

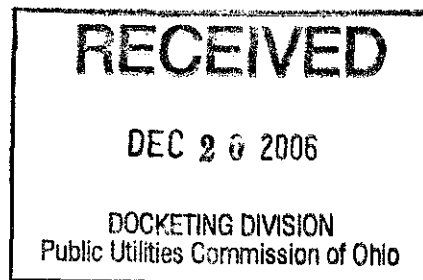
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DL-1489-EL-BLN

Letter of Notification

for the

Bixby - Marion 138kV Line
Relocation



Submitted by

American Electric Power
Columbus Southern Power

to

The State of Ohio Power Siting Board

December 2006

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LETTER OF NOTIFICATION

In accordance with Ohio Administrative Code Section 4906-11-01, Letter of Notification requirements, American Electric Power submits the following.

49016-11-01 (A) General Information

(A)(1) Name of Project and Brief Description of this Project and Explanation of Why the Project Meets Letter of Notification Requirements

The name of this project is the Bixby-Marion 138 kV Line Relocation project. This project is not identified in Columbus Southern Power or Ohio Power's 2006 or 2007 Long Term Forecast. This project consists the re-routing of the Bixby-Marion 138kV.

This project involves the relocation of .82 miles on the existing Bixby-Marion 138kV line, involving the removal of fourteen structures and the installation of thirteen new steel structures.

This project meets the requirements for a Letter of Notification because this project is primarily defined by Item (1)(c) of Appendix A " Application Requirement Matrix for Electric Power Transmission Lines. This project mainly consists of work associated with rerouting a line that is greater than 135 kV but less than 300 kV and not greater than 2 miles in length.

(A)(2) Need for this Project

Due to increasing electrical load growth in the Columbus, Ohio area, Columbus Southern Power Company must re-conductor an existing 138kv transmission line. The existing three 636,000 cm ACSR conductors will be replaced with three 795,000 cm ACSS (Aluminum conductor steel Supported) 26/7 strand conductors from Bixby to LSII station & from LSII to Marion station covering 7.23 miles. This larger conductor will increase the capacity of these circuits by approximately 69%. (Please refer to the Construction Notice called Bixby-Marion & LSII Re-Conducting Project). This larger size of the new conductor will result in greater sag throughout the line. Due to this greater sag in the conductor AEP will need to re-route a section of line that currently spans over several trailer homes.

(A) (3) Projection Location Relative to Existing or Proposed Lines

The proposed 138kV project area has been identified on "Map 3" (see Appendix). Map 3 is a copy of Columbus Southern Power and Ohio Power's Transmission System as of December 31, 2002, as submitted to the Public Utility Commission of Ohio in our latest Long-Term Forecast Report.

(A) (4) Alternatives Considered

The alternative to this project would be to do nothing. Taking this option and with the continued electrical load growth in the Columbus area, as time goes on the result would be more and more outage issues associated with the Bixby-Marion 138kV line & LSII 138kV line.

(A) (5) Anticipated Construction Schedule

Construction of this transmission line project is expected to begin March 2007 and be completed by late June 2007.

(A) (6) Maps Depicting Project Location

The project is located in Franklin Township, Franklin County, Ohio. Two Maps (see Appendix) have been prepared showing the project location. Map 1, the General Location Map indicates the area surrounding the project and is a partial copy of the USGS, Ohio Quad. Map 2 is a Detail Site map showing the project site details. To get to the section of the project being relocated take exit 49 off Interstate 270, travel north on Alum Creek Dr. for approximately 1-mile.

49016-11-01 (B) Technical Features

(1) Number and Type of Structures

The existing line is a combination of single 138 kV circuit supported two pole wood H-frame style structures (see Figure 4) and double 138kV circuit supported on vertical style steel towers (see Figure 3). For the relocation of the line around the existing houses, six (6) double circuit steel poles with foundations and seven (7) double circuit direct embedded steel poles will be installed (See Figure 2). AEP at this time is in the process of obtaining the final easements required from the landowners to install the new .82-mile relocation.

(2) Calculated Electric and Magnetic Field Levels

Electric and Magnetic Fields during Operation

(a) *Calculated Electric and Magnetic Field Levels*

Line Loading & Rating

Circuit	Normal Maximum Loading	Emergency Loading	Winter Normal Conductor Rating
Bixby-LSII	799 Amps	927 Amps	1973 Amps
LSII-Marion	799 Amps	927 Amps	1973 Amps

The electric and magnetic field levels for the proposed project were calculated for the conductor configuration as depicted by "Figures 2-4" (see Appendix).

Electric & Magnetic Field (EMF) Strength

FIGURE 2 (Steel Poles)

Conductor Condition	Electric Field (kV/m)			Magnetic Field (mG)		
	Maximum Under Line	Edge of R.O.W. (East)	Edge of R.O.W. (West)	Maximum Under Line	Edge of R.O.W. (East)	Edge of R.O.W. (West)
Normal Maximum Loading	1.8661	0.178	0.178	98.750	47.96	47.96
Emergency Line Loading	1.648	0.177	0.177	115.740	56.11	56.11
Winter Normal Conductor Rating	1.850	0.132	0.132	244.22	113.06	113.06

Electric & Magnetic Field (EMF) Strength

FIGURE 3 (Steel Tower)

Conductor Condition	Electric Field (kV/m)			Magnetic Field (mG)		
	Maximum Under Line	Edge of R.O.W. (East)	Edge of R.O.W. (West)	Maximum Under Line	Edge of R.O.W. (East)	Edge of R.O.W. (West)
Normal Maximum Loading	1.801	.336	.336	107.55	63.19	63.19
Emergency Line Loading	1.786	.333	.333	125.92	73.87	73.87
Winter Normal Conductor Rating	2.259	.280	.280	297.4	158.81	158.81

Electric & Magnetic Field (EMF) Strength

FIGURE 4 (Wood H-frame)

Conductor Condition	Electric Field (kV/m)			Magnetic Field (mG)		
	Maximum Under Line	Edge of R.O.W. (East)	Edge of R.O.W. (West)	Maximum Under Line	Edge of R.O.W. (East)	Edge of R.O.W. (West)
Normal Maximum Loading	.640	.468	.468	69.82	32.4	32.4
Emergency Line Loading	.635	0.464	.464	81.01	37.59	37.59
Winter Normal Conductor Rating	.995	.554	.554	273.36	96.45	96.45

(b) Discussion of Design Alternatives

Double circuit, steel pole construction was selected on the relocated section of line to minimize right of way requirements and minimize EMF values. Other types of

construction such as double circuit lattice steel towers would have resulted in fewer structures but would have required a wider right of way width.

(3) Estimated Capital Costs

The 2007 capital cost estimates for the proposed project have been tabulated by the Federal Energy Regulatory Commission (FERC) Electric Plant Transmission Accounts:

FERC Accounts	Estimated Capital Costs
355 Poles and Fixtures	\$1,256,400
356 Overhead Conductors and Devices	\$837,600
Total	\$2,094,000

49016-11-01 (C) Socioeconomic Data

(1) Land Use and Population Density

This project is located in Franklin Township, Franklin County, Ohio. The immediate area surrounding the project has been residentially or commercially developed. The project area (census tract Franklin Co., Ohio) has a population density of 2020-people/square mile based upon 2000 census data.

(2) Agricultural Land and Agricultural Districts

The proposed line is not within the limits of any agricultural land nor is it located within any Agricultural District as defined by Chapter 929 of the Ohio Revised Code.

(3) Investigation of Archeological and Cultural Resources

A search of the Ohio Historic Preservation Office (OHPO) National Register of Historic Places on-line databases was conducted and did not identify the existence of any historic sites within the project area. Properties on the OHPO database include all 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.

(4) Local Officials to be Notified and Public Information Program

Copies of this Letter of Notification have been sent to the Franklin County Commissioners, Madison Township Trustees, Hamilton Township Trustees, Mayor for the Village of Groveport, Mayor for the Village of Obetz, and Mayor for the City of Columbus. Copies of the cover letters to these officials are attached.

Local landowners affected by the relocation of the new steel poles have been contacted personally by AEP. The need for the project, type of construction and location of the proposed transmission line has been discussed with them in detail.

(5) Current or Pending Litigation

There is no current litigation involving this project and none is expected.

(6) Local, State and Federal Requirements

This line will be designed, constructed, and operated to meet or exceed the requirements of the National Electrical Safety Code, American Electric Power design standards, and all applicable OSHA standards.

49016-11-01 (D) Environmental Data

(1) Endangered or Threatened Species

The Ohio Department of Natural Resources, Division of Natural Areas and Preserves was contacted regarding the presence of any endangered, threatened, or rare species that may be affected by this project. The O.D.N.R. responded and found no evidence or records of endangered / threatened species within the project area. A copy of their response is attached.

The United States Department of the Interior, Fish and Wildlife Service was contacted regarding the presence of any endangered, threatened, or rare species that may be affected by this project. They have not responded at this time. If a response is received, it will be forwarded to the OPSB Staff.

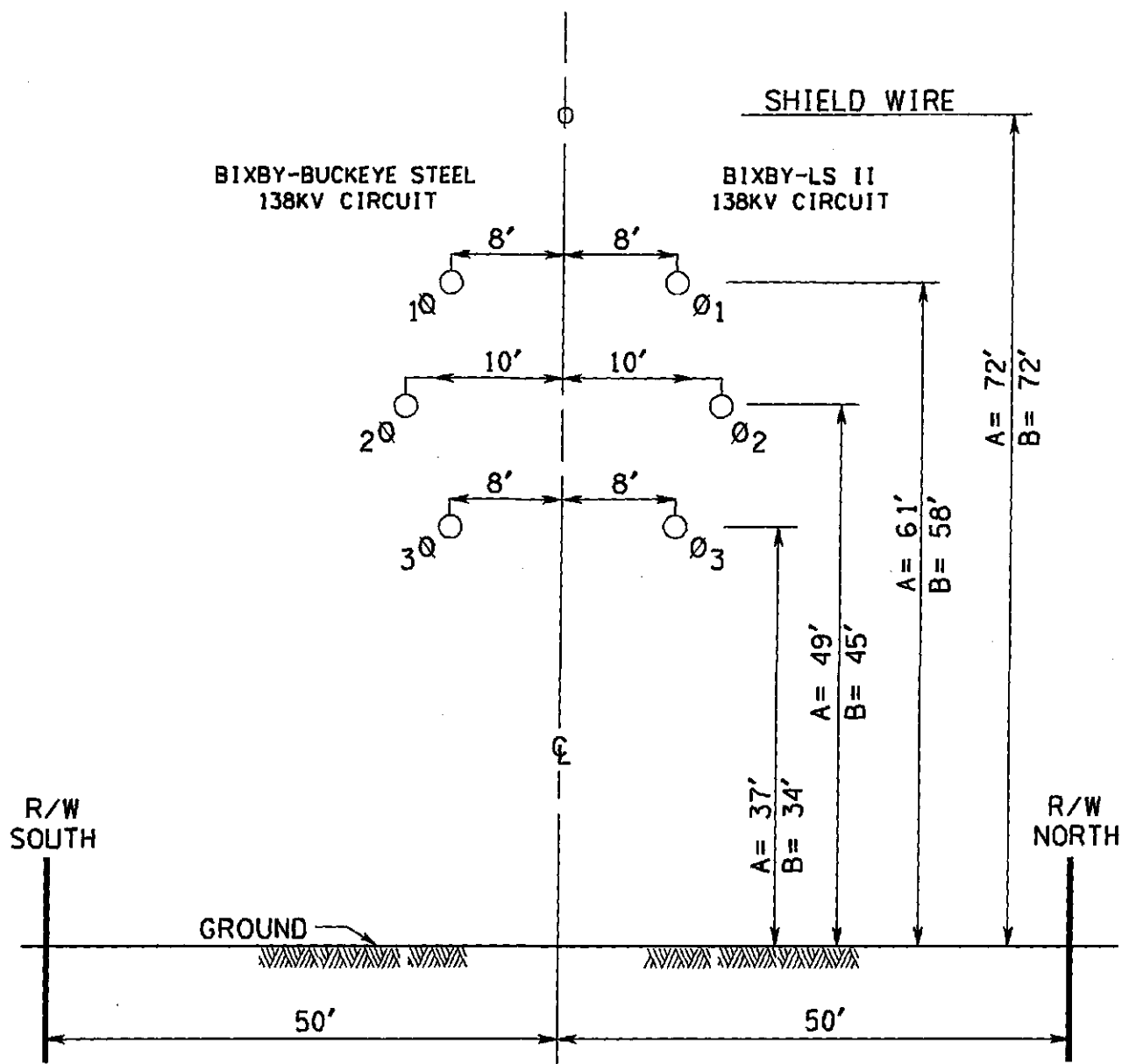
(2) Areas of Ecological Concern

The Ohio Department of Natural Resources, Division of Natural Areas and Preserves was contacted regarding areas of ecological concern in the vicinity of the project. O.D.N.R. did not find any areas of ecological concern in their records. A copy of their response is attached.

(3) Additional Information

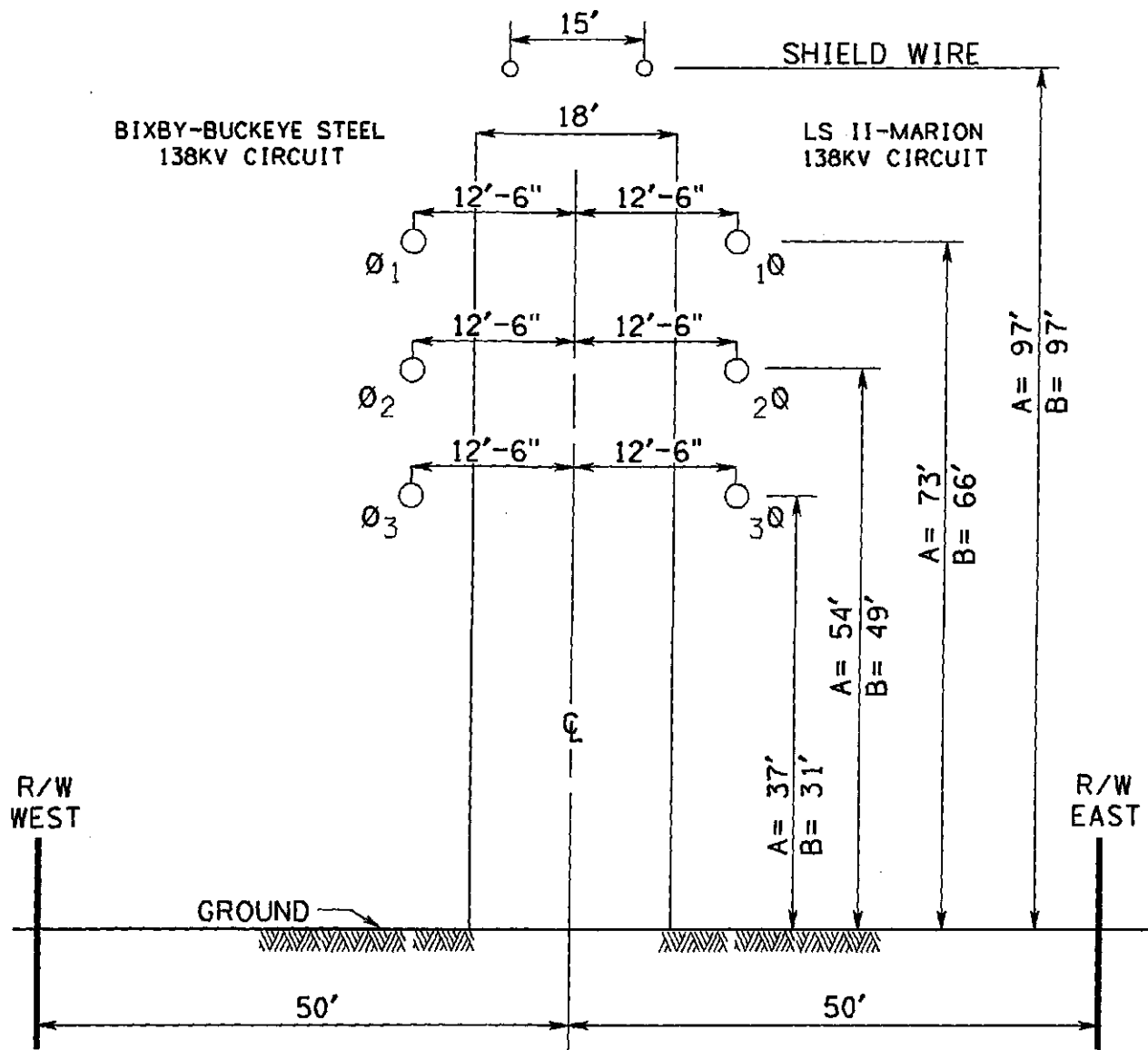
The Ohio Department of Natural Resources, Division of Natural Areas and Preserves located in their investigation that the project route crosses The Creeks Metro Park (Columbus and Franklin Co. Metro Park Dist.) They have included a Southeast Columbus Quad map with the park shown in green. AEP will not be relocating any structures or obtaining any new Right of Way within the Creeks Metro Park.

Appendix



DIMENSION "A" - DOUBLE CIRCUIT - VERT. CONFIGURATION (UNDER EMERGENCY & NORMAL MAX. LINE LOADING)

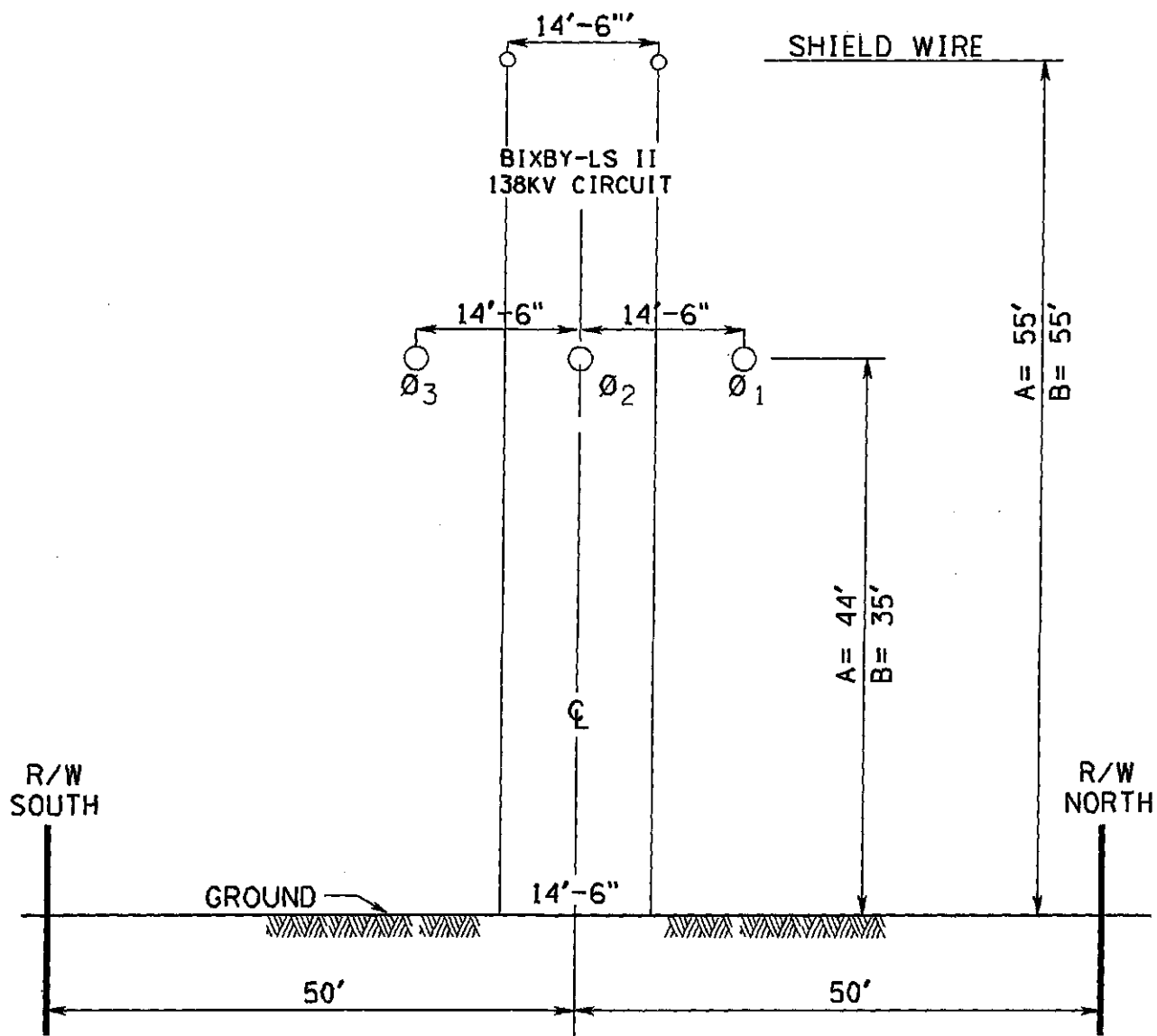
DIMENSION "B" - DOUBLE CIRCUIT - VERT. CONFIGURATION (UNDER WINTER NORMAL CONDUCTOR RATING)



DIMENSION "A" - DOUBLE CIRCUIT - VERT. CONFIGURATION (UNDER EMERGENCY & NORMAL MAX. LINE LOADING)

DIMENSION "B" - DOUBLE CIRCUIT - VERT. CONFIGURATION (UNDER WINTER NORMAL CONDUCTOR RATING)

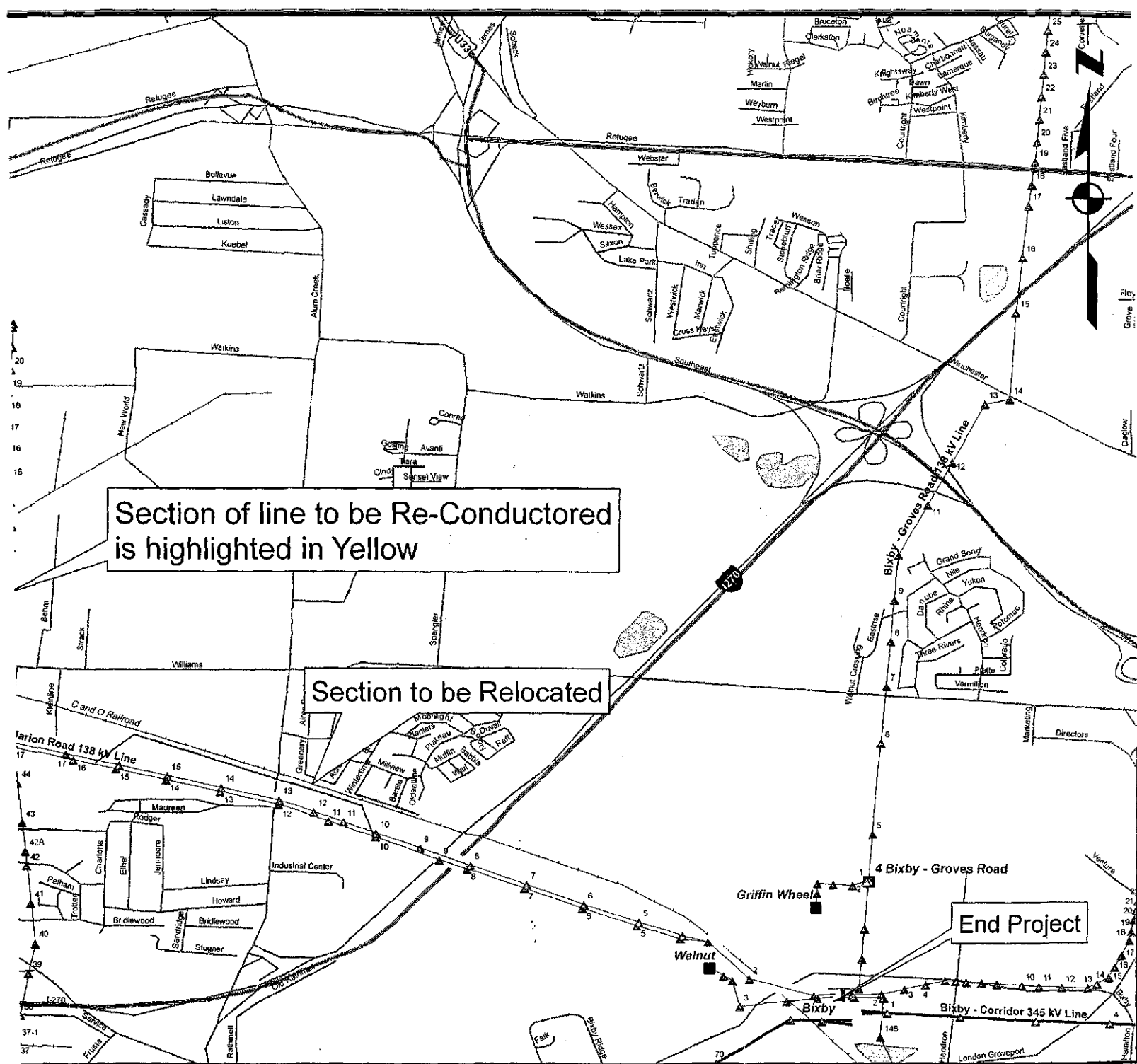
	BIXBY-MARION 138kV
TYPICAL PHASE ARRANGEMENT STEEL TOWER	
NOT TO SCALE	FIGURE 3

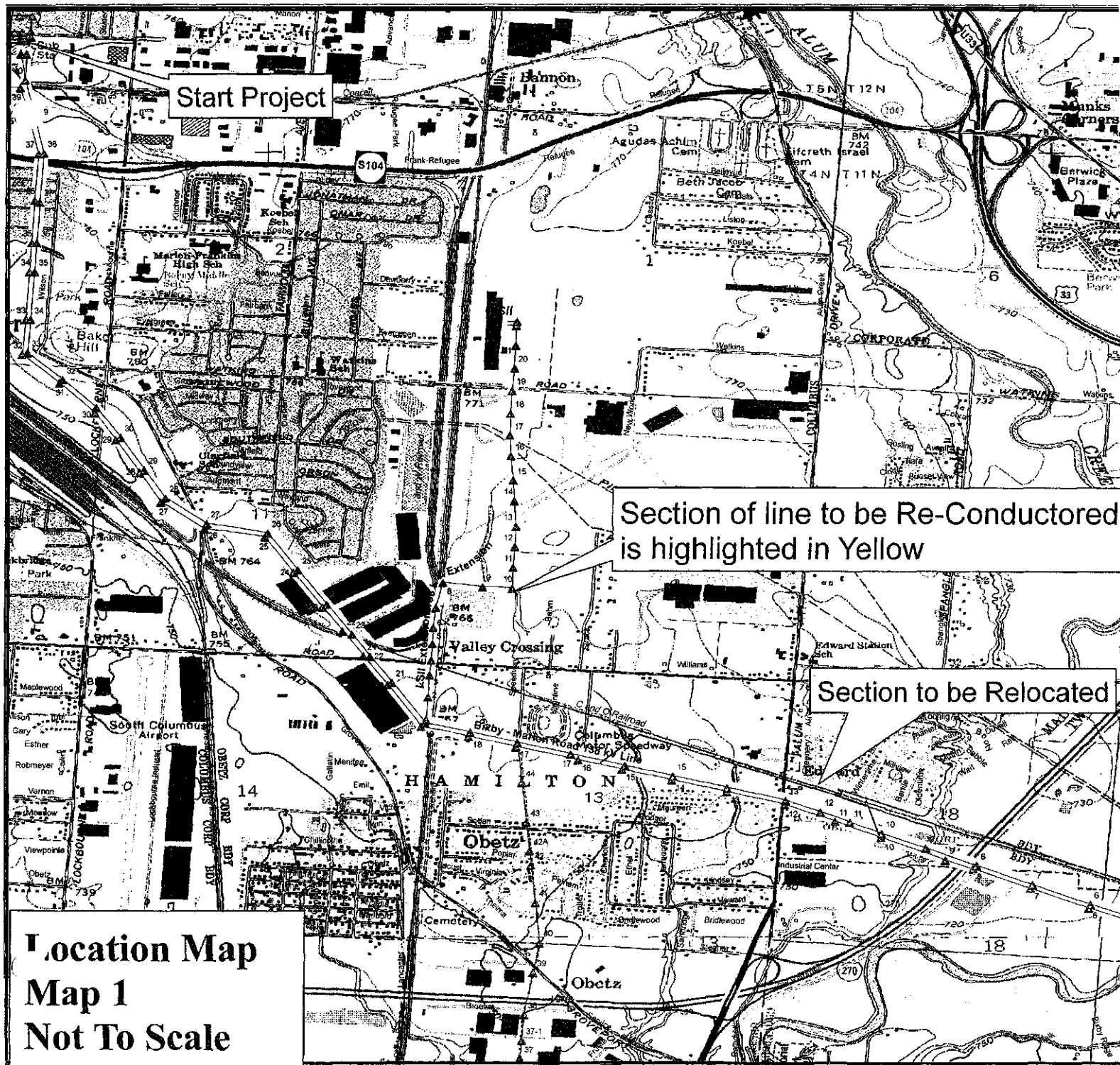


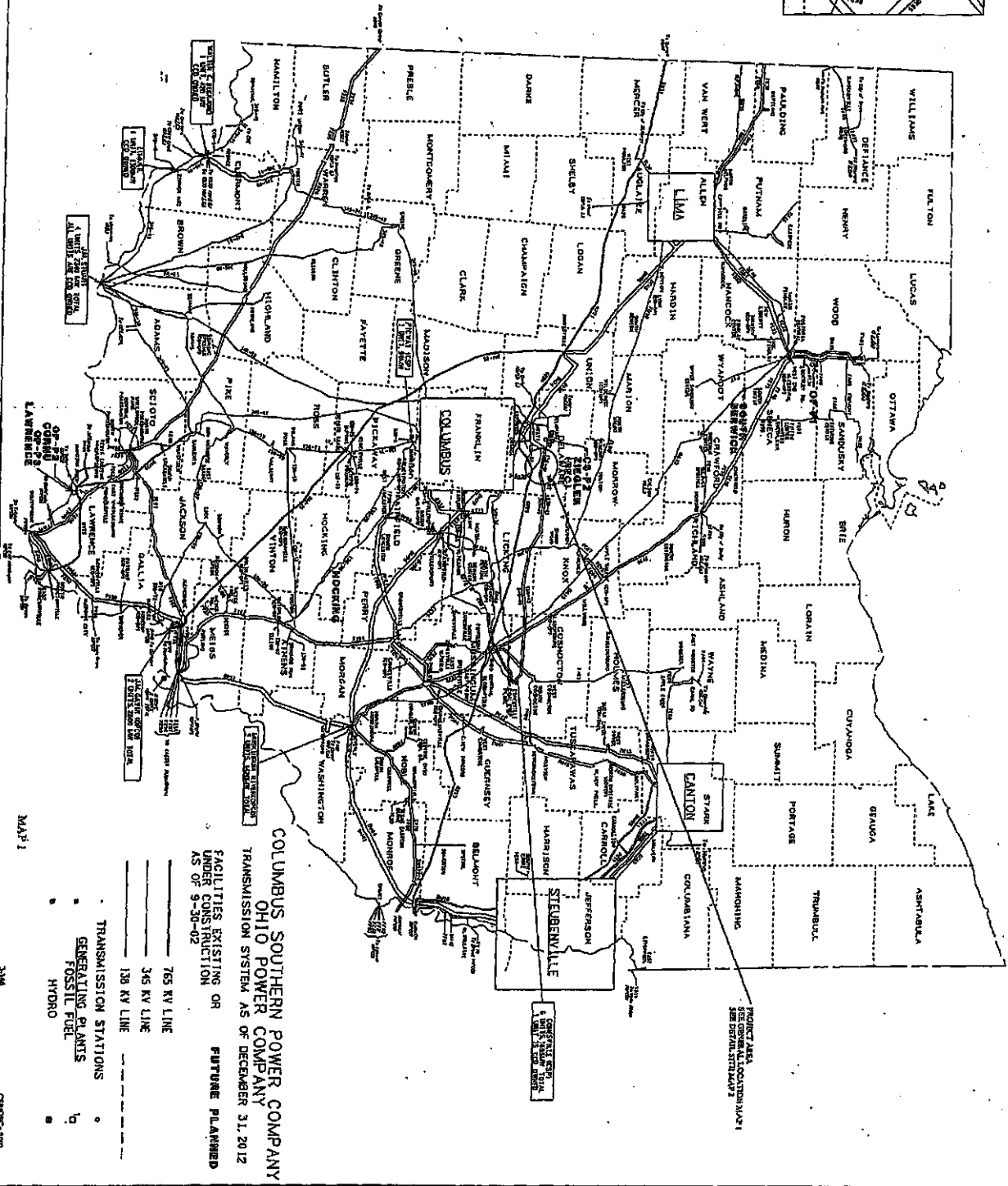
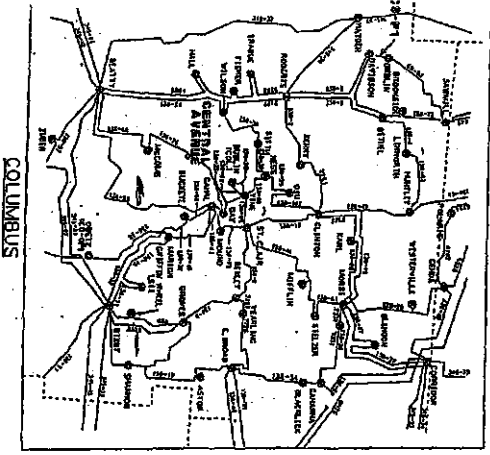
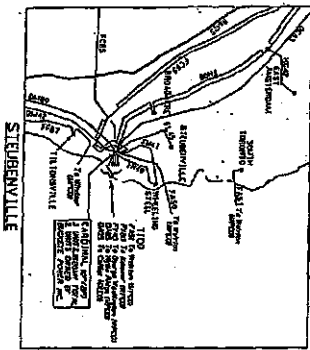
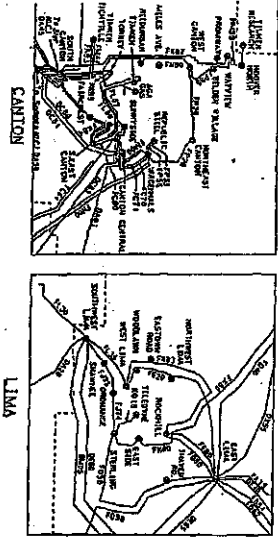
DIMENSION "A" - SINGLE CIRCUIT - HORZ. CONFIGURATION (UNDER EMERGENCY & NORMAL MAX. LINE LOADING)

DIMENSION "B" - SINGLE CIRCUIT - HORZ. CONFIGURATION (UNDER WINTER NORMAL CONDUCTOR RATING)

	BIXBY-MARION 138kV
TYPICAL PHASE ARRANGEMENT WOOD H-FRAME	
NOT TO SCALE	FIGURE 4







Map 3



Ohio Department of Natural Resources

BOB TAFT, GOVERNOR

SAMUEL W. SPECK, DIRECTOR

Division of Natural Areas and Preserves

Tom Linkous, Chief

2045 Morse Rd., Bldg. F-1

Columbus, OH 43229-6693

Phone: (614) 265-6453; Fax: (614) 267-3096

January 25, 2006

Matt Hales
American Electric Power
700 Morrison Rd., 1st Floor
Gahanna, OH 43230

Dear Mr. Hales:

I have reviewed our Natural Heritage maps and files for the Bixby-Marion project area in Hamilton and Madison Townships of Franklin County, and on the Southeast Columbus Quad. We have no records for rare or endangered species within the project area. However, the project route crosses The Creeks Metro Park (Columbus and Franklin Co. Metro Park Dist.). The park is shown in green on the attached map.

There are no existing or proposed state nature preserves or scenic rivers at the project site. We are also unaware of any geologic features, breeding or non-breeding animal concentrations or state parks, forests or wildlife areas in the project vicinity.

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. Please note that although we inventory all types of plant communities, we only maintain records on the highest quality areas. Also, we do not have data for all Ohio wetlands. For National Wetlands Inventory maps, please contact Madge Fitak in the Division of Geological Survey at 614-265-6576.

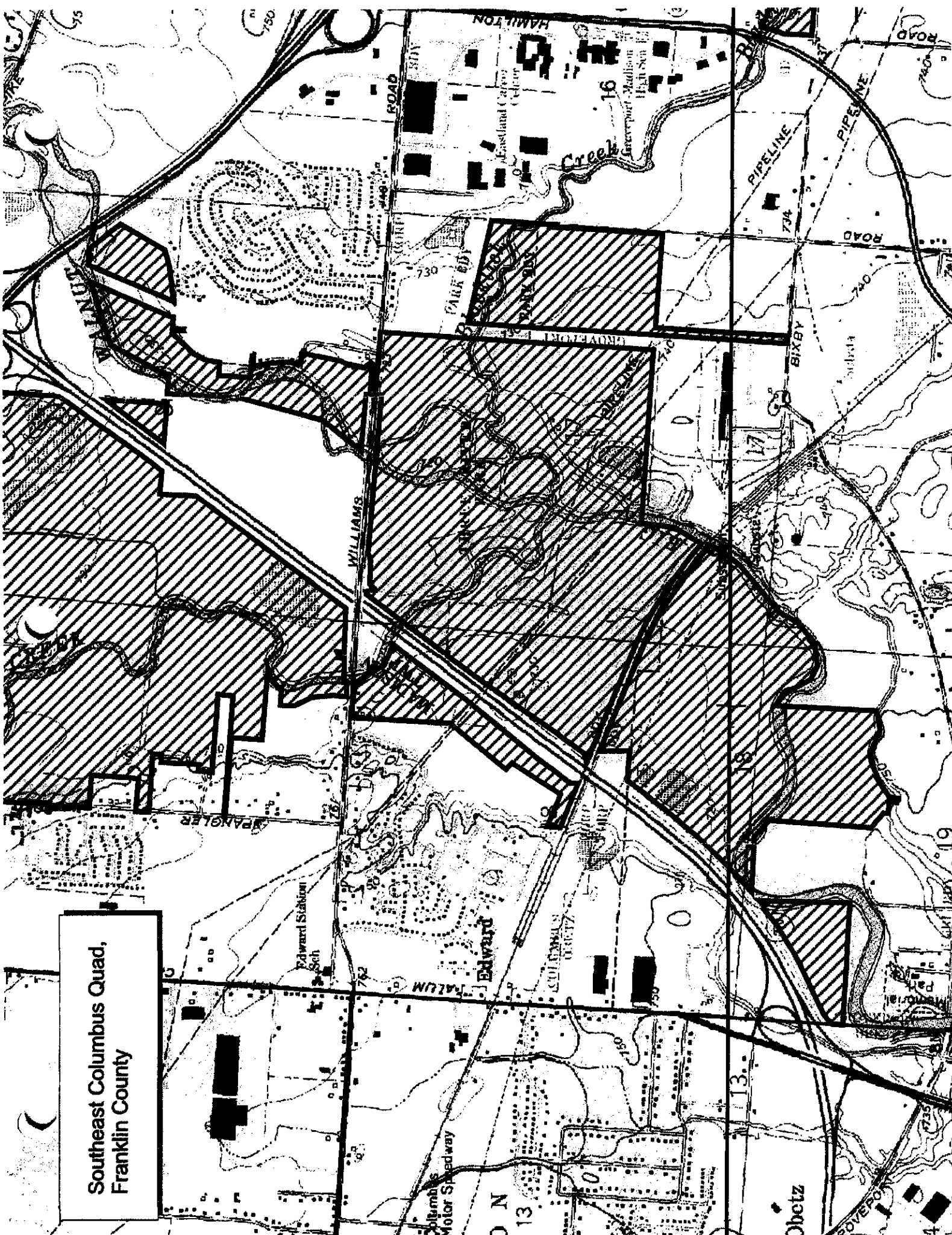
Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

A handwritten signature in cursive script, reading "Debbie Woischke", is positioned above the typed name.

Debbie Woischke, Ecological Analyst
Natural Heritage Program

Southeast Columbus Quad,
Franklin County





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POWER**

Legal Department

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

December 20, 2006

Steven T. Nourse
Senior Counsel –
Regulatory Services
(614) 716-1608 (P)
(614) 716-2014 (F)
stnourse@aep.com

Franklin County Commissioners
Mary Jo Kilroy
Dewey Stokes
Paula Brooks
373 South High Street
Columbus, OH 43215

**Letter of Notification
Bixby –Marion 138kV Line Relocation**

Dear Commissioners:

In accordance with Chapter 4906 of the Ohio Administrative Code, the Ohio Power Company is required to submit a Letter of notification to the State of Ohio Power Siting Board whenever a substantial change is made to our transmission facilities.

American Electric Power is planning to relocate .82 miles on the Bixby – Marion 138kV Line.

In compliance with Rule 4906-15-08 of the OPSB Rules and Regulations, we have prepared and filed the attached Letter of Notification. This Notification contains details on the line location, structure types and construction schedule, and is submitted for your information.

Sincerely,

Steven T. Nourse



Legal Department

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

December 20, 2006

Steven T. Nourse
Senior Counsel –
Regulatory Services
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stnourse@aep.com

Village of Obetz
Mayor Rod E. Davisson
4175 Alum Creek Dr.
Obetz, OH 43207

**Letter of Notification
Bixby –Marion 138kV Line Relocation**

Dear Sir:

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Sincerely,

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Steven T. Nourse



Legal Department

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

December 20, 2006

Steven T. Nourse
Senior Counsel –
Regulatory Services
(614) 716-1608 (P)
(614) 716-2014 (F)
stnourse@aep.com

City of Columbus
Mayor Michael B. Coleman
City Hall 2nd floor
90 West Broad Street
Columbus, OH 43215

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Bixby –Marion 138kV Line Relocation**

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Steven T. Nourse



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Legal Department

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December 20, 2006

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Senior Counsel –
Regulatory Services
(614) 716-1608 (P)
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stnourse@aep.com

Village of Groveport
Mayor Lance Westcamp
655 Blacklick Street
Groveport, OH 43125

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December 20, 2006

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stnourse@aep.com

Hamilton Township Trustees
Shannon Bush
Chris Hann
Jerry Hicks
6400 Lockbourne Rd
Lockbourne, OH 43137

Letter of Notification
Bixby –Marion 138kV Line Relocation

Dear Trustees:

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Legal Department

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1 Riverside Plaza
Columbus, OH 43215
AEP.com

December 20, 2006

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Senior Counsel –
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(614) 716-1608 (P)
(614) 716-2014 (F)
stnourse@aep.com

Madison Township Trustees
Jim Hummel
Susan Brobst
Dennis White
4567 Madison Lane
Columbus, OH 43125

Letter of Notification
Bixby – Marion 138kV Line Relocation

Dear Trustees:

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