

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

LETTER OF NOTIFICATION

**THE FORMER BURGER 138 kV TRANSMISSION LINE
EXTENSIONS TO HOLLOWAY SUBSTATION**

OPSB CASE NO.: 19-0985-EL-BLN

May 21, 2019

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

**LETTER OF NOTIFICATION
THE FORMER BURGER 138 kV TRANSMISSION LINES
EXTENSION TO HOLLOWAY 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 Letter of Notification application.

4906-6-05: ACCELERATED APPLICATION REQUIREMENTS

4906-6-05: Name

Name of Project: The former Burger 138 kV Transmission Lines Extensions to Holloway Substation Project (“Project”).

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

In this Project, American Transmission Systems, Incorporated (“ATSI”), a FirstEnergy company, is proposing to construct approximately 0.27-mile-long new transmission line extensions from the deenergized former Burger-Harmon No.2, Burger-Cloverdale No. 1, and the Burger Line Loop Transmission Lines into AEP’s Holloway Substation. The new transmission line extensions will be placed on three (3) new double circuit, steel pole structures. To connect the new transmission line extensions, existing Structure 15400 will be modified at its current location and existing Structure 15401, which supports the Former Burger Line Loop, will be relocated approximately 50 feet south of its current location inline with the existing centerline.

To make room for the new transmission line extensions, four (4) existing structures will be removed on the deenergized Burger-Knox and Burger-Harmon No. 1 138 kV Transmission Lines. Two (2) new wood 3-pole structures will be placed to deadend these deenergized transmission lines.

The deenergized transmission lines will be converted to 6 wire configurations on the existing structures for approximately 2.51 miles. Two (2) new steel pole structures will be constructed at the southern end of the deenergized transmission lines to connect to AEP's proposed Dilles Bottom-Holloway and George Washington-Holloway 138 kV Transmission Lines, which the Board considered and approved on August 22, 2018 in Case No. 18-0603-EL-BLN.

South of the interconnection point between AEP and ATSI, approximately 0.93 miles of the deenergized former Burger-Harmon No.2, Burger-Cloverdale No. 1, and the Burger Line Loop Transmission Lines will be removed. Only the conductor will be removed for public safety. The structures will remain in place.

The general location of the Project is shown in Exhibit 1, a partial copy of the United States Geologic Survey, Belmont County OH, Quad Map, ID number 39080-H7. Exhibit 2 is a partial copy of Bing aerial imagery. The general layout is shown in Exhibit 3. The Project will be located in Mead Township, Belmont County, Ohio.

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

The Project meets the requirements for a Letter of Notification because the Project is within the types of projects defined by Item (1)(b) 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:

(b) Line(s) greater than 0.2 miles in length but not greater than two miles in length.

The proposed Project is within the requirements of Item (1)(b) as it involves the construction of approximately 0.27 miles of new double circuit transmission line.

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

The Project is a PJM baseline RTEP project (b2753). This Project is a baseline project needed to relieve transmission system criteria violations on the AEP system associated with generation retirements along with the potential of a major industrial customer in the region. Due to these system changes, opening the bus tie breaker at George Washington 138 kV Substation leads to a thermal violation on the George Washington 138 kV bus. To mitigate this transmission system criteria violation, FirstEnergy and AEP will create the Holloway-Dilles Bottom 138 kV Transmission Line and the George Washington-Holloway 138 kV Transmission Line. This will be accomplished by six-wiring roughly 2.4 miles of the de-energized Burger-Harmon #2 138 kV Transmission Line and the de-energized Burger-Cloverdale 138 kV Line to create the FirstEnergy portion of the Holloway-Dilles Bottom 138 kV Transmission Line. Additionally, FirstEnergy will be six-wiring roughly 2.4 miles of the de-energized Burger Loop #1 and #2 138 kV Transmission Lines to create the FirstEnergy portion of the George Washington-Holloway 138 kV Transmission Line. A connection will then be made with AEP to connect the FirstEnergy portion of the Holloway-Dilles Bottom 138 kV Transmission Line and the George Washington-Holloway 138 kV Transmission Line with the AEP 138 kV lines from Dilles Bottom and George Washington Substations. AEP will also terminate the new 138 kV transmission lines at the AEP owned Holloway Substation. This Project is included in the 2019 Long Term Forecast Report.

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. 2019 Long-Term Forecast Report. This map was submitted to the PUCO in Case No. 19-0806-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 Former Burger 138 kV Transmission Lines and Holloway Substation. The project area is located approximately 13 ³/₁₀ inches (11" x 17" printed version) from the left edge of the map and 8 ¹/₄ inches (11" x 17" printed version) from the top of the map. The general location and layout of the project area is shown in Exhibits 1 and 2. This Project is included in the 2019 Long Term Forecast Report.

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

The general area of the Project was carefully considered to identify potential routes for the Project that are constructible, minimize potential impacts to the extent practical, and meet the needs of the Project. Due to the location of existing transmission lines and structures, no route alternatives for this Project were proposed.

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 Project as necessary. ATSI will maintain a copy of this Letter of Notification application 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.

ATSI will publish notice of the Project in Martins Ferry Times Leader. Additionally, letters will be sent to affected property owners when this Letter of Notification application is submitted to the Board informing them of the Project.

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

The construction schedule for this Project is expected to begin as early as June 17, 2019 and completed by December 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, Belmont County OH, Quad Map, ID number 39080-H7. Exhibit 2 is a partial copy of Bing aerial imagery.

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

The Project is located on new and existing right-of-way and new right-of-way is required for the Project. Table 1 contains a list of property owners effected by the project.

Table 1: Property Owner List			
Parcel Number	Property Owner	Property Address	Easement Status
Property Owners with New Construction			
14-00277.001-6	AEP Ohio Transmission Company Inc.	60866 Hawthorne Hill Rd., Shadyside, OH 43947	To Be Obtained
14-00277.001-5	AEP Ohio Transmission Company Inc.	60866 Hawthorne Hill Rd., Shadyside, OH 43947	To Be Obtained
14-00277.001-12-1	AEP Ohio Transmission Company Inc.	60866 Hawthorne Hill Rd., Shadyside, OH 43947	To Be Obtained
15-00856.000-1	Smith, Francis R & Vicki J	0 Off TWP #534, Shadyside, OH 43947	Obtained
Property Owners with Re-energized Transmission Lines			
15-00082.004-4-5	Tomich, Louis M & Pamela S	Wegee Rd., Shadyside, OH 43947	Obtained
15-00278.00-7	Mehl, David S	60760 Hawthorne Hill Rd., Shadyside, OH 43947	Obtained
15-00082.003-4-4	Clark, Niholas M	54779 Wegee Rd., Shadyside, OH 43947	Obtained
15-00082.002-4-3	Dunn, Bruce A & Janet	54776 Wegee Rd., Shadyside, OH 43947	Obtained
15-00082.001-4-2	Nolen, Ronald L& Linda A	54780 Wegee Rd., Shadyside, OH 43947	Obtained
15-00541.000-17	Albright, David L Sr & Elsa C	0 Off TWP #296, Shadyside, OH 43947	Obtained
15-00603.000-13	Shreve, Robert L & Betty J	54912 Cash Ridge Rd., Shadyside, OH 43947	Obtained
15-000574.000-5	Milazzo, Richard V & Stacy E	0 Off TWP #298, Shadyside, OH 43947	Obtained
15-00659.000-1	Krupa, Martyn L; etal	0 Off TWP #614, Shadyside, OH 43947	Obtained
15-01245.000-15	Smith, Francis R & Vicki J	54950 Cash Ridge Rd., Shadyside, OH 43947	Obtained

Table 1: Property Owner List			
Parcel Number	Parcel Number	Parcel Number	Parcel Number
Property Owners with De-energized Transmission Lines to Be Removed			
15-90019.000	Tonkovich, James A	0 SR 7, Shadyside, OH 43947	Obtained
15-00793.000-2	Tonkovich, Kames A & Betty L	0 Off TWP #534, Shadyside, OH 43947	Obtained
15-00855.000	Ohio Edison Company	0 Off TWP #534, Shadyside, OH 43947	Obtained
15-00546.000-11	Alrin Corp.	0 SR 7, Shadyside, OH 43947	Obtained
Access Only			
15-01246.000-54-2	Smith, Francis R & Vicki J	0 Off TWP #534, Shadyside, OH 43947	Obtained

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

New Conductors: 1590 kcmil 45/7 ACSR

New Static Wire: 7#8 Alumoweld

Existing Conductors: 795 kcmil 26/7 ACSR
605 kcmil 24/7 ACSR

Existing Static Wire: 134.6 12/7 ACSR

New Insulators: Porcelain

Existing Insulators Porcelain & Polymer

ROW Width: 400 feet

Land Requirements: N/A

Structure Types: Exhibit 5: 138 kV Double Circuit Steel Pole, Deadend, Two Static Wire. Three (3) structures are needed.

Exhibit 6: 138 kV Double Circuit Steel Pole, Deadend, One Static Wire. Three (3) structures are needed and one (1) modified to this configuration.

Exhibit 7: 138 kV Single Circuit Deadend Horizontal Three Pole. Two (2) structures are needed.

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

The closest occupied residence or institution is located along the proposed transmission line centerline therefore Electric and Magnetic Field (“EMF”) calculations are required by this code provision.

4906-6-05 (B)(9)(b)(i): Calculated Electric and Magnetic Fields Strength Levels

Table 2 itemizes the line loading of the proposed Dilles Bottom-Holloway 138 kV Transmission Line and the George Washington-Holloway 138 kV Transmission Line. The normal line loading represents FirstEnergy’s peak system load for the transmission lines. The emergency line loading represents the maximum line loading under contingency operation. The winter rating is based on the continuous maximum conductor rating (“MCR”) of the circuits for the single conductors per phase and an ambient temperature of zero degrees centigrade (32 °F), wind speed of 1.3 miles per hour, and a circuit design operating temperature of 100 °C (212 °F).

Table 2: Transmission Line Loading

Line Name	Normal Loading Amps	Emergency Loading Amps	Winter Rating Amps
Dilles Bottom-Holloway 138 kV	312	526	2200
George Washington-Holloway 138 kV	315	528	2636

Table 3 & 4 provide an approximation of the magnetic and electric fields strengths of the Dilles Bottom-Holloway 138 kV & George Washington-Holloway 138 kV Transmission Lines and are all calculated in a 400-foot right-of-way. The calculations provide an

approximation of the electric and magnetic fields levels based on specific assumptions utilizing the EPRI EMF Workstation 2009 program software. This program software assumes the input transmission line configuration is located on flat terrain. Also, a balanced, three-phase circuit loading is assumed for the transmission circuit. The model utilizes the normal, emergency, and winter rating of the transmission lines.

Table 3: EMF Calculations for Dilles Bottom-Holloway 138 kV & George Washington-Holloway 138 kV

Dilles Bottom-Holloway 138 kV & George Washington-Holloway 138 kV, 400-foot right-of-way		Electric Field kV/m	Magnetic Field mG
Normal Loading	Under Lowest Conductors	1.798	22.29
	At Right-of-Way Edges	0.029 / 0.10	1.48 / 7.5
Emergency Loading	Under Lowest Conductors	1.798	37.36
	At Right-of-Way Edges	0.029 / 0.10	2.49 / 12.5
Winter Rating	Under Lowest Conductors	1.798	186.94
	At Right-of-Way Edges	0.029 / 0.10	11.12 / 60.5

The above model only shows the worst-case scenario for the EMFs, which occurs underneath the proposed Dilles Bottom-Holloway 138 kV Transmission Line.

4906-6-05 (B)(9)(b)(ii): Alternative Design Consideration for Electric and Magnetic Fields

The strength of EMFs can potentially be reduced by installing the transmission line conductors in a compact configuration and, for multiple circuit transmission lines, by selecting conductor phasing that reduces the field strengths. ATSI designs its facilities according to the requirements of the NESC. The pole heights and configuration were chosen based on NESC specifications, engineering parameters, and cost. ATSI's typical practice, as proposed in this the new construction portions of this Project, is to install 138 kV transmission lines primarily on tangent structures supported on horizontal post

insulators – this is a compact design that reduces EMF field strengths in comparison to other installations.

It is worth noting that in this case there is only one occupied residence within 100 feet of the centerline, but this residence is located directly on the centerline. However, this residence is located in a valley and the transmission lines pass several hundred feet above the residence. Consequently, it is expected that the EMF for this residence will likely be significantly lower than modeled for the edge of the ROW due to the physical distance of the residence from the transmission line. However, taking the most conservative approach, the EMF calculations are provided for the worst-case scenario.

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

The estimated capital cost for the proposed project is approximately \$4,396,400. The entire cost of the project will be paid by ATSI.

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

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

The Project will be located in Mead Township, Belmont County, Ohio. The main land use around the Project is rural agricultural and forest. There are some industrial and mining areas.

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

Agricultural land does not exist within the Project's disturbance area. There is one (1) property that is active agricultural land in or directly adjacent to the re-energized transmission line section. No impacts to this parcel are expected since there will be no work on the transmission lines in this area. A list of all agricultural land and acreage including agricultural district land is given in Table 4.

Table 4: Agricultural Lands within the Project’s Disturbance Area

Parcel Number	Property Owner	Acreage	Agricultural District	Agricultural District Expiration
15-00603.000-13	Shreve, Robert L & Betty J	76.97	No	N/A

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 8.

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. Five (5) previous cultural resource surveys was conducted within 0.5 miles of the Project area and is provided in Table 5. No OSG cemeteries are located within 0.5 miles of the Project area.

Table 5. List of Previous Cultural & Historic Resource Survey

Year	Name	County	Municipality
2013	Phase I Cultural Resource Management Investigations for American Electric Power's 20.4 km Kammer-West Bellaire Re-conductoring project in Switzerland Township, Monroe County and York/Mead/Pultney Townships, Belmont County, Ohio	Belmont	Mead Township
2013	Phase I Cultural Resource Management Investigations for American Electric Power's Approximately 4ha (10 ac) Ghost Town Station Development in Mead Township, Belmont County Ohio	Belmont	Mead Township
2013	Addendum to Visual & Archaeological Reconnaissance of Six Areas of Proposed Ground-Disturbing Activity in Association w/ the Installation of Fiber-Optic - Colerain, Mead, Pease, Pultney, Richland, Somerset, Union, Warren, & York Twps. Belmont Co, Ohio	Belmont	Mead Township
2013	Phase I Cultural Resource Management Investigations at the Approximately 610m (2,000 ft) Long Holloway Station Stream 7 Project in Mead Township, Belmont County, Ohio	Belmont	Mead Township
2018	Phase I Cultural Resource Management Investigations for the 2.4 km (1.5 mi) Dilles Bottom-FE Corridor 69kV to 138kV Upgrade Project in Mead Township, Belmont County, Ohio	Belmont	Mead Township

The results of the OHPO online database shown that there have been several cultural resource surveys completed. Four (4) out of the five (5) surveys are located near the Holloway Substation portion of the Project. The other survey is located near the new ATSI-AEP interconnection point at the southern end of the Project. All new construction is approximately located in areas that have been surveyed before. Therefore, within the Project's area, no impacts to any cultural or archeological resources are expected.

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

Table 6 shows the list of government agency requirements and the filing status at the time of filing.

Table 6. List of Government Agency Requirements to be Secured Prior to Construction

Agency	Permit Requirement	Status
Ohio EPA	General NPDES Construction Storm Water Permit	Will be Filed

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

TRC, on behalf of ATSI, submitted a request to the Ohio Department of Natural Resources (“ODNR”) Office of Real Estate to conduct an Environmental Review on April 2, 2019. As part of the Environmental Review, the ODNR Office of Real Estate conducted a search of the ODNR Division of Wildlife’s Natural Heritage Database to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project area. The ODNR’s Office of Real Estate response dated May 3, 2019 is included as Exhibit 9. The response indicated that the Project area is within the range of one (1) federally listed endangered species, four state endangered species, and six (6) state threatened species.

TRC, on behalf of ATSI, submitted a request to the US Fish and Wildlife Service (“USFWS”) for an Ecological Review, to research the presence of any endangered, threatened, or rare species within one (1) mile of the Project area. A copy of USFWS’s Ecological Review response is included as Exhibit 10. The USFWS response on April 4, 2019 indicated that they have records one (1) federal and state endangered species and one (1) federal endangered and state threatened species. A list of all endangered, threatened, and rare species, as identified by ODNR and USFWS, is provided in Table 7.

Table 7. List of Endangered, Threatened, and Rare Species.

Table 6: List of Endangered, Threatened, and Rare Species				
Common Name	Scientific Name	Federal Listed Status	State Listed Status	Affected Habitat
Indiana Bat	<i>Myotis sodalis</i>	Endangered	Endangered	Trees & Forest
Northern Long-Ear Bat	<i>Myotis septentrionalis</i>	Threatened	Threatened	Trees & Forest
Eastern Hellbender	<i>Cryptobranchus alleganiensis alleganiensis</i>	N/A	Endangered	Streams
Western Banded Killifish	<i>Fundulus diaphanus menona</i>	N/A	Endangered	Streams
Butterfly	<i>Ellipsaria lineolata</i>	N/A	Endangered	Streams
Tippecanoe Darter	<i>Etheostoma tippecanoe</i>	N/A	Threatened	Streams
Channel Darter	<i>Percina copelandi</i>	N/A	Threatened	Streams
River Darter	<i>Percina shumardi</i>	N/A	Threatened	Streams
Paddlefish	<i>Polyodon spathula</i>	N/A	Threatened	Streams
Black Sandshell	<i>Ligumia recta</i>	N/A	Threatened	Streams
Threehorn Wartyback	<i>Obliquaria reflexa</i>	N/A	Threatened	Streams

The response from ODNr and USFWS indicated the federal and state endangered Indiana Bat (*Myotis sodalis*) and the federal threatened Northern Long-Eared Bat (*Myotis septentrionalis*) are within the range of the Project. Tree clearing is not expected on this Project since the Project area is within existing cleared right-of-way. If tree clearing is deemed necessary during construction, it will be scheduled to be completed between October 1st and March 31st to avoid affecting any potential bat habitat. If this schedule

cannot be achieved and the clearing of trees outside of this window is deemed necessary, consultation with ODNR and USFWS will be completed prior to clearing.

The reminder of the species listed on the ODNR response are aquatic and specifically, found in streams. No impacts to these species are expected due to the Project's location and because no work is proposed in streams or wetlands.

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

TRC, on behalf of ATSI, submitted a request to the Ohio Department of Natural Resources ("ODNR") Office of Real Estate to conduct an Environmental Review on. The ODNR Office of Real Estate researched the presence of any unique ecological sites, geological features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forest, national wildlife refuges, or other protected natural areas within one (1) mile of the project area. No such areas were identified in the response from the ODNR Office of Real Estate.

TRC, on behalf of ATSI, conducted a wetland and stream delineation of the Project area. The TRC investigation focused on an approximately 17-acre study area around the proposed Project centerline near Holloway Substation and a 6-acre study area around the proposed new southern AEP-ATSI interconnection point. The study area for both sections included access roads and additional workspace areas.

Only one wetland in the north study area was identified. It is located near an existing cobble access road and is possibly fed by a nearby culvert. It follows the slope of the hillside and possibly continues offsite. Wetland W-JDV-01 is a Category 1 wetland with a preliminary score of 23 using Ohio Rapid Assessment for Wetlands version 5.0. No additional aquatic resources were located in the North study area and no features were found in the South study area. Photographs and figures of the of the study areas are included as part of Exhibit 11.

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 Letter of Notification Transmittal and Availability for Public Review

This Letter of Notification is being provided concurrently with its docketing with the Board to the following officials in Mead Township, Belmont County, Ohio.

Belmont County

Commissioner Jerry Echemann
Board of Commissioners
101 West Main Street
St. Clairsville, OH 43950

Commissioner Josh Meyer
Board of Commissioners
101 West Main Street
St. Clairsville, OH 43950

Commissioner J.P. Dutton
Board of Commissioners
101 West Main Street
St. Clairsville, OH 43950

Ms. Crystal L. Lorimor, Executive
Director
Belmont County Department of
Development/CIC
117 East Main Street
St. Clairsville, OH 43950

Ms. Hanna Carpenter, Manager
Belmont County Soil & Water
Conservation District
103 West Market Street
St. Clairsville, OH 43950

Mr. Terry D. Livey, P.E., P.S.
Belmont County Engineer
101 West Main Street
St. Clairsville, OH 43950

Mead Township

Mr. David Mellott
Mead Township Trustee
52418 Pipe Creek Road
Jacobsburg, OH 43933

Mr. Edward Good
Mead Township Trustee
56080 Matts Lane
Shadyside, OH 43947

Mr. Paul Merryman
Mead Township Trustee
56250 Skyline Dr
Shadyside, OH 43947

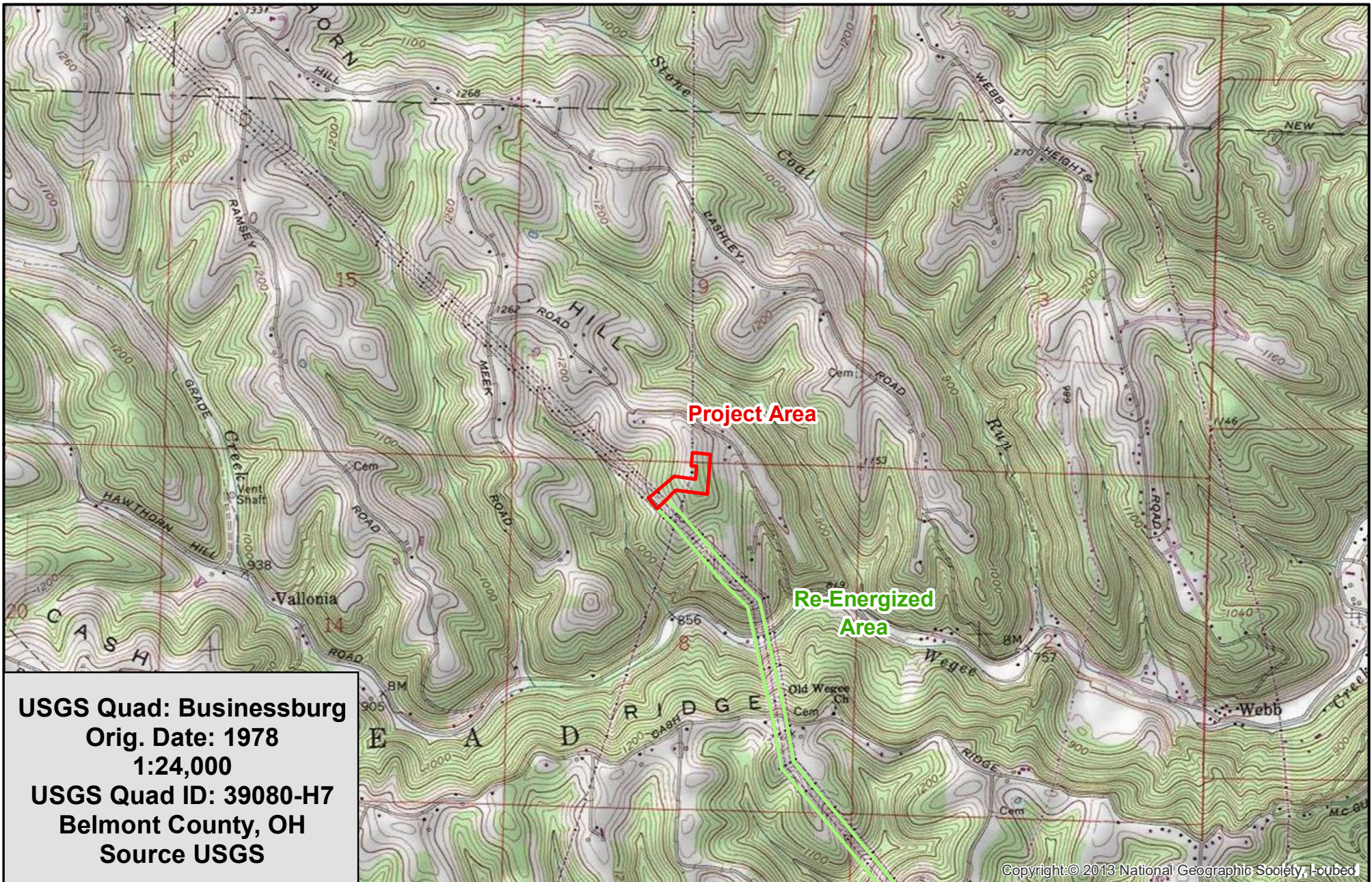
Mr. David Albright
Mead Township Fiscal Officer
53322 Cash Ridge Road
Shadyside, OH 43947

Library

Ms. Lisa Millhouse, Manger
Belmont County District Library
Shadyside Branch Library
4300 Central Avenue
Shadyside, OH 43947

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 Letter of Notification 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).



0 1,200 2,400 3,600
Feet
1:24,000

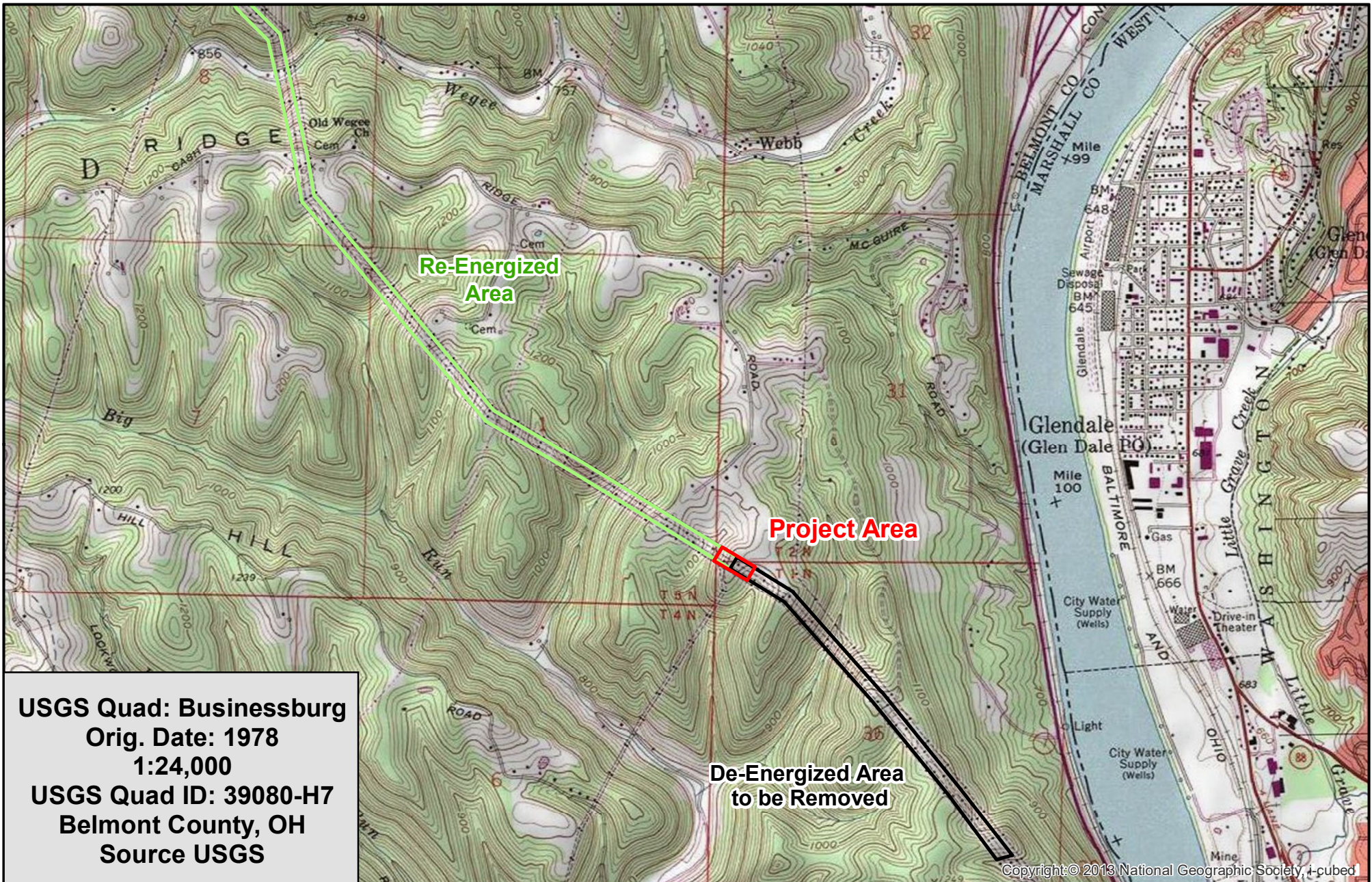
Former Burger 138 kV Transmission Lines Extensions to Holloway Substation Project

Exhibit 1-1



FirstEnergy

Created on 5/8/2019



USGS Quad: Businessburg
Orig. Date: 1978
1:24,000
USGS Quad ID: 39080-H7
Belmont County, OH
Source USGS

0 1,200 2,400 3,600
Feet
1:24,000

Former Burger 138 kV Transmission Lines Extensions
to Holloway Substation Project

Exhibit 1-2



FirstEnergy

Created on 5/9/2019



0 1,200 2,400 3,600 Feet
1:24,000

Former Burger 138 kV Transmission Lines Extensions to Holloway Substation Project

Exhibit 2-1



FirstEnergy

Created on 5/8/2019



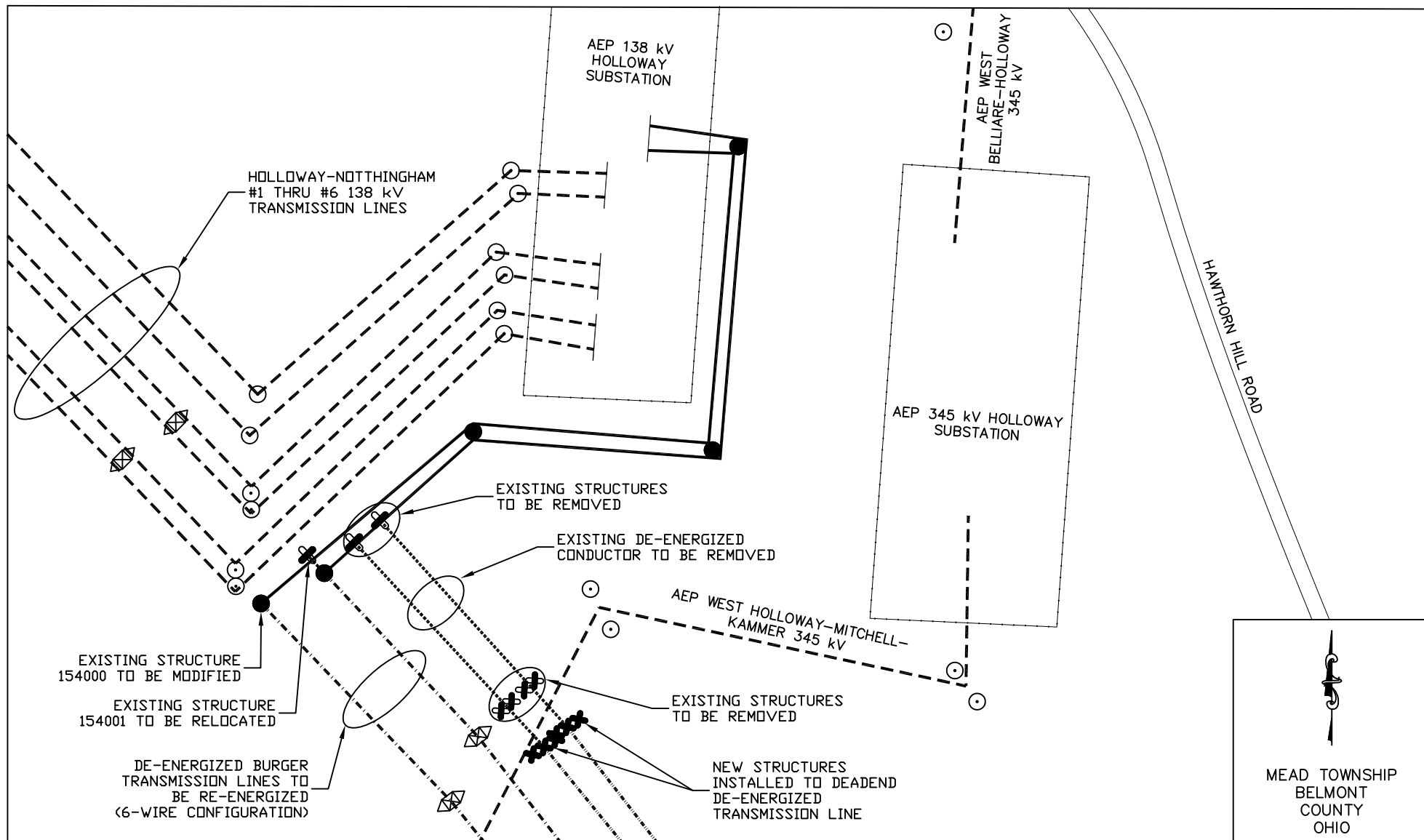
Former Burger 138 kV Transmission Lines Extensions to Holloway Substation Project

Exhibit 2-2



FirstEnergy

Created on 5/9/2019



LEGEND

	SUBSTATION FENCE LINE		EXISTING TWO POLE STEEL STRUCTURE
	EXISTING CONDUCTOR		EXISTING SINGLE POLE STEEL STRUCTURE
	NEW CONDUCTOR		EXISTING TWO POLE WOOD STRUCTURE
	DE-ENERGIZED CONDUCTOR		SINGLE POLE STRUCTURE REMOVED
	RE-ENERGIZED CONDUCTOR		TWO POLE WOOD STRUCTURE REMOVED
	DE-ENERGIZED CONDUCTOR REMOVED		NEW SINGLE STEEL POLE
	EXISTING STEEL LATTICE STRUCTURE		NEW 3-POLE WOOD STRUCTURE

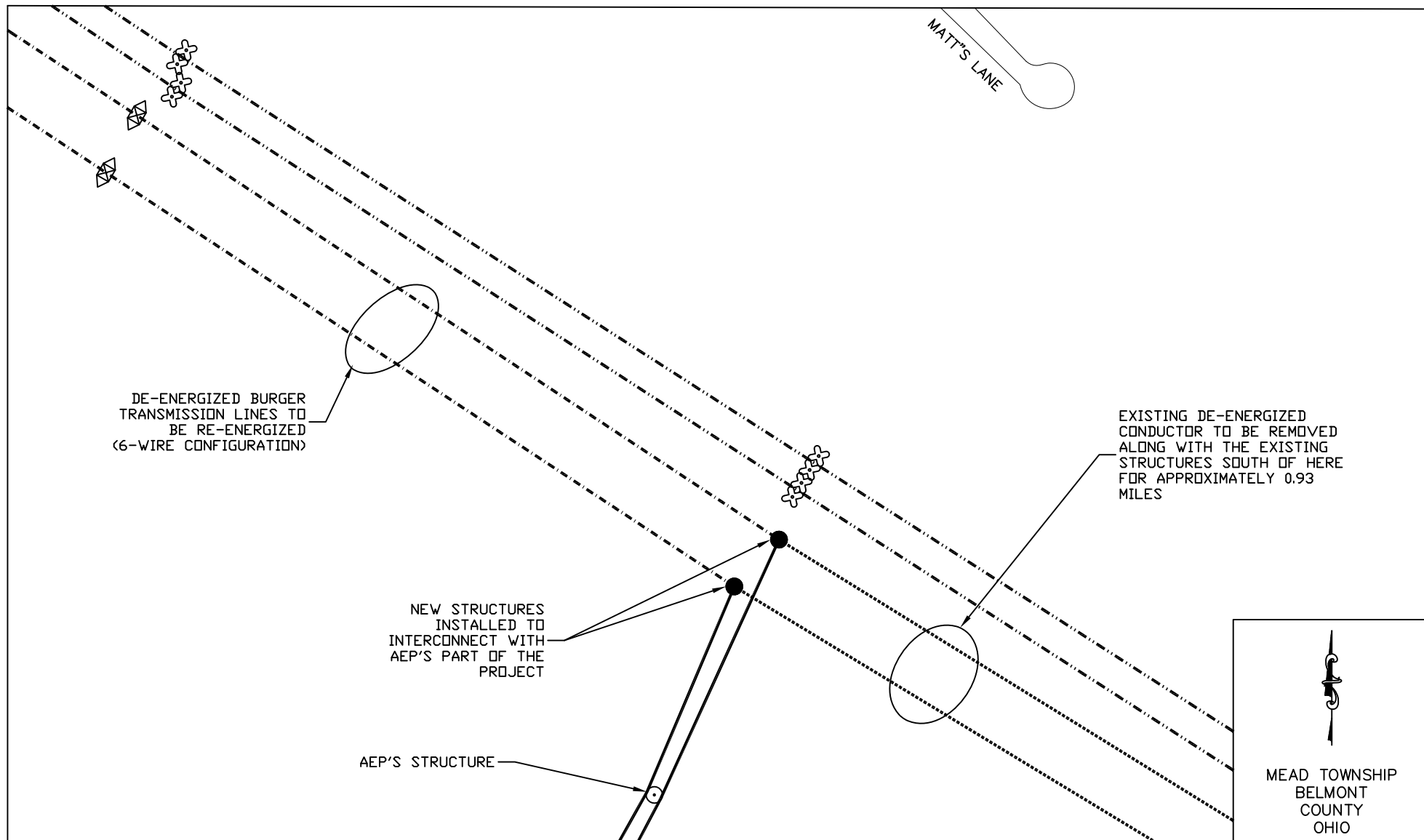
ATSI®

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

GENERAL LAYOUT

138 kV FORMER BURGER TRANSMISSION
LINE EXTENSIONS TO HOLLOWAY
SUBSTATION PROJECT

EXHIBIT 3-1



LEGEND

	SUBSTATION FENCE LINE		EXISTING TWO POLE STEEL STRUCTURE
	EXISTING CONDUCTOR		EXISTING SINGLE POLE STEEL STRUCTURE
	NEW CONDUCTOR		EXISTING TWO POLE WOOD STRUCTURE
	DE-ENERGIZED CONDUCTOR		SINGLE POLE WOOD STRUCTURE REMOVED
	RE-ENERGIZED CONDUCTOR		TWO POLE WOOD STRUCTURE REMOVED
	DE-ENERGIZED CONDUCTOR REMOVED		NEW SINGLE STEEL POLE
	EXISTING STEEL LATTICE STRUCTURE		NEW 3-POLE WOOD STRUCTURE

ATSI®

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

GENERAL LAYOUT

138 kV FORMER BURGER TRANSMISSION
LINE EXTENSIONS TO HOLLOWAY
SUBSTATION PROJECT

EXHIBIT 3-2

**Baseline Cost Change (B2753.1-10)****Previously Presented: 6/30/2017 SRTEAC****Original Scope and Cost (was presented in 7/26/2016 and 3/9/2017 SRTEAC, 12/15/2016 TEAC):**

George Washington Station – Replace existing 138kV yard with GIS 138kV breaker and a half yard in existing station footprint. Install 138kV revenue metering for new IPP connection. (N5076.1/B2753.1) --AEP

Dilles Bottom Station – Replace Dilles Bottom 69/4kV Distribution station as breaker and a half 138kV yard design including AEP Distribution facilities but initial configuration will constitute a 3 breaker ring bus. (N5076.2/B2753.2) --AEP

Holloway Station – Connect two 138kV 6-wired ckts from “Point A” (currently de-energized and owned by First Energy) in ckt positions previously designated Burger #1 & Burger #2. Install interconnection settlement metering on both circuits exiting Holloway station.

(N5076.3/B2753.3) --AEP

Holloway-”Point A” FE “Burger-Cloverdale No.2” 138kV Line – 6 wire “Burger-Cloverdale No. 2” 138kV Line for double capacity and connect at Holloway and “Point A” (N5076.4/B2753.4)--FE

Holloway -”Point A” FE “Burger-Longview” 138kV Line – 6 wire “Burger-Longview” 138kV Line for double capacity and connect at Holloway and “Point A” (N5076.5/B2753.5)--FE

Dilles Bottom -”Point A”138kV Line - Build dbl ckt 138kV line from Dilles Bottom to “Point A”. Tie each new AEP ckt in with a 6 wired line at Point A. This will create a Dilles Bottom-Holloway 138kV ckt and a George Washington-Holloway circuit. (N5076.6/B2753.6) --AEP

Dilles Bottom-Bellaire and Moundsville-Dilles Bottom 69kV Lines - Retire line sections south of First Energy 138kV line corridor, near “Point A”. Tie George Washington-Moundsville 69kV ckt to George Washington-West Bellaire 69kV ckt (N5076.7/B2753.7) --AEP

Washington-Dilles Bottom 69kV Line – Rebuild existing line as dbl ckt 138kV from George Washington to Dilles Bottom. One circuit will cut into Dilles Bottom initially and the other will go past with future plans to cut in. (N5076.8/B2753.8) --AEP

Remove/Open Kammer 345/138 kV transformer #301 (b2753.9/N5076.9)

Complete sag study mitigation on the Muskingum – Natrium 138 kV line(b2753.10/N5076.10)

Continued on next slide ...



EXHIBIT 4

AEP/ATSI Transmission Zone

Baseline Cost Change (B2753.1-10)

Previously Presented: 6/30/2017 SRTEAC

Original Scope and Cost (was presented in 7/26/2016 and 3/9/2017 SRTEAC, 12/15/2016 TEAC):

Cost Sharing Approach: The interconnection project was to share \$24.5614M of the cost (their ISA commitment) and the Baseline would assume the remainder

Cost Sharing Update: The interconnection project withdrew, the project is still needed. The baseline cost portion will now be 100% of the required project cost.

Required IS Date: 1/1/2019

Original Split Cost	
B2753.1: \$0M	N5076.1: \$24M
B2753.2: \$9M	N5076.2: \$0M
B2753.3: \$2M	N5076.3: \$0M
B2753.4: \$0.25M	N5076.4: \$0M
B2753.5: \$0.25M	N5076.5: \$0M
B2753.6: \$5M	N5076.6: \$0M
B2753.7: \$4.96M	N5076.7: \$0.5614M
B2753.8: \$3.56M	N5076.8: \$0M
B2753.9: \$0M	N5076.9: \$0M
B2753.10: \$2.8M	N5076.10: \$0M

New Split Cost	
B2753.1: \$22.32M	N5076.1: Cancelled
B2753.2: \$9M	N5076.2: Cancelled
B2753.3: \$2M	N5076.3: Cancelled
B2753.4: \$0.25M	N5076.4: Cancelled
B2753.5: \$0.25M	N5076.5: Cancelled
B2753.6: \$5M	N5076.6: Cancelled
B2753.7: \$5.52M	N5076.7: Cancelled
B2753.8: \$3.56M	N5076.8: Cancelled
B2753.9: \$0M	N5076.9: Cancelled
B2753.10: \$2.8M	N5076.10: Cancelled

Continued on next slide ...

Baseline Cost Change (B2753.1-10)

Continued from previous slide ...

Previously Presented: 6/30/2017 SRTEAC

Reasons for the Cost Change:

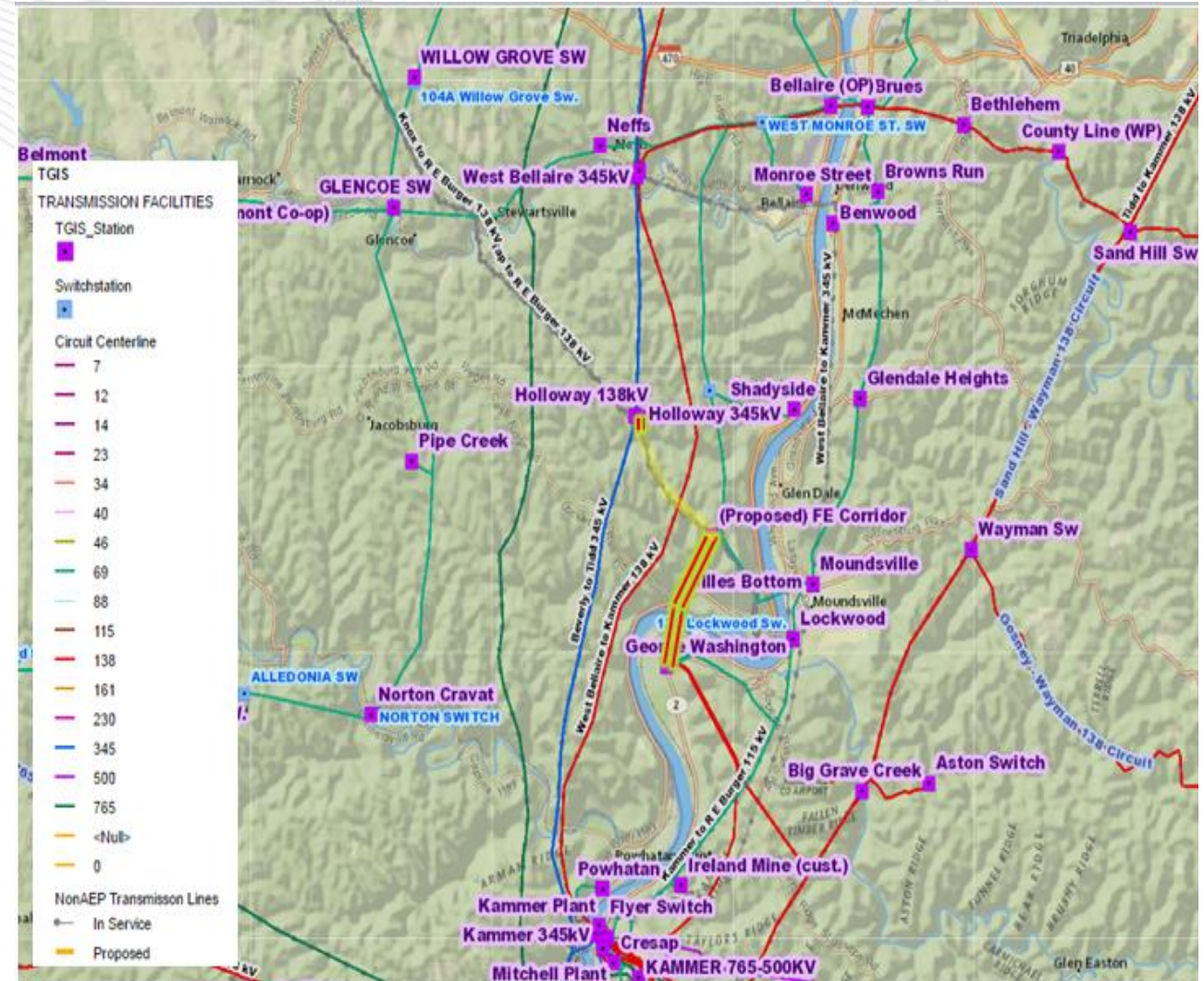
Queue projects Y3-068 / Z2-048 have been withdrawn.

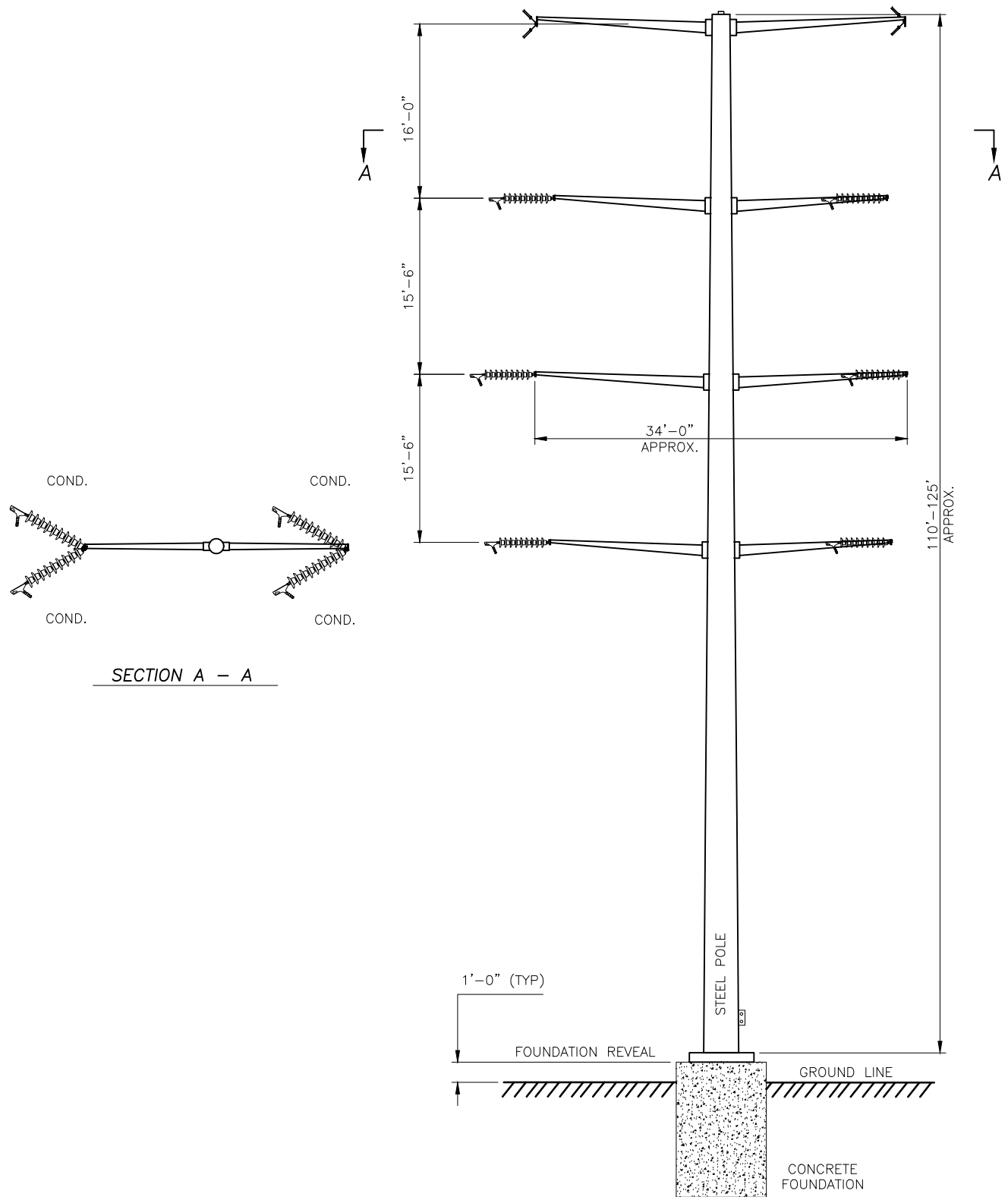
The shared cost of \$24.761M now is transferred to Baseline B2753.1-10.

B2753.1 New Scope: George Washington Station – Replace existing 138kV yard with GIS 138kV breaker and a half yard in existing station footprint. (Due to the withdrawal of the interconnection request, there is no need for the revenue metering for new IPP connection)

New Estimated Cost: \$50.7M

New Required IS Date: 5/31/2020





NOTE:
DETAILS DEPICTED IN FIGURE CAN BE APPLIED FOR ANY
TYPE OF STEEL POLE CONFIGURATION.

****NOT TO SCALE**

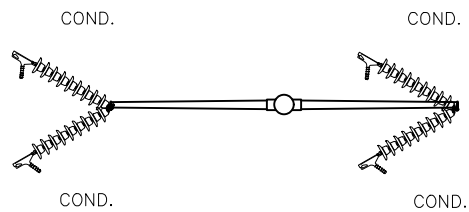
ATSI[®]

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

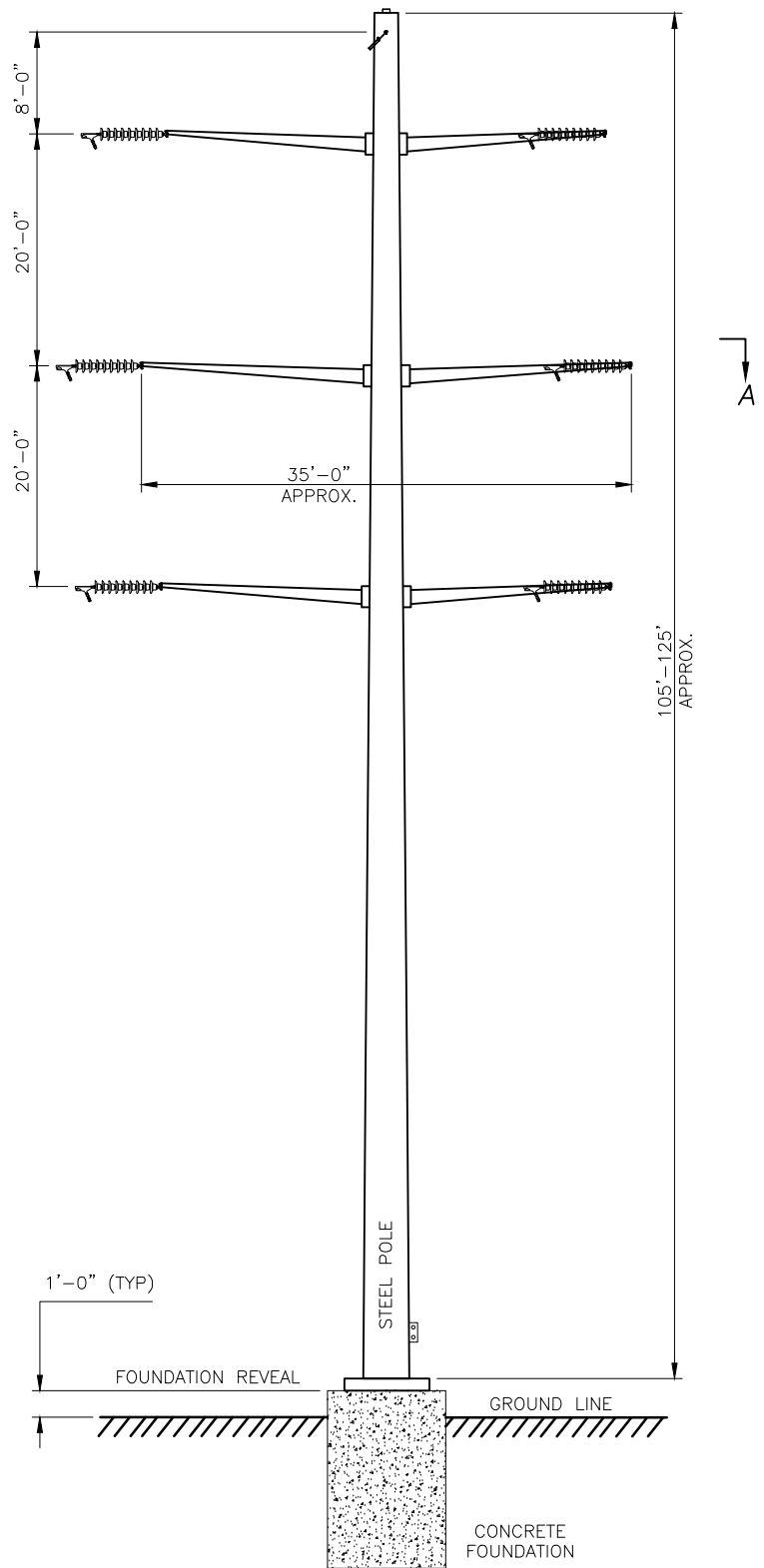
THE FORMER BURGER 138kV
TRANSMISSION LINES EXTENSIONS
TO HOLLOWAY SUBSTATION PROJECT

138kV DOUBLE CIRCUIT
STEEL POLE, DEADEND

EXHIBIT 5



SECTION A - A



NOTE:
DETAILS DEPICTED IN FIGURE CAN BE APPLIED FOR ANY
TYPE OF STEEL POLE CONFIGURATION.

****NOT TO SCALE**

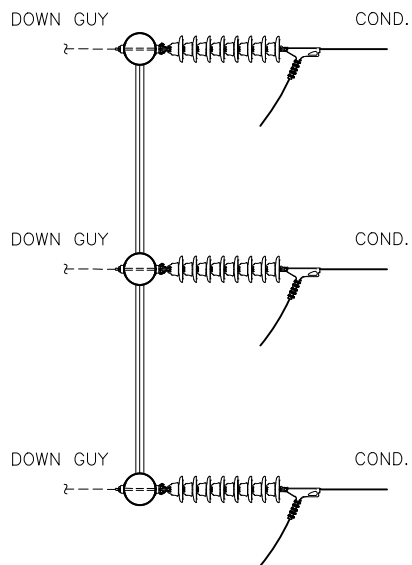
ATSI[®]

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

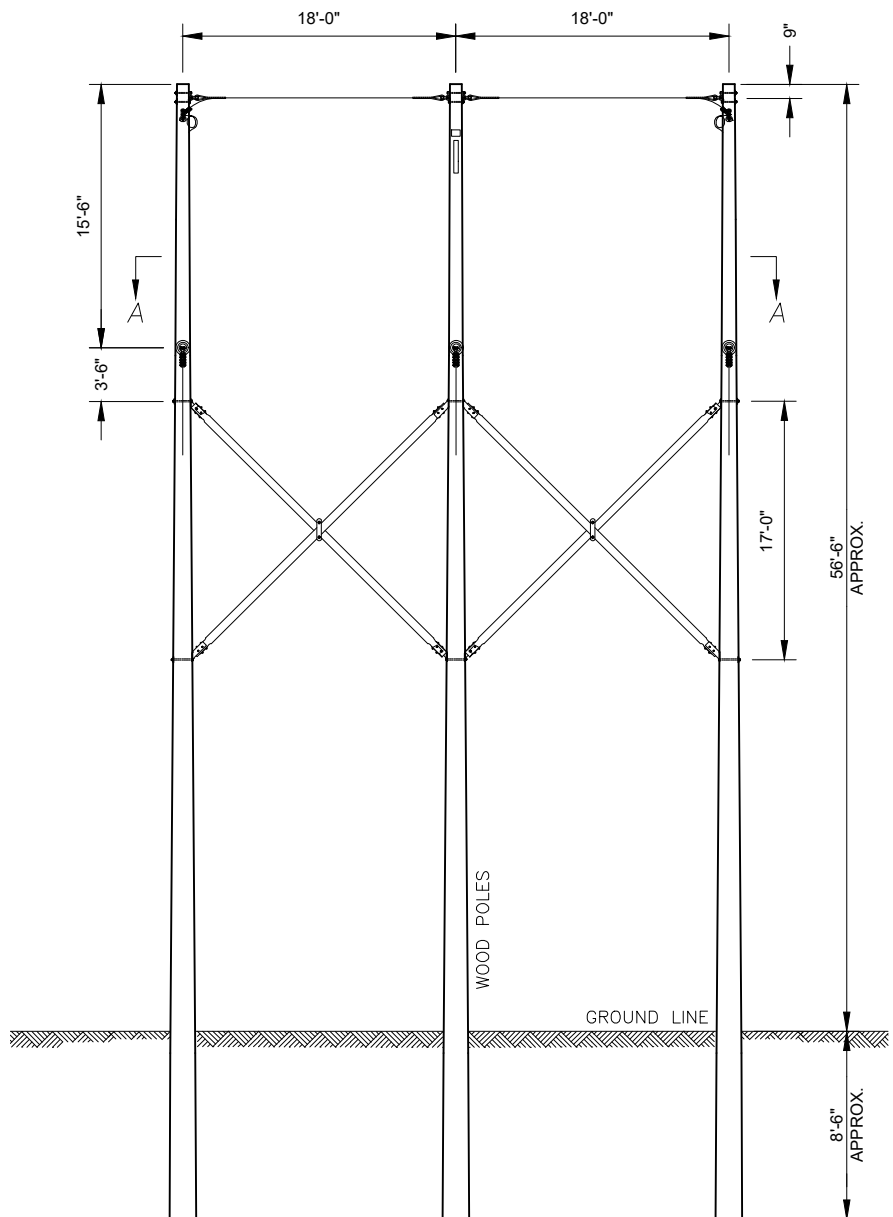
THE FORMER BURGER 138kV
TRANSMISSION LINES EXTENSIONS
TO HOLLOWAY SUBSTATION PROJECT

138kV DOUBLE CIRCUIT
STEEL POLE, DEADEND

EXHIBIT 6



SECTION A - A



NOTE:
DETAILS DEPICTED IN FIGURE CAN BE APPLIED FOR ANY
TYPE OF WOOD POLE CONFIGURATION.

****NOT TO SCALE**

ATSI[®]

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

BURGER DE-ENERGIZED NO. 5
BURGER DE-ENERGIZED NO. 6
138kV TRANSMISSION LINES

138kV SINGLE CIRCUIT
DEADEND HORIZONTAL THREE POLE

EXHIBIT 7

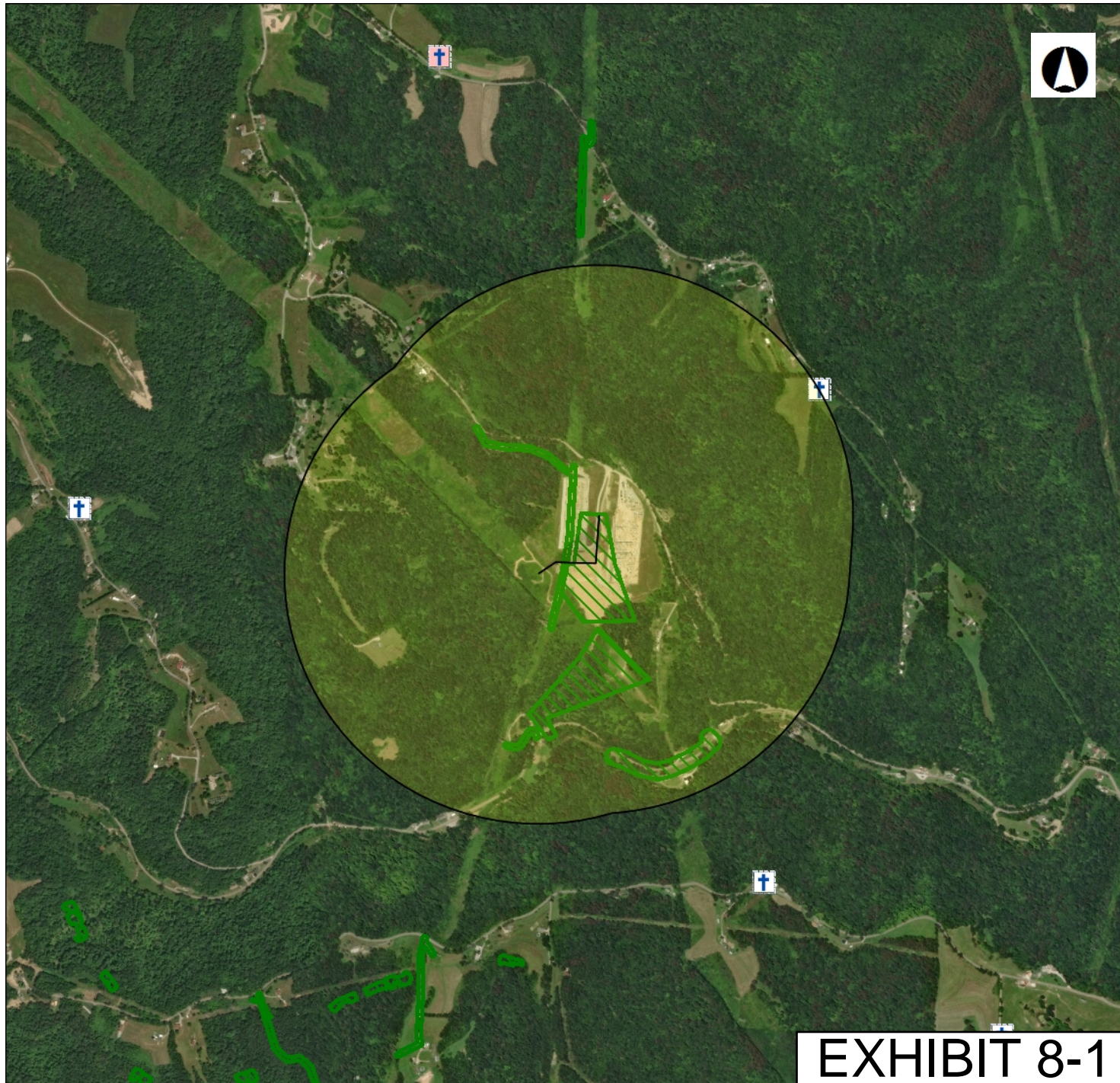


EXHIBIT 8-1



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



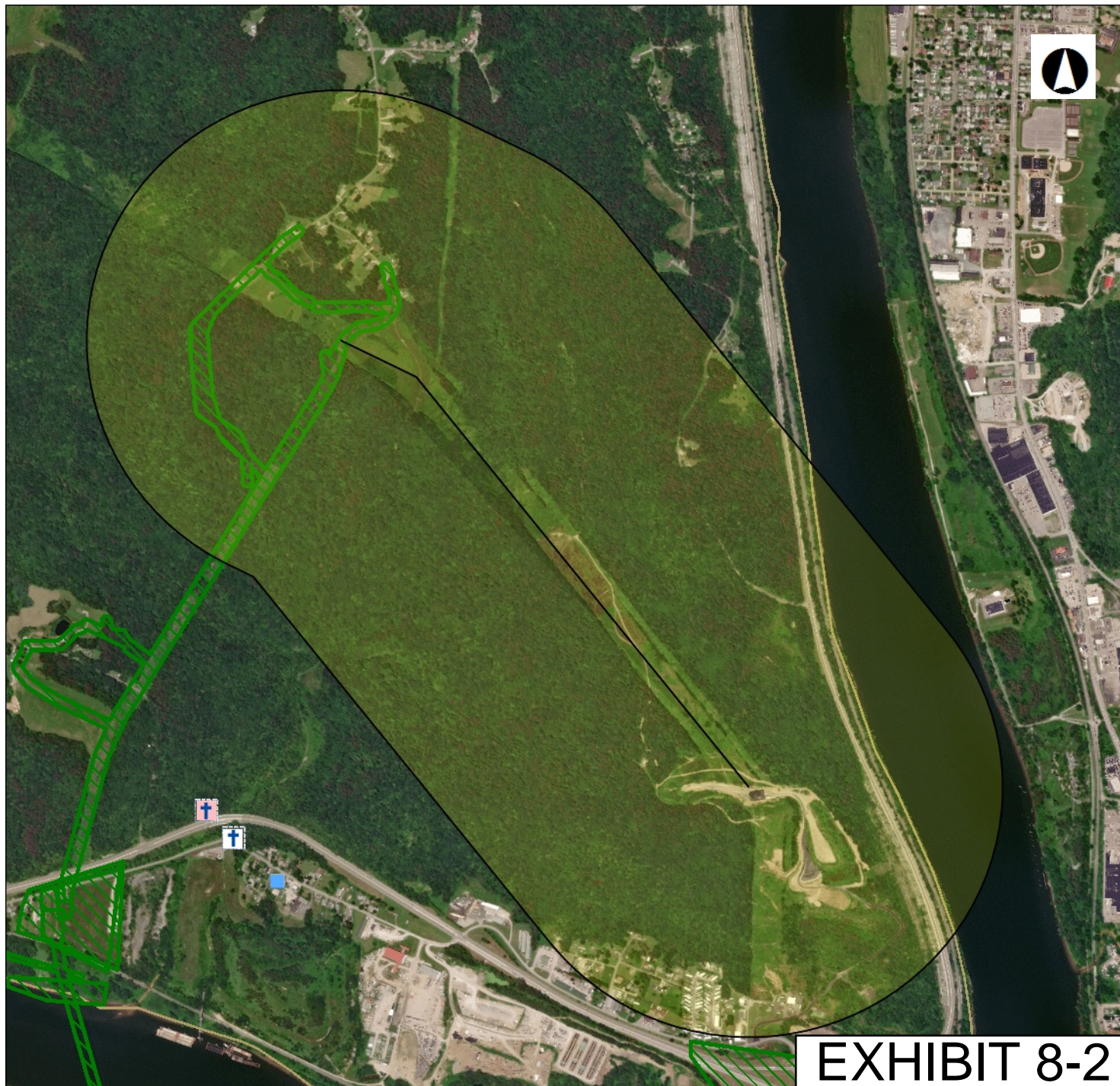


EXHIBIT 8-2



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





Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate
Paul R. Baldridge, Chief
2045 Morse Road – Bldg. E-2
Columbus, OH 43229
Phone: (614) 265-6649
Fax: (614) 267-4764

May 3, 2019

Sarah Bender
TRC
1382 West Ninth Street, Suite 400
Cleveland, Ohio 44113

Re: 19-308; FirstEnergy Holloway-Dilles Bottom Project

Project: The project entails the relocation of one steel transmission pole, the replacement of two wooden poles and the installation of three steel poles, which will require some minor access road improvements.

Location: The proposed project is located in Mead Township, Belmont County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Natural Heritage Database: The Natural Heritage Database has the following records at or within a one-mile radius of the project area:

Channel darter (*Percina copelandi*), T
River darter (*Percina shumardi*), T

The review was performed on the project area you specified in your request as well as an additional one-mile radius. Records searched date from 1980. This information is provided to inform you of features present within your project area and vicinity. Additional comments on some of the features may be found in pertinent sections below.

Please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Although all types of plant communities have been surveyed, we only maintain records on the highest quality areas.

EXHIBIT 9

Statuses are defined as: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; A = species recently added to state inventory, status not yet determined; X = presumed extirpated in Ohio; FE = federal endangered, FT = federal threatened, FSC = federal species of concern, FC = federal candidate species.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that best management practices be utilized to minimize erosion and sedimentation.

The project is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species. The following species of trees have relatively high value as potential Indiana bat roost trees to include: shagbark hickory (*Carya ovata*), shellbark hickory (*Carya laciniosa*), bitternut hickory (*Carya cordiformis*), black ash (*Fraxinus nigra*), green ash (*Fraxinus pennsylvanica*), white ash (*Fraxinus americana*), shingle oak (*Quercus imbricaria*), northern red oak (*Quercus rubra*), slippery elm (*Ulmus rubra*), American elm (*Ulmus americana*), eastern cottonwood (*Populus deltoides*), silver maple (*Acer saccharinum*), sassafras (*Sassafras albidum*), post oak (*Quercus stellata*), and white oak (*Quercus alba*). Indiana bat roost trees consists of trees that include dead and dying trees with exfoliating bark, crevices, or cavities in upland areas or riparian corridors and living trees with exfoliating bark, cavities, or hollow areas formed from broken branches or tops. However, Indiana bats are also dependent on the forest structure surrounding roost trees. If suitable habitat occurs within the project area, the DOW recommends trees be conserved. If suitable habitat occurs within the project area and trees must be cut, the DOW recommends cutting occur between October 1 and March 31. If suitable trees must be cut during the summer months, the DOW recommends a net survey be conducted between June 1 and August 15, prior to any cutting. Net surveys should incorporate either nine net nights per square 0.5 kilometer of project area, or four net nights per kilometer for linear projects. If no tree removal is proposed, this project is not likely to impact this species.

The project is within the range of the butterfly (*Ellipsaria lineolata*), a state endangered mussel, the threehorn wartyback (*Obliquaria reflexa*), a state threatened mussel, and the black sandshell (*Ligumia recta*), a state threatened mussel. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the western banded killifish (*Fundulus diaphanus menona*), a state endangered fish, the channel darter (*Percina copelandi*), a state threatened fish, the river darter (*Percina shumardi*), a state threatened fish, the Tippecanoe darter (*Etheostoma tippecanoe*), a state threatened fish, and the paddlefish (*Polyodon spathula*) a state threatened fish. Due to the location, and that there is no in-water work proposed in a perennial stream, this project is not likely to impact these species.

The project is within the range of the eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*), a state endangered species and a federal species of concern. Due to the location, and that there is no in-water work proposed in a perennial stream of sufficient size to provide suitable habitat, this project is not likely to impact this species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the U.S. Fish & Wildlife Service.

EXHIBIT 9

Water Resources: The Division of Water Resources has the following comment.

The local floodplain administrator should be contacted concerning the possible need for any floodplain permits or approvals for this project. Your local floodplain administrator contact information can be found at the website below.

http://water.ohiodnr.gov/portals/soilwater/pdf/floodplain/Floodplain%20Manager%20Community%20Contact%20List_8_16.pdf

ODNR appreciates the opportunity to provide these comments. Please contact Sarah Tebbe, Environmental Specialist, at (614) 265-6397 or Sarah.Tebbe@dnr.state.oh.us if you have questions about these comments or need additional information.

John Kessler
Environmental Services Administrator

Beutler, William R

From: susan_zimmermann@fws.gov on behalf of Ohio, FW3 <ohio@fws.gov>
Sent: Thursday, April 04, 2019 1:55 PM
To: Falkinburg, Brad; Bender, Sarah
Cc: nathan.reardon@dnr.state.oh.us; kate.parsons@dnr.state.oh.us
Subject: First Energy - Holloway-Dilles Bottom Infrastructure Improvement Project, Belmont Co.



UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. Fish and Wildlife Service
Ecological Services Office
4625 Morse Road, Suite 104
Columbus, Ohio 43230
(614) 416-8993 / Fax (614) 416-8994



TAILS# 03E15000-2019-TA-1002

Dear Mr. Falkinburg,

We have received your recent correspondence requesting information about the subject proposal. There are no federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the project area. The following comments and recommendations will assist you in fulfilling the requirements for consultation under section 7 of the Endangered Species Act of 1973, as amended (ESA).

The U.S. Fish and Wildlife Service (Service) recommends that proposed developments avoid and minimize water quality impacts and impacts to high quality fish and wildlife habitat (e.g., forests, streams, wetlands). Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. All disturbed areas should be mulched and revegetated with native plant species. Prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

FEDERALLY LISTED SPECIES COMMENTS: All projects in the State of Ohio lie within the range of the federally endangered **Indiana bat** (*Myotis sodalis*) and the federally threatened **northern long-eared bat** (*Myotis septentrionalis*). In Ohio, presence of the Indiana bat and northern long-eared bat is assumed wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥ 3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern long-eared bats hibernate in caves and abandoned mines.

Should the proposed site contain trees ≥ 3 inches dbh, we recommend that trees be saved wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we recommend that removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is being recommended to avoid adverse effects to Indiana bats and northern long-eared bats. While incidental take of northern long-eared bats from most tree clearing is exempted by a 4(d) rule

(see <http://www.fws.gov/midwest/endangered/mammals/nleb/index.html>), incidental take of Indiana bats is still prohibited without a project-specific exemption. Thus, seasonal clearing is recommended where Indiana bats are assumed present.

If implementation of this seasonal tree cutting recommendation is not possible, summer surveys may be conducted to document the presence or probable absence of Indiana bats within the project area during the summer. If a summer survey documents probable absence of Indiana bats, the 4(d) rule for the northern long-eared bat could be applied. Surveys must be conducted by an approved surveyor and be designed and conducted in coordination with the Endangered Species Coordinator for this office. Surveyors must have a valid federal permit. Please note that in Ohio summer mist net surveys may only be conducted between June 1 and August 15.

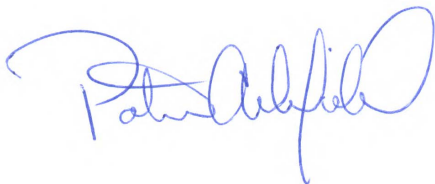
If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend that the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence.

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, proposed, or candidate species. Should the project design change, or during the term of this action, additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, consultation with the Service should be initiated to assess any potential impacts.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the ESA, and are consistent with the intent of the National Environmental Policy Act of 1969 and the Service's Mitigation Policy. This letter provides technical assistance only and does not serve as a completed section 7 consultation document. We recommend that the project be coordinated with the Ohio Department of Natural Resources due to the potential for the project to affect state listed species and/or state lands. Contact John Kessler, Environmental Services Administrator, at (614) 265-6621 or at john.kessler@dnr.state.oh.us.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or ohio@fws.gov.

Sincerely,

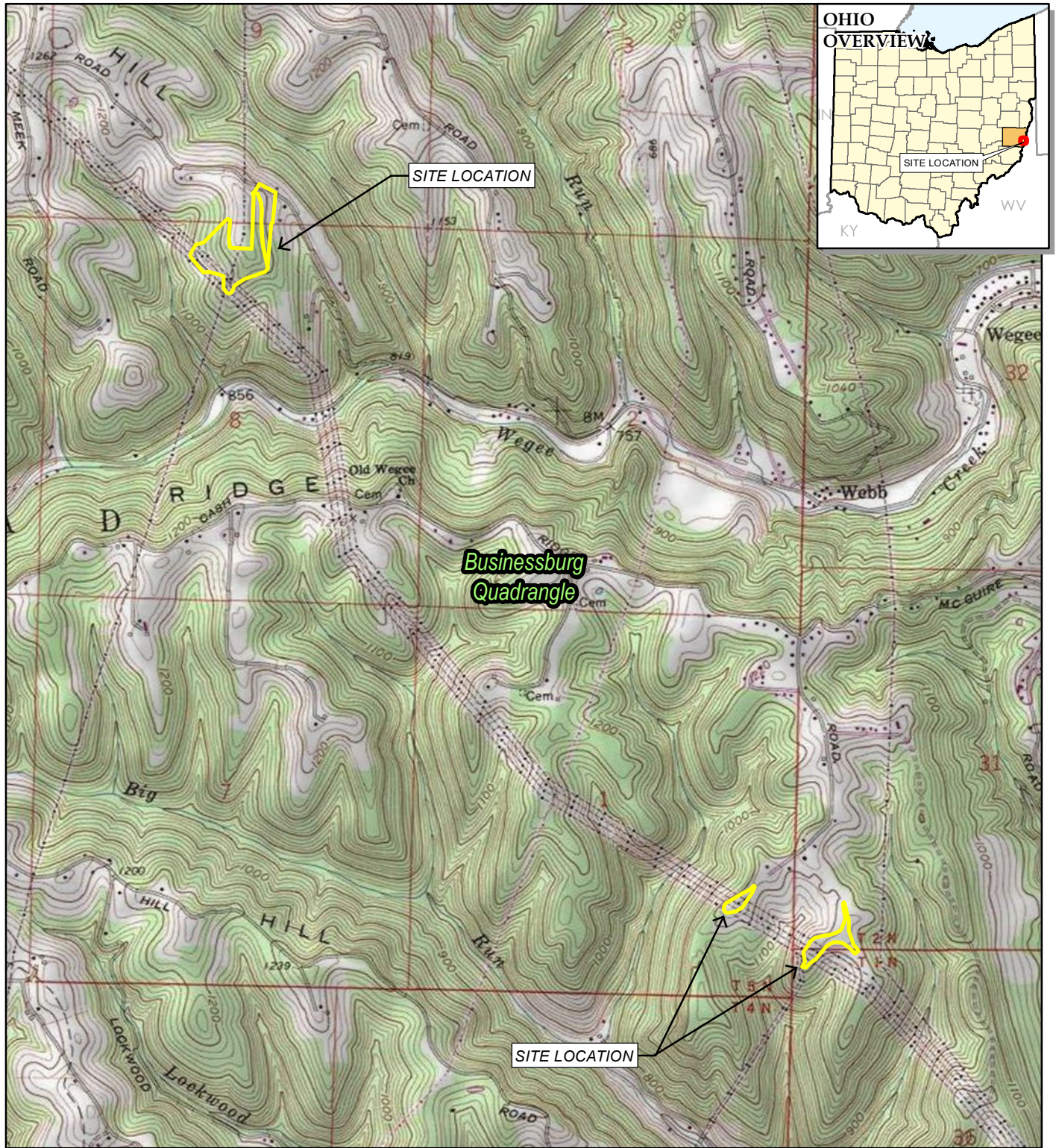


Patrice M. Ashfield
Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW
Kate Parsons, ODNR-DOW

**The Former Burger 138 kV Transmission Lines Extensions to Holloway
Substation Project
Case Number 19-0985-EL-BLN**

**Exhibit #11
TRC Wetland and Stream Figures & Photographs**



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



1" = 2,000'
1:24,000

0 2,000 4,000
FEET



1382 WEST NINTH STREET
SUITE 400
CLEVELAND, OH 44113

TRC - GIS

PROJECT:

**FIRST ENERGY
HOLLOWAY-DILLES BOTTOM SUBSTATIONS
BELMONT COUNTY, OHIO**

TITLE:

SITE LOCATION MAP

DRAWN BY:

D. KENWORTHY

CHECKED BY:

S. BENDER

APPROVED BY:

B. FALKINBURG

DATE:

APRIL 2019

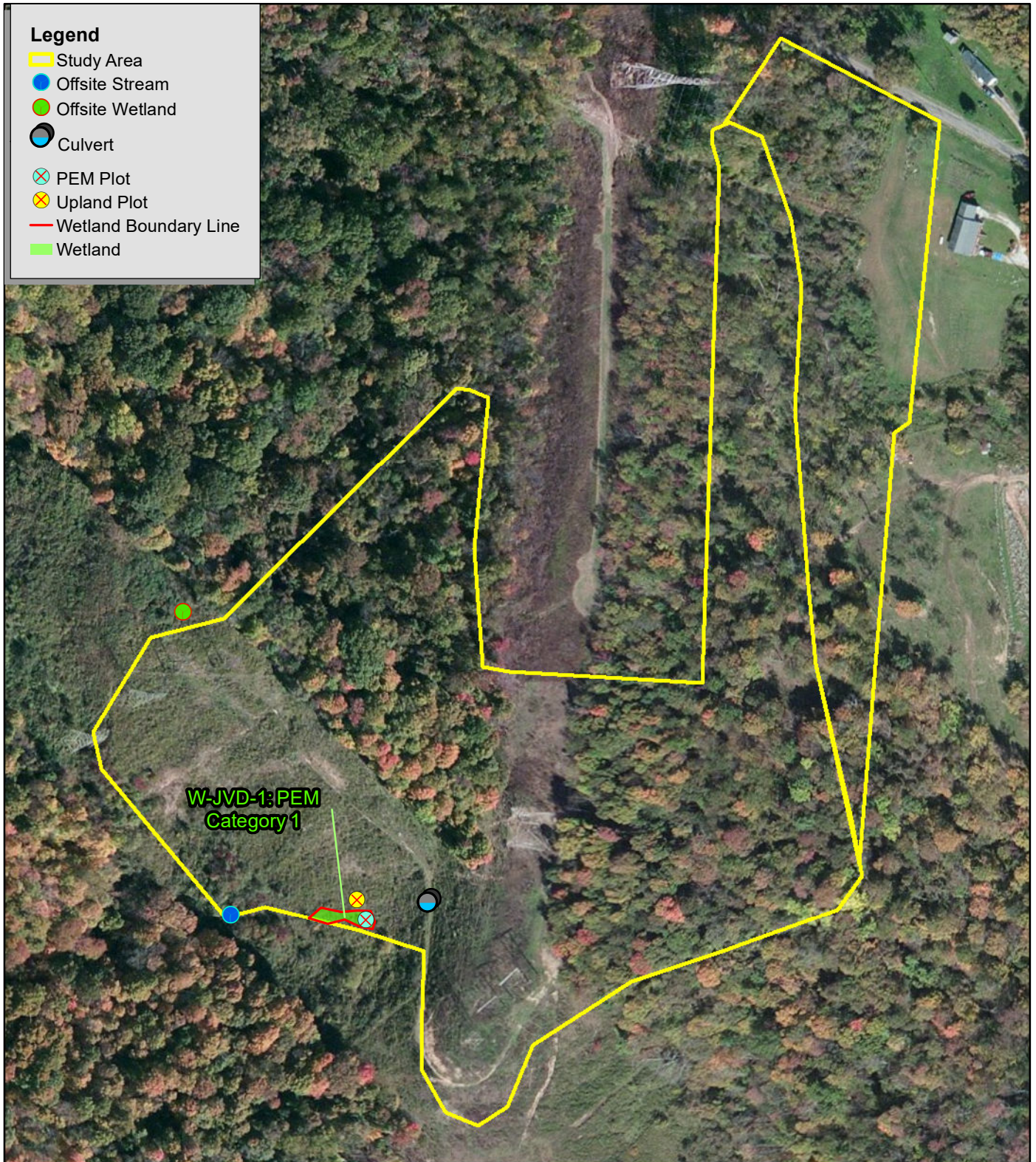
PROJ. NO.:

286577.0016

FILE:

HDB_Fig1_SLM_8x11.mxd

FIGURE 1



1" = 200'
1:2,400

0 100 200
FEET

TRC
1382 WEST NINTH STREET
SUITE 400
CLEVELAND, OH 44113

TRC - GIS

PROJECT:

**FIRST ENERGY
HOLLOWAY-DILLES BOTTOM SUBSTATIONS
BELMONT COUNTY, OHIO**

TITLE:

SITE FEATURES MAP

DRAWN BY:

D. KENWORTHY

CHECKED BY:

S. BENDER

APPROVED BY:

B. FALKINBURG

DATE:

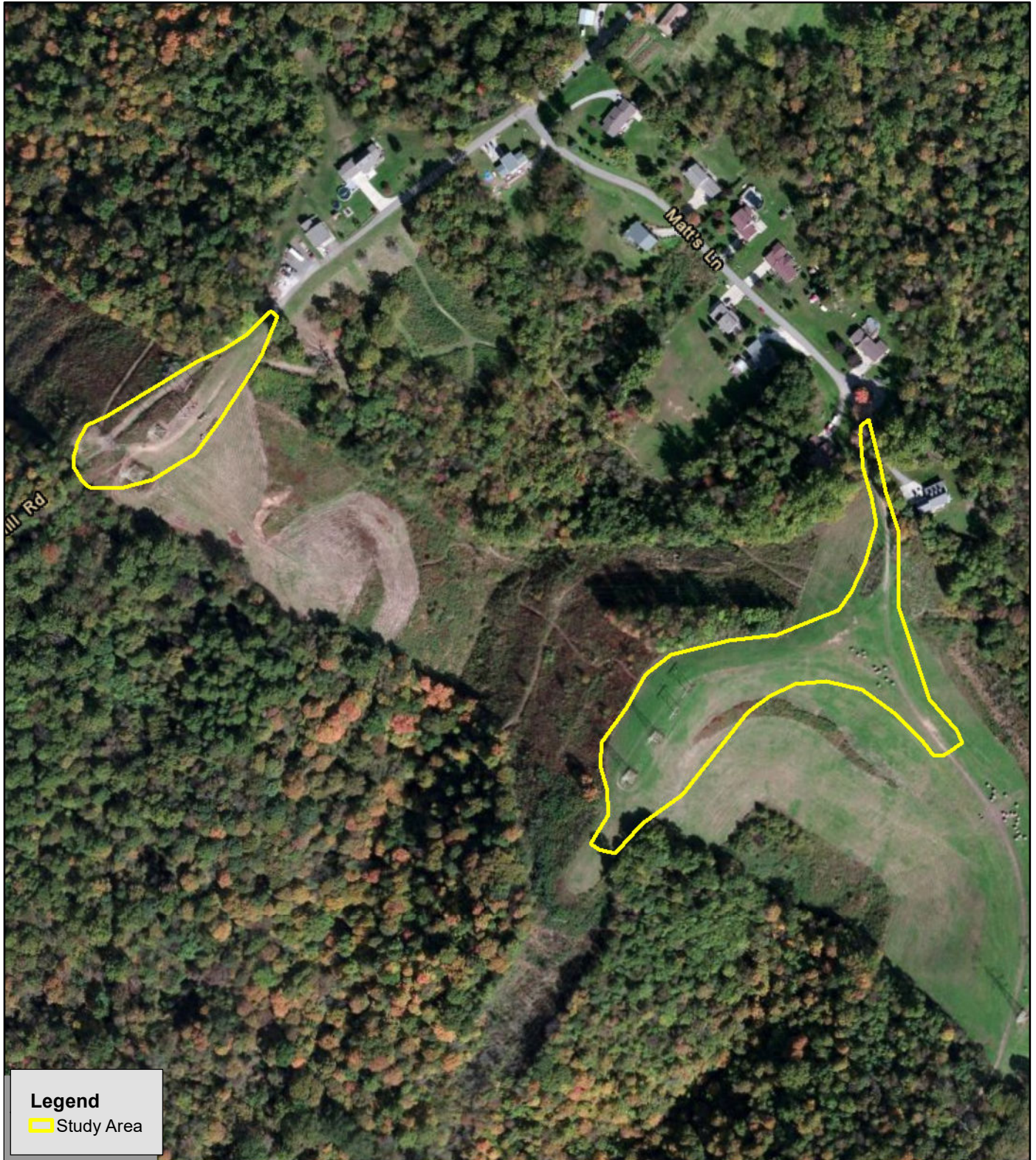
APRIL 2019

PROJ. NO.:

286577.0016

FILEHDB_North_Fig2_Aerial_Resources_8x11.mxd

FIGURE 2



Legend

Study Area



1" = 300'
1:3,600

0 150 300
FEET

Note: No resources were identified during field investigations.

TRC
1382 WEST NINTH STREET
SUITE 400
CLEVELAND, OH 44113

TRC - GIS

PROJECT:

**FIRST ENERGY
HOLLOWAY-DILLES BOTTOM SUBSTATIONS
BELMONT COUNTY, OHIO**

TITLE:

SITE FEATURES MAP

DRAWN BY: D. KENWORTHY

CHECKED BY: S. BENDER

APPROVED BY: B. FALKINBURG

DATE: APRIL 2019

PROJ. NO.: 286577.0016

FILEHDB_South_Fig2_Aerial_Resources_8x11.mxd

FIGURE 2



PHOTOGRAPHIC RECORD

Holloway-Dilles Bottom Project
Wetland Delineation

Client Name: FirstEnergy Corporation	Site Location: Mead Township, Belmont County, Ohio	Project No. 286577.00016
--	--	------------------------------------

Photo No. 1.

Date:
4/5/2019

Description:
Photo of Wetland W-JDV-01 facing north.



Photo No. 2.

Date:
4/5/2019

Description:
Photo of Wetland W-JDV-01 facing east.





PHOTOGRAPHIC RECORD

Holloway-Dilles Bottom Project
Wetland Delineation

Client Name:

FirstEnergy Corporation

Site Location:

Mead Township, Belmont County, Ohio

Project No.

286577.00016

Photo No. 3.**Date:**

4/5/2019

Description:

Photo of Wetland W-JDV-01 facing south.

**Photo No. 4.****Date:**

4/5/2019

Description:

Photo of Wetland W-JDV-01 facing west.



Client Name: FirstEnergy Corporation	Site Location: Mead Township, Belmont County, Ohio	Project No. 286577.00016
--	--	------------------------------------

Photo No. 5.

Date:
4/5/2019

Description:

Representative photo of
study area North.
Facing west.


Photo No. 6.

Date:
4/5/2019

Description:

Representative photo of
study area North.
Facing north.





PHOTOGRAPHIC RECORD

Holloway-Dilles Bottom Project
Wetland Delineation

Client Name: FirstEnergy Corporation	Site Location: Mead Township, Belmont County, Ohio	Project No. 286577.00016
--	--	------------------------------------

Photo No. 7.

Date:
4/5/2019

Description:

Representative photo of study area South. Facing southeast.

**Photo No. 8.**

Date:
4/5/2019

Description:

Representative photo of study area South. Facing south.



