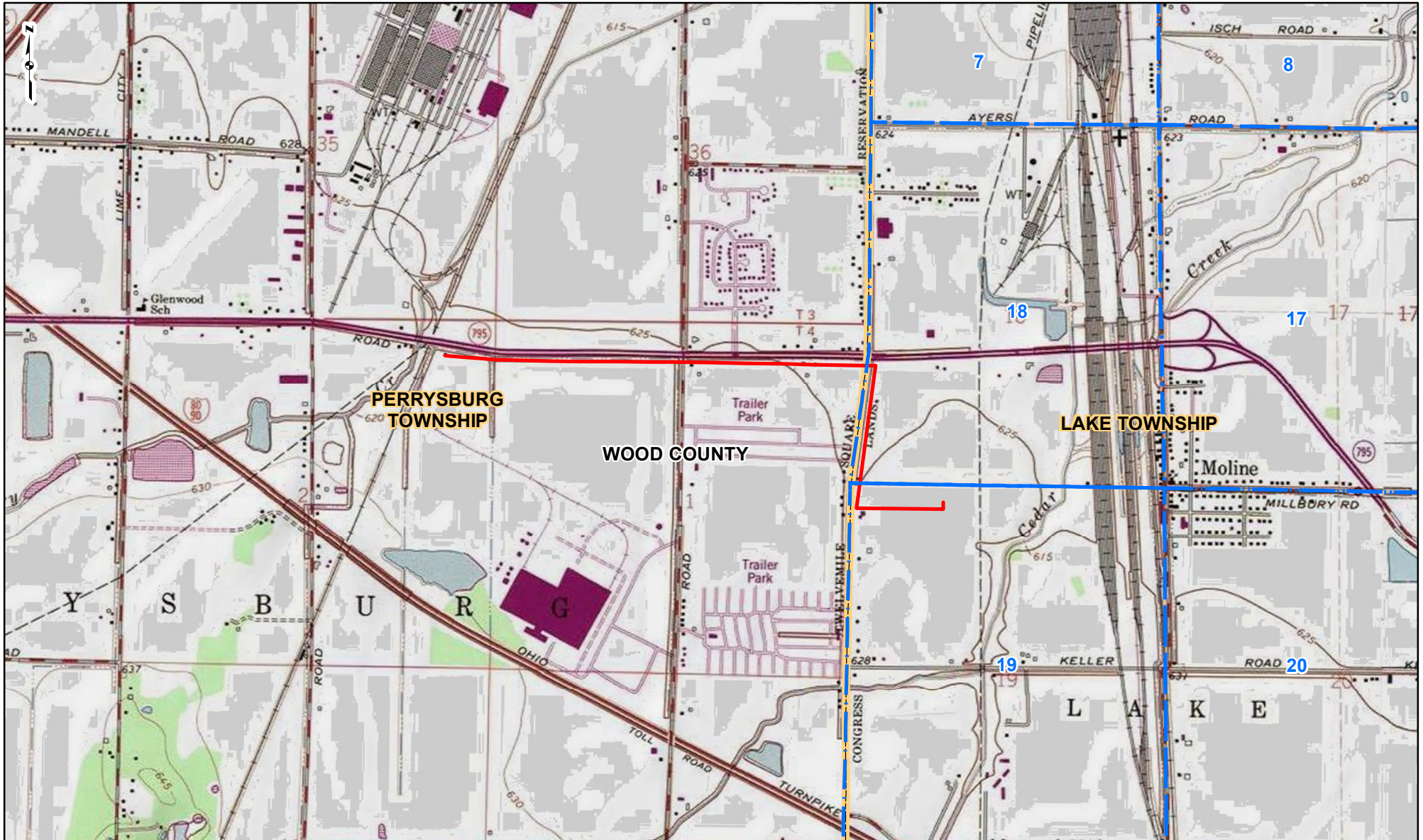
During the environmental field reviews, no potentially jurisdictional streams or wetlands were identified within the study area. Multiple stormwater drainage features and a stormwater pond were identified south of State Road 795. Pictures of the drainage features and stormwater pond are shown in Attachment 3.

The results of the wetland and stream review are displayed on the Resource Location Map in Attachment 2 and representative photographs are provided in Attachment 3.



# Field Report Memo

## **ATTACHMENT 1 PROJECT LOCATION MAP**



**PROJECT LOCATION**

WOOD COUNTY, OHIO

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ROSSFORD (1980) AND WALBRIDGE (1980), OHIO, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND USGS, ACCESSED 12/2018.

**LEGEND**

- ROUTE ALIGNMENT
- PUBLIC LAND SURVEY SYSTEM SECTION
- MUNICIPAL BOUNDARY
- COUNTY BOUNDARY

0 1,000 2,000 4,000 Feet

**PROJECT LOCATION MAP**

CHRYSLER-MACLEAN 138 KV LINE TAP TO FIRST SOLAR SUBSTATION

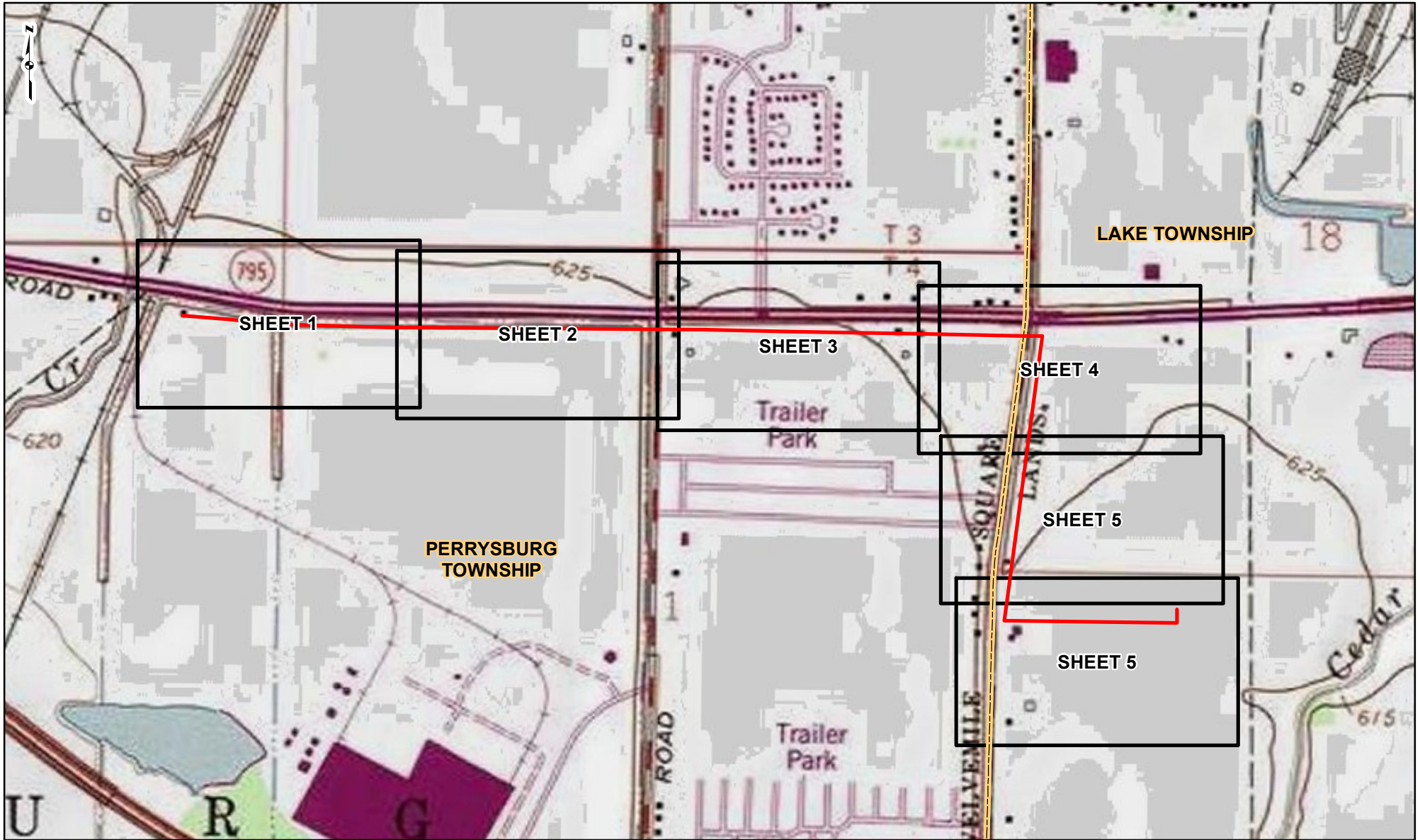
AMERICAN TRANSMISSION SYSTEMS INCORPORATED (ATSI)

gai consultants

DRAWN BY: CJW DATE: 12/19/2018  
 CHECKED: MDO APPROVED: LJP

# Field Report Memo

## ATTACHMENT 2 RESOURCE LOCATION MAP



**PROJECT LOCATION**

WOOD COUNTY, OHIO

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ROSSFORD (1980) AND WALBRIDGE (1980), OHIO, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND USGS, ACCESSED 12/2018.

**LEGEND**

- ROUTE ALIGNMENT
- SHEET INDEX
- MUNICIPAL BOUNDARY

0 500 1,000 2,000 Feet

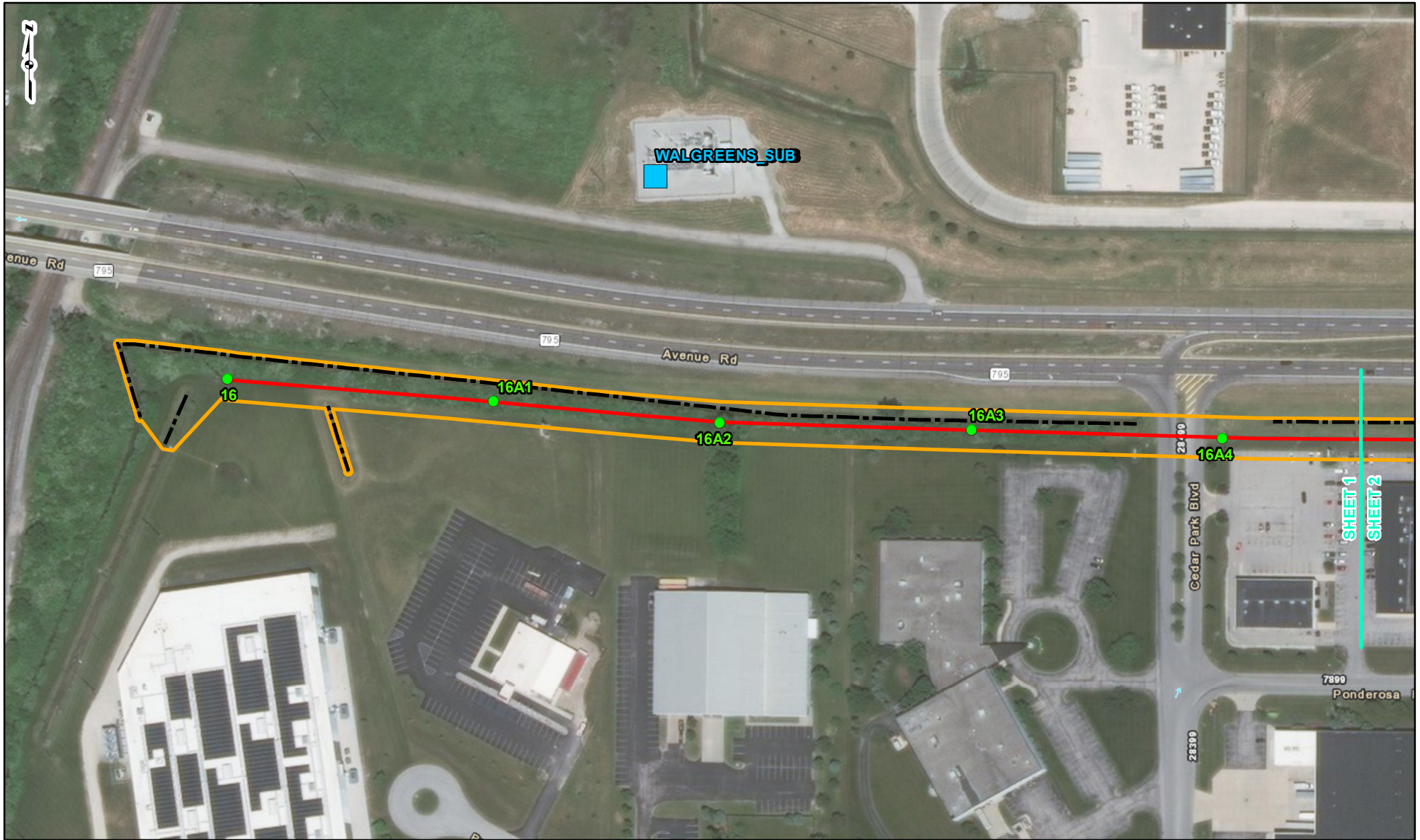
**RESOURCE LOCATION MAP SHEET INDEX**

CHRYSLER-MACLEAN 138 KV LINE TAP TO FIRST SOLAR SUBSTATION

**AMERICAN TRANSMISSION SYSTEMS INCORPORATED (ATSI)**

gai consultants American Transmission Systems, Incorporated a subsidiary of Entegris Inc.

DRAWN BY: AEK      DATE: 12/19/2018  
 CHECKED: TDB      APPROVED: LJP



**PROJECT LOCATION**

WOOD COUNTY, OHIO

REFERENCE: ESRI WORLD IMAGERY, DIGITALGLOBE, 2017, ACCESSED 12/2018, WORLD TRANSPORTATION, ESRI, DELORME, HERE, MAPMYINDIA, TOMTOM, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY, OBTAINED THROUGH ESRI ARCGIS ONLINE, ACCESSED 12/2018.

**LEGEND**

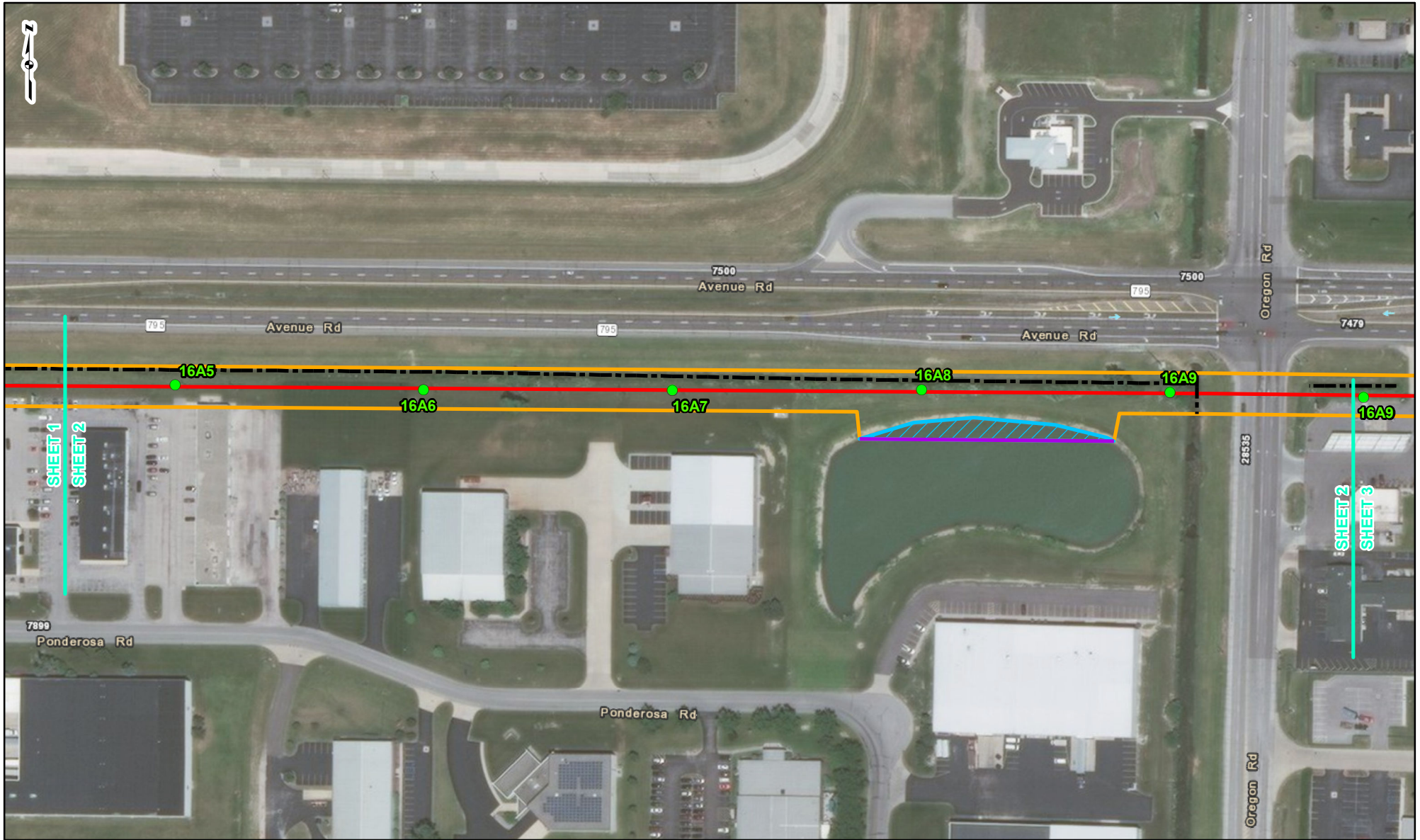
- PROPOSED STRUCTURE
- SUBSTATION
- DRAINAGE FEATURE
- ROUTE ALIGNMENT
- OPEN-ENDED BOUNDARY
- STORMWATER POND
- STUDY AREA

0 100 200 400 Feet

**RESOURCE LOCATION MAP  
SHEET 1 OF 6**

CHRYSLER-MACLEAN 138 KV LINE TAP  
TO FIRST SOLAR SUBSTATION  
AMERICAN TRANSMISSION SYSTEMS  
INCORPORATED (ATSI)

DRAWN BY: AEK      DATE: 12/21/2018  
CHECKED: TDB      APPROVED: LJP



**PROJECT LOCATION**

WOOD COUNTY, OHIO

REFERENCE: ESRI WORLD IMAGERY, DIGITALGLOBE, 2017, ACCESSED 12/2018. WORLD TRANSPORTATION, ESRI, DELORME, HERE, MAPMYINDIA, TOMTOM, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY, OBTAINED THROUGH ESRI ARCGIS ONLINE, ACCESSED 12/2018.

**LEGEND**

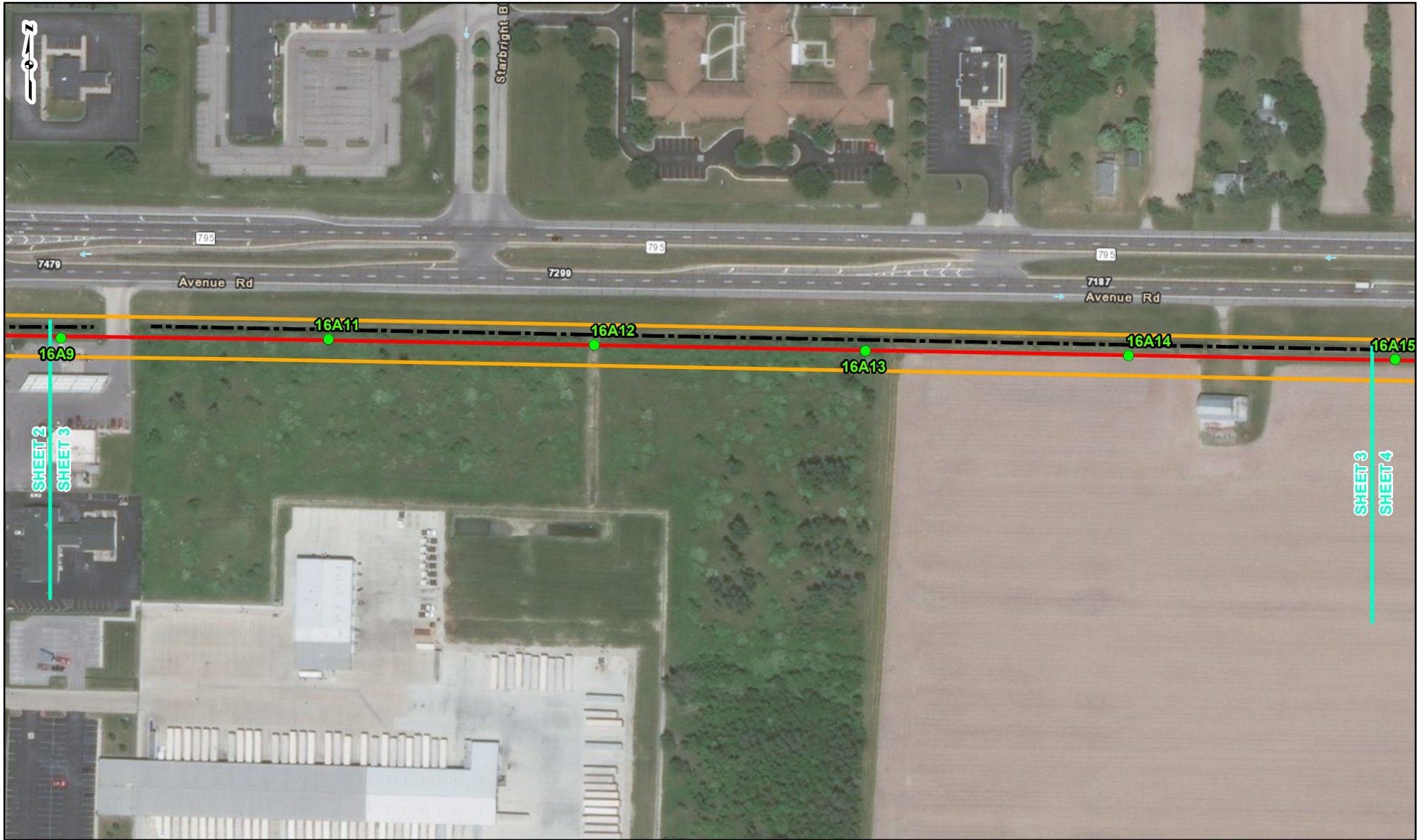
- PROPOSED STRUCTURE
- SUBSTATION
- DRAINAGE FEATURE
- ROUTE ALIGNMENT
- ▨ OPEN-ENDED BOUNDARY
- ▨ STORMWATER POND
- ▭ STUDY AREA

0 100 200 400 Feet

**RESOURCE LOCATION MAP  
SHEET 2 OF 6**

CHRYSLER-MACLEAN 138 KV LINE TAP  
TO FIRST SOLAR SUBSTATION  
AMERICAN TRANSMISSION SYSTEMS  
INCORPORATED (ATSI)

DRAWN BY: AEK      DATE: 12/21/2018  
 CHECKED: TDB      APPROVED: LJP



**PROJECT LOCATION**

WOOD COUNTY, OHIO

REFERENCE: ESRI WORLD IMAGERY, DIGITALGLOBE, 2017, ACCESSED 12/2018, WORLD TRANSPORTATION, ESRI, DELORME, HERE, MAPMYINDIA, TOMTOM, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY, OBTAINED THROUGH ESRI ARCGIS ONLINE, ACCESSED 12/2018.

**LEGEND**

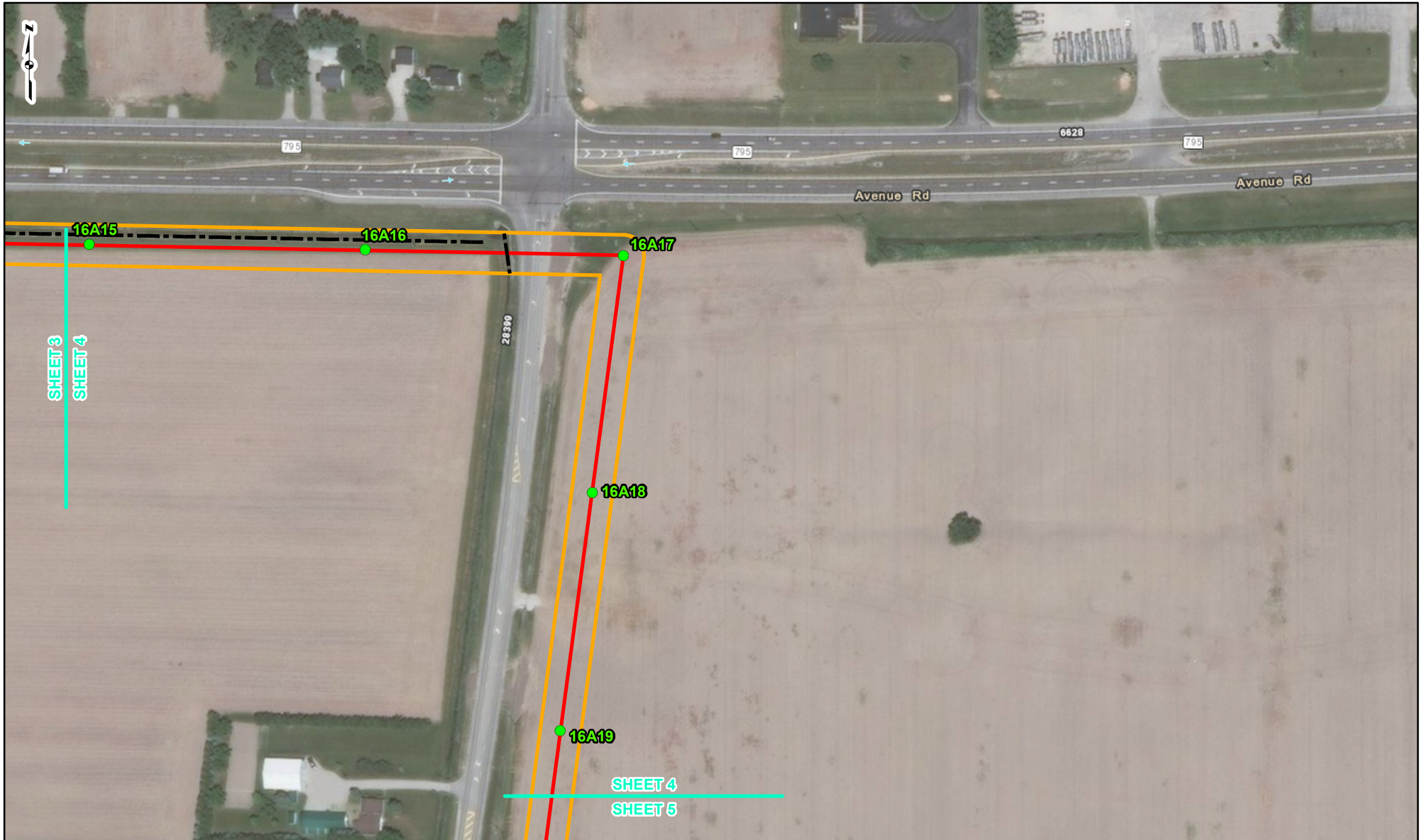
- PROPOSED STRUCTURE
- SUBSTATION
- DRAINAGE FEATURE
- ROUTE ALIGNMENT
- OPEN-ENDED BOUNDARY
- STORMWATER POND
- STUDY AREA

0 100 200 400 Feet

**RESOURCE LOCATION MAP  
SHEET 3 OF 6**

CHRYSLER-MACLEAN 138 KV LINE TAP  
TO FIRST SOLAR SUBSTATION  
AMERICAN TRANSMISSION SYSTEMS  
INCORPORATED (ATSI)

DRAWN BY: AEK      DATE: 12/21/2018  
 CHECKED: TDB      APPROVED: LJP



**PROJECT LOCATION**

WOOD COUNTY, OHIO

REFERENCE: ESRI WORLD IMAGERY, DIGITALGLOBE, 2017, ACCESSED 12/2018. WORLD TRANSPORTATION, ESRI, DELORME, HERE, MAPMYINDIA, TOMTOM, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY, OBTAINED THROUGH ESRI ARCGIS ONLINE, ACCESSED 12/2018.

**LEGEND**

- PROPOSED STRUCTURE
- SUBSTATION
- DRAINAGE FEATURE
- ROUTE ALIGNMENT
- OPEN-ENDED BOUNDARY
- STORMWATER POND
- STUDY AREA

0 100 200 400 Feet

**RESOURCE LOCATION MAP  
SHEET 4 OF 6**

CHRYSLER-MACLEAN 138 KV LINE TAP  
TO FIRST SOLAR SUBSTATION  
AMERICAN TRANSMISSION SYSTEMS  
INCORPORATED (ATSI)

gai consultants      AMERICAN TRANSMISSION SYSTEMS INCORPORATED (ATSI)

DRAWN BY: AEK      DATE: 12/21/2018  
CHECKED: TDB      APPROVED: LJP





**PROJECT LOCATION**

WOOD COUNTY, OHIO

REFERENCE: ESRI WORLD IMAGERY, DIGITALGLOBE, 2017, ACCESSED 12/2018. WORLD TRANSPORTATION, ESRI, DELORME, HERE, MAPMYINDIA, TOMTOM, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY, OBTAINED THROUGH ESRI ARCGIS ONLINE, ACCESSED 12/2018.

**LEGEND**

- PROPOSED STRUCTURE
- SUBSTATION
- DRAINAGE FEATURE
- ROUTE ALIGNMENT
- OPEN-ENDED BOUNDARY
- STORMWATER POND
- STUDY AREA

0 100 200 400 Feet

**RESOURCE LOCATION MAP  
SHEET 5 OF 6**

CHRYSLER-MACLEAN 138 KV LINE TAP  
TO FIRST SOLAR SUBSTATION  
AMERICAN TRANSMISSION SYSTEMS  
INCORPORATED (ATSI)

DRAWN BY: AEK      DATE: 12/21/2018  
CHECKED: TDB      APPROVED: LJP



**PROJECT LOCATION**

WOOD COUNTY, OHIO

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**LEGEND**

- PROPOSED STRUCTURE
- SUBSTATION
- DRAINAGE FEATURE
- ROUTE ALIGNMENT
- OPEN-ENDED BOUNDARY
- ▨ STORMWATER POND
- ▭ STUDY AREA

0 100 200 400 Feet

**RESOURCE LOCATION MAP SHEET 6 OF 6**

CHRYSLER-MACLEAN 138 KV LINE TAP TO FIRST SOLAR SUBSTATION

AMERICAN TRANSMISSION SYSTEMS INCORPORATED (ATSI)

**ATSI**  
American Transmission Systems, Incorporated  
a wholly owned subsidiary of Entergy Inc.

gai consultants

DRAWN BY: AEK      DATE: 12/21/2018  
CHECKED: TDB      APPROVED: LJP

# Field Report Memo

## **ATTACHMENT 3** **PHOTOGRAPHS**

# Field Report Memo



**Photograph 1. Facing east near First Solar Facility.  
(November 15, 2018)**



**Photograph 2. Stormwater drainage feature along State Route 795 facing west.  
(November 15, 2018)**

# Field Report Memo



**Photograph 3: Stormwater Pond south of State Route 795 facing west.  
(December 21, 2018)**



**Photograph 4: Stormwater Drainage Feature south of State Route 795 facing east.  
(December 21, 2018)**

**ATTACHMENT 6**  
**CULTURAL RESOURCES PREVIOUSLY-RECORDED FEATURES**



State Historic  
Preservation Office

**Legend**

NR Listings

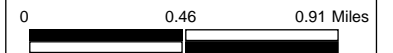
- Listed
- ⊙ National Historic Landmark
- ✘ Delisted

- ◆ NR Determinations of Eligibi
- Historic Structures
- Historic Bridges
- Historic Tax Credit Projects

OGS Cemeteries

- ⊕ Confident
- ⊕ Not Confident

- NR Boundaries
- Historic Previously Surveyec



1: 36,112

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This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Datum: [Datum]  
Projection: WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere



**Attachment 6**  
**Cultural Resources Previously-Recorded Features**

<b>ID</b>	<b>Type</b>	<b>NRHP Status</b>
W00015	Prehistoric	Unevaluated
14327	Historic Cemetery	Unevaluated