

April 2, 2019

Ms. Barcy F. McNeal
Docketing Division
The Public Utilities Commission of Ohio
180 East Broad Street
Columbus, OH 43215-3793

PUCO

RECEIVED-DOCKETING DIV
2019 APR -3 AM 11:28

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

Dear Ms. McNeal:

In accordance with Ohio Administrative Code ("OAC") Rule 4906-2-04(A)(3) and OAC Chapter 4906-6, American Transmission Systems, Incorporated ("ATSI"), FirstEnergy company, transmits one (1) original and eleven (11) copies of the enclosed Construction Notice application. The Construction Notice application was completed in accordance with the requirements of OAC Chapter 4906-6.

In this Project, ATSI is proposing to install four (4) new taps from the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines to Nathan Substation, replacing the existing four (4) transmission line taps from the Eastlake-Leroy Center Q-15 & Q-16 138 kV Transmission Line, which will be removed. One (1) new tap structure will support the four (4) new transmission line taps. The new tap structure installation will increase the loading on a nearby corner deadend structure, requiring replacement of that structure. The Project will be located in the City of Mentor, Lake County, Ohio.

ATSI is requesting an expedited review of this Project.

Pursuant to OAC Rule 4906-2-04(A)(3), please be advised of the following:

a) Name and address of the applicants:

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

b) Name and location of proposed facilities:

Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line Tap to Nathan Substation Project.

The Project area is located in the City of Mentor, Lake County, Ohio.

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.
Date Processed 04/02/19
Technician [Signature]

c) Applicant's representative:

William R. Beutler P.E.
Engineer III
Energy Delivery Transmission and Substation Design
FirstEnergy Service Company
76 South Main Street
Akron, OH 44308-1890

d) The construction start date of April 1, 2019 in the pre-application letter is changed to April 29, 2019 in the enclosed application.

e) A notarized statement that the information contained in the application is complete and accurate is attached as Attachment 1.

We have provided a copy of the Construction Notice application by certified mail, with return receipt requested, to each official of the political subdivisions immediately affected by the proposed Project listed in Exhibit 1. Copies of the transmittal letters addressed to the local government representatives of City of Mentor, Lake County, Ohio are enclosed for your file. Copies of the transmittal letters to the local libraries are also enclosed. These materials are being provided as proof of compliance with OAC Rule 4906-6-07.

After docketing this filing, please return one time-stamped copy of the Letter of Notification for our records in the enclosed envelope. Should staff of the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-2740.

Sincerely,



William R. Beutler, P.E.
Engineer III
Energy Delivery Transmission and Substation Design
FirstEnergy Service Company

Attachments

RECEIVED-SOCKETING DIV

2019 APR -3 AM 11:12

PUCO

**AMERICAN TRANSMISSION SYSTEMS,
INCORPORATED
A FIRSTENERGY COMPANY**

CONSTRUCTION NOTICE

**MAYFIELD-EASTLAKE Q-3 & Q-4 138 kV
TRANSMISSION LINE TAP TO NATHAN SUBSTATION**

OPSB CASE NO.: 19-0149-EL-BNR

April 2, 2019

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

CONSTRUCTION NOTICE
MAYFIELD-EASTLAKE Q-3 & Q-4 138 kV TRANSMISSION LINES
TAP TO NATHAN SUBSTATION PROJECT

The following information is being provided in accordance with the procedures in the Ohio Administrative Code (OAC) Chapter 4906-6 for the application and review of Accelerated Certificate Applications. Based upon the requirements found in Appendix A to OAC Rule 4906-1-01, this Project qualifies for submittal to the Ohio Power Siting Board ("Board") as a Construction Notice application.

4906-6-05: ACCELERATED APPLICATION REQUIREMENTS

4906-6-05: Name

Name of Project: Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines
Tap to Nathan Substation Project ("Project").

4906-6-05 (B)(1): Brief Description of the Project

This Project is being proposed as one of two separate projects necessary to reduce the risk of a common tower outage on the Eastlake - Leroy Center Q-15 & Q-16 138 kV Transmission Lines (Q-15 & Q-16 Lines) and provide greater operational flexibility to the transmission system. The Q-15 & Q-16 Lines are a double circuit transmission line that serves approximately 286.9 MW of load and approximately 63,737 customers of FirstEnergy and American Municipal Power, Inc. ("AMP").

In an effort to minimize local load loss for a common tower outage on this double circuit transmission line, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing two projects:

- The current Project, the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line Tap to Nathan Substation Project; and
- The Eastlake-Leroy Center 138 kV Loops to New Ring Bus Project (Case No. 19-0149-EL-BNR) which will sectionalize the Q-15 & Q-16 Lines with a new ring bus, significantly reducing load lost under contingency scenarios. A separate Letter of

Notification Application for this second project is scheduled to be filed later in April 2019.

In the current Project, ATSI is proposing to transfer four existing taps from the Eastlake - Leroy Center Q-15 & Q-16 138 kV Transmission Lines (Q-15 & Q-16 Lines) currently serving the Nathan Substation, to the existing Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines (Q-3 & Q-4 Lines) located approximately 285 feet to the south. One (1) new tap structure will support the four (4) new tap lines and will be placed approximately 39 feet to the west of existing structure #7272 along the centerline of the Q-3 & Q-4 Lines. The two (2) existing steel structures supporting the existing transmission line taps will be left in place.

The new tap structure installation will increase the structural loading on the nearby corner deadend structure #7272 of the Q-3 & Q-4 Lines, requiring its replacement. This structure will be replaced with one (1) new steel deadend structure. The new structure will be placed on the existing centerline, but approximately 61 feet to the south of the existing structure #7272.

The general location of the Project is shown in Exhibit 1, a partial copy of the United States Geologic Survey, Lake County OH, Quad Map, ID number 41081-F4. Exhibit 2 is a partial copy of Bing aerial imagery. The Project is located at 7220 Commerce Dr, Mentor, OH 44060. The general layout is shown in Exhibit 3. The Project will be located in the City of Mentor, Lake County Ohio.

4906-6-05 (B)(1): Letter of Notification Requirement

The Project meets the requirements for a Construction Notice because the Project is within the types of projects defined by Item (1)(a) of the Application Requirement Matrix for Electric Power Transmission Lines, Appendix A of OAC Rule 4906-1-01. This item states:

(1) New construction, extension, or relocation of single or multiple circuit electric power transmission line(s), or upgrading existing transmission or distribution line(s) for operating at a higher transmission voltage, as follows:

(a) Line(s) not greater than 0.2 miles in length

The proposed Project is within the requirements of Item (1)(a) as the proposed reconfiguration will result in approximately 285 feet of relocated (new) transmission line.

4906-6-05 (B)(2): Need For the Project

The Q-15 & Q-16 Lines serve approximately 287 MW of load and 63,700 customers, out of which 52.7 MW is served by Nathan substation (9,040 customers).

From 2012 to present, the Q15 and Q16 circuits associated with the Eastlake-Leroy Center 138 kV Transmission Line have had six momentary outages and nine sustained outages ranging from 15 to 5,373 minutes. The proposed Project reduces the total amount of load lost by 52.7 MW (9,040 customers), and therefore, increases FE's flexibility to perform maintenance on the Eastlake-Leroy Center Q-15 and Q-16 138 kV Transmission Lines.

The Mayfield-Eastlake Q-3 & Q-4 Transmission Lines currently have no customer load on them and are located within 300 feet of Nathan Substation making them suitable for the service transfer. Exhibit 9 is a one-line diagram that shows the existing configuration of the Q-15 & Q-16 Lines and substations currently served along with their respective load. Also shown on Exhibit 9 is the configuration of the Q-3 and Q-4 Lines and proposed transfer from Nathan substation.

This Project has been assigned the supplemental PJM number s1469 and the PJM Sub Regional RTEP slide, dated February 14, 2018 is shown in Exhibit 8. This Project, as well as the pending Eastlake-Leroy Center 138 kV Loops to New Ring Bus Project are in the 2018 Long Term Forecast Report, Case No. 18-0449-EL-FOR.

4906-6-05 (B)(3): Location of the Project Relative to Existing or Proposed Lines

The location of the Project relative to existing or proposed lines is shown in the ATSI Transmission Network Map, included as part of the confidential portion of the FirstEnergy Corp. 2018 Long-Term Forecast Report. This map was submitted to the PUCO in Case No. 18-0449-EL-FOR under Rule 4901:5-5:04 (C)(2)(b) of the Ohio Administrative Code. The map is incorporated by reference only. This map shows ATSI's 345 kV and 138 kV transmission lines and transmission substations including the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines. The project area is located approximately 10 inches (11" x 17" printed version) from the left edge of the map and 1 2/5 inches (11" x 17" printed version) from the top of the map. The general location and layout of the project area is shown in Exhibit 1 and 2.

4906-6-05 (B)(4): Alternatives Considered

Alternatives to the proposed Project included the following:

- No Action:
Continued operation of the system as currently configured does not reduce the risk of the loss of 52.7MW of load serving 9,040 customers in the event of a common tower outage of the Q-15 & Q-16 Lines.
- Transferring load from another location:
Alternative means of reducing load on the Q-15 & Q-16 Lines by transferring other substations to alternative transmission lines are not practical given their distance to other transmission line corridors.
- Alternative routing:
Due to the close proximity of the Q-3 and Q-4 Lines to the Q-15 & Q-16 Lines at Nathan Substation, available access, and minimal amount of disturbance necessary to complete the Project as proposed, no alternative routes were deemed practical.

4906-6-05 (B)(5): Public Information Program

ATSI's manager of External Affairs will advise local officials of features and the status of the proposed Transmission Line Project as necessary. ATSI will maintain a copy of this Construction Notice on FirstEnergy's website. Letters will be sent to affected property owners at least 7 days before construction begins on the project informing them of the Project's start and a proposed timeframe of construction and restoration activities.

4906-6-05 (B)(6): Construction Schedule

The construction schedule for this Project is expected to begin as early as April 29, 2019 and be completed by May 31, 2019.

4906-6-05 (B)(7): Area Map

Exhibit 1 depicts the general location of the Project. This Exhibit provides a partial copy of the United States Geological Survey, Lake County OH, quadrangle map (Quad Order ID 41081-F4). Exhibit 2 provides a partial copy of Bing aerial imagery.

4906-6-05 (B)(8): Property Owner List

The Project is located entirely on property owned in fee by the Cleveland Electric Illuminating Company (CEI), which is also a FirstEnergy company. Table 1 contains a list of parcels affected by the Project.

Table 1: Property Owner List

Parcel Number	Property Owner	Property Address	Easement Status
16-D-888-0-13-100-0	CEI	N/A	Owned in Fee
16-D-888-0-12-100-0	CEI	N/A	Owned in Fee
16-D-888-0-11-100-0	CEI	N/A	Owned in Fee
16-D-888-0-07-100-0	CEI	N/A	Owned in Fee
16-D-888-0-08-100-0	CEI	N/A	Owned in Fee
16-D-888-0-03-100-0	CEI	N/A	Owned in Fee

4906-6-05 (B)(9): TECHNICAL FEATURES OF THE PROJECT

4906-6-05 (B)(9)(a): Operating Characteristics

The transmission line construction will have the following characteristics:

Voltage:	138 kV
Conductors:	795 kcmil 36/1 ACSR
Static Wire:	7#8 Alumoweld (New) 176.9 kcmil 12/7 ACSR (Existing)
Insulators:	Porcelain
ROW Width:	The Existing ROW is 165 feet-wide. The ROW for the new tap lines is 300 feet-wide
Land Requirements:	N/A
Structure Types:	Exhibit 4: Steel Multi-Pole Tap Structure. One (1) structure is needed. Exhibit 5: Steel Dead-End Single Pole Structure. One (1) structure is needed.

4906-6-05 (B)(9)(b): Electric and Magnetic Fields

The closest occupied residence or institution is approximately 250 feet from the proposed transmission line centerline therefore no Electric and Magnetic Field (“EMF”) calculations are required by this code provision.

4906-6-05 (B)(9)(c): Estimated Cost

The estimated capital cost for the proposed project is approximately \$3,227,100.

4906-6-05 (B)(10): SOCIAL AND ECOLOGICAL IMPACTS

4906-6-05 (B)(10)(a): Land Uses

The Project is located in the City of Mentor, Lake County Ohio. The main land use around the Project is commercial and industrial development.

4906-6-05 (B)(10)(b): Agricultural Land

Agricultural land does not exist within the Project's disturbance area.

4906-6-05 (B)(10)(c): Archaeological or Cultural Resources

As part of the investigation, a search of Ohio Historic Preservation Office ("OHPO") online database was conducted to identify the existence of any significant archeological or cultural resource sites within 0.5 miles of the Project Area. The results of the search are shown in Exhibit 6.

The OHPO database includes all Ohio listings on the National Register of Historic Places ("NRHP"), including districts, sites, building, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture. The results of the search indicate that no listed NRHP sites and no NRHP eligible sites were identified within 0.5 miles of the Project potential disturbance area.

The OHPO database also includes listing of the Ohio Archaeological Inventory ("OAI"), the Ohio Historic Inventory ("OHI"), previous cultural resource surveys, and the Ohio Genealogical Society ("OGS") cemetery inventory. No OAI listed archeological resource has been previously inventoried within 0.5 miles of the Project area. No OHI listed structural resource is located within 0.5 miles of the Project area. One (1) previous cultural resource survey was conducted within 0.5 miles of the Project area and is provided in Table 2. One (1) OGS cemeteries are located within 0.5 miles of the Project area and is provided in Table 3.

Table 2. List of Previous Cultural & Historic Resource Survey

Year	Name	County	Municipality
2006	Phase I Archaeological Survey for the LAK-2-3.32 (PID 13486) Reconstruction Project in the Municipalities of Eastlake, Willoughby, Mentor, and Painesville, Lake County, Ohio (Short Format Report)	Lake	City of Mentor

Table 3. List of OGS cemeteries

OGS ID	Name	County	Location
6328	Daniels	Lake	Confidential

Based upon the results of the OHPO online database there are no cultural or archeological resources within the Project's area and no impacts are expected. One OGS was located approximately 0.4 miles away from the Project's area. No impacts are expected to this cemetery.

4906-6-05 (B)(10)(d): Local, State, and Federal Requirements

Table 4 shows the list of government agency requirements and the filing status at the time of filing.

Table 4. List of Government Agency Requirements to be Secured Prior to Construction

Agency	Permit Requirement	Status
Norfolk Southern	Railroad Crossing Permit	Will be Filed
CSX	Railroad Crossing Permit	Will be Filed

4906-6-05 (B)(10)(e): Endangered, Threatened, and Rare Species Investigation

The Project work limits associated with the structure replacements will be limited to an area located to the south of the existing Nathan Substation and east of Industrial Park Boulevard. The construction site will be accessible via Industrial Park Boulevard. The Project area consists of herbaceous vegetation, emergent wetland, and scrub/shrub wetland areas. The threatened and endangered species listed for Lake County, Ohio are included in Table 5.

Table 5. List of Endangered, Threatened, and Rare Species.

Table 6: List of Endangered, Threatened, and Rare Species				
Scientific Name	Common Name	Federal Listed Status	State Listed Status	Affected Habitat
Mammals				
Myotis sodalis	Indiana Bat	Endangered	Endangered	Trees & Forest
Myotis septentrionalis	Northern Long-Ear Bat	Threatened	N/A	Trees & Forest
Ursus americanus	Black Bear	N/A	Endangered	Large, heavily wooded areas with a dense understory.
Birds				
Setophaga kirtlandii	Kirtland's Warbler	Endangered	Endangered	This bird nests in young jack pine stands.
Charadrius melodus	Piping Plover	Endangered	Endangered	Critical habitat for this species has been designated in Lake County, OH. Study area is not within designated critical habitat. Otherwise, habitat consists of beaches or coastline.
Calidris canutus rufa	Red Knot	Threatened	N/A	Beaches or coastline.
Reptile				
Sistrurus catenatus	Eastern Massasauga	Threatened	Endangered	Wet areas including wet prairies, marshes and low areas along rivers and lakes.

Table 6: List of Endangered, Threatened, and Rare Species

Scientific Name	Common Name	Federal Listed Status	State Listed Status	Affected Habitat
Bivalves				
Epioblasma triquetra	Snuffbox Mussel	Endangered	Endangered	Perennial waterbody
Ligumia nasuta	Eastern Pondmussel	N/A	Endangered	Perennial waterbody
Ligumia recta	Black Sandshell	N/A	Threatened	Perennial waterbody
Obliquaria reflexa	Threehorn Wartyback	N/A	Threatened	Perennial waterbody
Truncilla donaciformis	Fawnsfoot	N/A	Threatened	Perennial waterbody
Insects				
Chimarra socia	Companionable Finger-net Caddisfly	N/A	Endangered	Perennial waterbody
Rheopelopia acra	Midge	N/A	Endangered	No species-specific habitat information is available, however, midges are found in perennial waterbodies.
Cordulia shurtleffi	American Emerald	N/A	Endangered	Usually found at sphagnum bog ponds, small lakes, marshes, bogs, and fens.
Psilotreta indecisa	Uncertain Mortarjoint Caddisfly	N/A	Threatened	No species-specific habitat information is available, however, caddisflies are typically found in perennial waterbodies.
Fish				
Anguilla rostrata	American Eel	N/A	Threatened	Larger rivers or lakes.

One stream is located within the Project area. However, no instream work will occur as a result of the Project. Therefore, the Project will not impact suitable habitat for any of the listed species. Additionally, no tree removal is needed for the Project. Therefore, no impacts to the listed bat species are anticipated.

Due to the presence of a primarily industrial land uses and active vegetation maintenance along the transmission line right of way, there is a low likelihood of suitable habitat within the vicinity of the Project Area for any listed species. For these reasons, and in consideration of the type of work proposed, adverse impacts to all identified species are not anticipated.

4906-6-05 (B)(10)(f): Areas of Ecological Concern

ATSI hired TRC Environmental Corporation (“TRC”) to conduct a wetland and stream delineation of the Project area. The TRC investigation focused on an approximately 5.6-acre area located to the south of the existing substation. Two palustrine emergent (PEM) wetlands and one palustrine forested (PFO)/PEM complex wetland were delineated within the Project area. These wetlands were scored together using the Ohio Rapid Assessment for Wetlands (v. 5.0). The resulting score was 15 which is indicative of a low-quality wetland. Exhibit 7.

No disturbance of the PFO/PEM wetland will be necessary to complete the Project. Of the four transmission poles that will be installed, two will be placed within one of the PEM wetlands, which could not be practicably avoided. Impact thresholds, however, are below the pre-construction notification requirements for Nationwide Permit 12 under Section 404 of the Clean Water Act. To the extent the installation of the poles requires authorization under Section 404 of the Clean Water Act, Applicant will obtain such approval before construction commences in the wetland. Construction matting will be used to access this location to minimize disturbance.

One intermittent stream was also identified within the vicinity of the Project Area. No construction activity will occur below the ordinary high-water mark of the intermittent stream and not impact is therefore expected.

The Project work limits do not encroach on any regulated flood plains based on a review of online FEMA Flood Insurance Rate Mapping.

4906-6-05(B)(10)(g): Other Information

Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the National Electric Safety Code as adopted by the PUCO and will meet all applicable safety standards established by the Occupational Safety and Health Administration.

No other or unusual conditions are expected that will result in significant environmental, social, health or safety impacts.

4906-6-07: Documentation of Construction Notice Transmittal and Availability for Public Review

This Construction Notice is being provided concurrently with its docketing with the Board to the following officials in City of Mentor, Lake County, Ohio.

Lake County

Commissioner John Hamercheck
Lake County Commissioners
105 Main St., 4th Floor,
Painesville, OH 44077

Commissioner Ron Young
Lake County Commissioners
105 Main St., 4th Floor,
Painesville, OH 44077

Commissioner Jerry Cirino
President
Lake County Commissioners
105 Main St., 4th Floor,
Painesville, OH 44077

Mr. James Gills, P.E., P.S.
Lake County Engineer
550 Blackbrook Road,
Painesville, OH 44077

Mr. Walter Siegel, Chair
Lake County Planning Commission
125 East Erie St.,
Painesville, OH 44077

Mr. Ivan Valentic, Vice Chair
Lake County Planning Commission
125 East Erie St.,
Painesville, OH 44077

Mr. David Radachy, Director
Lake County Planning &
Community Development
125 East Erie St.,
Painesville, OH 44077

Mr. Dan Donaldson, Administrator
Lake County SWCD
125 East Erie St.,
Painesville, OH 44077

Mentor

Mr. Kenneth Filipiak, City Manager
City of Mentor
8500 Civic Center Blvd.,
Mentor, OH 44060

Mr. John Krueger, President
City of Mentor Council
8500 Civic Center Blvd.,
Mentor, OH 44060

Mr. Bruce Landeg, Vice President
City of Mentor Council
8500 Civic Center Blvd.,
Mentor, OH 44060

Mr. David Swiger,
City of Mentor Engineer
8500 Civic Center Blvd.,
Mentor, OH 44060

Mr. William Snow, Chairman
City of Mentor Planning
Commission
8500 Civic Center Blvd.,
Mentor, OH 44060

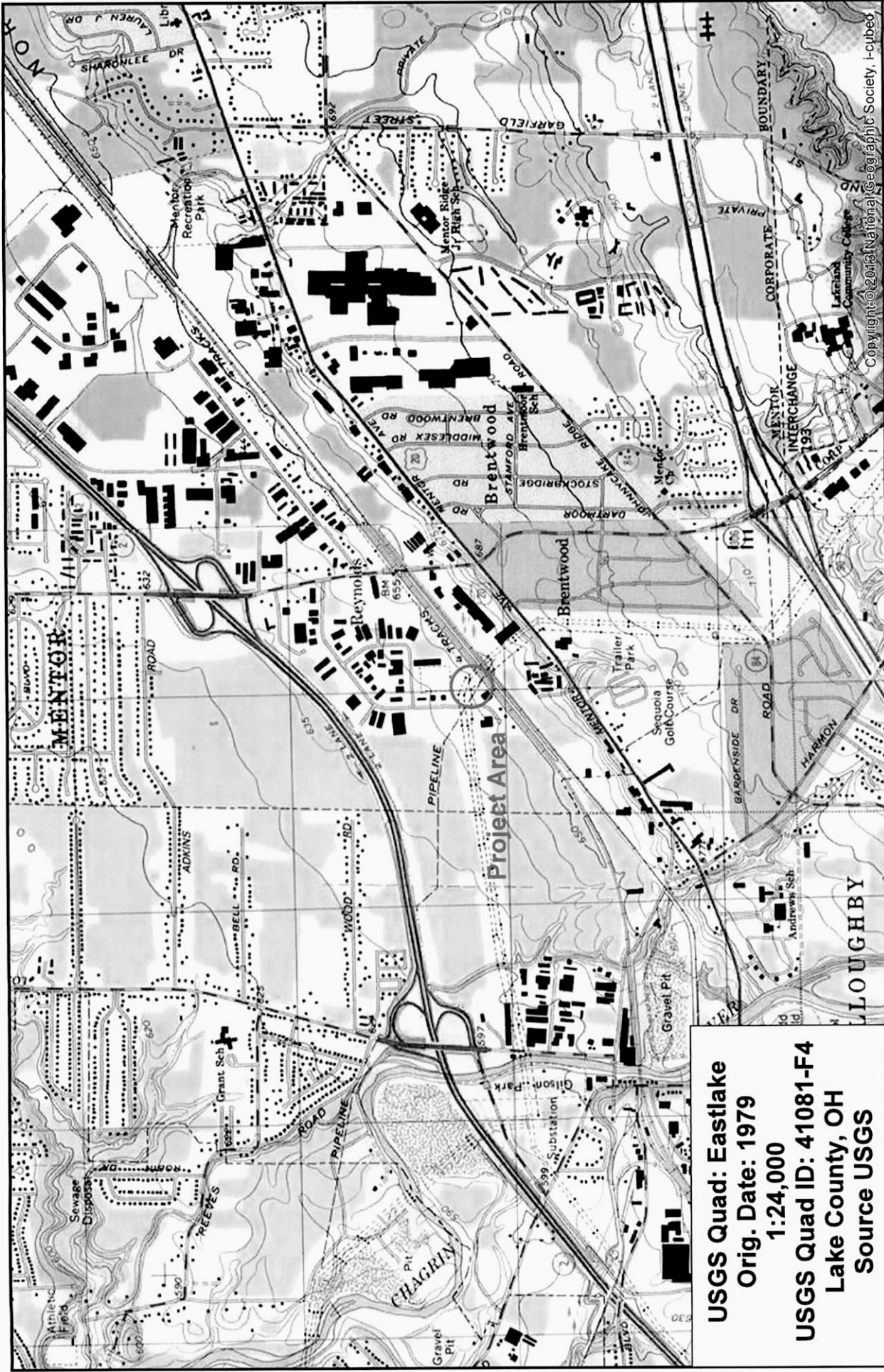
Mr. Joseph Sidoti, Vice Chairman
City of Mentor Planning
Commission
8500 Civic Center Blvd.,
Mentor, OH 44060

Library

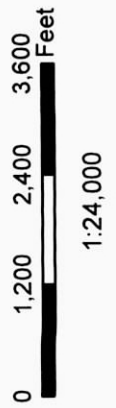
Ms. Cheryl Kuonen
Mentor Public Library, Main Library
8215 Mentor Ave
Mentor, OH 44060

Copies of the transmittal letters to these officials have been included with this application as proof of compliance under OAC Rule 4906-6-07 (B) to provide the Board with proof of notice to local officials as required by OAC Rule 4906-6-07 (A)(1) and to libraries per OAC Rule 4906-6-07 (A)(2).

Information is posted at www.firstenergycorp.com/about/transmission_project/ohio.html on how to request an electronic or paper copy of this Construction Notice application. The link to this website is being provided to meet the requirements of OAC Rule 4906-6-07 (B) and to provide the Board with proof of compliance with the notice requirements in OAC Rule 4906-6-07 (A)(3).



USGS Quad: Eastlake
 Orig. Date: 1979
 1:24,000
 USGS Quad ID: 41081-F4
 Lake County, OH
 Source USGS



Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line Tap to Nathan Substation Project

Exhibit 1



FirstEnergy

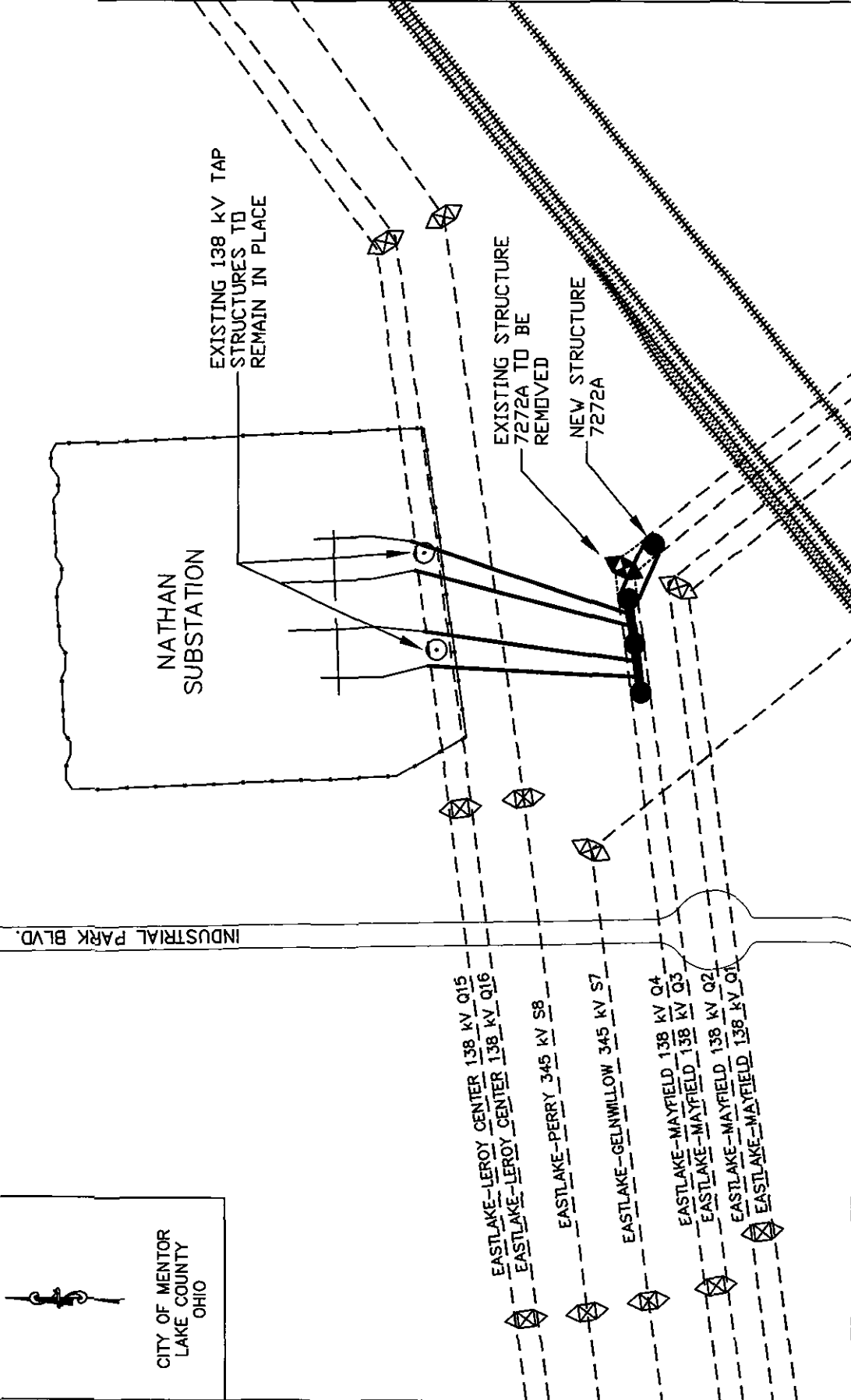
Created on 8/21/2018

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Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line Tap to Nathan Substation Project

Exhibit 2



ATSI®
American Transmission Systems, Inc.
A subsidiary of Entergy Corp.

EASTLAKE-MAYFIELD Q3 & Q4
138 kV TRANSMISSION LINE TAPS
TO NATHAN SUBSTATION

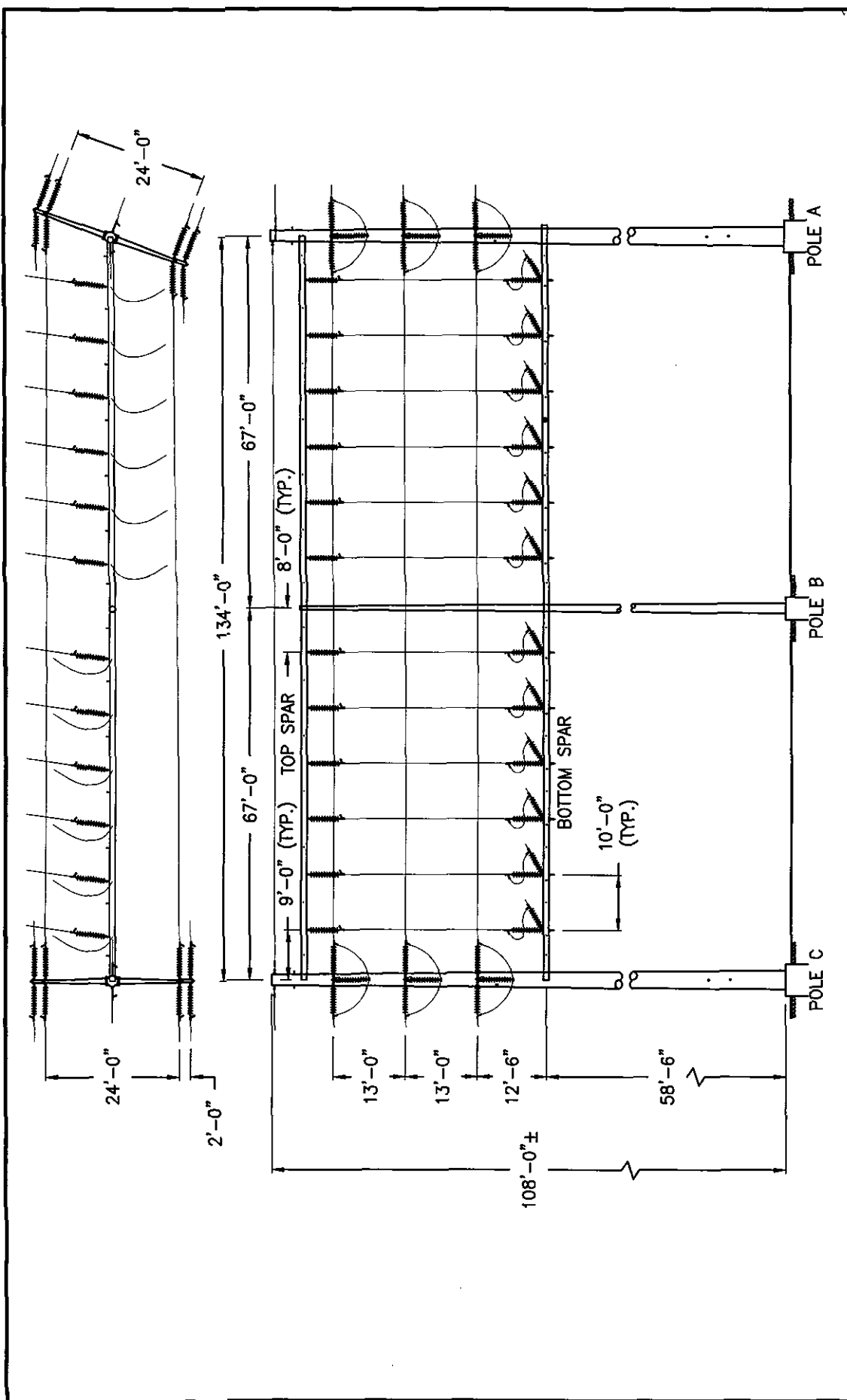
GENERAL LAYOUT

EXHIBIT 3

LEGEND

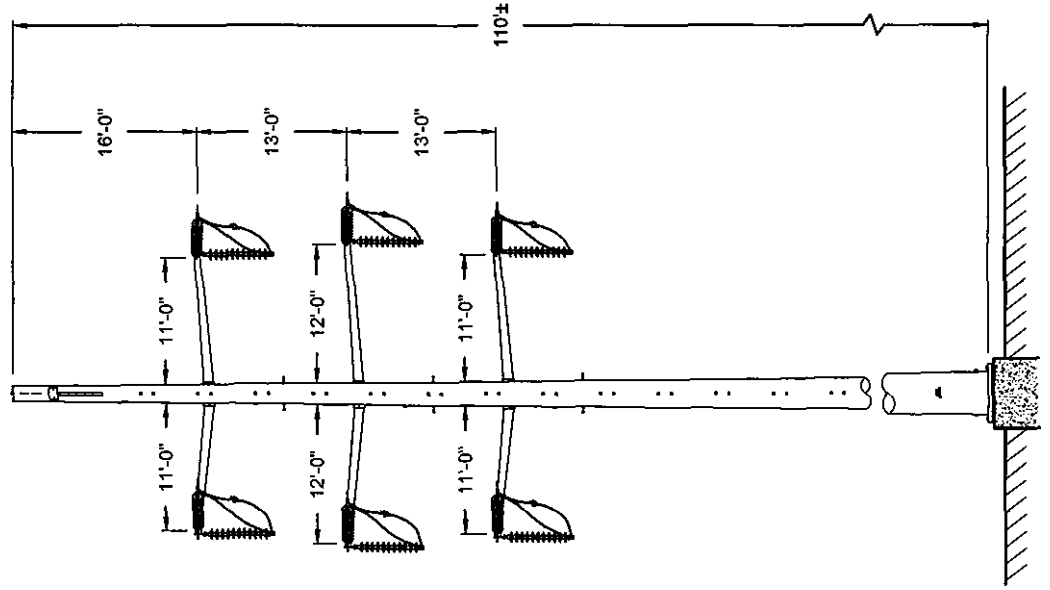
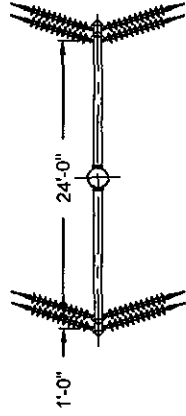
- EXISTING CONDUCTOR
- - - EXISTING CONDUCTOR TO BE REMOVED
- NEW CONDUCTOR
- +++++ RAILROAD
- SUBSTATION FENCE LINE
- NEW MULTI-POLE STEEL STRUCTURE (SEE EXHIBIT 4)

- ⊠ EXISTING STEEL LATTICE STRUCTURE
- ⊠ EXISTING STEEL LATTICE STRUCTURE TO BE REPLACED
- EXISTING SINGLE POLE STEEL STRUCTURE
- NEW SINGLE POLE STEEL STRUCTURE



EASTLAKE-MAYFIELD Q3 & Q4 138 kV
TRANSMISSION LINE TAP TO NATHAN
SUBSTATION

STEEL MULTI-POLE TAP STRUCTURE



ATSI®

American Transmission Systems, Inc.
a subsidiary of Trane Inc.

EASTLAKE-MAYFIELD Q3 & Q4 138 kV
TRANSMISSION LINE TAP TO NATHAN
SUBSTATION

STEEL DEAD-END SINGLE POLE STRUCTURE

EXHIBIT 5



State Historic
Preservation Office

Legend

NR Listings

Listed

National Historic Landmark

Delisted

NR Determinations of Eligibi

Historic Structures

Historic Bridges

Historic Tax Credit Projects

OGS Cemeteries

Confident

Not Confident

Dams

UTM Zone Split

NR Boundaries

Phase1

Phase2

Phase3

Historic Previously Surveyec

0 0.30 0.61 Miles

1: 24,000

Copyright/Disclaimer

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Datum: [Datum]

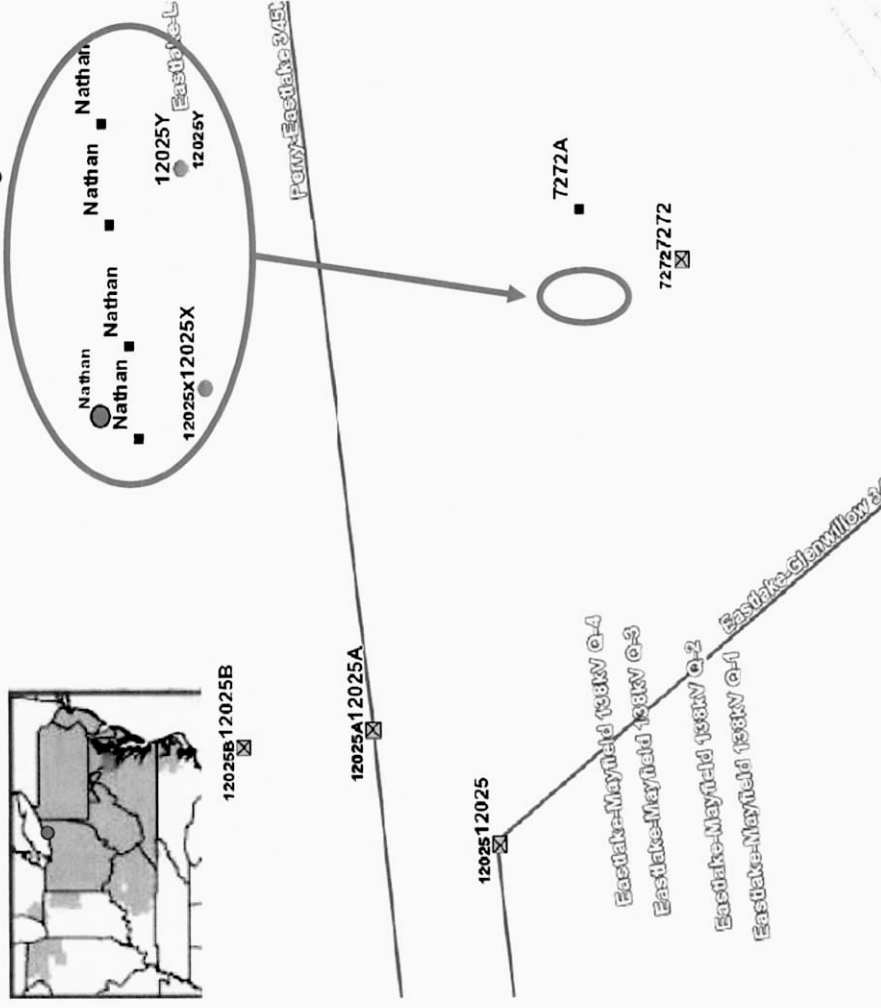
Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere



EXHIBIT 6



ATSI Transmission Zone: Supplemental Nathan Substation Connection Reconfiguration



Previously presented on 1/8/2018 SRRTEP

Problem Statement (Scope and Need/Drivers):

Operational Flexibility and Efficiency

- Minimize local load loss for the common tower outage of Eastlake-Leroy Center Q15 and Q16 138kV lines.

Selected Solution:

- Construct new line taps to Nathan substation from the Eastlake-Mayfield Q3 and Q4 138kV lines. Transfer Nathan substation from the Eastlake-Leroy Center Q15 and Q16 138kV Lines to the Eastlake-Mayfield Q3 and Q4 138kV lines. (**\$1469**)

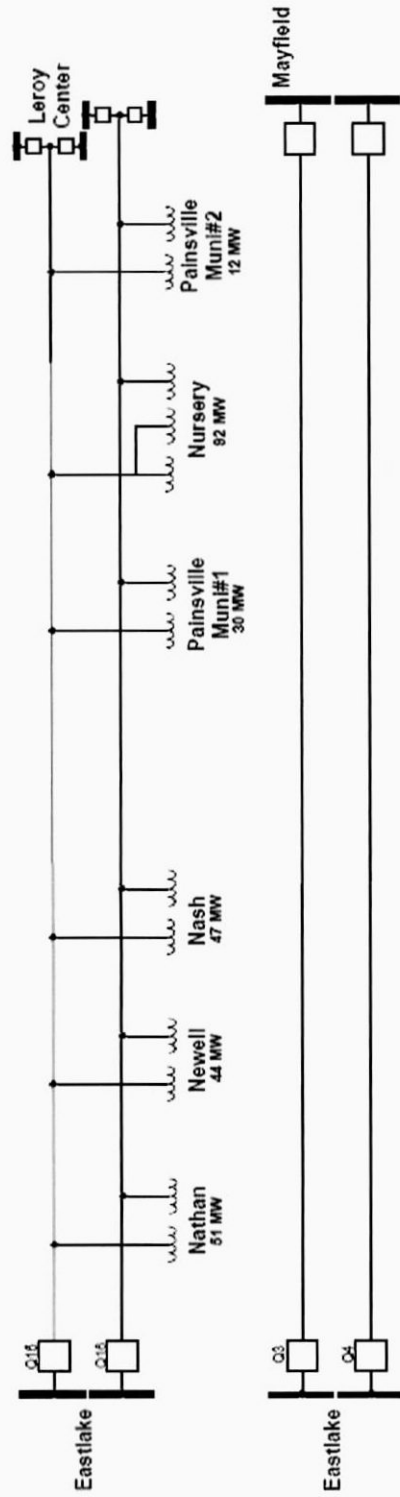
Estimated Project Cost: \$2.3M

Projected IS Date: 12/31/2018

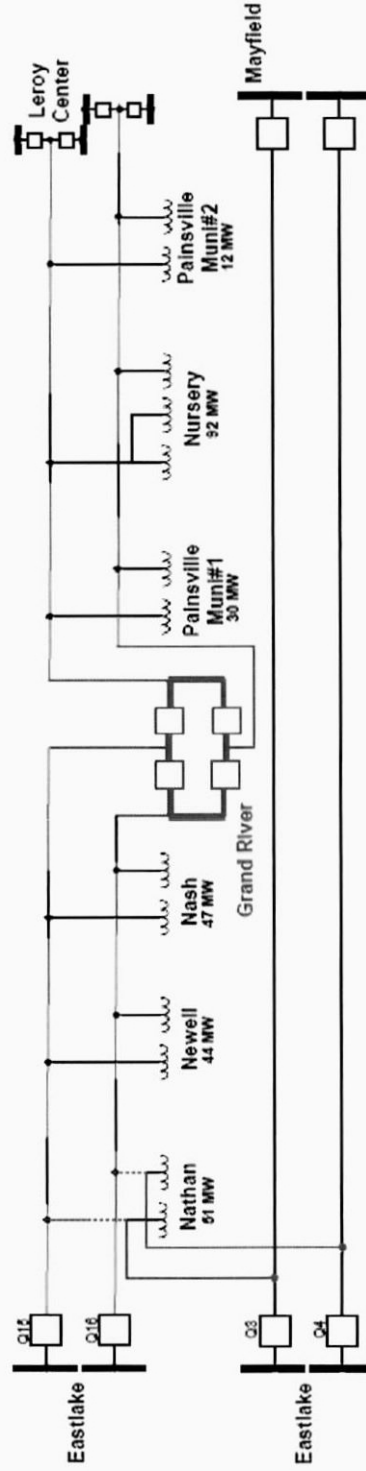
Status: Conceptual

EXHIBIT 8

Existing



After the new Grand River Substation and After Moving Nathan taps



ATSI

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

EASTLAKE-MAYFIELD Q3 & Q4
138 kV TRANSMISSION LINE TAP
TO NATHAN SUBSTATION

PARTIAL PLANNING ONE-LINE DIAGRAM

EXHIBIT 9

Exhibit 1
Officials Served Copy of the Construction Notice
Mayfield-Eastlake Q-3 & Q4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

Library

Ms. Cheryl Kuonen
Mentor Public Library, Main Library
8215 Mentor Ave
Mentor, OH 44060

PUCO

2019 APR -3 AM 11:09

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Exhibit 1
Officials Served Copy of the Construction Notice
Mayfield-Eastlake Q-3 & Q4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

2019 APR -3 AM 11:14

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Lake County

Commissioner John Hamercheck
Lake County Commissioners
105 Main St., 4th Floor,
Painesville, OH 44077

Mr. Walter Siegel, Chair
Lake County Planning Commission
125 East Erie St.,
Painesville, OH 44077

Commissioner Ron Young
Lake County Commissioners
105 Main St., 4th Floor,
Painesville, OH 44077

Mr. Ivan Valentic, Vice Chair
Lake County Planning Commission
125 East Erie St.,
Painesville, OH 44077

Commissioner Jerry Cirino
President
Lake County Commissioners
105 Main St., 4th Floor,
Painesville, OH 44077

Mr. David Radachy, Director
Lake County Planning &
Community Development
125 East Erie St.,
Painesville, OH 44077

Mr. James Gills, P.E., P.S.
Lake County Engineer
550 Blackbrook Road,
Painesville, OH 44077

Mr. Dan Donaldson, Administrator
Lake County SWCD
125 East Erie St.,
Painesville, OH 44077

Mentor

Mr. Kenneth Filipiak, City Manager
City of Mentor
8500 Civic Center Blvd.,
Mentor, OH 44060

Mr. David Swiger,
City of Mentor Engineer
8500 Civic Center Blvd.,
Mentor, OH 44060

Mr. John Krueger, President
City of Mentor Council
8500 Civic Center Blvd.,
Mentor, OH 44060

Mr. William Snow, Chairman
City of Mentor Planning Commission
8500 Civic Center Blvd.,
Mentor, OH 44060

Mr. Bruce Landeg, Vice President
City of Mentor Council
8500 Civic Center Blvd.,
Mentor, OH 44060

Mr. Joseph Sidoti, Vice Chairman
City of Mentor Planning Commission
8500 Civic Center Blvd.,
Mentor, OH 44060

Commissioner John Hamercheck
Lake County Commissioners
105 Main St., 4th Floor,
Painesville, OH 44077

April 2, 2018

PUCO

1-800-646-0400
RECEIVED-POCKETING DIV
2018 APR -3 AM 11:09

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

Dear Commissioner Hamercheck,

In the attached application which was recently filed with the Ohio Power Siting Board, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to install four (4) new taps from the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines to Nathan Substation, replacing the existing four (4) transmission line taps from the Eastlake-Leroy Center Q-15 & Q-16 138 kV Transmission Line, which will be removed. One (1) new tap structure will support the four (4) new transmission line taps. The new tap structure installation will increase the loading on the nearby corner deadend structure, requiring replacement of that structure. The Project is needed to improve the reliability of the electric transmission system and will be located in the City of Mentor, Lake County, Ohio.

In accordance with Ohio Administrative Code ("OAC") Rule 4906-1-01, this Project falls within the Ohio Power Siting Board's ("Board") requirements for a Construction Notice application. Therefore, in compliance with OAC Chapter 4906-6, we have prepared and filed the attached Construction Notice application with the Board for their review and approval. The Construction Notice application contains a description of the Project and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2740.

Sincerely,

William R. Beutler

William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Commissioner Ron Young
Lake County Commissioners
105 Main St., 4th Floor,
Painesville, OH 44077

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

RECEIVED-POCKETING DIV
2019 APR -3 AM 11:09
PUCO

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Sincerely,

William R. Beutler

William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design

FirstEnergy Service Company

Attachment

April 2, 2019

Commissioner Jerry Cirino
President
Lake County Commissioners
105 Main St., 4th Floor,
Painesville, OH 44077

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

RECEIVED-DOCKETING DIV
2019 APR -3 AM 11:09
PUCO

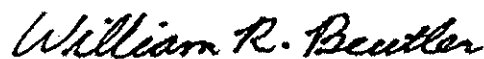
Dear Commissioner Cirino,

In the attached application which was recently filed with the Ohio Power Siting Board, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to install four (4) new taps from the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines to Nathan Substation, replacing the existing four (4) transmission line taps from the Eastlake-Leroy Center Q-15 & Q-16 138 kV Transmission Line, which will be removed. One (1) new tap structure will support the four (4) new transmission line taps. The new tap structure installation will increase the loading on the nearby corner deadend structure, requiring replacement of that structure. The Project is needed to improve the reliability of the electric transmission system and will be located in the City of Mentor, Lake County, Ohio.

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Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

Mr. James Gills, P.E., P.S.
Lake County Engineer
550 Blackbrook Road,
Painesville, OH 44077

April 2, 2019

PUCO

2019 APR -3 AM 11:09

RECEIVED-SOCKETING DIV

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

Dear Mr. Gills,

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Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

Mr. Walter Siegel, Chair
Lake County Planning Commission
125 East Erie St.,
Painesville, OH 44077

April 2, 2019

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RECEIVED-SOCKETING DIV

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

Dear Mr. Siegel,

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Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Mr. Ivan Valentic, Vice Chair
Lake County Planning Commission
125 East Erie St.,
Painesville, OH 44077

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

PUCO

2019 APR -3 AM 11:09

RECEIVED-SOCKETING DIV.

Dear Mr. Valentic,

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Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Mr. David Radachy, Director
Lake County Planning &
Community Development
125 East Erie St.,
Painesville, OH 44077

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

PUCO

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RECEIVED-DOCKETING DIV

Dear Mr. Radachy,

In the attached application which was recently filed with the Ohio Power Siting Board, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to install four (4) new taps from the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines to Nathan Substation, replacing the existing four (4) transmission line taps from the Eastlake-Leroy Center Q-15 & Q-16 138 kV Transmission Line, which will be removed. One (1) new tap structure will support the four (4) new transmission line taps. The new tap structure installation will increase the loading on the nearby corner deadend structure, requiring replacement of that structure. The Project is needed to improve the reliability of the electric transmission system and will be located in the City of Mentor, Lake County, Ohio.

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Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Mr. Dan Donaldson, Administrator
Lake County SWCD
125 East Erie St.,
Painesville, OH 44077

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

PUCO

2019 APR -3 AM 11:09

RECEIVED-SOCKETING DIV


Dear Mr. Donaldson,

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I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2740.

Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Mr. Kenneth Filipiak, City Manager
City of Mentor
8500 Civic Center Blvd.,
Mentor, OH 44060

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

RECEIVED-POCKETING DIV
2019 APR -3 AM 11:10
PUCO

Dear Mr. Filipiak,

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Sincerely,

William R. Beutler

William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Mr. John Krueger, President
City of Mentor Council
8500 Civic Center Blvd.,
Mentor, OH 44060

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

RECEIVED-SOCKETING DIV
2019 APR -3 AM 11:10
PUCO

Dear Mr. Krueger,

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Sincerely,

William R. Beutler

William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Mr. Bruce Landeg, Vice President
City of Mentor Council
8500 Civic Center Blvd.,
Mentor, OH 44060

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

PUCO

2019 APR -3 AM 11:10

RECEIVED-SOCKETING DIV

Dear Mr. Landeg,

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Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Mr. David Swiger,
City of Mentor Engineer
8500 Civic Center Blvd.,
Mentor, OH 44060

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

PUCO

2019 APR -3 AM 11:10

RECEIVED-SOCKETING DIV

Dear Mr. Swiger,

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Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Mr. William Snow, Chairman
City of Mentor Planning Commission
8500 Civic Center Blvd.,
Mentor, OH 44060

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

RECEIVED-SOCKETING DIV
2019 APR -3 AM 11:10
PUCO

Dear Mr. Snow,

In the attached application which was recently filed with the Ohio Power Siting Board, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to install four (4) new taps from the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines to Nathan Substation, replacing the existing four (4) transmission line taps from the Eastlake-Leroy Center Q-15 & Q-16 138 kV Transmission Line, which will be removed. One (1) new tap structure will support the four (4) new transmission line taps. The new tap structure installation will increase the loading on the nearby corner deadend structure, requiring replacement of that structure. The Project is needed to improve the reliability of the electric transmission system and will be located in the City of Mentor, Lake County, Ohio.

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Sincerely,

William R. Beutler

William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Mr. Joseph Sidoti, Vice Chairman
City of Mentor Planning Commission
8500 Civic Center Blvd.,
Mentor, OH 44060

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

PUCO

2019 APR -3 AM 11:10

RECEIVED-SOCKETING DIV

Dear Mr. Sidoti,

In the attached application which was recently filed with the Ohio Power Siting Board, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to install four (4) new taps from the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines to Nathan Substation, replacing the existing four (4) transmission line taps from the Eastlake-Leroy Center Q-15 & Q-16 138 kV Transmission Line, which will be removed. One (1) new tap structure will support the four (4) new transmission line taps. The new tap structure installation will increase the loading on the nearby corner deadend structure, requiring replacement of that structure. The Project is needed to improve the reliability of the electric transmission system and will be located in the City of Mentor, Lake County, Ohio.

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Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission & Substation Design
FirstEnergy Service Company

Attachment

April 2, 2019

Ms. Cheryl Kuonen
Mentor Public Library, Main Library
8215 Mentor Ave
Mentor, OH 44060

Construction Notice
Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line
Tap to Nathan Substation Project
Case No. 19-0149-EL-BNR

PUCO

2019 APR -3 AM 11:10

RECEIVED-SOCKETING DIV

Dear Ms. Kuonen,

Enclosed please find one copy of the Construction Notice application of American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, for the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Line Tap to Nathan Substation Project ("Project") that has been filed with the Ohio Power Siting Board ("OPSB"). Please make the Construction Notice application available for public reference in the Mentor Public Library, Main Library. We are providing a copy of the Construction Notice application for placement in your library in response to the requirements of the Ohio Administrative Code ("OAC") Rule 4906-6-07(A)(2), which requires us to place a copy of the Construction Notice application in the main public libraries of the political subdivisions in which any portion of the Project is to be located.

As described in the Construction Notice application, ATSI is proposing in the Project proposes to install four (4) new taps from the Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines to Nathan Substation replacing the existing four (4) transmission line taps from the Eastlake-Leroy Center Q-15 & Q-16 138 kV Transmission Line, which will be removed. One (1) new tap structure will support the four (4) new transmission line taps. The new tap structure installation will increase the loading on a nearby corner deadend structure, requiring replacement of that structure. The Project will be located in the City of Mentor, Lake County, Ohio.

Please feel free to call me with any question you have on making the Construction Notice available to your patrons. My phone number is (330) 384-2740.

Sincerely,



William R. Beutler, P.E.

Engineer III

Energy Delivery Transmission and Substation
Design

FirstEnergy Service Company

Enclosure

**Mayfield-Eastlake Q-3 & Q-4 138 kV Transmission Lines Tap to Nathan
Substation Project
Case Number 19-0149-EL-BNR**

Date: April 2, 2019

**Attachment 1
Affidavit of William R. Beutler**

BEFORE THE
OHIO POWER SITING BOARD

In The Matter Of:)
The Application of American Transmission)
Systems, Incorporated for a Certificate of)
Environmental Compatibility and Public)
Need for the Construction for the)
Mayfield-Eastlake Q-3 & Q-4 138 kV)
Transmission Line Tap to Nathan)
Substation Project)

Case No. 19-0149-EL-BNR

PUCO

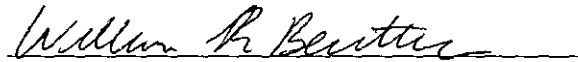
2019 APR -3 AM 11:14

RECEIVED-DOCKETING DIV

AFFIDAVIT OF WILLIAM R. BEUTLER

I, William R. Beutler, state the following:

Pursuant to Ohio Administrative Code Rule 4906-2-04(A)(3)(e), I am the authorized representative of the Applicant in this case and I affirm that the Construction Notice Application filed in this matter is true and accurate to the best of my information and belief.



William R. Beutler
FirstEnergy Service Company

State of Ohio)
) ss:
County of Summit)

Sworn and subscribed before me this 2 day of April, 2019.



Ashlee Waite
Resident Summit County
Notary Public, State of Ohio
My Commission Expires:
June 19, 2019


Notary Public