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**AMERICAN TRANSMISSION SYSTEMS, INCORPORATED
A SUBSIDIARY OF FIRSTENERGY CORP.**

**LETTER OF NOTIFICATION
CHRYSLER-MACLEAN 138 kV
TRANSMISSION LINE SWITCH STRUCTURE
REPLACEMENT PROJECT**

OPSB CASE NO. 13-1153-EL-BLN

May 9, 2013

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

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**LETTER OF NOTIFICATION
CHRYSLER-MACLEAN 138kV TRANSMISSION
LINE SWITCH STRUCTURE REPLACEMENT PROJECT**

The following information is being provided in accordance with the procedures delineated in Ohio Administrative Code Section 4906-11-01: Letter of Notification Requirements of the Rules and Regulations of the Ohio Power Siting Board.

4906-11-01 (B): Need Statement

4906-11-01 (B) (1) a.: Name and Reference Number

Name of Project: Chrysler-Maclean 138 kV Transmission Line Switch
Structure Replacement Project ("Project")

2013 LTFR Reference: This project is not identified in the FirstEnergy Corp. 2013 Long-Term Forecast Report (LTFR) submitted to the Public Utility Commission of Ohio in Case Number 13-925-EL-FOR.

4906-11-01 (B) (1) b.: Brief Description of Project

In this Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to install a single pole with a one way switch to replace part of a two way switch structure in the Chrysler-Maclean 138 kV Transmission Line. Currently, the existing two way switch structure which consists of a two way switch on one single pole is damaged. The inoperable portion of the two way switch will be removed, and the operable portion will remain. An additional single pole with a one way switch will be installed in line approximately 200 feet to the northwest of the location of the current damaged two way switch. Exhibit 1 shows the general location of the Project. Exhibit 2 shows the general layout of the Project. The new structure is shown Exhibit 3.

The Project is located approximately 0.6 miles west of the intersection of Oregon Road and Avenue Road, on the north side of Avenue Road and immediately east of the existing railroad corridor.

4906-11-01 (B) (1) c.: Why the Project Meets the Requirements for a Letter of Notification

The project meets the requirements for a Letter of Notification because the project is within the types of project defined by Item (4) (a) of the Application Requirement Matrix for Electric Power Transmission Lines in Appendix A of 4906-1-01 of the Ohio Administrative Code which state:

- (4) Replacing electric power transmission line structure(s) with a different type of structure(s) within an existing electric power transmission line or adding structure(s) within an existing electric power transmission line and:*

(a) Two miles or less of new right-of-way required.

The proposed Project installs a single new pole switch structure to support the repair of a damaged two way switch on a single pole.

4906-11-01 (B) (2): Need for the Project

The existing two way switch was struck by lightning, which made one side of the switch inoperable. A new switch will be installed on a new pole to replace the inoperable portion of the two way switch.

4906-11-01 (B) (3): Location Relative to Existing or Proposed Lines

The location of the Project relative to existing or proposed transmission lines is shown in the FirstEnergy System Facilities map, included as the last page of Chapter 3 of the confidential portion of the FirstEnergy Corp. 2013 Long-Term Forecast Report submitted to the PUCO in case no. 13-925-EL-FOR under rules 4901:5-5:04 (C) 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 location of the 138 kV transmission line. The project area is located approximately 5 ½ inches (11 by 17 inch printed version) from the left edge of the map box and 9 inches (11 by 17 inch printed version) from the bottom of the map box.

The general location and layout of the Project are shown in Exhibits 1 and 2 respectively.

4906-11-01 (B) (4): Alternatives Considered

There were no alternatives considered.

4906-11-01 (A) (B): Construction Schedule

Construction of the project is expected to begin as early as June 10, 2013 and be completed by June 30, 2013.

4906-11-01 (B) (6): Area Map

Exhibit 1 depicts the General Project Location of the Project. To locate and view the Project site from the Columbus, Ohio area, travel north on OH-315 approximately 11 miles. Take the exit onto I-270 E toward Cleveland and take exit 23 to merge onto US-23 N/N High St toward Delaware and go approximately 67 miles. Continue onto OH-15 W for approximately 17 miles. Follow I-75 N for approximately 38 miles. Take exit 195 for Ohio 795 toward Perrysburg. Turn right onto OH-795 E/ Avenue Rd/ Indiana Rd and go approximately 2.5 miles and make a U-turn at Oregon Road. The destination will be on the right hand side of the road.

4906-11-01 (B) (7): Property Owner List

The new single pole switch structure will be located in existing right of way. No additional land rights are needed for this Project.

4906-11-01 (C): Technical Features of the Project

4906-11-01 (C) (1): Operating Characteristics

The Transmission Line with the structure replacement will have the following characteristics:

Voltage:	138 kV
Conductors:	954 kcmil 37 Strand AA
Static wire:	7#10 AW
Insulators:	138 kV polymer dead-end insulators
New Structures:	Exhibit 3- Single Pole Switch Structure

The proposed project is located within the existing 100 foot wide right-of-way of the Chrysler-Maclean 138 kV Transmission Line, and no new right-of-way is required.

4906-11-01 (C) (2) (a): Calculated Electric and Magnetic Fields

The following table itemizes the line loading of the Chrysler-Maclean 138 kV Transmission Line. The normal line loading represents FirstEnergy's peak system load for the transmission line. The emergency line loading represents the maximum line loading under contingency operation. The winter rating is based on the continuous maximum conductor ratings (MCR) of the circuits for the 954 kcmil 37 Strand AA conductors and an ambient temperature of zero degrees centigrade (32 deg. F), wind speed of 1.3 miles per hour, and a circuit design operating temperature of 200 degrees centigrade (392 deg. F).

Line Name	Normal Loading Amps	Emergency Loading Amps	Winter Rating Amps
Chrysler-Maclean 138 kV Transmission Line	206	511	1356

The following EMF calculations were performed using the EPRI EXPOCALC 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 calculation is based on a model of the Chrysler-Maclean 138 kV Transmission Line. The model is based on a 100-foot wide right-of-way and a minimum conductor ground clearance of 24 feet.

EMF CALCULATIONS		Electric Field kV/meter	Magnet Field mGauss
Normal Loading	Under Lowest Conductors	1.12	33.16
	At Right-of-Way Edges	0.04 / 0.08	6.0 / 8.0
Emergency Loading	Under Lowest Conductors	1.12	82.24
	At Right-of-Way Edges	0.04 / 0.08	15.0 / 20.0
Winter Rating	Under Lowest Conductors	1.12	218.25
	At Right-of-Way Edges	0.04 / 0.08	39.0 / 54.0

4906-11-01 (C) (2) (b): EMF Discussion

Background Information

Electric and magnetic fields (EMFs) are naturally occurring in the environment and can be found in the Earth's interior and in the human body. EMFs are generated essentially anywhere where there is a flow of electricity, including electrical appliances and power equipment. Electric fields are associated with the voltage of the source; magnetic fields are associated with the flow of current in a wire. The strength of these fields decreases rapidly with distance from the source. EMFs associated with electricity use are not disruptive to cells like x-rays or ultraviolet rays from the sun. EMF fields are thought to be too weak to break molecules or chemical bonds in cells. Scientists have conducted extensive research over the past two decades to determine whether EMFs are associated with adverse health effects, and although the research and debate of this issue continues, at this time there is no firm basis to conclude that EMFs cause adverse health effects. A number of independent scientific panels have reviewed the research and have stated that there is no basis to conclude that EMFs cause adverse health effects nor has it been shown that levels in everyday life are harmful.

Recent Developments

As a part of the National Energy Policy Act of 1992, the Electric and Magnetic Fields Research and Public Information Dissemination (EMF RAPID) program was initiated within the five-year effort under the National EMF Research Program. The culmination of this five-year effort resulted in a final RAPID Working Group report, which was released for public review in August 1998. The Director of the National Institutes of Environmental Health Sciences (NIEHS) then prepared a final report to Congress after receiving public comments. The NIEHS' Director's final report, released to Congress on May 4, 1999, concluded that extremely low frequency electric and magnetic fields (ELF-EMF) exposure cannot be recognized at this time as entirely safe because of weak scientific evidence that exposure may pose a leukemia hazard.

The Director further stated that the conclusion of this report is insufficient to warrant aggressive regulatory concern.

Sources for Additional Information

The following websites sponsored by federal agencies or other organizations provide additional information on EMF:

- Centers for Disease Control/National Institute for Occupational Safety and Health: <http://www.cdc.gov/niosh/topics/emf/>
- National Institute of Environmental Health Sciences (NIEHS) EMF Rapid Program: <http://www.niehs.nih.gov/emfrapid/home.htm>

4906-11-01 (C) (3): Estimated Costs

The following are the estimated capital costs by FERC Accounts for the proposed project:

Account	Cost
350 Land Rights, Engineering, etc.	\$ 30,000
354 Towers and Fixtures	\$ 0
355 Poles and Fixtures	\$ 5,000
356 Overhead Conductors & Devices	\$ 15,000
<u>Removal, Engineering, Siting and Overhead</u>	<u>\$ 5,000</u>
Total	\$ 55,000

4906-11-01 D: Socioeconomic Data

4906-11-01 (D) (1): Land Use

The existing land use in the area of the Project is both commercial and multiple transportation corridors. Based on the U.S. Bureau of Census estimates, the 2010 populations of Perrysburg Township was 12,512, and Ottawa County was 125,488.

4906-11-01 (D) (2): Agricultural Land

The area within the project area is a mixture of industrial and transportation land use. The existing transmission line and new single pole switch structure will not impact agricultural land.

4906-11-01 (D) (3): Archaeological or Cultural Resources

The existing transmission line is located in an existing transmission line corridor. Given the nature of the project, it is very unlikely that any archaeological or cultural resources would be disturbed by the limited nature of installing a single new pole switch structure.

As part of ATSI's investigation of the project site, a search of the Ohio Historic Preservation Office (OHPO) National Register of Historic Places on-line database was conducted and did not identify any historic sites within the project area. Properties in the OHPO database include all Ohio listings on the National Register of Historic Places as well as districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture.

4906-11-01 (D) (4) (a): Documentation of Letter of Notification Transmittal

This Letter of Notification is being provided concurrently to the following officials of Perrysburg Township, and Wood County, Ohio.

Wood County

The Honorable James F. Carter
Wood County Commissioner
One Courthouse Square, Floor 5
Bowling Green, Ohio 43402

The Honorable Joel M. Kuhlman
Wood County Commissioner
One Courthouse Square, Floor 5
Bowling Green, Ohio 43402

The Honorable Doris I.
Herringshaw
Wood County Commissioner
One Courthouse Square, Floor 5
Bowling Green, Ohio 43402

Mr. Raymond A. Huber, P.E., P.S.
Wood County Engineer
One Courthouse Square, Floor 3
Bowling Green, Ohio 43402

Perrysburg Township

Mr. Craig A. LaHote
Chair of Perrysburg Township
Trustees
26609 Lime City Road
Perrysburg, Ohio 43551

Mr. Gary R. Britten
Perrysburg Township Trustee
26609 Lime City Road
Perrysburg, Ohio 43551

Mr. Robert P. Mack
Perrysburg Township Trustee
26609 Lime City Road
Perrysburg, Ohio 43551

Ms. Shirley A. Haar
Perrysburg Township Fiscal
Officer
26609 Lime City Road
Perrysburg, Ohio 43551

Copies of the transmittal letters to these officials has been included with the transmittal letter submitting this Letter of Notification to the Ohio Power Siting Board.

4906-11-01 (D) (4) (b): Public Information Program

Toledo Edison's Manager of External Affairs will advise local officials of features and the status of the proposed transmission line Project as necessary.

4906-11-01 (D) (5): Current or Pending Litigation

There is no known current or pending litigation involving this project.

4906-11-01 (D) (6): Local, State, and Federal Requirements

There are no other known local, state, or federal requirements that must be met prior to commencement of construction of the proposed transmission line project.

4906-11-01 (E): Environmental Data

4906-11-01 (E) (1): Endangered, Threatened, and Rare Species Investigation

As part of our investigation, a request was submitted to the Ohio Department of Natural Resources (ODNR) on May 7, 2013 to research the presence of any endangered, threatened, or rare species within the project area. The ODNR's response of May 8, 2013, attached as Exhibit 4, indicated that they have no records of rare or endangered species within one half mile of the identified Project area.

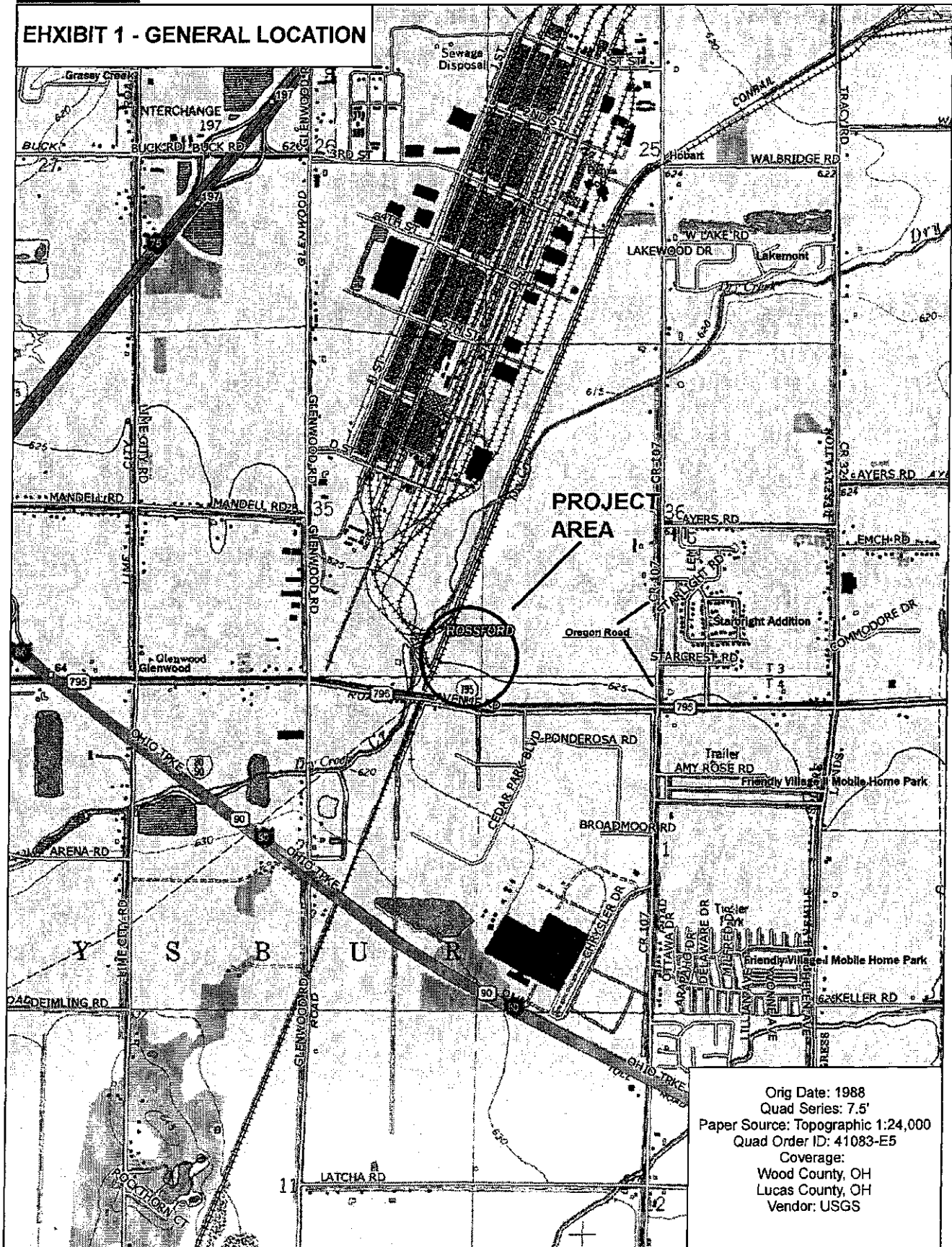
4906-11-01 (E) (2): Areas of Ecological Concern

A visual assessment of the Project area did not identify any areas of ecological concern in the immediate vicinity of the Project.

4906-11-01 (E) (3): Additional Information

Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the NESC as adopted by the PUCO and will meet all applicable safety standards established by OSHA.

EXHIBIT 1 - GENERAL LOCATION

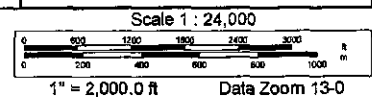


Orig Date: 1988
 Quad Series: 7.5'
 Paper Source: Topographic 1:24,000
 Quad Order ID: 41083-E5
 Coverage:
 Wood County, OH
 Lucas County, OH
 Vendor: USGS

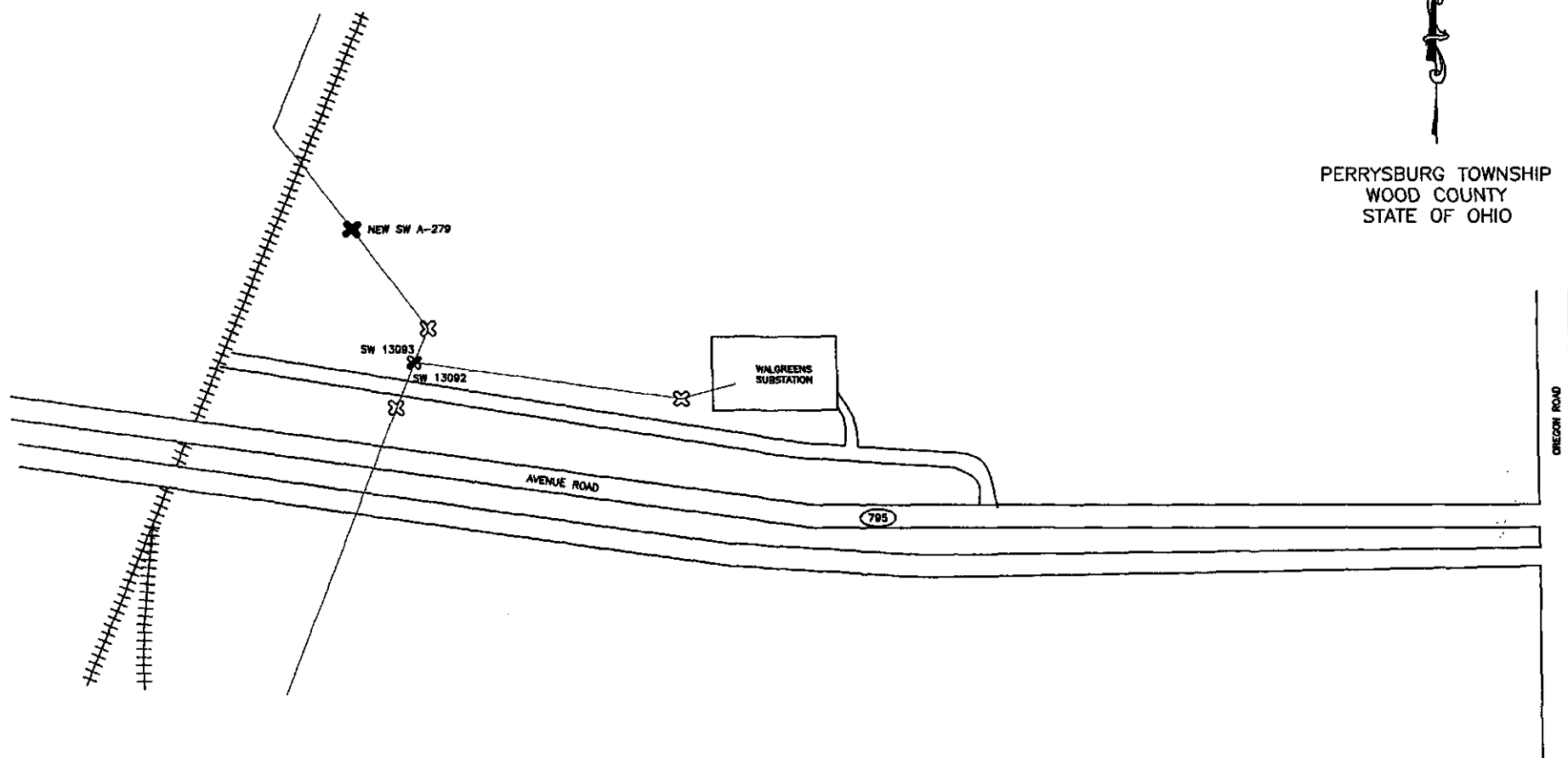
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PERRYSBURG TOWNSHIP
WOOD COUNTY
STATE OF OHIO



LEGEND

-  PROPOSED TRANSMISSION POLE
-  EXISTING POLE TO REMAIN
-  EXISTING POLE TO BE ADJUSTED
-  EXISTING ANCHOR TO REMAIN
-  EXISTING TRANSMISSION LINE TO REMAIN

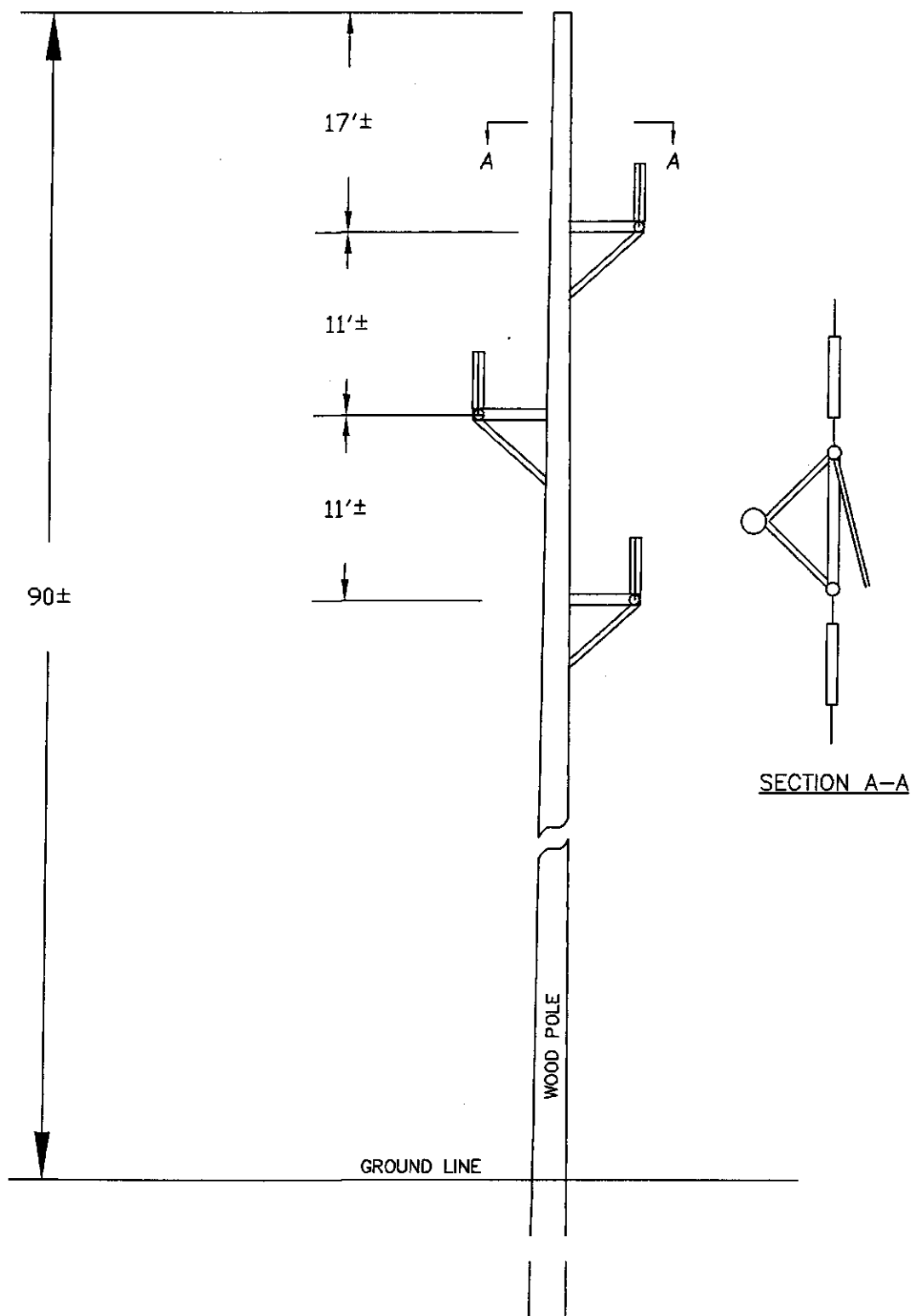
ATSI

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

CHRYSLER-MACLEAN 138 kV
TRANSMISSION LINE SWITCH
STRUCTURE REPLACEMENT PROJECT

GENERAL LAYOUT

EXHIBIT 2



ATSI

American Transmission Systems, Inc.
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CHRYSLER-MACLEAN 138 kV
TRANSMISSION LINE SWITCH
STRUCTURE REPLACEMENT PROJECT

NEW SWITCH STRUCTURE

EXHIBIT 3



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Ohio Division of Wildlife
Scott Zody, Chief
2045 Morse Rd., Bldg. G
Columbus, OH 43229-6693

May 8, 2013

Scott Humphrys
FirstEnergy
76 South Main Street
Akron, OH 44308

Dear Mr. Humphrys

After reviewing the Natural Heritage Database, I find the Division of Wildlife has no records of rare or endangered species in the Chrysler-Maclean Switch Project area, including a one mile buffer, in Perrysburg Township, Wood County, Ohio. We are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges, parks or forests or other protected natural areas within a one mile radius of the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although we inventory all types of plant communities, we only maintain records on the highest quality areas.

This letter only represents a review of rare species and natural features data within the Ohio Natural Heritage Database. It does not fulfill coordination under the National Environmental Policy Act (NEPA) or the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.) and does not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Please contact me at 614-265-6452 if I can be of further assistance.

Sincerely,

A handwritten signature in cursive script that reads "Greg Schneider".

Greg Schneider, Administrator
Ohio Natural Heritage Database Program