



Legal Department

American Electric Power
1 Riverside Plaza
Columbus, OH 43215-2373
AEP.com

Chairman Todd Snitchler
The Public Utilities Commission of Ohio
Ohio Power Siting Board
180 East Broad Street
Columbus, Ohio 43215

March 31, 2014

Yazen Alami, Esq.
Regulatory Services
(614) 716-2920 (P)
(614) 716-2950 (F)
yalami@aep.com

RE: Letter of Notification for the Bixby – Groves 138 kV Transmission Line Re-build Project
Case No. 14-0142-EL-BLN

Dear Chairman Snitchler:

In accordance with rules 4906-5-02(A) and 4906-11-01, Ohio Administrative Code ("OAC"), AEP Ohio Transmission Company ("AEP Ohio Transco") submits this Letter of Notification. Construction of the project is scheduled to begin in September 2014 and is projected to be in-service in June 2015.

As required by rule 4906-11-01(D), OAC, AEP Ohio Transco has submitted a copy of the enclosed letter of notification to the chief executive officer of each municipal corporation and county and the head of each public agency charged with protecting the environment or of planning land use in the area in which the proposed project will be located. Attached to the letter of notification are copies of the letters that have been submitted.

Should you have any questions, please do not hesitate to contact me.

Respectfully submitted,

/s/ Yazen Alami
Yazen Alami

Attachments

LETTER OF NOTIFICATION

FOR THE

**BIXBY – GROVES 138 KV TRANSMISSION LINE
REBUILD PROJECT**

PUCO Case No. 14-0142-EL-BLN

Submitted Pursuant to OAC 4906-11-01

**AEP Ohio Transmission Company
(AEP Ohio Transco)**

MARCH 2014

LETTER OF NOTIFICATION

In accordance with Ohio Administrative Code Section 4906-11-01 Letter of Notification, American Electric Power Ohio Transmission Company (AEP Ohio Transco) submits the following information:

4906-11-01 (B) General Information

4906-11-01 (B) (1) Project Name and Reference Number

The name of this project is the *Bixby – Groves 138 kV Transmission Line Rebuild Project*, and the Ohio Power Siting Board (OPSB) Case number is 14-0142-EL-BLN.

4906-11-01 (B) (1) Description of the Project

An existing 138 kilovolt (kV) single circuit line will be rebuilt in an existing right-of-way (ROW) corridor between Bixby Substation and Groves Substation (Figure 1). The line will be built on AEP Ohio Transco standard double circuit 138 kV structures; two (2) structures are designed with provisions for distribution underbuild. It is anticipated that self-supporting, custom, steel structures with pier foundations will be utilized. The total length of the 138 kV line is approximately 4.4 miles replacing 37 existing structures with 26 new structures.

4906-11-01 (B) (1) Reason the Project Meets Letter of Notification Requirements

The project is defined by Item (4)(a) of the Ohio Administrative Code Chapter 4906-01, Appendix A “Application Requirement Matrix for Electric Power Transmission Lines,” which requires a Letter of Notification. This project consists of replacing electric power transmission line structures within an existing electric power transmission line ROW where two miles or less of new ROW is required.

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

The purpose of the Bixby – Groves 138 kV Line Rebuild Project is to rebuild the Bixby – Groves 138 kV Line to maintain and improve the quality of electric

service and reliability to the Central Ohio area, including AEP Ohio Transco's load area. The line is located in southeast Columbus, Ohio metro area in Franklin County and will address a single contingency overload identified by PJM in their 2009 RTEP study, RTEP number B1048.

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

The location of this project in relation to existing transmission lines is shown on Figure 1. The proposed project, essentially a pole for pole replacement project along the same centerline, is located within the incorporated areas of the City of Columbus in Truro Township, and the City of Groveport in Madison Township, Franklin County.

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

No alternative locations were considered. The Bixby-Groves 138 kV Line is an existing AEP transmission facility.

4906-11-01 (B) (5) Anticipated Construction Schedule

Construction of the 4.4-mile transmission line rebuild is expected to begin in September of 2014 and is scheduled to be in service June 1, 2015.

4906-11-01 (B) (6) Maps Depicting Project Location

The project is within the U.S. Geological Survey (USGS) Southeast Columbus quarter quadrangle and the Lockbourne quadrangle. Figure 1 has been prepared to show the project location with aerial photography. To locate and view the project from Columbus, Ohio, travel Interstate 70 east to Exit 107A for OH-317 South, keep right to take the Hamilton Road ramp, merge onto South Hamilton Road OH-317, turn right onto Groves Road and follow for approximately 0.5 mile. Groves Substation will be on your right. The project exits the Groves Substation in the northeast corner of substation yard, then continues south through Truro and Madison Townships in Franklin County, crossing Interstate 270 and U.S. Highway 33 to the Bixby Substation.

4906-11-01 (B) (7) Property Easements

The existing line is located on existing AEP easements. All new structures will be located within the existing transmission line ROW. Property owners will be notified of the transmission line project prior to the commencement of construction activities.

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

4906-11-01 (C) (1) Description of Technical Features

This project will be designed for double circuit, one wire per phase – 1926.9 thousand circular mils (kcmil) ACSR/TW “Cumberland/TW” conductor with a 108 fiber optical ground wire (OPGW) and 7#8 Alumoweld shieldwire. Two structures on the line will be designed for double circuit distribution utilizing a 556 kcmil AAC “Dahlia” primary conductor and a 4/0 AAAC neutral conductor.

4906-11-01 (C) (1) Number and Type of Structures

Figures 2 through 9 show the structures to be used for this project consisting of:

- 1) twelve (12) self-supporting double circuit steel monopoles with davit arms for tangents;
- 2) two (2) double circuit steel monopoles for tangents with underbuild;
- 3) two (2) double circuit steel monopoles with davit arms for small angles;
- 4) two (2) double circuit steel two pole structures for large angles; and
- 5) eight (8) double circuit steel two pole deadend structures.

4906-11-01 (C) (2) (a) Calculated Electric and Magnetic Field Levels

Electric and magnetic field (EMF) levels were computed one meter above the ground under the line and at the ROW edges (12.5/17.5 feet, left/right, of the centerline). Results are summarized below.

BIXBY-THREE CREEKS (CKT. 1) / BIXBY-GROVES ROAD (CKT. 2)				
CONDITION	LINE LOAD (A)	GROUND CLEARANCE (FEET)	ELECTRIC FIELD (kV/m)*	MAGNETIC FIELD (mG)*
Normal Maximum Loading [^]	626/567	31.0	0.0/0.9/0.1	1/56/12
Emergency Line Loading ^{^^}	916/0	31.0	0.0/1.4/0.0	7/92/25
Winter Normal Conductor Rating ^{^^^}	2263/2263	23.0	0.0/1.7/0.1	4/407/65

THREE CREEKS-GROVES (CKT. 1) / BIXBY-GROVES ROAD (CKT. 2)				
CONDITION	LINE LOAD (A)	GROUND CLEARANCE (FEET)	ELECTRIC FIELD (kV/m)*	MAGNETIC FIELD (mG)*
Normal Maximum Loading [^]	559/567	31.0	0.0/0.9/0.1	1/52/13
Emergency Line Loading ^{^^}	850/0	31.0	0.0/1.4/0.0	6/85/23
Winter Normal Conductor Rating ^{^^^}	2263/2263	23.0	0.0/1.7/0.1	4/407/65

Notes:

A = amperes; kV/m = kilovolt per meter; mG = milligauss

*EMF levels (left ROW edge/maximum/right ROW edge) computed one meter above ground at the point of minimum ground clearance, assuming balanced phase currents and nominal voltages. ROW width is 30 feet.

[^]Peak line flow expected with all system facilities in service.

^{^^}Maximum flow during critical system contingency

^{^^^}Maximum continuous flow that the line, including its terminal equipment, can withstand during winter conditions.

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

Three loading conditions were examined: (1) normal maximum loading; (2) emergency line loading; and (3) winter normal conductor rating, consistent with the OPSB requirements. Normal maximum loading represents the peak flow expected with all system facilities in service; daily/hourly flows fluctuate below this level. Emergency loading is the maximum current flow during unusual (contingency) conditions, which exist only for short periods of time. Winter normal (WN) conductor rating represents the maximum current flow that a line, including its terminal equipment, can carry during winter conditions. It is not anticipated that this line would operate at its WN rating in the foreseeable future.

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

The following estimated capital costs for the proposed project have been tabulated by the Federal Energy Regulatory Commission (FERC) Electric Plant Transmission Accounts:

FERC ACCOUNTS	ESTIMATED CAPITAL COSTS (\$)	
	Material	Labor
Overhead Conductors and Devices	1,685,249	2,408,296
Poles and Fixtures	3,977,083	1,394,743
TOTAL	\$5,371,825	\$4,093,546

4906-11-01 (D) Socioeconomic Data

A desktop review of socioeconomic data for the project was conducted by POWER Engineers, Inc. A quarter-mile buffer area around the project centerline was reviewed. A Socioeconomics Report for the project is attached.

4906-11-01 (D) (1) Land Use and Population Density

This project is located within the incorporated areas of the City of Columbus in Truro Township and the City of Groveport in Madison Township, Franklin County.

The project area is located within the urbanized setting of Columbus and the surrounding suburbs. Much of the project is within a corridor of undeveloped, partially wooded areas. Some of the project centerline crosses through residential neighborhoods, agricultural fields, a nursery and two parks. Portions of the project area are adjacent to commercial or industrial development. The project is in close proximity to an interstate and U.S. highway interchange and crosses both roadways. The project area (Franklin County, Ohio) has a population density of 2,186.1 persons per square mile based upon 2010 U.S. Census data.

4906-11-01 (D) (2) Location and Description of Existing Agricultural Districts

A map of the project was reviewed by the Franklin County Auditor's Office to identify any parcels registered with the State of Ohio Agricultural District Land

Program. A small part of the proposed transmission line on the south side of I-70 crosses an agricultural field before terminating at the Groves Substation, but the project is not located within the limits of an Agricultural District as defined by Chapter 929 of the Ohio Revised Code.

4906-11-01 (D) (3) Archaeological and Cultural Resources

In November of 2013, Weller & Associates, Inc. (Weller) conducted a background and cultural resource management literature review/red flag survey for the project (attached). The project area is located within the urbanized setting of Columbus and the surrounding suburbs. Much of the project is within a corridor of undeveloped, partially wooded areas. A search of the Ohio Historic Preservation Office (OHPO) National Register of Historic Places (NRHP) on-line databases was conducted.

The literature review for this project identified several professional surveys that were conducted that basically account for the northern one-third of the area. These surveys identified sites, but they were not considered to be eligible and have since been destroyed by development. The corridors are narrow and extend through partially developed conditions as well as terrace/floodplain areas. There are no intact archaeological sites, architectural sites, or National Register sites recorded within or near this project or its study radius. Prehistoric sites have been identified throughout this area and in terrain that is similar to the project corridor. They are identified with comparative frequency, but most are affiliated with what appears to be short-termed, transient hunting-foraging behavior. These sites yielded few artifacts, low functional assemblage diversity, and higher ratios of tools to debris.

In December of 2013, Weller conducted a Phase I Cultural Resource Management Investigation for the project. This report has been provided under separate cover. The Phase 1 field investigations relied upon the results of the subsurface testing and visual inspection; however, as noted above, a large part of the overall corridor was the subject of previous investigations. The fieldwork did not result in the identification of any previously archaeological deposits. This is a

rebuild project and will not directly involve or impact any buildings or structures older than 50 years. The field investigations did not identify any cultural resources. A finding of no historic properties affected as outlined by 36 CFR § 800.4 and 36 CFR § 800.5 is considered appropriate. No further work is deemed necessary for this project.

4906-11-01 (D) (4) Local Officials to be Notified

Copies of this Letter of Notification have been sent to the Franklin County Commissioners, the Trustees of Truro Township, the Trustees of Madison Township, the City of Columbus Mayor and Planning Administrator, and the City of Groveport Mayor and City Planning Commission Chairman. Copies of the cover letters are attached.

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

AEP Ohio Transco 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

This line will be designed, constructed and operated to meet or exceed the requirements of the National Electric Safety Code, AEP Ohio Transco design standards and all applicable Occupational Safety and Health Administration (OSHA) standards. A Notice of Intent will be filed with the Ohio Environmental Protection Agency (OEPA) for authorization of construction stormwater discharge under General Permit OHC000004 (Upper Scioto River Basin, including the Town of Brice-Blacklick Creek watershed, the Mason Run-Big Walnut Creek watershed, and the Town of Lockbourne-Alum Creek watershed). A copy of the Stormwater Pollution Prevention Plan for the project will be provided under separate cover.

No other local, state or federal governmental agencies are known to have requirements that must be met in connection with construction of the project unless plans change.

4906-11-01 (E) Environmental

4906-11-01 (E) (1) Endangered or Threatened Species

AEP Ohio Transco conducted a threatened and endangered species review. The U.S. Fish and Wildlife Service's (USFWS) species list for Franklin County, Ohio (attached) was obtained and existing habitat was reviewed to determine the presence of threatened and endangered species in the project area. Eight species were listed as potentially occurring in Franklin County, which include Indiana bat (endangered), Scioto madtom (endangered), clubshell (endangered), northern riffleshell (endangered), rayed bean (endangered), snuffbox (endangered), rabbitsfoot (proposed threatened), bald eagle (species of concern).

AEP Ohio Transco conducted a wetland delineation for the proposed project and a copy of the report is attached. There are no permanent impacts to streams or wetlands proposed for this project. Therefore, no impacts are anticipated for the five endangered aquatic species listed above.

The project area was surveyed for potential Indiana bat habitat and potential roosting trees were noted in wooded areas adjacent to the cleared ROW corridor. Any clearing of potential roosting trees would be performed in the winter months between October 1st and March 31st. The proposed project is not likely to cause an adverse affect on Indiana bats that may be in the area.

The Ohio Department of Natural Resources (ODNR) database review includes the most current USFWS data, plus it has the most current, best information regarding bald eagle nesting in the project area. In a response letter dated November 6, 2013 (attached), the ODNR Natural Heritage Database indicated there is a Bald Eagle nest within one mile of the project. Due to the nature of the project and the implementation of AEP's Avian Protection Plan (APP), which

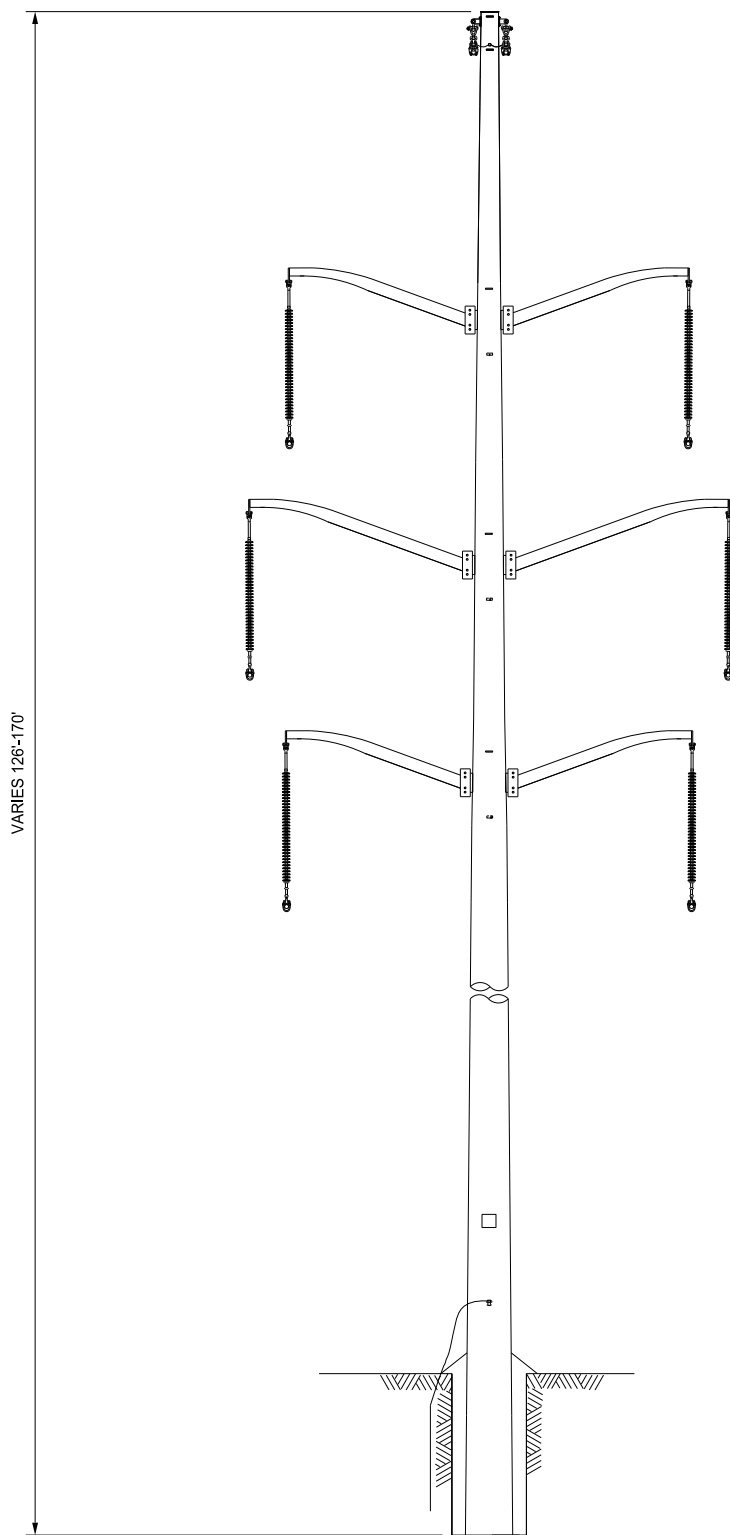
aims to reduce the incidence of bird interactions as well as prevent a bird take, it is anticipated that there will be no impacts on the bald eagle nesting site.

The ODNR was contacted also regarding the presence of any state-listed endangered, threatened, or rare species that may be affected by this Project. The ODNR responded and found no evidence or records of endangered/threatened species within the Project area. A copy of the November 6, 2013 response is attached.

4906-11-01 (E) (2) and (3) Areas of Ecological Concern and Other Significant Environmental, Social, Health, or Safety Impacts

The ODNR was contacted regarding areas of ecological concern in the vicinity of the project. The ODNR indicated that the project occurs adjacent to the Three Creeks Park. There will be no impacts to the park beyond temporary construction noise and traffic while the project is underway due to the transmission line location within an existing utility ROW. No other 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 were identified within a one mile radius of the project area.

There are no known unusual conditions or circumstances associated with this Project that will result in significant environmental, social, health or safety impacts. Construction and operation of the proposed project will meet all applicable safety standards established by OSHA, and will be in accordance with the requirements specified in the latest revision of the National Electrical Safety Code as adopted by the Public Utilities Commission of Ohio.



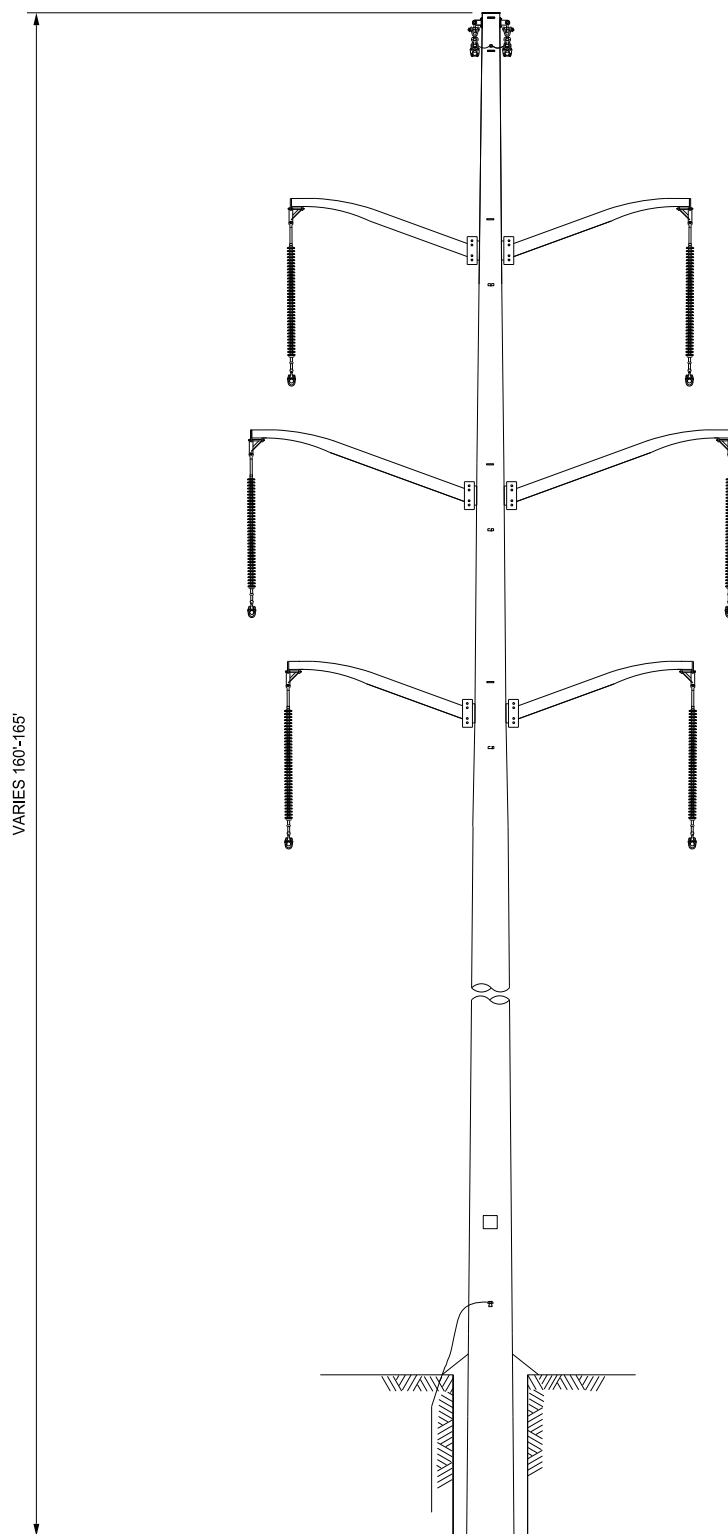
BIXBY - GROVES RD 138kV LINE



PROPOSED 138kV DOUBLE CIRCUIT
TANGENT W/DAVIT ARMS STRUCTURE

NOT TO SCALE

FIGURE 1



BIXBY - GROVES RD 138kV LINE

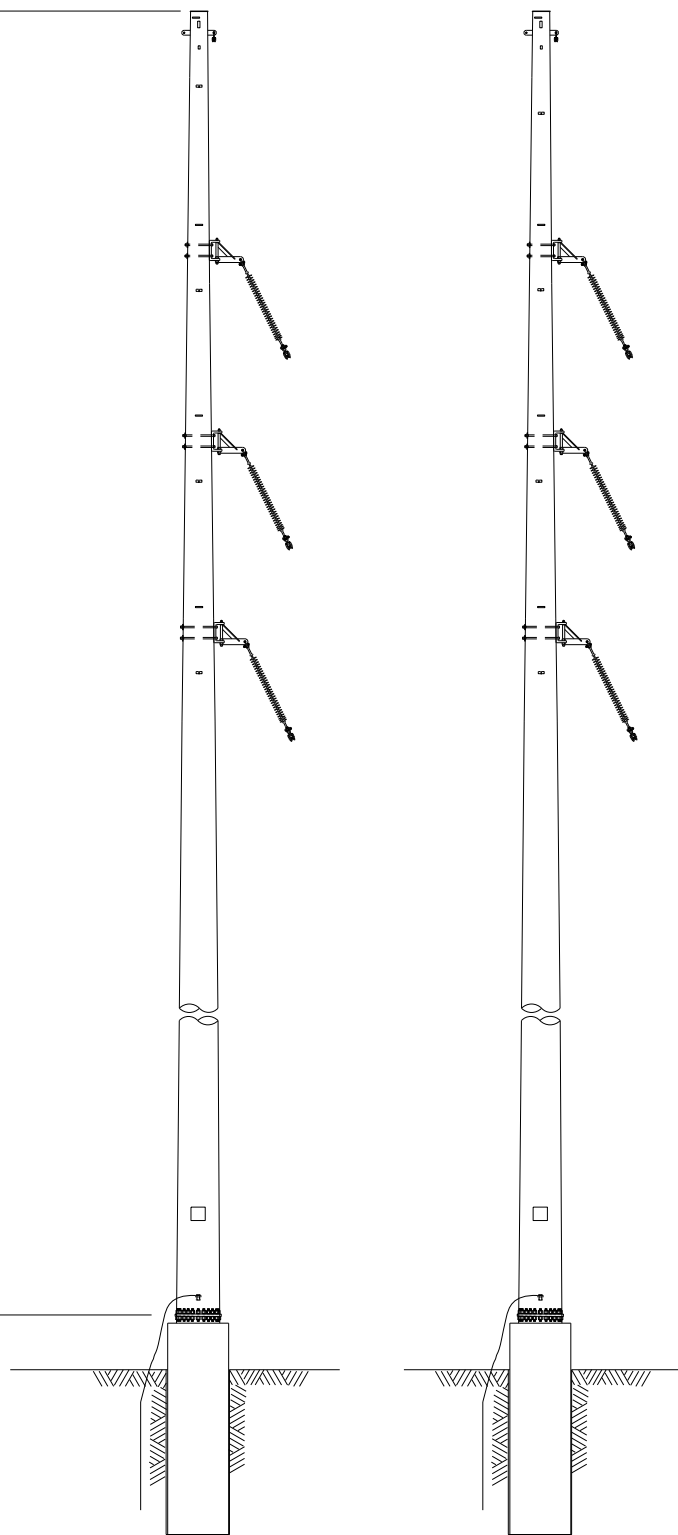


PROPOSED 138kV DOUBLE CIRCUIT
SMALL ANGLE W/DAVIT ARMS STR.

NOT TO SCALE

FIGURE 2

VARIES 95'-110'



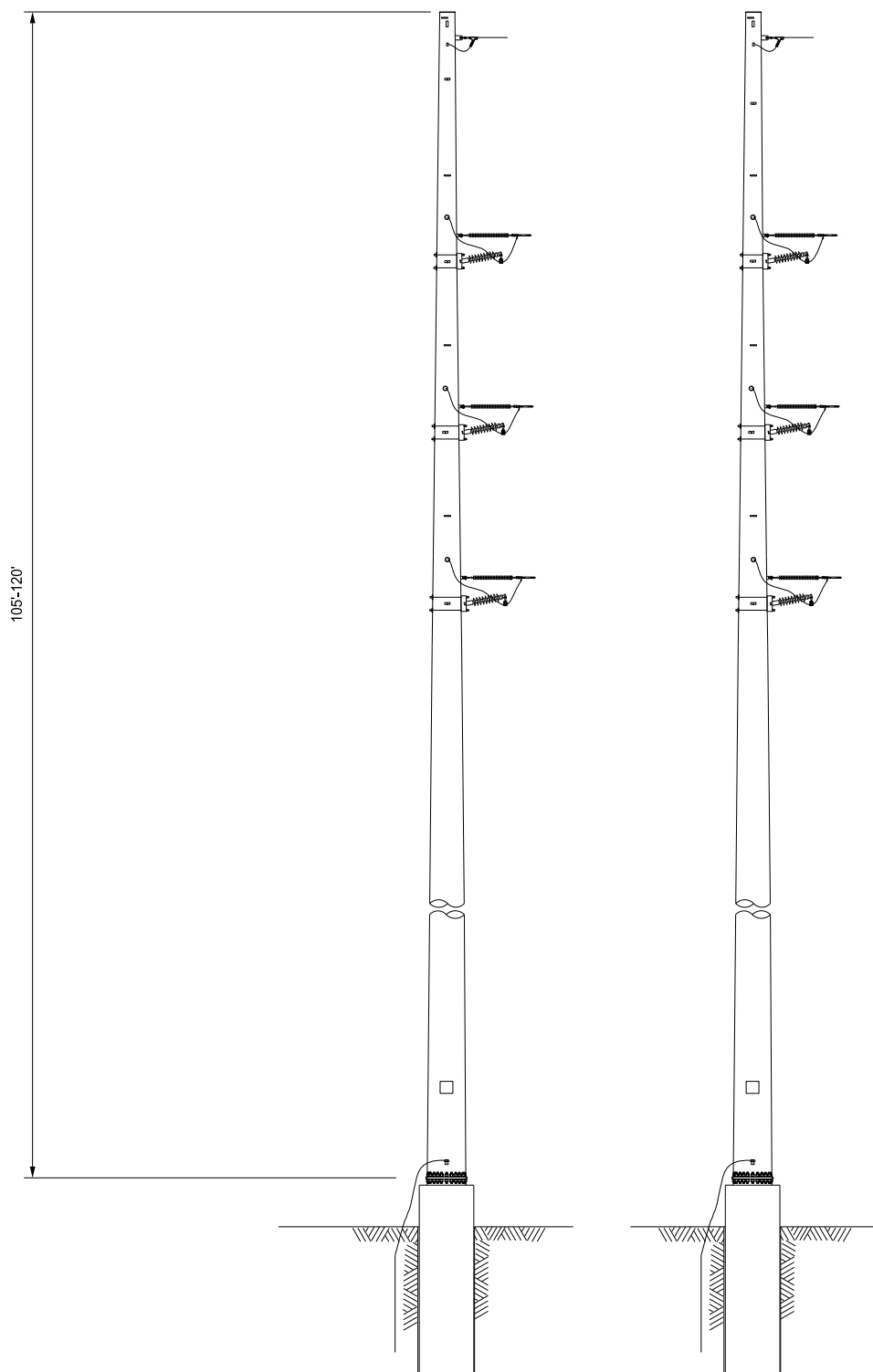
BIXBY - GROVES RD 138kV LINE



PROPOSED 138kV DOUBLE CIRCUIT
LARGE ANGLE STRUCTURE

NOT TO SCALE

FIGURE 3



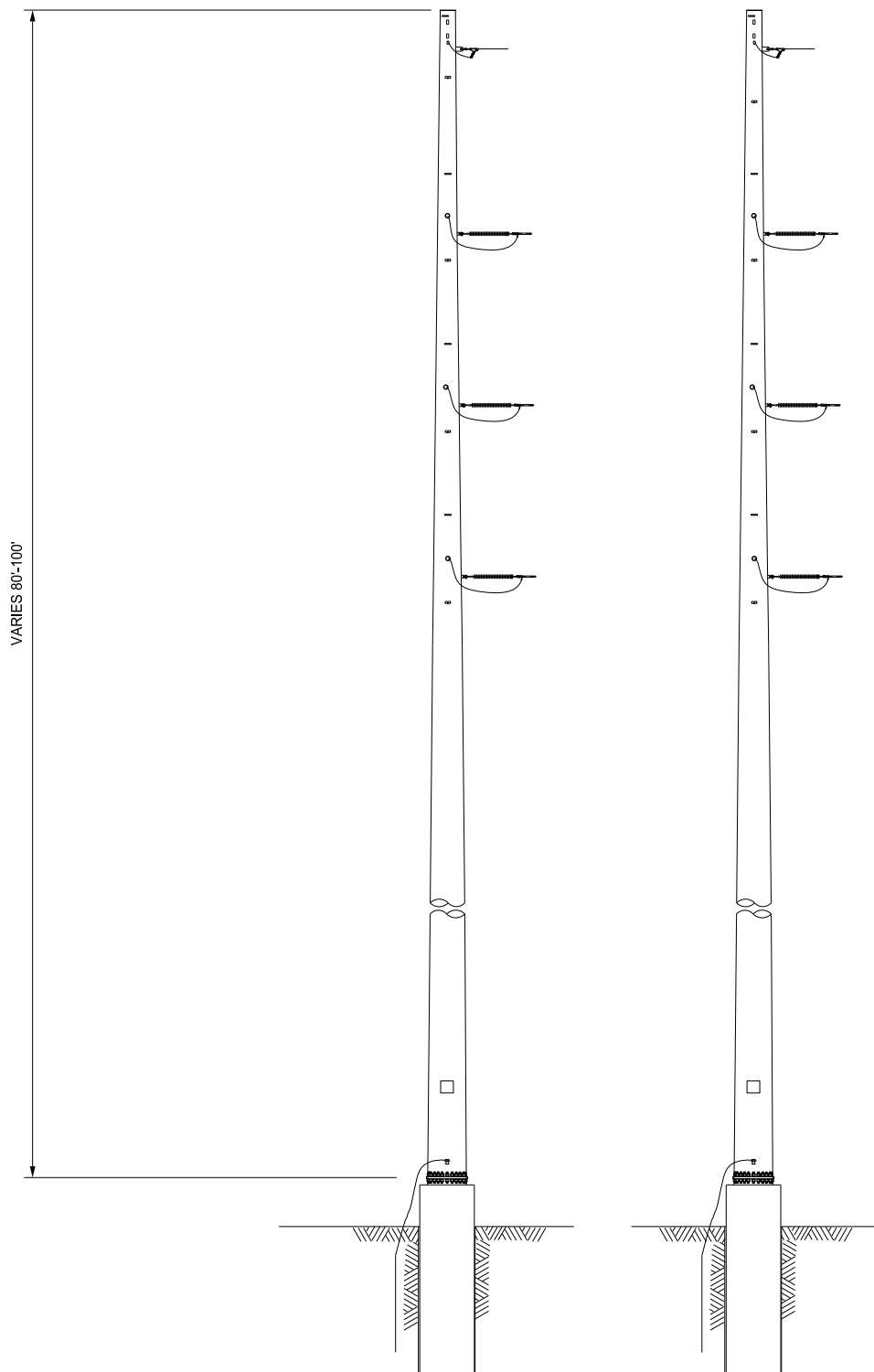
BIXBY - GROVES RD 138kV LINE



PROPOSED 138kV DOUBLE CIRCUIT
DEADEND (0°-45°) STRUCTURE

NOT TO SCALE

FIGURE 4



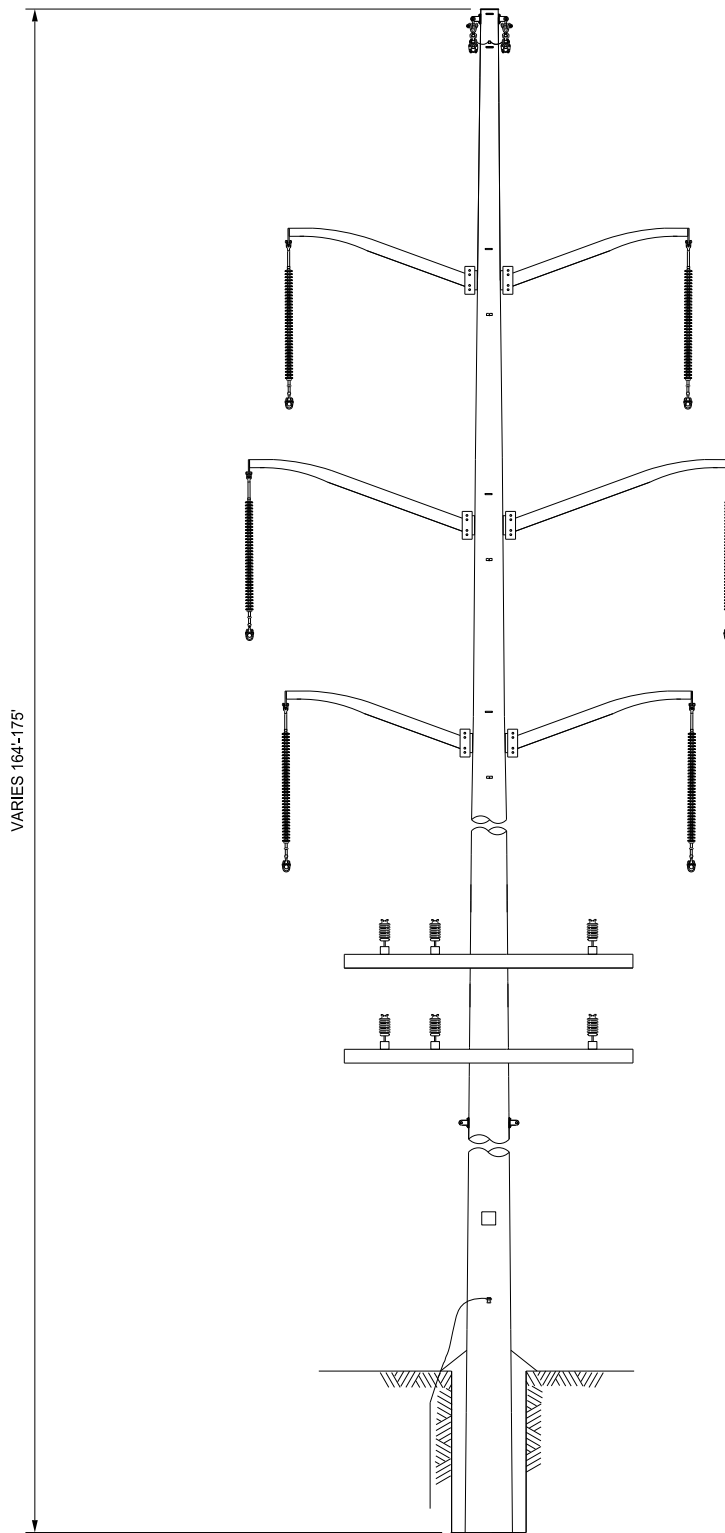
BIXBY - GROVES RD 138kV LINE



PROPOSED 138kV DOUBLE CIRCUIT
DEADEND (70°-100°) STRUCTURE

NOT TO SCALE

FIGURE 5



BIXBY - GROVES RD 138kV LINE



PROPOSED 138kV DOUBLE CIRCUIT
TANGENT W/UNDERBUILD STRUCTURE

NOT TO SCALE

FIGURE 6



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 25, 2014

City of Groveport
Planning Commission Chairman
Groveport Municipal Building
655 Blacklick Street
Groveport, OH 43125

RE: Letter of Notification
Bixby-Groves 138-kV Transmission Line Rebuild Project
Case Number: 14-0142-EL-BLN

Dear Trustees:

In accordance with Rules 4906 of the Ohio Administrative Code (OAC), AEP Ohio Transmission Company (AEP Ohio Transco) is required to submit a Letter of Notification to the State of Ohio Power Siting Board (OPSB) whenever certain changes are made to our transmission facilities.

The proposed Bixby-Groves 138-kV Transmission Line Rebuild Project, PUCO Case Number 14-0142-EL-BLN, consists of rebuilding an existing 138-kV single-circuit line utilizing an existing 100 feet wide right-of-way corridor between Bixby Substation off Bixby Road in Madison Township, Franklin County, Ohio and Groves Substation off Groves Road SW in Truro Township, Franklin County, Ohio. The new line will be built on AEP Ohio Transco double single-circuit 138 kV structures. This rebuild project will improve and maintain the quality of electric service and reliability in the central Ohio area.

The total length of the 138-kV line is approximately 4.4 miles. The Project will replace 36 existing structures with 26 new structures. The Project will run through Truro and Madison Townships in Franklin County, Ohio.

In compliance with Rule 4906-11-02 of the OPSB Rules and Regulations, we have prepared and filed the attached Letter of Notification. This Notice contains details on the line location, project description and construction schedule, and is submitted for your information.

Please feel free to contact me at 614-552-1929 and I would be happy to answer any questions concerning this project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brett E. Schmied", is written over a light blue circular stamp.

Brett E. Schmied, J.D.
Project Outreach Specialist
American Electric Power

cc: Bethany McCrae, Project Manager



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 25, 2014

Mayor Michael B. Coleman
City of Columbus
City Hall, 2nd Floor
90 West Broad Street
Columbus, OH 43125

RE: Letter of Notification
Bixby-Groves 138-kV Transmission Line Rebuild Project
Case Number: 14-0142-EL-BLN

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Project Outreach Specialist
American Electric Power

cc: Bethany McCrae, Project Manager



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 25, 2014

Mr. Patrick Losinki, Director
Columbus Metropolitan Library
96 South Grant Avenue
Columbus, OH 43215

RE: Letter of Notification
Bixby-Groves 138-kV Transmission Line Rebuild Project
Case Number: 14-0142-EL-BLN

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Project Outreach Specialist
American Electric Power

cc: Bethany McCrae, Project Manager



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 25, 2014

Franklin County Board of Commissioners
Ms. Marilyn Brown
Ms. Paula Brooks
Mr. John O'Grady
373 South High Street, 26th Floor
Columbus, Ohio 43215

RE: Letter of Notification
Bixby-Groves 138-kV Transmission Line Rebuild Project
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Project Outreach Specialist
American Electric Power

cc: Bethany McCrae, Project Manager



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 25, 2014

Truro Township Board of Trustees
Mr. Pat Mahaffey, Trustee
Mr. Mike Shirey, Trustee
Ms. Barbara Strussion, Trustee
Ms. Natalie Nicodemus, Fiscal Officer
6900 East Main Street
Reynoldsburg, Ohio 43068

RE: Letter of Notification
Bixby-Groves 138-kV Transmission Line Rebuild Project
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American Electric Power

cc: Bethany McCrae, Project Manager



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 25, 2014

Madison Township Board of Trustees
Mr. Edward B. Dildine
Mr. Gary McDonald
Mr. Victor Paini
4575 Madison Lane
Groveport, Ohio 43125

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The proposed Bixby-Groves 138-kV Transmission Line Rebuild Project, PUCO Case Number 14-0142-EL-BLN, consists of rebuilding an existing 138-kV single-circuit line utilizing an existing 100 feet wide right-of-way corridor between Bixby Substation off Bixby Road in Madison Township, Franklin County, Ohio and Groves Substation off Groves Road SW in Truro Township, Franklin County, Ohio. The new line will be built on AEP Ohio Transco double single-circuit 138 kV structures. This rebuild project will improve and maintain the quality of electric service and reliability in the central Ohio area.

The total length of the 138-kV line is approximately 4.4 miles. The Project will replace 36 existing structures with 26 new structures. The Project will run through Truro and Madison Townships in Franklin County, Ohio.

In compliance with Rule 4906-11-02 of the OPSB Rules and Regulations, we have prepared and filed the attached Letter of Notification. This Notice contains details on the line location, project description and construction schedule, and is submitted for your information.

Please feel free to contact me at 614-552-1929 and I would be happy to answer any questions concerning this project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brett E. Schmied", is written over a large, loopy blue circular mark.

Brett E. Schmied, J.D.
Project Outreach Specialist
American Electric Power

cc: Bethany McCrae, Project Manager

January 15, 2014

AMERICAN ELECTRIC POWER COMPANY

Bixby-Groves 138 kV Line Rebuild Project

Socioeconomics Report



PROJECT NUMBER:
129739.00.05

PROJECT CONTACT:
Jaime Newell

EMAIL:
jaime.newell@powereng.com

PHONE:
989-745-5577



Bixby-Groves 138 kV Line Rebuild Project
Socioeconomics Report

PREPARED FOR: AMERICAN ELECTRIC POWER COMPANY
PREPARED BY: GINA FEGLER
208-288-6281
GINA.FEGLER@POWERENG.COM

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ACRONYMS AND ABBREVIATIONS

AEP	American Electric Power Company
Esri	Environmental Systems Research Institute
kV	kilovolt
OAC	Ohio Administrative Code
OPSB	Ohio Power Siting Board
POWER	POWER Engineers, Inc.
ROW	right-of-way

PROJECT DESCRIPTION

American Electric Power Company (AEP) is proposing to rebuild an existing 138 kilovolt (kV) transmission line between AEP's Bixby and Groves substations, located in Madison and Truro Townships, Franklin County, Ohio (see map sets in Appendices A and B). The line will be built on AEP standard double circuit 138 kV structures. It is anticipated that self-supporting, custom, steel structures with pier foundations will be utilized for all running angle structures and dead ends, while tangent structures will utilize direct embed installation with concrete backfill. The new line will require the installation of 26 new transmission structures and the removal of 37 existing structures. The total length of the 138 kV line is approximately 4.5 miles. The proposed rebuild will be located entirely within existing right-of-way (ROW). The Project is located within the incorporated areas of the City of Columbus in Truro and Madison Townships and the City of Groveport in Madison Township, Franklin County.

The Ohio Power Siting Board (OPSB) Letter of Notification guidelines require that AEP describe the socioeconomic impacts of the proposed Project. Ohio Administrative Code (OAC) Rule 4906-11-01(D)(1 & 2) describes the requirement as such:

(D) Socioeconomic data. Describe the social and ecological impacts of the project. This description shall contain the following information:

- (1) A brief, general description of land use within the vicinity of the proposed project, including:(a) a list of municipalities, townships, and counties affected; and (b) estimates of population density adjacent to rights-of-way within the study corridor (the U.S. census information may be used to meet this requirement).*
- (2) The location and general description of all agricultural land (including agricultural district land) existing at least sixty days prior to submission of the letter of notification within the proposed electric power transmission line right-of-way, or within the proposed electric power transmission substation fenced-in area, or within the construction site boundary of a proposed compressor station.*

AEP retained POWER Engineers, Inc. (POWER) to review the proposed Project for potential socioeconomic impacts as described in OAC Rule 4906-15-11-01(D)(1 & 2). To that end, a desktop review of socioeconomic, land use, and agricultural district land in the Project area was conducted. A buffer area with a total width of 0.5 mile centered on the transmission line centerline (0.25 mile on each side) was established as the study corridor. The study corridor was reviewed using aerial photo interpretation to identify land uses. The study corridor includes an area of 1,497.9 acres. Additionally, a residence count using aerial photo interpretation was conducted for an 800-foot corridor centered on the transmission line (400 feet on each side).

GENERAL LAND USE DESCRIPTIONS

Land use within the study corridor for the Project is shown on the map sets in Appendices A and B. Current land use characteristics were identified through review and digitizing of the Environmental Systems Research Institute's (Esri) World Imagery Base Layer 2012 imagery. Aerial imagery from Google Earth was reviewed to identify recent land use trends. Wetlands in a 100-foot wide corridor centered on the Project centerline were field delineated.

Land use within the study corridor is not dominated by any one land use type, and instead is composed of a mix of primarily woodland, agriculture, residential development, and commercial, industrial, and transportation development. Forested or wooded areas occupy approximately 28.5%, agriculture occupies approximately 21.8%, residential development occupies approximately 21.6%, and commercial/industrial uses occupy approximately 18.5%. Industrial/transportation uses, which include interstate and railroad, occupy approximately 6.0%, while a total of approximately 3.1% consists of open water and wetlands. Recreational land use, which consists of a developed park site, occupies approximately 0.5% of the study corridor area.

The entire study corridor is located within the incorporated areas of the City of Columbus in Truro and Madison Townships and the City of Groveport in Madison Township. A total of 1,173.5 acres are located within the City of Columbus while a total of 324.4 acres are located within the City of Groveport. Residences in the study corridor in the City of Columbus include both single family residences and multifamily housing. Based on review of aerial photography, a total of approximately 293 residences were identified within 400 feet of the Project centerline in the City of Columbus. A total of approximately four residences were identified within 400 feet of the Project centerline in the City of Groveport. Review and comparison of aerial photography from 2010 and 2013 indicates a gradual conversion of agricultural land to residential development. No churches, schools or cemeteries were identified within the study corridor. The Project is in close proximity to an interstate and US highway interchange and crosses both roadways.

POPULATION DENSITY ESTIMATE

Population density was estimated for the study corridor based on land area and average persons per household in the City of Columbus and the City of Groveport in Franklin County, Ohio. Based on 2010 U.S. Census data, average persons per household in the City of Columbus 2008-2012 was 2.39 persons. The approximately 293 residences identified within 400 feet of the Project centerline would have an estimated total population of 700 persons. The City of Groveport had an average household size of 2.63 persons, according to the 2010 U.S. Census data. The approximately four residences identified within 400 feet of the Project centerline would have an estimated total population of 11 persons. Based on the population density of the City of Columbus (3,624.1 persons per square mile according to the 2010 U.S. Census data), the population density of the City of Groveport (626.5 persons per square mile according to the 2010 U.S. Census data), and the Project corridor area within the City of Columbus (1,173.5 acres, or 1.83 square miles) and the City of Groveport (324.4 acres, or 0.51 square miles), the total population of the 0.5-mile wide (0.25 mile each side of the centerline) Project corridor is estimated to be approximately 6,952 persons. Census population data is included in Table 1.

TABLE 1 STUDY CORRIDOR CENSUS POPULATION ESTIMATES

HEADING	PERCENTAGE OF CORRIDOR	2010 CENSUS POPULATION
Franklin County	100	1,163,414
City of Columbus	78.3	787,033
City of Groveport	21.7	5,363

It is not expected that the Project will significantly impact land use within the vicinity of the Project. An existing transmission line is present along the length of the Project. The changes to the corridor will be primarily due to construction impacts, which will be temporary.

AGRICULTURAL DISTRICT LAND

A map of the Project was reviewed by the Franklin County Auditor's Office to identify any parcels registered with the State of Ohio Agricultural District Land Program. Although some of the Project crosses agricultural fields, none of the Project is located within the limits of an Agricultural District as defined by Chapter 929 of the Ohio Revised Code. The construction, operation and maintenance of this transmission line are not expected to affect the viability of agricultural land with the study area. This Project when complete will not require changes in agricultural practices from what they were at the time of this study.

CONCLUSION

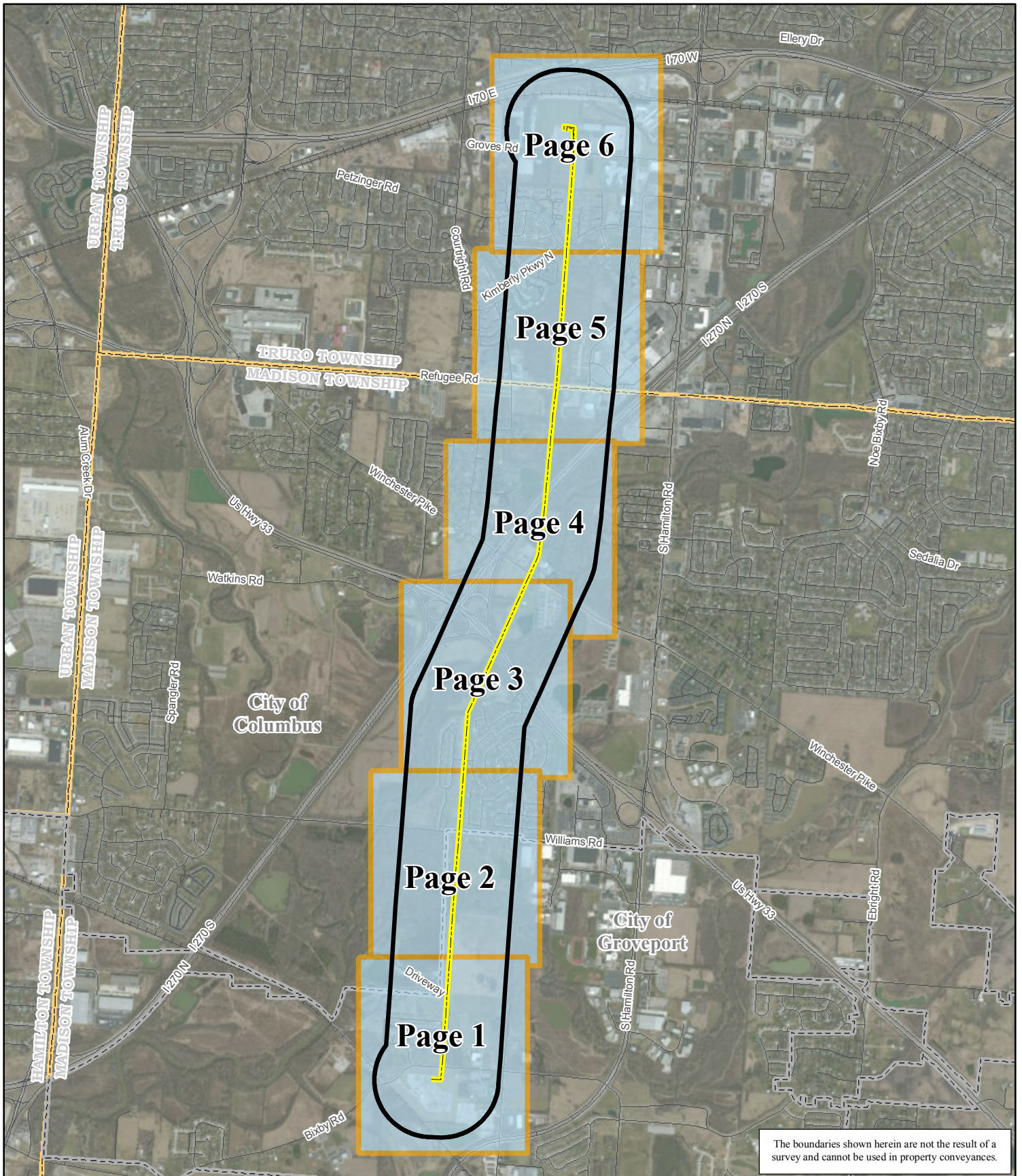
No significant impacts to socioeconomic characteristics, land use characteristics, or agricultural practices are expected in the study corridor as a result of this Project as an existing electrical transmission line is currently in place. Construction will cause temporary, localized changes at structure locations and access routes. The Project is not expected to alter future land use patterns.

REFERENCES

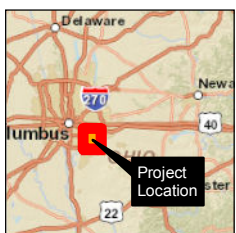
Betts, Margie K., Franklin County Auditor, Office of. Email correspondence. Franklin County, Ohio. November 2013.

U.S. Census Bureau. Census of Population and Housing, 2010. Washington, D.C. Retrieved From <http://www.census.gov>. Accessed January 14, 2014.

APPENDIX A MAP SET A, LAND USE WITH AERIAL BASE



The boundaries shown herein are not the result of a survey and cannot be used in property conveyances.



Bixby Groves Alignment	City Boundary
Quarter Mile Buffer	Township Boundary
Roads	Map Tile
Railroads	

1" = 3,000'

Feet

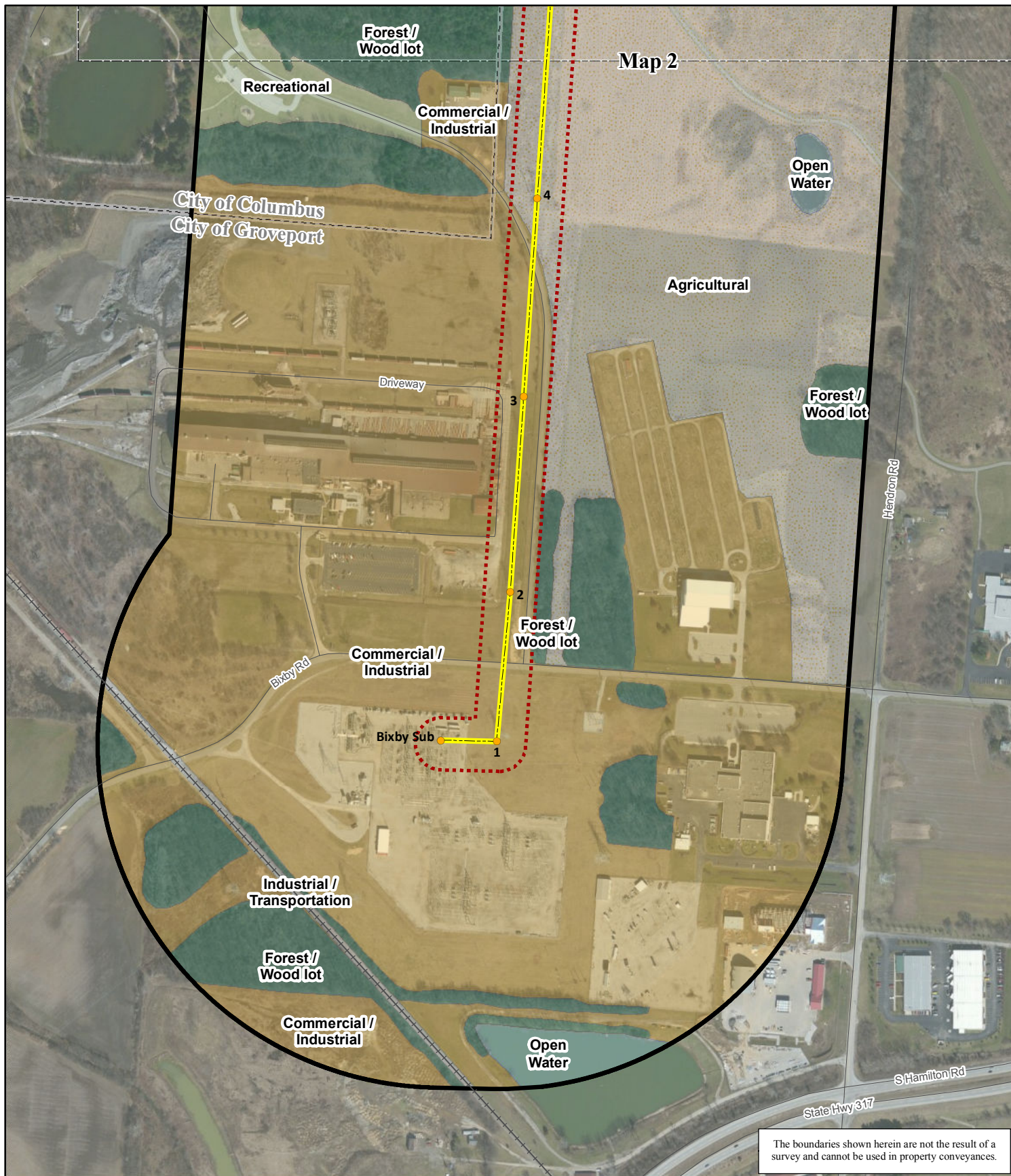
The State of Ohio
Franklin County
Madison and Truro Townships

Date: 1/14/2014
Author: JPT

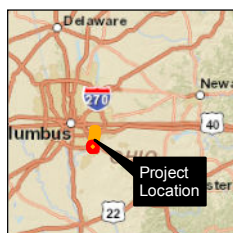
Bixby - Groves
36468
INDEX of 6 Map Tiles

Land Use / Land Cover

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The boundaries shown herein are not the result of a survey and cannot be used in property conveyances.



- Structures
- Bixby Groves Alignment
- Corridor 200'
- Quarter Mile Buffer
- ~ Roads
- ~ Railroads
- City Boundary
- Township Boundary
- Agricultural
- Forest/Wood lot
- Residential
- Recreational
- Commercial/Industrial
- Industrial/Transportation
- Open Water
- Delineated Wetland

1" = 500'

0 250 500

Feet

The State of Ohio

Franklin County
Madison and Truro Townships

Date: 1/14/2014
Author: JPT

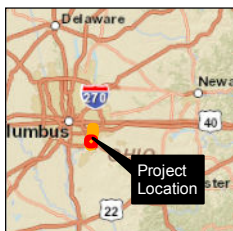
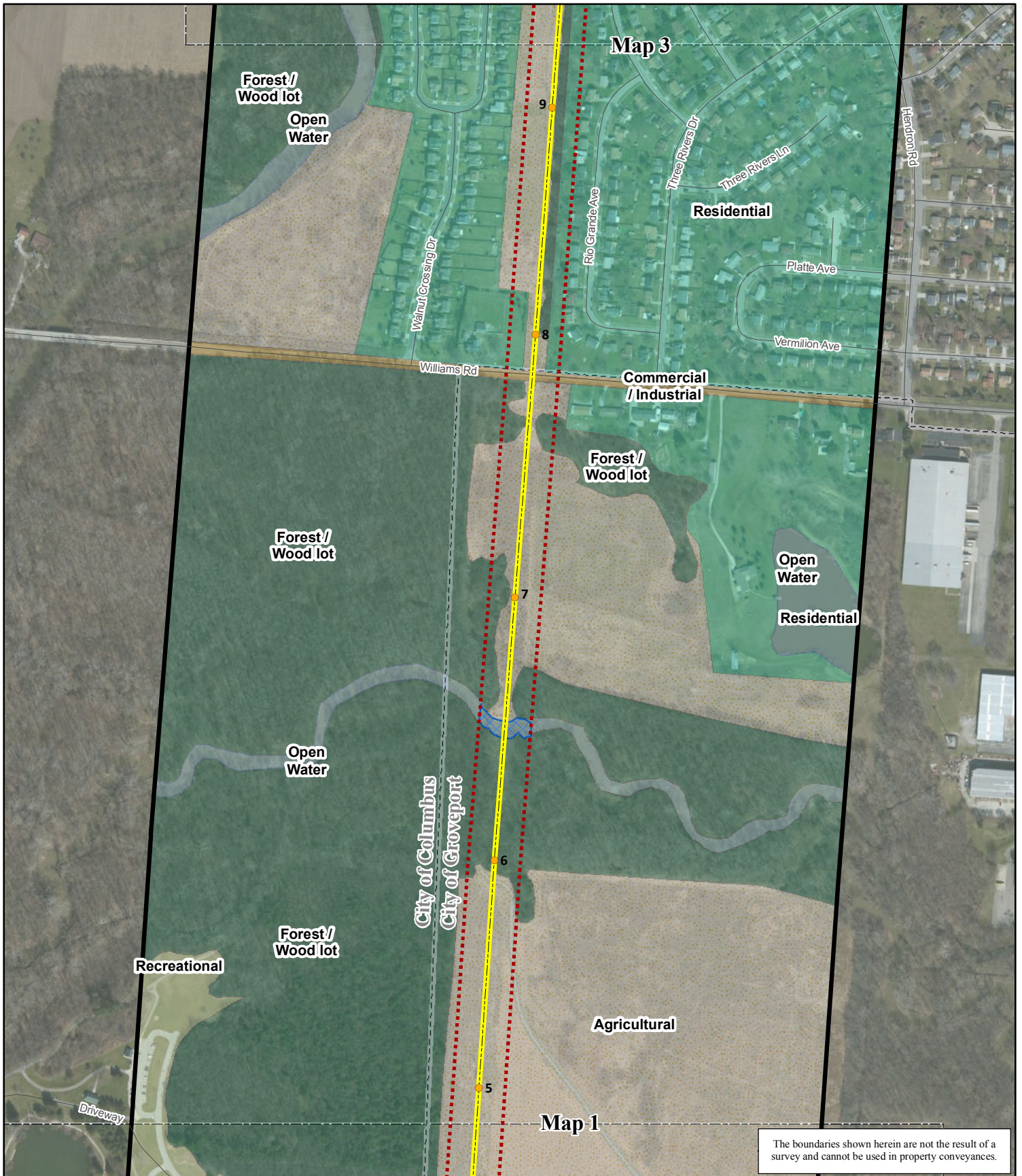
Bixby - Groves

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Land Use / Land Cover

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- Structures
- Bixby Groves Alignment
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The State of Ohio
Franklin County
Madison and Truro Townships

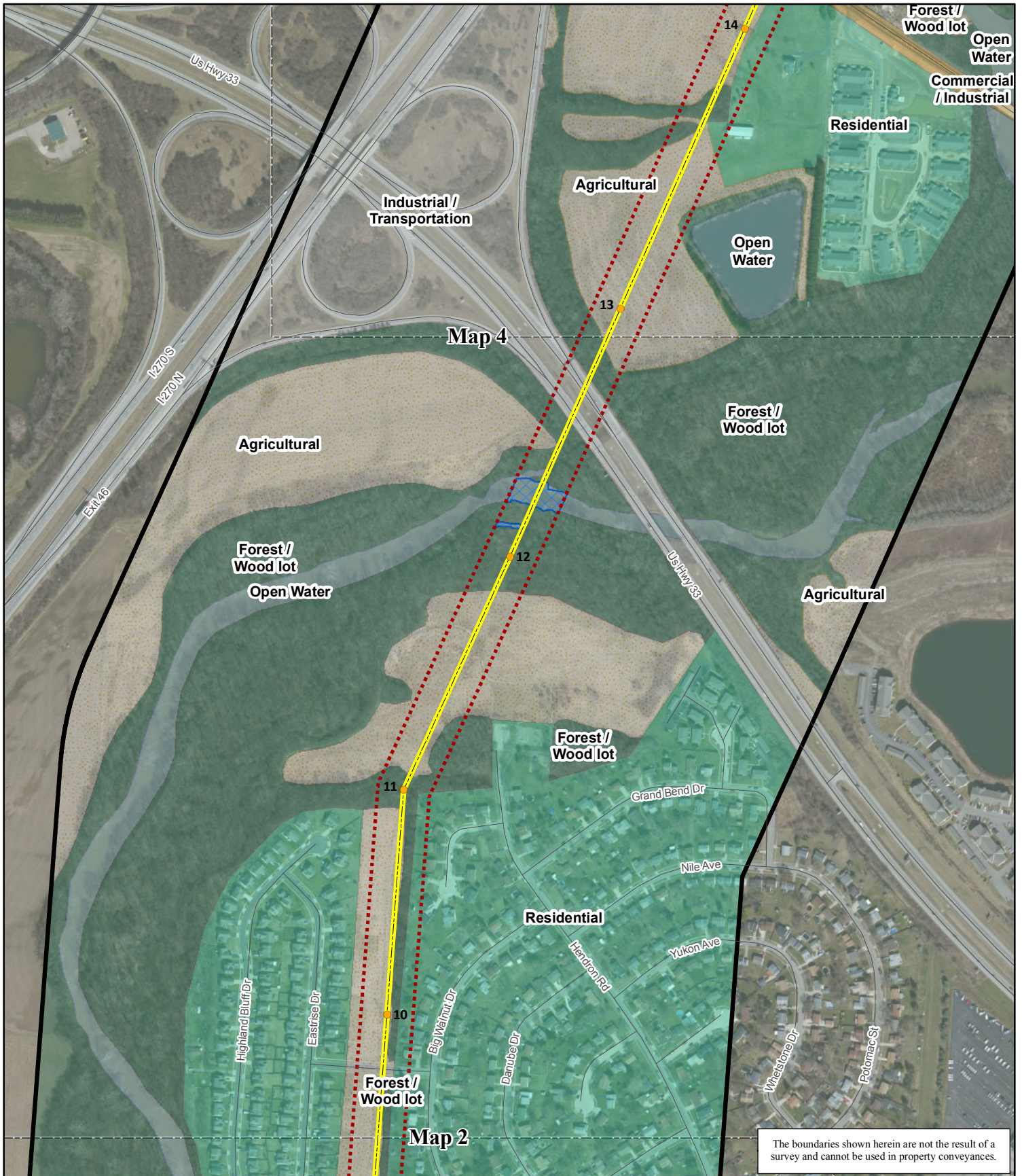
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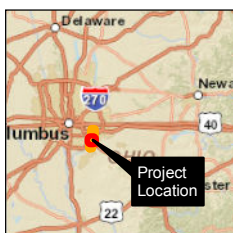
Land Use / Land Cover

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- | | |
|--------------------------|-----------------------------|
| ● Structures | ○ Agricultural |
| — Bixby Groves Alignment | ○ Forest/Wood lot |
| — Corridor 200' | ○ Residential |
| ○ Quarter Mile Buffer | ○ Recreational |
| — Roads | ○ Commercial/Industrial |
| — Railroads | ○ Industrial/Transportation |
| ○ City Boundary | ○ Open Water |
| ○ Township Boundary | ○ Delineated Wetland |

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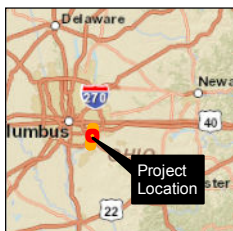
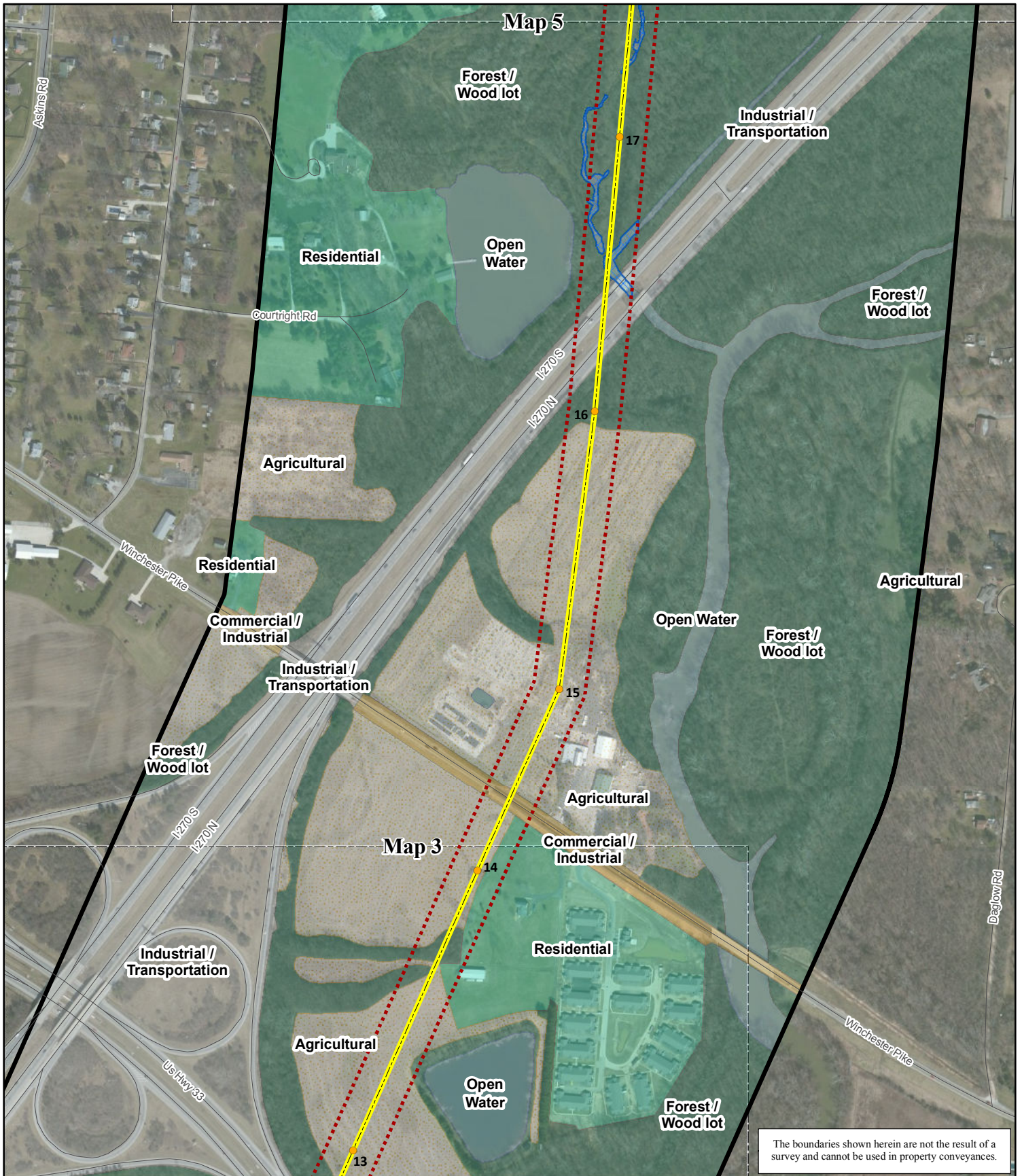
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Bixby - Groves
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- Structures
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Case No(s). 14-0142-EL-BLN

Summary: Letter of Notification Bixby-Groves 138 kV Transmission Line Rebuild Project
electronically filed by Mr. Yazen Alami on behalf of AEP Ohio Transmission Company