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

76 South Main Street
Akron, OH 44308-1890

35

January 31, 2001

Docketing
Ohio Power Siting Board
c/o Public Utilities Commission of Ohio
Borden Bldg., 12th Floor
180 East Broad Street
Columbus, OH 43266-0573

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256-EL-BLN

Dear Docketing:

In accordance with Rule 4906-15-12 of the Ohio Power Siting Board Rules and Regulations, ATSI hereby transmits one (1) original and eleven (11) copies of the enclosed Letter of Notification. The scope of this projects involves the construction of a new 0.5 mile section, single-circuit 345 kV transmission line tap from the existing ATSI Lemoyne substation to the new Troy Energy Facility. The project area is adjacent to Pemberville Road, approximately 0.5 miles south of the intersection of Pemberville Road and U.S. Route 20/23 in Troy Township, Wood County, Ohio.

In accordance with the requirements of O.A.C. 4906-5-02(A)(3), please be advised of the following:

a) Applicant's address: American Transmission Systems, Inc.
c/o FirstEnergy Corp.
76 South Main Street
Akron, Ohio 44308

b) Proposed facilities: Construction of a new 0.5 mile section, single-circuit 345 kV transmission line tap from the existing FirstEnergy Lemoyne substation to the new Troy Energy Facility.

c) Applicant's representative: Mr. Thomas C. Burgess, Manager
Transmission Regulatory Affairs
FirstEnergy Corp.
76 south Main Street
Akron, OH 44308-1890

After docketing, please return a time-stamped copy of this Letter of Notification for our records. We have provided a copy of this Letter of Notification by certified mail, with return receipt requested, to each official of the political subdivisions immediately affected by the proposed project. Attached for your file are transmittal letters addressed to the local government representatives of Troy Township and Wood County, Ohio.

Should the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

Attachment
w/ att: MR Beiting

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

Mr. Anthony Allion
Wood County Engineer
1 Courthouse Square
Bowling Green, OH 43402

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256-EL-BLN

Dear Mr. Allion:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

Ms. Kristy Muir
Wood County Clerk of the Board
1 Courthouse Square
Bowling Green, OH 43402

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256EL-BLN

Dear Ms. Muir:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

The Honorable Alvin Perkins
Wood County Commissioner
1 Courthouse Square
Bowling Green, OH 43402

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256-EL-BLN

Dear Commissioner Perkins:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

The Honorable Tim Brown
Wood County Commissioner
1 Courthouse Square
Bowling Green, OH 43402

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256-EL-BLN

Dear Commissioner Brown:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

The Honorable James Carter
Wood County Commissioner
1 Courthouse Square
Bowling Green, OH 43402

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256-EL-BLN

Dear Commissioner Carter:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

Ms. Linda Biniker
Troy Township Clerk
P.O. Box 128
Luckey, OH 43443

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256EL-BLN

Dear Ms. Biniker:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

The Honorable Wayne Schulte
Troy Township Trustee
P.O. Box 128
Luckey, OH 43443

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256-EL-BLN

Dear Trustee Schulte:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

The Honorable Michael Hoelter
Troy Township Trustee
P.O. Box 128
Luckey, OH 43443

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256-EL-BLN

Dear Trustee Hoelter:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

The Honorable Robert Emans
Troy Township Trustee
P.O. Box 128
Luckey, OH 43443

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256-EL-BLN

Dear Trustee Emans:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

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

76 South Main Street
Akron, OH 44308-1890

January 31, 2001

Mr. David Meismer
Director Wood County Planning Commission
1 Courthouse Square
Bowling Green, OH 43402

Subject: **Letter of Notification**
ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
Case No. 01-256-EL-BLN

Dear Mr. Meismer:

American Transmission Systems, Inc. (ATSI), a subsidiary of FirstEnergy Corp., is proposing to construct a new 0.5 mile section, single-circuit transmission line tap from the existing ATSI Lemoyne Substation to the Troy Energy Facility in Troy Township, Wood County, Ohio. The project area is adjacent to Pemberville Road approximately 0.5 miles south of the intersection of Pemberville Road and U. S. Route 20/23 in Troy Township.

In accordance with the provisions of Ohio Administrative Code (OAC) Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-15-08 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. These materials contain a description of the 345 kV transmission line radial tap project, and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5225, or contact Mr. Ted Krauss at (330) 761-4268.

Very truly yours,

Thomas C. Burgess, Manager
Transmission Regulatory Affairs

attachment

AMERICAN TRANSMISSION SYSTEMS, INC.
A Subsidiary of FirstEnergy Corp.

LETTER OF NOTIFICATION

ATSI's TROY ENERGY 345 kV TRANSMISSION LINE RADIAL TAP PROJECT

OPSB CASE NO. 01-256-EL-BLN

January 31, 2001

American Transmission Systems, Inc.
76 South Main Street
Akron, Ohio 44308

LETTER OF NOTIFICATION
ATSI's TROY ENERGY
345 kV TRANSMISSION LINE RADIAL TAP PROJECT

The following information is being provided in accordance with the procedures delineated in the Ohio Administrative Code Section 4906-15-08 of the Rules and Regulations of the Ohio Power Siting Board.

4906-15-08 (A): Need Statement

4906-15-08 (A) (1): a. Name and Reference Number

Name of Project:	ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project
2000 LTFR Reference:	The Troy Energy Project (Dominion Resources) is identified on page 3-6 of the FirstEnergy Corp.'s 2000 Long-Term Forecast Report submitted to the PUCO. A PUCO Form FE3-T9 for the tap project was not included in the 2000 LTFR.

4906-15-08 (A) (1): b. Brief Description of Project

ATSI's Troy Energy 345 kV Transmission Line Radial Tap Project consists of installing a single 345 kV radial transmission line to connect the Troy Energy Facility to the Lemoyne Substation and raising one span of the existing Lemoyne-Midway Number 1 and Number 2 138 kV transmission lines. The project will be installed in Troy Township, Wood County, Ohio. The Troy Energy 345 kV Transmission Line Radial Tap is approximately 2,830 feet long, and will be located on the open side of two existing 345 kV transmission towers, one wood pole H-frame structure and three wood poles. With the exception of the crossing

of Pemberville Road, the entire route of the transmission line will be routed on land owned currently owned in fee by Dominion Resources through East Ohio Gas or FirstEnergy through Toledo Edison. Routing the transmission line on property owned by East Ohio Gas or Toledo Edison will result in no other property owners being affected and no other right-of-way is required. The proposed route of the new Troy Energy 345 kV Transmission Line Radial Tap will go south from the Troy Energy Facility to a new wood pole H-Frame, then to a new wood three-pole deadend structure and then to the open tower side of two ATSI 345 kV towers. The new tap will follow these towers across Pemberville Road and into the Lemoyne substation. The project includes installing an intermediate 2-pole 138 kV tangent structure to enable the proposed 345 kV transmission line radial tap to pass under the existing Lemoyne-Midway Number 1 and Number 2 138 kV transmission lines. No expansion of the Lemoyne Substation fenced area is required as a part of this project.

Troy Energy, LLC ("Troy Energy") submitted an application to the Ohio Power Siting Board ("OPSB") for a Certificate of Environmental Compatibility and Public Need on October 28, 1999 for the Troy Energy Facility, a new peaking facility in Troy Township, Wood County, Ohio in OPSB Case No. 99-999-EL-BGN. The OPSB Board certificated the project on April 17, 2000. The Troy Energy Facility will be located on approximately 40 acres within the 500 acre Lemoyne Industrial Park owned by East Ohio Gas Company ("EOG"), a subsidiary of Dominion Resources. Troy Energy is a Delaware limited liability

company formed by a joint venture of subsidiaries of Dominion Resources, INC ("DRI") and CNG Power Company. DRI and Consolidated Natural Gas Company (CNG), the parent of CNG Power Company, have merged into Dominion Resources, Inc. Page 2 of Troy Energy's application to the OPSB indicated that "[Troy Energy will tie into the existing Toledo Edison Lemoyne Substation . . . [t]he new gas pipeline and the electric transmission line will both be subject to OPSB jurisdiction and will be submitted to the OPSB for approval in separate cases at a future date." On November 20, 2000, American Transmission Systems, Inc. ("ATSI") and Dominion Equipment, Inc., as Supervisor Agent entered into a Generation Interconnection and Operating Agreement. Exhibit 1 of this agreement provides the following general description of the Interconnected Facilities:

> ATSI will utilize the existing 345 kV transmission towers and install a new line from the Lemoyne Substation to a dead-end structure that is located in the Troy Energy Substation and is supplied by Generation Owner. ATSI will apply for the OPSB Letter of Notification and all other required approvals and permits. ATSI will own the line from the Lemoyne Substation to the Troy Energy Substation. ATSI will be responsible for maintaining the line from the Lemoyne Substation to the Troy Energy Substation. Generation Owner will give ATSI an easement for construction of a future alternate 345 kV line on Generation Owner property. Cost of the easement will be $1 plus Real Estate and Transmission Engineering costs associated with reviewing the easement. Generation Owner also agrees to pay ATSI for the cost of the future new line and the cost of the required substation improvements, a portion of which will be used by ATSI to establish the initial construction.
>
> In the future, when ATSI determines there is a need to use the open tower side, ATSI will build the transmission line from Lemoyne to the existing Generation Owner 345 kV line where it taps off the ATSI structure. ATSI will incur all costs for this new line at no expense to Generation Owner. At that time, Generation Owner will have the option of taking ownership of the new (separate) 345 kV line at mutually agreeable terms and conditions by the Parties.

4906-15-08 (A) (1): c. Need for the Project

The Troy Energy 345 kV Transmission Line Radial Tap is needed to connect the OPSB certificated Troy Energy Facility with the regional transmission grid operated by ATSI.

4906-15-08 (A) (1): d. Why the Project Meets the Requirements for a Letter of Notification

This project meets the requirements for a Letter of Notification because the project is within the types of project defined by Items (1) (a) and (4) (a) of the Application Requirement Matrix for Electric Transmission Lines in Appendix A of 4906-1-01 of the Ohio Administrative Code. Which indicates:

(1) Rerouting or extensions or new construction of single or multiple circuit electric transmission line(s) as follows:

(a) Line(s) three hundred kV and above, and not greater than one mile in length;

(4) Replacing transmission line structure(s) with a different type of structure(s) and:

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

The proposed Troy Energy 345 kV Transmission Line Radial Tap operates at 345 kV and is approximately 2,830 feet in length. The new transmission line structure being installed along the centerline of the Lemoyne-Midway Number 1 and Number 2 138 kV transmission lines circuits within the existing right-of-way, and does not require new right-of-way.

4906-15-08 (A) (2): Location Relative to Existing or Proposed Lines

The general location for the proposed Troy Energy 345 kV Transmission Line Radial Tap project is shown on Exhibit No. 1. Exhibit No. 1 is a map showing a portion of ATSI's 345 kV and 138 kV transmission lines that were in service as of December 31, 1999. This exhibit is a portion of Map 4, FirstEnergy System Facilities, included in FirstEnergy's 2000 Long-Term Forecast Report to the PUCO under rules 4901:5-5:04 (C) of the Ohio Administrative Code. The arrangement of the new structures of the Troy Energy 345 kV Transmission Line Radial Tap project are shown on Exhibits No. 2a through 2e. The general locations of the structures of the Troy Energy 345 kV Radial Tap Project are shown on Exhibit No. 3. A map depicting the general location of the Troy Energy 345 kV Transmission Line Radial Tap Project is attached as Exhibit No. 4.

4906-15-08 (A) (3): Alternatives Considered

The general area between the Troy Energy Facility and the ATSI Lemoyne Substation was reviewed to determine the most appropriate location for the Troy Energy 345 kV Transmission Line Radial Tap. The proposed route utilizes 345 kV open positions on existing towers and follows the most direct path between the Troy Energy Facility and the ATSI Lemoyne Substation. By utilizing the open tower positions, impacts to the residence north of the Lemoyne Substation will be avoided. Due to the short distance of this route and the land is either owned by Toledo Edison or EOG, it will not be necessary to acquire any additional right-of-way. Installing the radial tap on new structures was considered

but is not being pursued at this time. However, it should be noted that the open arm position on the existing ATSI transmission line towers may be required for a future ATSI transmission project. This could require the relocation, including obtaining the necessary regulatory approvals, of the portion of the Troy Energy 345 kV Transmission Line Radial Tap installed on the open arms to a new set of structures. Any new structures however, would be expected to be located on land presently owned by Dominion East Ohio Gas, FirstEnergy or ATSI, therefore no new right-of-way is expected to be required.

4906-15-08 (A) (4): Construction Schedule

ATSI's construction of the Troy Energy 345 kV Transmission Line Radial Tap is scheduled to begin on September 1, 2001 and completed by December 15, 2001. OAC Section 4906-5-03 (A) (1) states that a letter of notification shall be filed not less than ninety days before planned commencement of construction.

4906-15-08 (A) (5): Area Map

Attached, as Exhibit No. 4 is a map depicting the general location of the project site. To locate and view the project site from Interstate 75, take the State Route 582 exit from Interstate 75 located approximately 7 miles north of Bowling Green, Ohio. Travel east on State Route 582 (Gilbert Road) approximately 10 miles following several turns through Luckey, Ohio. At Pemberville Road, turn north and travel approximately 1.7 miles to the project area.

To locate and view the project site from the Ohio Turnpike, Interstate 80, take the Interstate 280/ State Route 420 exit from the turnpike. Travel south on State Route 420 approximately 3 miles to U.S. Route 20/23. Travel east on U.S. Route 20/23 approximately 0.5 miles to Pemberville Road. Travel south on Pemberville Road approximately 1 mile to the project area.

4906-15-08 (B): Technical Features of the Project

4906-15-08 (B) (1): Operating Characteristics

Operating Characteristics of the Troy Energy 345 kV Radial Tap

The new Troy Energy 345 kV Transmission Line Radial Tap will be designed and constructed for 345 kV operation. The tap will be supported on one new wood pole H-Frame structure, one new wood three-pole deadend structure and the open side of two existing ATSI 345 kV towers.

Voltage:	345 kV
New conductor:	954 kcmil 48/7 ACSR (twin bundled)
Static wire:	7 #8 Alumoweld
Insulators:	Suspension
Structure type:	Exhibit No. 2a, 2B, 2c, 2d

Operating Characteristics of the Lemoyne-Midway Number 1 and Number 2 138 kV Transmission Lines

In order to provide the clearance necessary for the Troy Energy 345 kV Radial Tap to pass under the existing Lemoyne-Midway Number 1 and Number 2 138

kV Transmission Lines, it is necessary to install an intermediate wood 2-pole 138 kV tangent structure within the centerline of the existing transmission line. This structure will be designed and constructed for 138 kV operation and is shown in Exhibit 2e..

Voltage:	138 kV
Existing conductors:	338 kcmil 30/7 ACSR
Existing static wire:	7 #8 Alumoweld
Insulators:	Horizontal Post
Structure type:	Exhibit No. 2e

4906-15-08 (B) (2) (a): Calculated Electric and Magnetic Fields

The following table itemizes the line loading of the proposed Troy Energy 345 kV Transmission Line Radial Tap and the raised portion of the Lemoyne-Midway Number 1 and Number 2 138 kV Transmission Lines. The normal maximum line loading of the Troy Energy 345 kV Transmission Line Radial Tap is estimated on the proposed total output of 600 MW for the four proposed 150 MW Troy Energy combustion turbines. As the tap is a radial transmission path, the emergency line loading of the tap is the same as the normal maximum line loading. The winter normal conductor rating of the tap is based on the maximum winter rating of bundled 954 kcmil ACSR conductor.

Raising the conductors of the Lemoyne-Midway Number 1 and Number 2 138 kV Transmission Lines does not affect the line loading of these transmission lines.

The impact of operation of the Troy Energy Project has been projected in a 2002 FirstEnergy Summer System Peak load flow case. The maximum normal line loading of these transmission lines is based on projected load flow case information. The emergency line loadings of these transmission lines represent the expected flows for single contingencies on the transmission system impacting either the 345 kV or the 138 kV circuits. The winter normal conductor rating of these transmission lines is based on the maximum winter rating of the conductors.

Projected 2002 Line Loading

Line Name (System ID)	Normal Loading Amps	Emergency Loading Amps	Winter Rating Amps
Troy Energy 345 kV Radial Tap	1004	1004	3770
Lemoyne-Midway 345 kV (S-7-LE-MW)	521	598	2060
Lemoyne-Midway No. 1 138 kV (Q-7-LE-MW)	155	254	682
Lemoyne-Midway No. 2 138 kV (Q-8-LE-MW-X)	319	420	682

The following EMF calculations were performed using the EPRI EXPOCALC program software. This program assumes the input transmission line configuration is located on flat terrain and multiple circuits are in a parallel configuration. Also, a balanced, three phase circuit loading is assumed for the transmission circuits.

The one new and the three existing transmission lines in the project area were modeled in the EMF calculations. These transmission lines consist of the new Troy Energy 345 kV Radial Tap, the existing Lemoyne-Midway Number 1 and Number 2 138 kV transmission lines, and the Lemoyne-Midway 345 kV transmission line. The model developed for the EMF calculations was based on the arrangement of the transmission lines near tower 17 of the Lemoyne-Midway Number 1 and 2 138 kV transmission lines and tower 131 of the Lemoyne-Midway 345 kV transmission line. The locations of towers 17 and 131 are shown on Exhibit No. 3. Assumptions used to develop the model included: 1) the existing Lemoyne-Midway Number 1 and Number 2 138 kV transmission line are supported on a series of common structures separated by 120 feet from the common structures supporting the existing Lemoyne-Midway 345 kV transmission line and the new Troy Energy 345 kV transmission line radial tap; 2) all four transmission lines are parallel; 3) a conductor span between towers of 1,146 feet, and; 4) the distance from the tower centerlines to the edge of the right-of-way is 75 feet.

EMF Calculations

	Electric Field kV/meter	Magnetic Field kV/meter
Normal Loading		
Maximum	4.1	60.5
Edges of right-of-way	0.57 / 0.20	24.7 / 3.8
Under the 345 kV tap	3.37	53.4
Under the 345 kV line	2.71	32.8
Under the 138 kV lines	0.77	55.5
Emergency Loading		
Maximum	4.1	87.6
Edge of right-of-way	0.57 / 0.20	23.9 / 8.7
Under the 345 kV tap	3.37	55.0
Under the 345 kV line	2.71	33.1
Under the 138 kV lines	0.77	8.7
Winter Normal Conductor Rating		
Maximum	4.1	214.9
Edge of right-of-way	0.57 / 0.20	91.5 / 15.7
Under the 345 kV tap	3.37	204.5
Under the 345 kV line	2.71	121.6
Under the 138 kV lines	0.77	156.9

4906-15-08 (B) (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. Electrical appliances and power equipment generate EMFs, essentially anywhere there is a flow of electricity. 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. These fields are too weak to break molecules or chemical bonds.

Although scientists have performed numerous studies to determine whether EMFs are associated with adverse health effects, at this time there is no basis to conclude that EMFs cause adverse health effects. Extensive research has been conducted over the past two decades. A number of independent scientific panels have reviewed this research and have stated that there is no basis to conclude that EMFs cause adverse health effects, nor has it been shown that the levels experienced 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 exists that exposure may pose a leukemia hazard. However, the Director further stated that the conclusion of this report is insufficient to warrant aggressive regulatory concern. ATSI will monitor continuing EMF

research including ongoing studies of neurological diseases and cardiac diseases associated with heart rate variability and report on any findings in the future.

4906-15-08 (B) (3): Estimated Costs

The following are the estimated capital costs by FERC Accounts for the Troy Energy 345 kV Radial Tap Project:

Account	Capital Cost
355 Poles and Fixtures	$ 41,400
356 Overhead Conductors and Devices	$174,500
Removal	$ 1,000
Total Cash Required	$216,900

4906-15-08 C: Socioeconomic Data

4906-15-08 (C) (1): Land Use

The existing land use in the project area is agricultural with a few exceptions, ATSI's Lemoyne Substation and the proposed Troy Energy facility and the proposed 500 acre industrial park that it is located within. Based on the U.S. Bureau of Census estimates, the 1990 population of Wood County was 113,269 and is projected to be 124,591 in 2010. The 1990 population of Troy Township was 3,848 and is projected to be 3,863 in 2010.

4906-15-08 (C) (2): Existing Agricultural Districts

As the Troy Energy 345 kV Transmission Line Radial Tap project is located on property owned by Toledo Edison or Dominion Resources, the viability of agricultural districts will not be adversely impacted by the proposed project.

4906-15-08 (C) (3): Archaeological or Cultural Resources

Dames & Moore completed a cultural resources survey and a Phase I archaeological survey as part of the development of the application for the Troy Energy Facility submitted to the OPSB. This study included an evaluation of the Troy Energy Facility site and potential transmission line corridors. A copy of the September, 1999 Dames & Moore OH-18 Proposed Electric Generating Facility and Utility Corridors Phase I Archeological Survey is contained in Appendix 07-2 of the application submitted to the OPSB for the Troy Energy Facility in Case No. 99-999-EL-BGN. As indicated in the study:

> There were limited archaeological findings in the proposed construction areas, indicating low-intensity land use by prehistoric Native Americans, reflecting the intensive agricultural use of the past 100 to 150 years. No prehistoric sites or European sites were identified within the project area. The isolated artifact finds within the project area do not possess any further research potential. Therefore, no further archaeological investigation is recommended. No significant properties will be affected by the construction nor is the defined area of archaeological study eligible for listing in the National Register of Historic Places (NRHP).

The areas evaluated by Dames & Moore are adjacent to the proposed location of the Troy Energy 345 kV Radial Tap Project. A large portion of the radial tap project constructed on the existing transmission structures will not require earth moving and is therefore expected to have little potential for impact on archaeological sites in the immediate area of the project. The wood pole structures to be installed will involve very limited earth disturbing activities, and therefore has limited potential for impacting archaeological sites. The wood pole structures are located immediately adjacent to the areas previously investigated by

Dames & Moore. The historic land use of the location of the wood poles and the area previously investigated should be almost identical. Because the installation of the wood poles has little potential for impacting archaeological sites and because the Dames & Moore Phase I Study has demonstrated that no significant properties will be affected by the construction in the adjacent area, no additional archaeological investigation is proposed.

4906-15-08 (C) (4): a. Documentation of Letter of Notification Transmittal

This letter of notification is being provided concurrently to the Troy Township Clerk, Troy Township Trustees, Wood County Commissioners, Wood County Commissioner's Clerk, Wood County Planning Commission, and the Wood County Engineer. Copies of the transmittal letters to these officials have been included with the transmittal letter submitting this letter of notification to the Ohio Power Siting Board.

4906-15-08 (C) (4): b. Public Information Program

During the site selection process of the Troy Energy Facility, representatives of Troy Energy met with local officials including the Wood County Commissioners, the Wood County Economic Development Commission, the Troy Township Trustees and the Superintendent of Schools on several occasions to keep them informed of the project status. Troy Energy also held a public information meeting in Luckey, Ohio on August 31, 1999. In addition, Troy Energy sent letters to all local government officials and property owners in the general vicinity

of the proposed plant. The public informational meeting consisted of a presentation by Troy Energy and information booths that allowed local residents to learn about the facility and have their questions addressed. FirstEnergy's Area Manager will advise local officials of features and the status of the Troy Energy 345 kV Transmission Line Radial Tap as necessary.

4906-15-08 (C) (5): Current or Pending Litigation

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

4906-15-08 (C) (6): Local, State, and Federal Requirements

There are no known local, state, or federal requirements that must be met prior to commencement of construction on the Troy Energy 345 kV Transmission Line Radial Tap Project.

4906-15-08 (D): Environmental Data

4906-15-08 (D) (1): Endangered, Threatened, and Rare Species Investigation

An ecological impact evaluation, including an evaluation of endangered, threatened and rare species, was performed for an area within a 0.50 mile radius of the Troy Energy Facility site as reported in the application submitted to the OPSB for the Troy Energy Facility in Case No. 99-999-EL-BGN. As indicated on page 94 of the application:

> Construction of the facility will not impact major species, including commercial, recreational, endangered or threatened facilities and animals. Two (2) factors form the basis for this conclusion. First, no loss of native vegetation or habitat will occur as a result of construction, and second

there are few or no individuals of the major species present within the construction area. The lack of abundance and diversity of wildlife in the area results from the dominant covertype, that is large agricultural fields without dividing fence rows composed of native vegetation. This agricultural covertype does not provide the broad variety of forage, refuge, and nesting opportunities that are necessary to attract an abundant and diverse wildlife community.

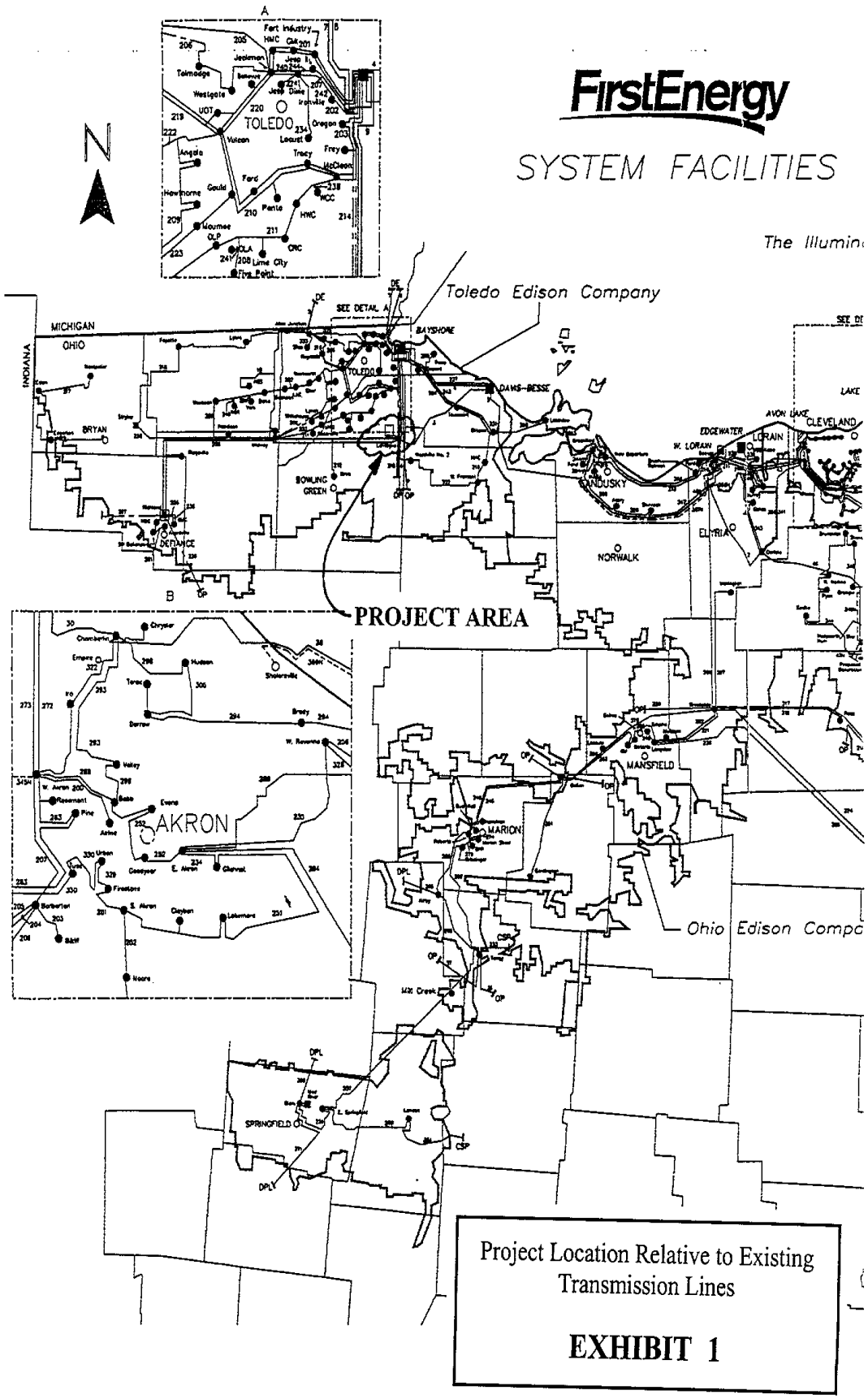
The proposed Troy Energy 345 kV Radial Tap Project is within the area already evaluated, it is unlikely that the construction of the project will impact endangered, threatened or rare species.

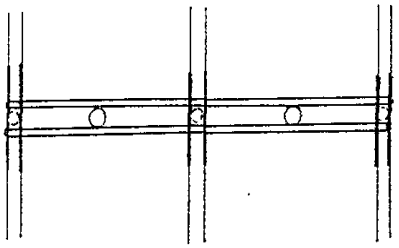
4906-15-08 (D) (2): Areas of Ecological Concern

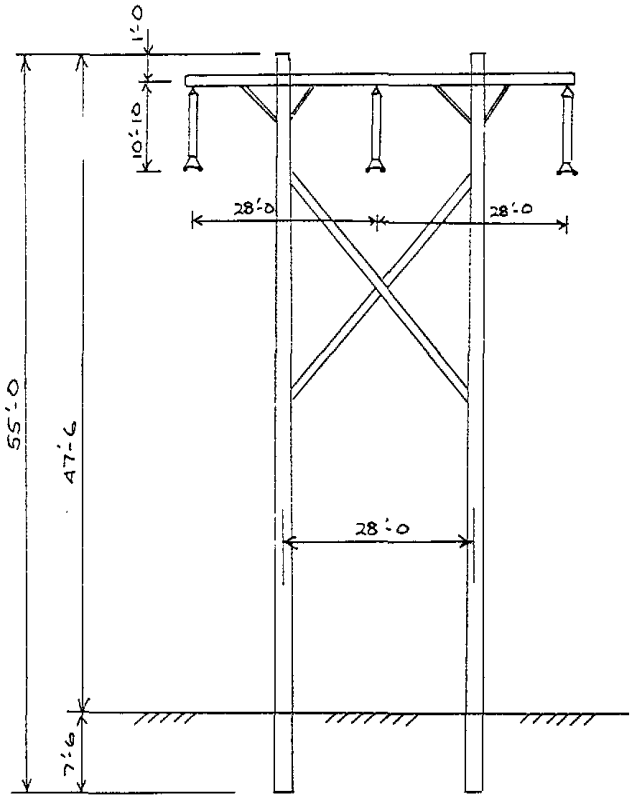
No areas of ecological concern have been identified in the immediate vicinity of the Troy Energy 345 kV Radial Tap Project.

4906-15-08 (D) (3): Additional Information

Construction and operation of the proposed Troy Energy 345 kV Radial Tap 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.

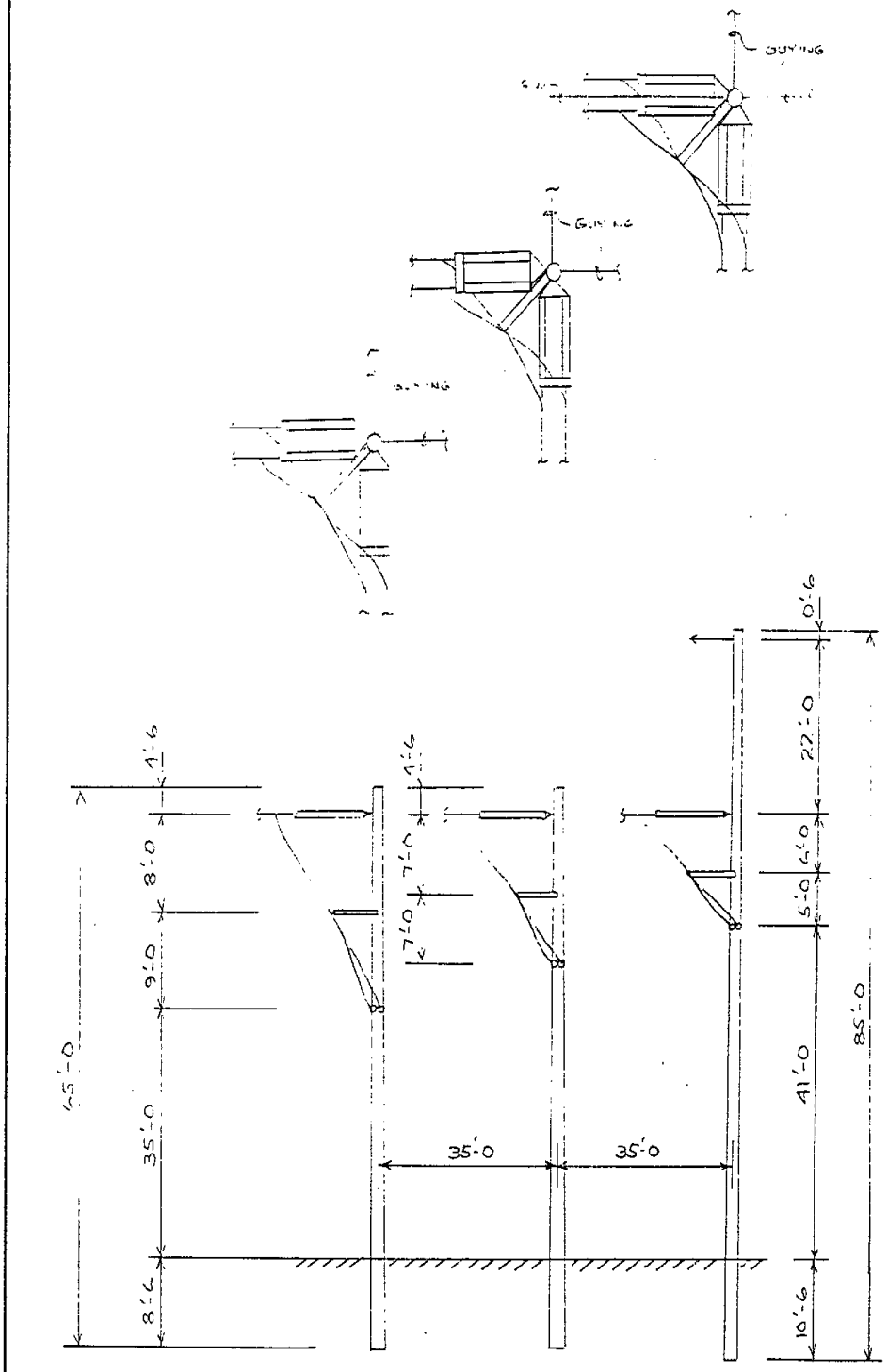

FirstEnergy
SYSTEM FACILITIES
The Illumin
N
TOLEDO
Toledo Edison Company
MICHIGAN
OHIO
INDIANA
BAYSHORE
DAVIS-BESSE
BRYAN
BOWLING GREEN
FOSTORIA
FINDLAY
SANDUSKY
NORWALK
ELYRIA
LORAIN
EDGEWATER
AVON LAKE
CLEVELAND
LAKE
PROJECT AREA
AKRON
MANSFIELD
MARION
Ohio Edison Compa
SPRINGFIELD
Project Location Relative to Existing Transmission Lines
EXHIBIT 1





CE-00-55-X

THIS IS AN ACAD DRAWING. DON'T REVISE MANUALLY !					TROY 345kV
REV.	DATE	BY	APP.	DESCRIPTION	
DIV. G.O. SC. X			DEPT. TDTSD JOB NO. ZL610	FirstEnergy AKRON, OHIO	H-FRAME TANGENT STRUCTURE
DR. DRK, JR DA. 12/00			CHK. APP. DLM 12/00		DWG. NO. EXHIBIT 2a SHEET REV.



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REV.	DATE	BY	APP.	DESCRIPTION

TROY 345kV

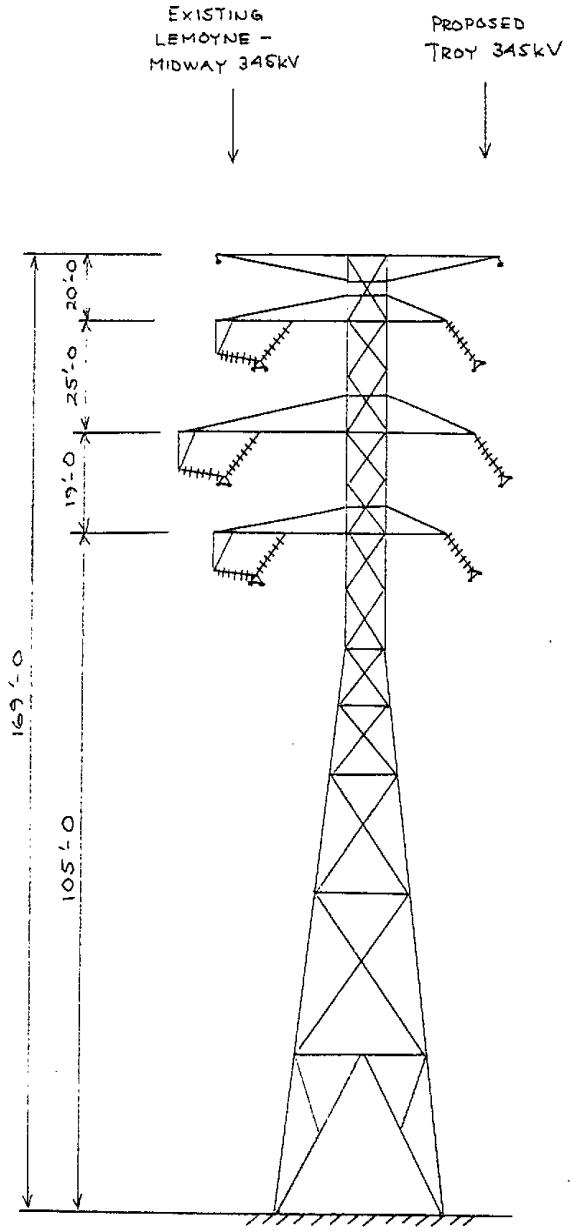
DIV. G.O. DEPT. TDTSD
SC. ~ JOB NO. 2L610

FirstEnergy
AKRON, OHIO

DR. DRK.JR. CHK.
DA. 12/00 APP. DCM 12/00

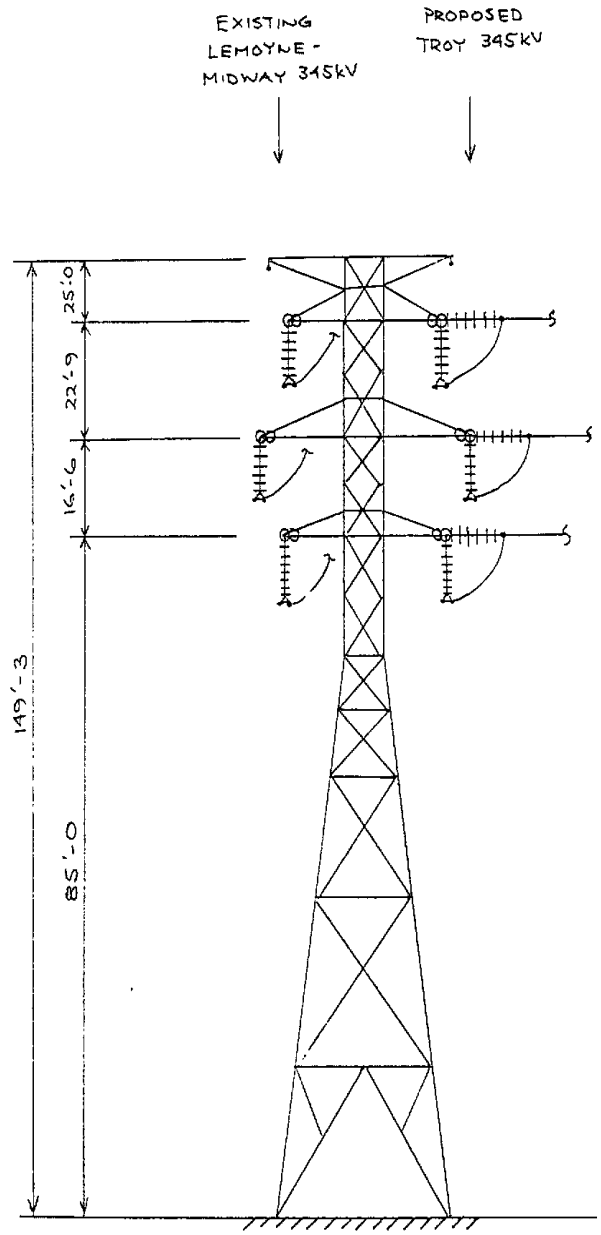
DWG. NO. EXHIBIT 2b

SHEET REV.



CE-00-55-X

THIS IS AN ACAD DRAWING. DON'T REVISE MANUALLY !					TROY 345kV
REV.	DATE	BY	APP.	DESCRIPTION	
DIV. G.O		DEPT. TDTSD		FirstEnergy	PULL-OFF TOWER
SC. ~		JOB NO. 2LC10		AKRON, OHIO	
DR. DRK JR		CHK.		DWG. NO. EXHIBIT 2c	SHEET / REV.
DA. 12/00		APP. DLM 12/00			



CE-00-55-X

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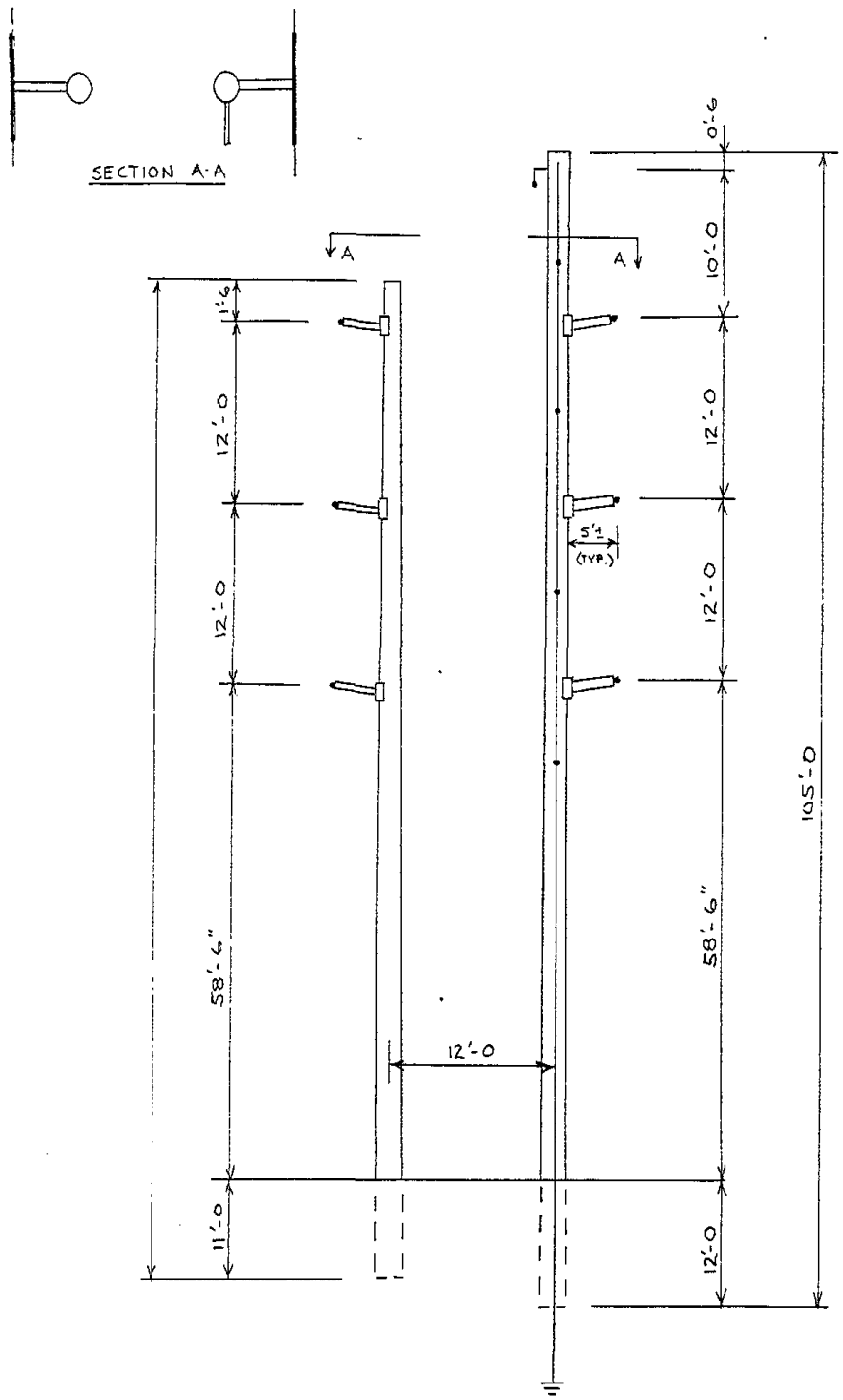
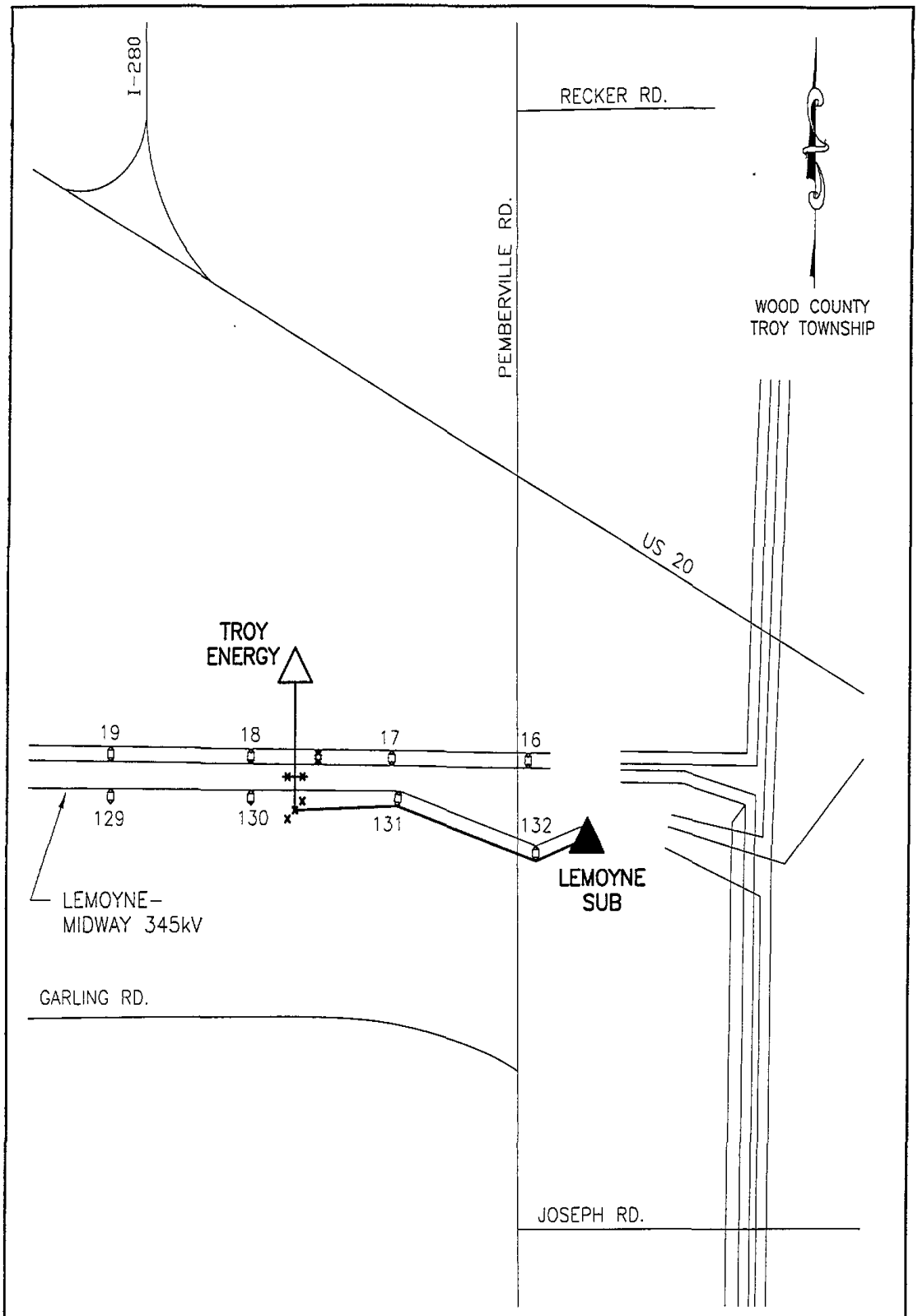
REV.	DATE	BY	APP.	DESCRIPTION		
DIV. G.O. SC. ~			DEPT. TDTSD JOB NO. 2L610	FirstEnergy AKRON, OHIO	TROY 345kV DEADEND TOWER	
DR. DRK, JR DA. 12/00			CHK. APP. DCH 12/00		DWG. NO. EXHIBIT 2d	SHEET REV.

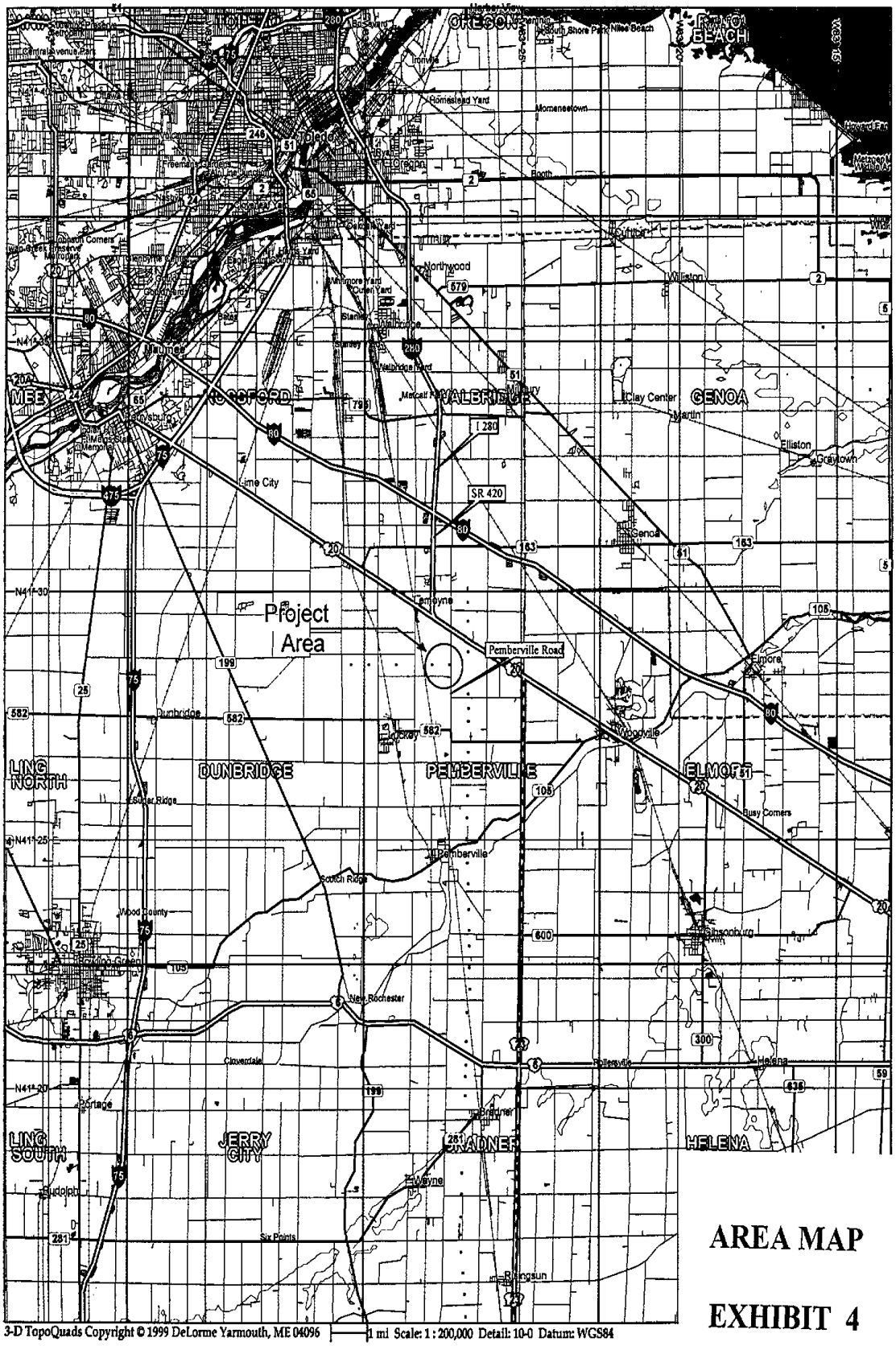
FORM 151A (REV. 4-84) ID NO. 5802121



	CE-00-55-X		TROY 345kV 2-POLE, DOUBLE-CIRCUIT, 138kV TANGENT (FOR RAISING 138kV TO ALLOW 345kV THROUGH)
DIV. G.O.	DEPT. T&DSD	OHIOEDISON AKRON, OHIO	
SC. ~	JOB NO. ZL610		
DR. DRK, JR	CHK.		DWG. NO. EXHIBIT 2e
DA. 12/00	APP. DL & 12/00		SHEET / REV.



ISSUE DATE: ☐ CONSTRUCTION ☐ AS BUILT ☐ RECORD	DR. SJM 12/00 CHK. INS. APP. DRV. TR 12/00	OPERATING COMPANY TOLEDO EDISON C.E. 00-55-X ENG. W.O. R/W W.O. SC. ~	FirstEnergy Akron, Ohio T & D Technical Services Transmission Engineering	TROY 345kV TAP TO TROY ENERGY L.L.C. PROPOSED ARRANGEMENT DWG NO. EXHIBIT 3 SHEET REV.



AREA MAP

EXHIBIT 4