

March 31, 2010

Ms. Renee J. Jenkins  
Director, Administration Department  
Secretary to the Commission  
Docketing Division  
The Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus, OH 43215-3793

PUCO

2010 APR - 1 AM 10:30

RECEIVED-DOCKETING DIV

**Construction Notice**  
**Edgewater Substation 138 kV Substation Strain Bus**  
**Relocation Project**  
**Case No. 10-423-EL-BNR**

Dear Ms. Jenkins:

In accordance with Rule 4906-1-11, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., transmits one (1) original and eleven (11) copies of the enclosed Construction Notice. In this project, ATSI is proposing to install a single steel pole with concrete foundation, a tubular steel dead end structure supported by a reinforced concrete foundation and relocate a portion of the 138 kV strain bus located at the Edgewater Substation to facilitate the future demolition of the boiler house and turbine building at the Edgewater generating station. The project is located at the Edgewater Substation adjacent to the intersection of Oberlin Avenue and West 2<sup>nd</sup> Street in the city of Lorain, Lorain County, Ohio.

Please be advised of the following:

a) Name and address of the applicant:

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

b) Name of proposed facilities:

Edgewater Substation 138 kV Substation Strain Bus Relocation.

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.  
Technician mm Date Processed 04/01/10

March 31, 2010

c) Location of proposed facilities:

The project is located at the Edgewater Substation in the city of Lorain, Lorain County, Ohio.

d) Description of proposed facilities:

ATSI is proposing to install a single steel pole with concrete foundation, a tubular steel dead end structure supported by a reinforced concrete foundation and relocate a portion of the 138 kV substation strain bus at the Edgewater Substation.

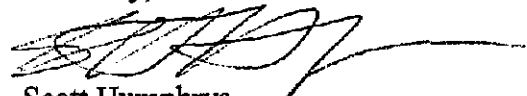
e) Applicant's representative:

Scott Humphrys, Associate Distribution Specialist  
Energy Delivery Transmission and Substation Design  
FirstEnergy Service Company  
76 South Main Street  
Akron, OH 44308-1890

After docketing this filing, please return one time-stamped copy of the Construction Notice for our records to us in the enclosed envelope. We have provided a copy of this Construction Notice by certified mail, with return receipt requested, to officials of the political subdivisions immediately affected by the proposed project as listed in the attached Exhibit 1. Copies of the transmittal letters addressed to the local government representatives of the city of Lorain, and to Lorain County are enclosed for your file.

Should the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-2526.

Sincerely,



Scott Humphrys  
Associate Distribution Specialist  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachments

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

**CONSTRUCTION NOTICE**

**EDGEWATER SUBSTATION  
138 kV SUBSTATION STRAIN BUS  
RELOCATION PROJECT**

**OPSB CASE NO. 10-423-EL-BNR**

**March 31, 2010**

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

**CONSTRUCTION NOTICE  
EDGEWATER SUBSTATION 138 kV SUBSTATION  
STRAIN BUS RELOCATION PROJECT**

The following information is being provided in accordance with the procedures delineated in Ohio Administrative Code Section 4906-11-02: Construction Notice Requirements of the Rules and Regulations of the Ohio Power Siting Board.

**4906-11-02 (B): Need Statement**

**4906-11-02 (A) (1) a: Name of the Project**

Name of Project:           Edgewater Substation 138 kV Substation Strain Bus  
Relocation Project

**4906-11-02 (B) (2) a: Brief Description of Project**

In the Edgewater Substation 138 kV Substation Strain Bus Relocation Project, American Transmission Systems, Incorporated (ATSI), a FirstEnergy Corp. subsidiary, is proposing to install a steel pole with concrete foundation, a new substation dead end structure and relocate a portion of the Edgewater Substation's 138 kV substation strain bus. The Project is located adjacent to the intersection of Oberlin Avenue and West 2<sup>nd</sup> Street in the City of Lorain in Lorain County, Ohio. The general location of the Project is shown in Exhibit No. 1, which is a partial copy of the United States Geologic Survey, Lorain County, Ohio Quad, Map ID 41082-D2. The general layout of the Project is shown in Exhibit No. 2.

The existing Edgewater Substation consists of a 69 kV yard and a 138 kV yard that are located in separately fenced in areas. The existing 138 kV strain bus extends as three (3) 795 ACSR 26/7 overhead conductors, from the 138 kV yard to a support structure located on top of the boiler house and turbine building at the Edgewater generating station, and then to the 69 kV yard. In order to facilitate the future demolition of the boiler house and turbine building at the Edgewater generating station, it is necessary to relocate the 138

kV substation strain bus and abandon the structure located on the top of the boiler house and turbine building. As proposed in this Project, the 138 kV strain bus will be relocated by installing a new steel pole, shown in Exhibit 3, in the 138 kV substation yard and a new tubular steel substation dead end structure, shown in Exhibit 4, supported on reinforced concrete foundations in the 69 kV yard and relocating the conductors of the 138 kV strain bus to these structures.

This Construction Notice covers the entire scope of relocating the substation strain bus and associated structures, but does not cover installation of additional equipment within the fence line of the Edgewater substation.

**4906-11-02 (B) (2) b: Why the Project Meets the Requirements for a Construction Notice**

Although the relocated 138 kV substation strain bus is part of the Edgewater Substation facilities, because it is similar in appearance to an overhead electric transmission line, its installation is being submitted for the Ohio Power Siting Board's review and approval as a 138 kV transmission line.

The project meets the requirements for a Construction Notice because the project is within the types of project defined by Item (1) (d) of the Application Requirement Matrix for Electric Power Transmission Lines in Appendix A of 4906-1-01 of the Ohio Administrative Code. Which states:

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

*(d) Line(s) one hundred twenty-five kV and above, but less than three hundred kV, and not greater than 0.2 miles in length.*

The proposed project involves installing a single steel pole with concrete foundation and a tubular steel dead end structure supported on reinforced

concrete foundations and relocating a approximately 160 feet (0.03 miles) of the Edgewater Substation 138 kV substation strain bus.

**4906-11-02 (B) (3): Need for the Project**

The proposed Project is needed to facilitate the future demolition of the boiler house and turbine building at the Edgewater generating station.

**4906-11-02 (B) (4): Construction Schedule**

Construction on the project is expected to begin as early as May 17, 2010.

The project is expected to be completed by December 31, 2010.

**4906-11-02 (B) (5): Estimated Costs**

The following is the estimated capital cost for the Project:

Estimated Cost:	\$250,000
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**4906-11-02 (B) (6): Operating Characteristics**

The addition of the single pole and relocation of the substation strain bus will not affect the operating characteristics of the strain bus.

**4906-11-02 (B) (7): Area Map**

Exhibit 1 depicts the general location of the Project site. This exhibit provides a partial copy of the United States Geologic Survey, Lorain County Ohio Quad Map ID 41082-D2. To locate and view the Project site from Columbus, Ohio, travel north on I-71 for approximately 124 miles and take exit 233 for I-80 toward Youngstown/Toledo. Keep right at the fork to continue toward I-80 W and merge onto I-80 W and proceed approximately 16.1 miles. Take exit 145 to merge onto Lorain Boulevard/OH-57 N toward Lorain and continue to follow OH-57 N for approximately 4.4 miles. Turn left at E 28<sup>th</sup> Street and go 2.3 miles. Turn right at Broadway and go 2.0 miles. Continue onto W 1<sup>st</sup> Street/Oberlin Avenue and the Project area will be on the west side of the street in approximately 0.3 miles.

**4906-11-02 (B) (8): Property List**

ATSI's existing Edgewater substation is located on property owned by Ohio Edison Company (Ohio Edison). The need for an easement from Ohio Edison to ATSI for the location of the relocated 138 kV strain bus is being evaluated. Obtaining of the easement, if necessary, is not expected to be a significant factor in installing the Project as ATSI and The Ohio Edison Company are both FirstEnergy Corp. subsidiaries.

**4906-11-01 (C) : Documentation of Construction Notice Transmittal**

This Construction Notice is being provided concurrently to:

**Lorain County**

The Honorable Betty C. Blair  
Lorain County Commissioner  
226 Middle Avenue  
Elyria, OH 44035

Mr. James R. Cordes  
Lorain County Administrator  
226 Middle Avenue  
Elyria, OH 44035

The Honorable Ted Kalo  
Lorain County Commissioner  
226 Middle Avenue  
Elyria, OH 44035

Mr. Kenneth P. Carney, P.E., P.S.  
Lorain County Engineer  
274 Hadaway St.  
Elyria, OH 44035

The Honorable Lori A. Kokoski  
Lorain County Commissioner  
226 Middle Avenue  
Elyria, OH 44035

**City of Lorain**

The Honorable Tony Krasienko  
Mayor, City of Lorain  
200 West Erie Avenue  
Lorain, OH 44052

Mr. William Dobis  
Planning/Zoning Officer  
City of Lorain Planning Commission  
200 West Erie Avenue  
Lorain, OH 44052

The Honorable Joel Arrendondo  
Council President,  
City of Lorain  
200 West Erie Avenue  
Lorain, OH 44052

Mr. James Reagan  
Lorain City Department of  
Engineering  
200 West Erie Avenue  
Lorain, OH 4405

Ms. Nancy Greer  
Council Clerk,  
City of Lorain  
200 West Erie Avenue  
Lorain, OH 44052

Copies of the transmittal letters to these officials have been included with the transmittal letter submitting this Construction Notice to the Ohio Power Siting Board.



**EXHIBIT 1**

Harbor Light

East Breakwater Light

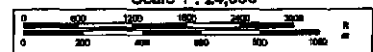
East Breakwater Middle Light

**PROJECT AREA**

Orig Date: 1979  
 Quad Series: 7.5'  
 Paper Source: Topographic 1:24,000  
 Quad Order ID: 41082-D2  
 Coverage: Lorain County, OH  
 Vendor: USGS

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Quad Series: 7.5'  
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**Scale 1 : 24,000**

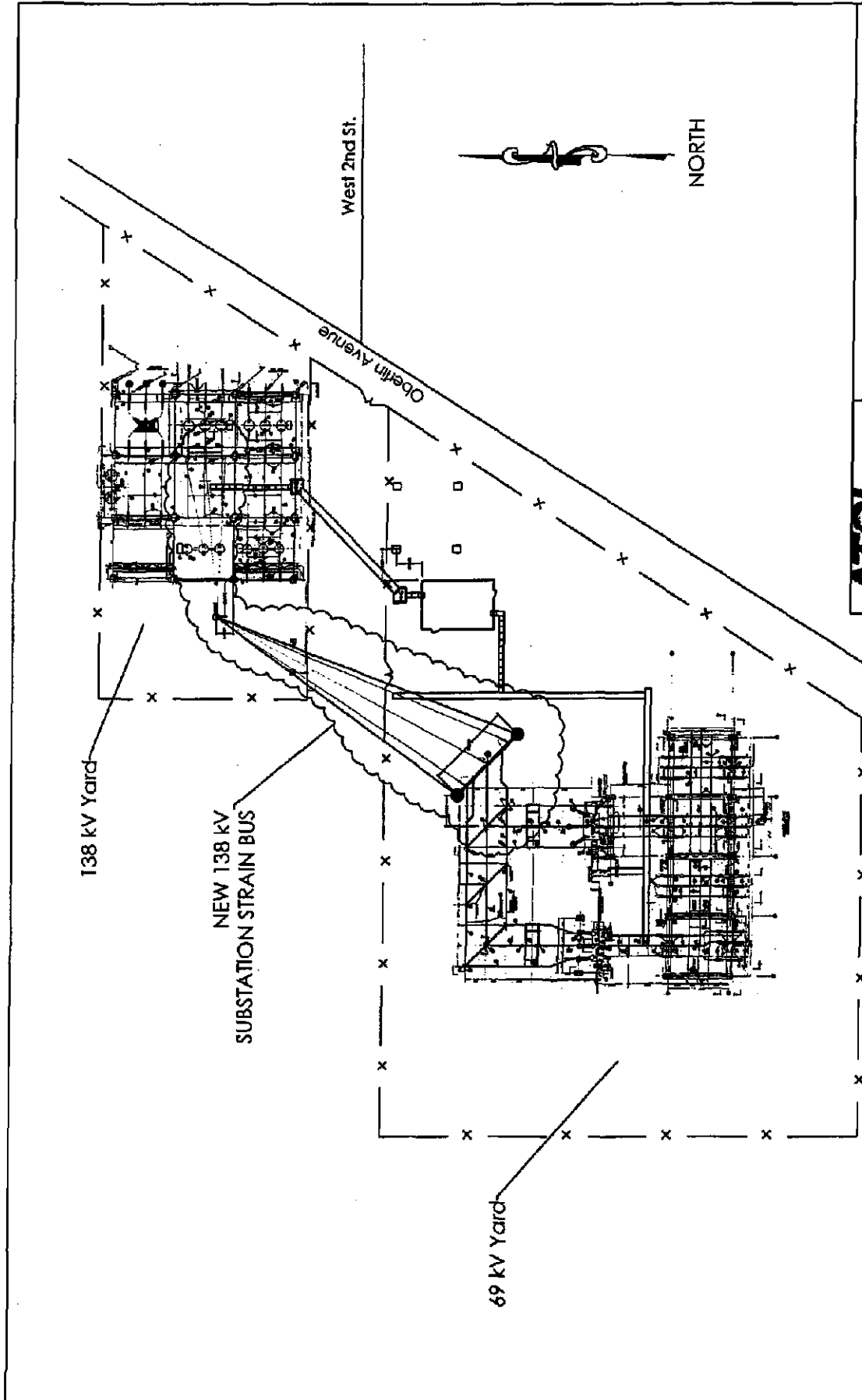


1" = 2,000.0 ft Data Zoom 13-0

**Data use subject to license.**

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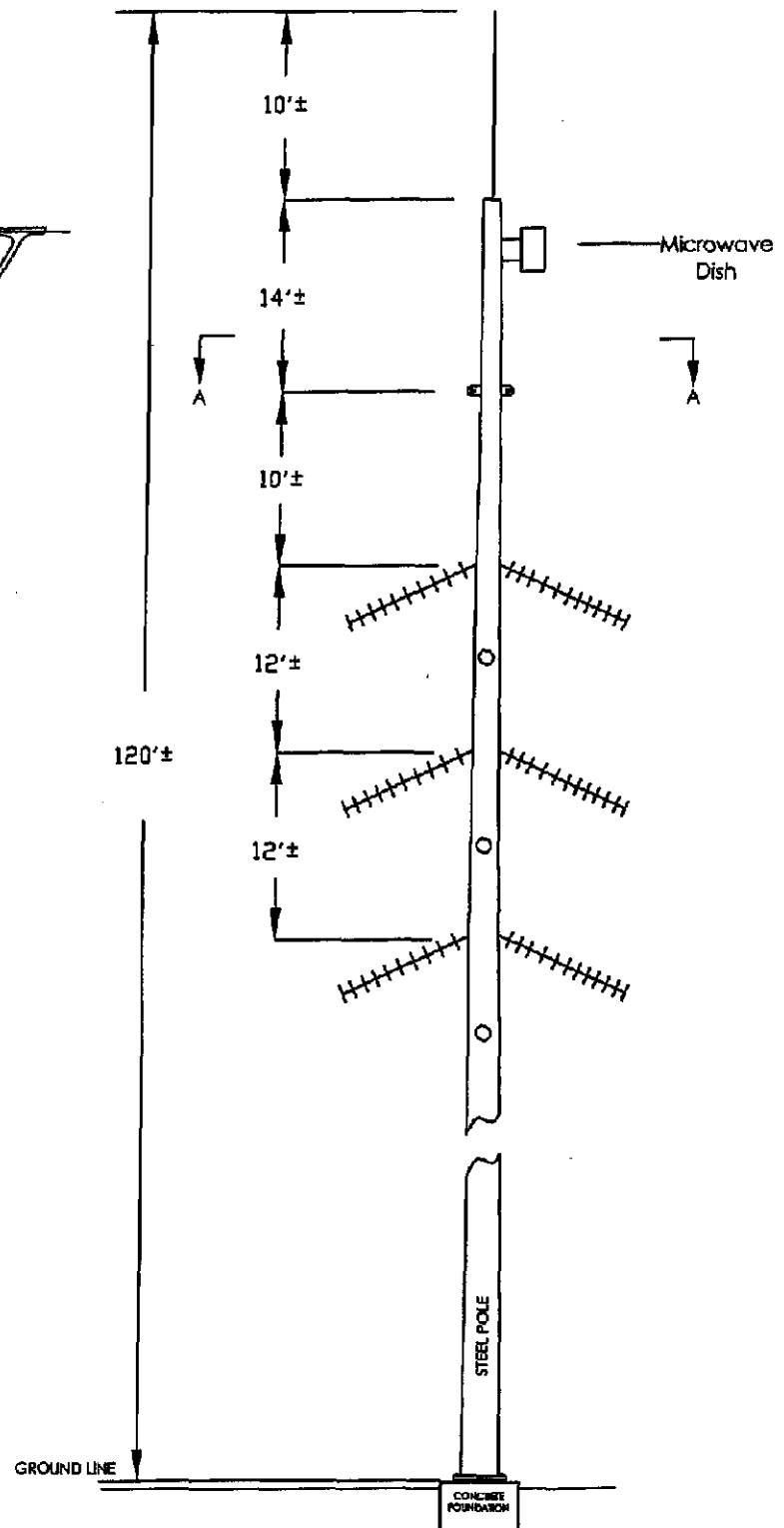
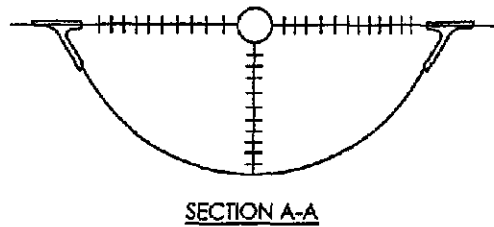


American Transformer Systems, Inc.  
www.atst.com

EDGEWATER 138 kV SUBSTATION  
STRAIN BUS RELOCATION PROJECT

# GENERAL LAYOUT

## EXHIBIT 2



\*\* NOT TO SCALE

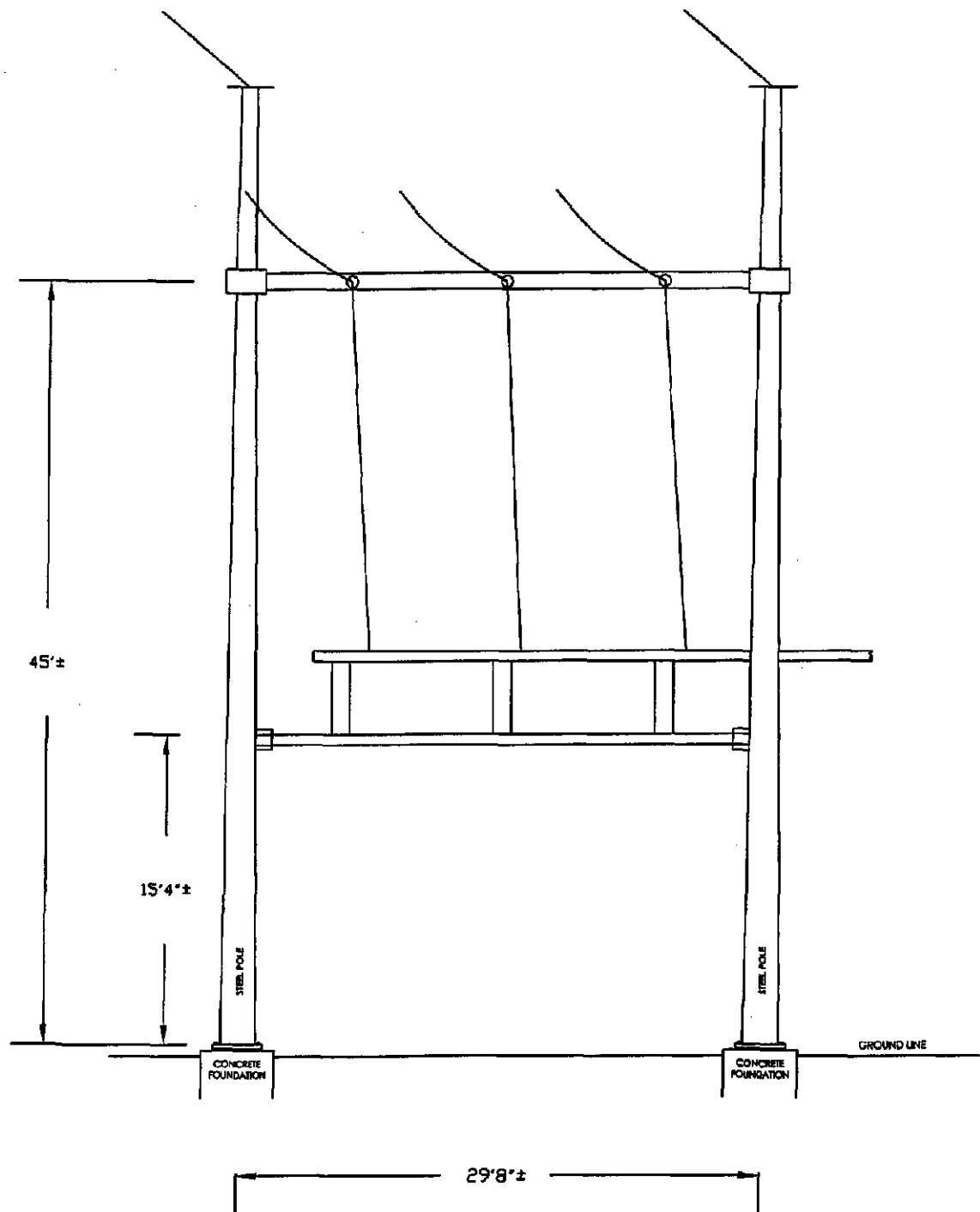
**ATSI.**

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

EDGEWATER 138 kV SUBSTATION  
STRAIN BUS RELOCATION PROJECT

Single Circuit Steel Pole

EXHIBIT 3



**ATSI**

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

EDGEWATER SUBSTATION 138 kV  
SUBSTATION STRAIN BUS RELOCATION  
PROJECT

DEAD END STRUCTURE

EXHIBIT 4

**EXHIBIT 1**  
**Edgewater Substation 138 kV Transmission Line**  
**Relocation Project**  
**Case No. 10- -EL-BNR**

**Lorain County**

The Honorable Betty C. Blair  
Lorain County Commissioner  
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Elyria, OH 44035

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