

# Construction Notice for the Marion Road-Mound Street 138 kV Transmission Line Underground Project – East Fulton Street Adjustment



An **AEP** Company

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BOUNDLESS ENERGY<sup>SM</sup>

PUCO Case No. 22-0567-EL-BNR

Submitted to:  
The Ohio Power Siting Board  
Pursuant to Ohio Administrative Code  
Section 4906-6-05

Submitted by:  
Ohio Power Company

June 9, 2022

## CONSTRUCTION NOTICE

### **Marion Road-Mound Street 138 kV Transmission Line Underground Project – East Fulton Street Adjustment**

**4906-6-05**

Ohio Power Company (the “Company”) is providing the following information to the Ohio Power Siting Board (OPSB) in accordance with the accelerated application requirements of Ohio Administrative Code Section 4906-6-05.

#### **4906-6-05(B) General Information**

##### **B(1) Project Description**

**The name of the project and applicant's reference number, names and reference number(s) of resulting circuits, a brief description of the project, and why the project meets the requirements for a Construction Notice (CN).**

Ohio Power Company (the “Company”) proposes the Marion Road-Mound Street 138 kV Transmission Line Underground Project – East Fulton Street Adjustment (the “Project”) in Franklin County, Ohio. The Project consists of adjusting the Marion Road-Mound Street 138 kV underground transmission line approximately 60ft south, along East Fulton Street, between S. 18<sup>th</sup> Street and S. Monroe Avenue. The Marion Road-Mound Street 138 kV Transmission Line Underground Project was previously approved by the OPSB under Case Number 20-1306-EL-BTX. The length of the proposed transmission line adjustment is less than 0.15 mile.

After an extensive review of the geotechnical reports, the Company determined that the soils under East Fulton Street are not well-suited for Horizontal Directional Drilling (HDD). The Company has determined the most suitable approach is to utilize an open-trench construction method. However, there are underground distribution electric lines within Fulton Street. When transmission and distribution lines are installed parallel to each other, they must maintain a minimum offset distance to avoid a mutual heating effect from the close proximity of the two cable systems that will cause the lines to fail. This mutual heating creates cable overheating and reduced current carrying capacity of the cable system. There is not enough room within Fulton Street to horizontally offset the transmission and distribution line.

Therefore, the Company determined that adjusting the transmission line approximately 60ft south, and utilizing the Ohio Department of Transportation’s (ODOT) right-of-way, would be the most feasible option for the Project.

The location of the proposed transmission lines adjustment (“Project Area”) is shown on **Exhibit 1** and **Exhibit 2** in **Appendix A**.

The Project meets the requirements for a Construction Notice (CN) because it is within the types of projects defined by item 1(a) of Ohio Administrative Code Section 4906-1-01 Appendix A of the Application Requirement Matrix for Electric Power Transmission Lines:

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 operation at a higher transmission voltage, as follows:
  - a) Lines(s) not greater than 0.2 miles in length.

The Project has been assigned PUCO Case No. 22-0567-EL-BNR.

## **B(2) Statement of Need**

**If the proposed project is an electric power transmission line or natural gas transmission line, a statement explaining the need for the proposed facility.**

Text provided in the Company's original application (Case No. 20-1306-EL-BTX) in Section 4906-5-03 remains unchanged.

## **B(3) Project Location**

**The applicant shall provide the location of the project in relation to existing or proposed lines and substations shown on an area system map of sufficient scale and size to show existing and proposed transmission facilities in the project area.**

The Project is in Franklin County, Ohio. **Exhibit 1** in **Appendix A** shows the proposed Project a USGS topographic quadrangle map. **Exhibit 2** in **Appendix A** identifies the Project components on a 2019 aerial imagery.

## **B(4) Alternatives Considered**

**The applicant shall describe the alternatives considered and reasons why the proposed location or route is best suited for the proposed facility. The discussion shall include, but not be limited to, impacts associated with socioeconomic, ecological, construction, or engineering aspects of the project.**

An alternative northern route adjustment along East Fulton Street was considered which involves shifting the underground line within road right-of-way but under the sidewalk along the northern curb edge of Fulton Street. The northern route adjustment would involve construction impacts to Nationwide Children's Hospital, Exodus Fellowship Church, and several residences along Fulton Street. The digging equipment needed to perform the open-trench construction would be placed within inches of these buildings and would require temporary construction easements to be obtained from the impacted property owners. This alternative would have a greater impact to the neighboring properties during construction, as opposed to utilizing the Ohio Department of Transportation's (ODOT) unused road right-of-way.

The proposed design minimizes disturbance and impacts to existing infrastructure and underground utilities along East Fulton Street by utilizing ODOT's undeveloped land adjacent to I-70. Furthermore, the Project is also located on undeveloped land and will not impact known sensitive natural resources. Locating the 138 kV underground transmission line within ODOT's Limited Access property reduces

impacts to adjacent property owners, land use, and environmental features. Therefore, the Project would result in minimal disturbances relative to other design alternatives and represents the most suitable location and most appropriate solution.

#### **B(5) Public Information Program**

**The applicant shall describe its public information program to inform affected property owners and tenants of the nature of the project and the proposed timeframe for project construction and restoration activities.**

The Company maintains a website (<http://aeptransmission.com/ohio/>) on which an electronic copy of this CN is available. An electronic copy of the CN will be served to the public library in each political subdivision affected by this Project. The Company also retains land agents who will discuss project timelines, construction and restoration activities with affected owners and tenants.

#### **B(6) Construction Schedule**

**The applicant shall provide an anticipated construction schedule and proposed in-service date of the project.**

Construction of the OPSB approved alignment for the Marion Road-Mound Street 138 kV Transmission Line began in July 2021; however, the approximately 0.15-mile adjustment is anticipated to begin construction in July 2022, with an anticipated in-service date of January 2023.

#### **B(7) Area Map**

**The applicant shall provide a map of at least 1:24,000 scale clearly depicting the facility with clearly marked streets, roads, and highways, and an aerial image.**

**Exhibit 1** in **Appendix A** identifies the location of the Project area on a USGS quadrangle map. **Exhibit 2** in **Appendix A** consists of an aerial imagery map from March 2021 of the Project Area.

To visit the Project starting point from Ohio Power Siting Board offices downtown Columbus, take N 4<sup>th</sup> St. to E Gay St. Take E Gay Street to N. 5<sup>th</sup> St. Take OH-62 E towards Parsons Ave. Take Parsons Ave S towards Bryden Rd, S. 18<sup>th</sup> St. Take S. 18<sup>th</sup> St S to E. Fulton St. Destination will be on the right.

#### **B(8) Property Agreements**

**The applicant shall provide a list of properties for which the applicant has obtained easements, options, and/or land use agreements necessary to construct and operate the facility and a list of the additional properties for which such agreements have not been obtained.**

The Ohio Department of Transportation (ODOT) has agreed to issue the Company a Federal Highway Transportation Administration (FHWA) permit to allow the construction of the underground 138 kV transmission line within their Limited Access right-of-way.

## **B(9) Technical Features**

**The applicant shall describe the following information regarding the technical features of the project:**

**B(9)(a) Operating characteristics, estimated number and types of structures required, and right-of-way and/or land requirements.**

The Project is estimated to include the following:

Voltage: 138 kV

Conductors: (3) 5,000 kcmil copper solid dielectric transmission cables

## **B(9)(b) Electric and Magnetic Fields**

**For electric power transmission lines that are within one hundred feet of an occupied residence or institution, the production of electric and magnetic fields during the operation of the proposed electric power transmission line.**

Text provided in the Company's original application (Case No. 20-1306-EL-BTX) in Section 4906-5-07 remains unchanged.

## **B(9)(c) Project Costs**

**The estimated capital cost of the project.**

The additional capital cost estimate specific to the requested route adjustment for the Project, which is comprised of applicable tangible and capital costs, is approximately \$400,000 using a Class 5 estimate. Pursuant to the PJM OATT, the costs for this Project will be recovered in the Ohio Power Company's FERC formula rate (Attachment H-14 to the PJM OATT) and allocated to the AEP Zone.

## **B(10) Social and Economic Impacts**

**The applicant shall describe the social and ecological impacts of the project.**

### **B(10)(a) Land Use Characteristics**

**Provide a brief, general description of land use within the vicinity of the proposed project, including a list of municipalities, townships, and counties affected.**

Text provided in the Company's original application (Case No. 20-1306-EL-BTX) in Section 4906-5-07 remains unchanged.

#### **B(10)(b) Agricultural Land Information**

**Provide the acreage and a general description of all agricultural land, and separately all agricultural district land, existing at least sixty days prior to submission of the application within the potential disturbance area of the project.**

The Project is not located within land identified as Agricultural District Lands, as this is located within ODOT's road right-of-way.

#### **B(10)(c) Archaeological and Cultural Resources**

**Provide a description of the applicant's investigation concerning the presence or absence of significant archeological or cultural resources that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.**

Text provided in the Company's original application (Case No. 20-1306-EL-BTX) in Section 4906-5-07 remains unchanged.

#### **B(10)(d) Local, State, and Federal Agency Correspondence**

**Provide a list of the local, state, and federal governmental agencies known to have requirements that must be met in connection with the construction of the project, and a list of documents that have been or are being filed with those agencies in connection with siting and constructing the project.**

Text provided in the Company's original application (Case No. 20-1306-EL-BTX) in Section 4906-5-08 remains unchanged.

#### **B(10)(e) Threatened, Endangered, and Rare Species**

**Provide a description of the applicant's investigation concerning the presence or absence of federal and state designated species (including endangered species, threatened species, rare species, species proposed for listing, species under review for listing, and species of special interest) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.**

Text provided in the Company's original application (Case No. 20-1306-EL-BTX) in Section 4906-5-08 remains unchanged.

#### **B(10)(f) Areas of Ecological Concern**

**Provide a description of the applicant's investigation concerning the presence or absence of areas of ecological concern (including national and state forests and parks, floodplains, wetlands, designated or proposed wilderness areas, national and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, and wildlife sanctuaries) that may be located within the potential disturbance area of the project, a**

**statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.**

Text provided in the Company's original application (Case No. 20-1306-EL-BTX) in Section 4906-5-08 remains unchanged.

**B(10)(g) Unusual Conditions**

**Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.**

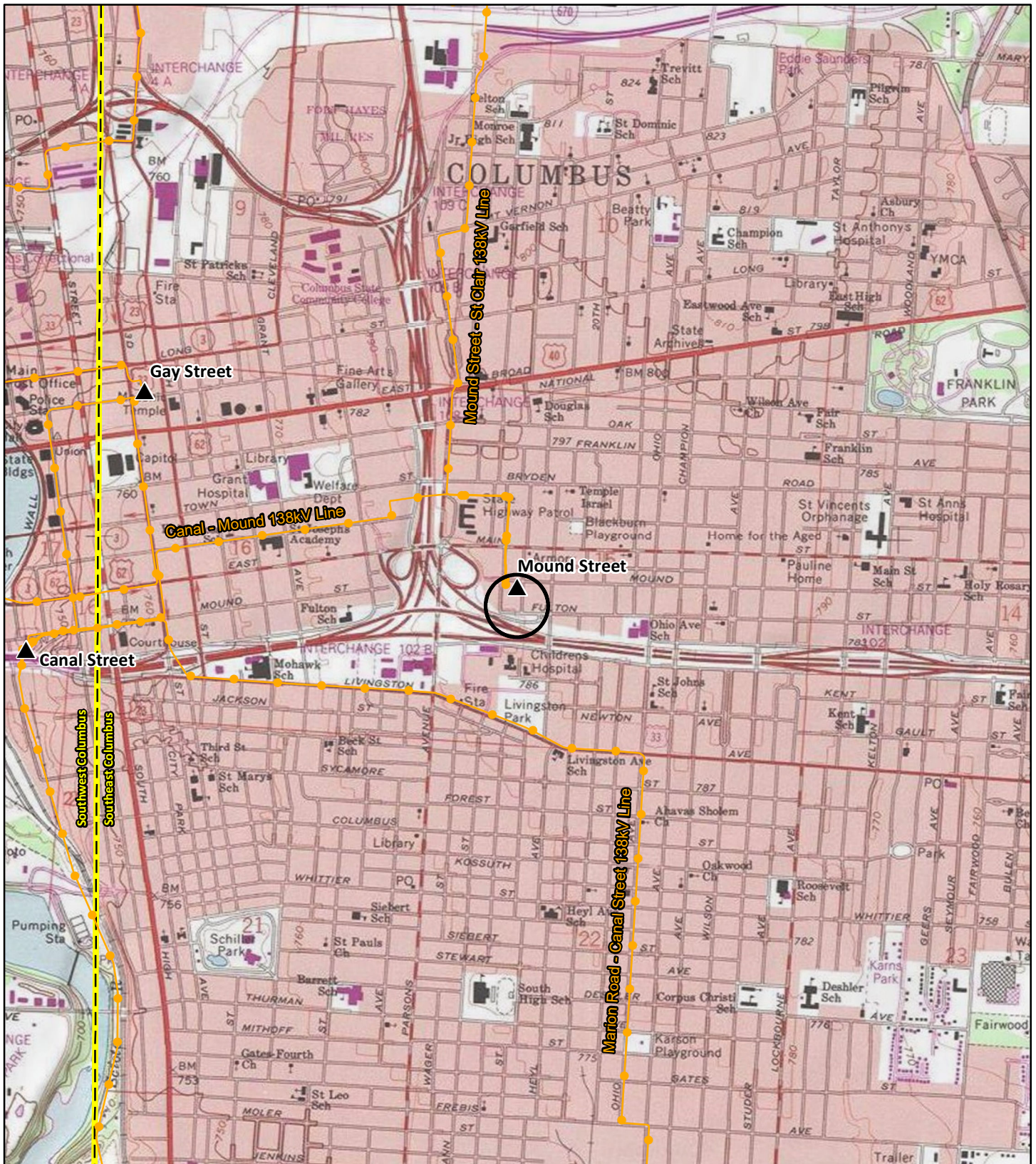
To the best of the Company's knowledge, no unusual conditions exist that would result in significant environmental, social, health, or safety impacts.

**CONSTRUCTION NOTICE FOR THE MARION ROAD-MOUND STREET 138 KV TRANSMISSION  
LINE UNDERGROUND PROJECT – EAST FULTON STREET ADJUSTMENT**

Appendix A

Project Maps





#### LEGEND:

- ▲ Exiting Substation
- Existing 138kV Transmission Lines
- Project Area

Data Sources: AEP, USGS 7.5'  
Topographic Quandrangles  
(Southeast Columbus)

Coordinate System  
and Datum:  
NAD 83 State Plane  
Ohio South, Feet

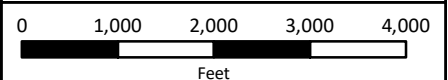
June 09, 2022



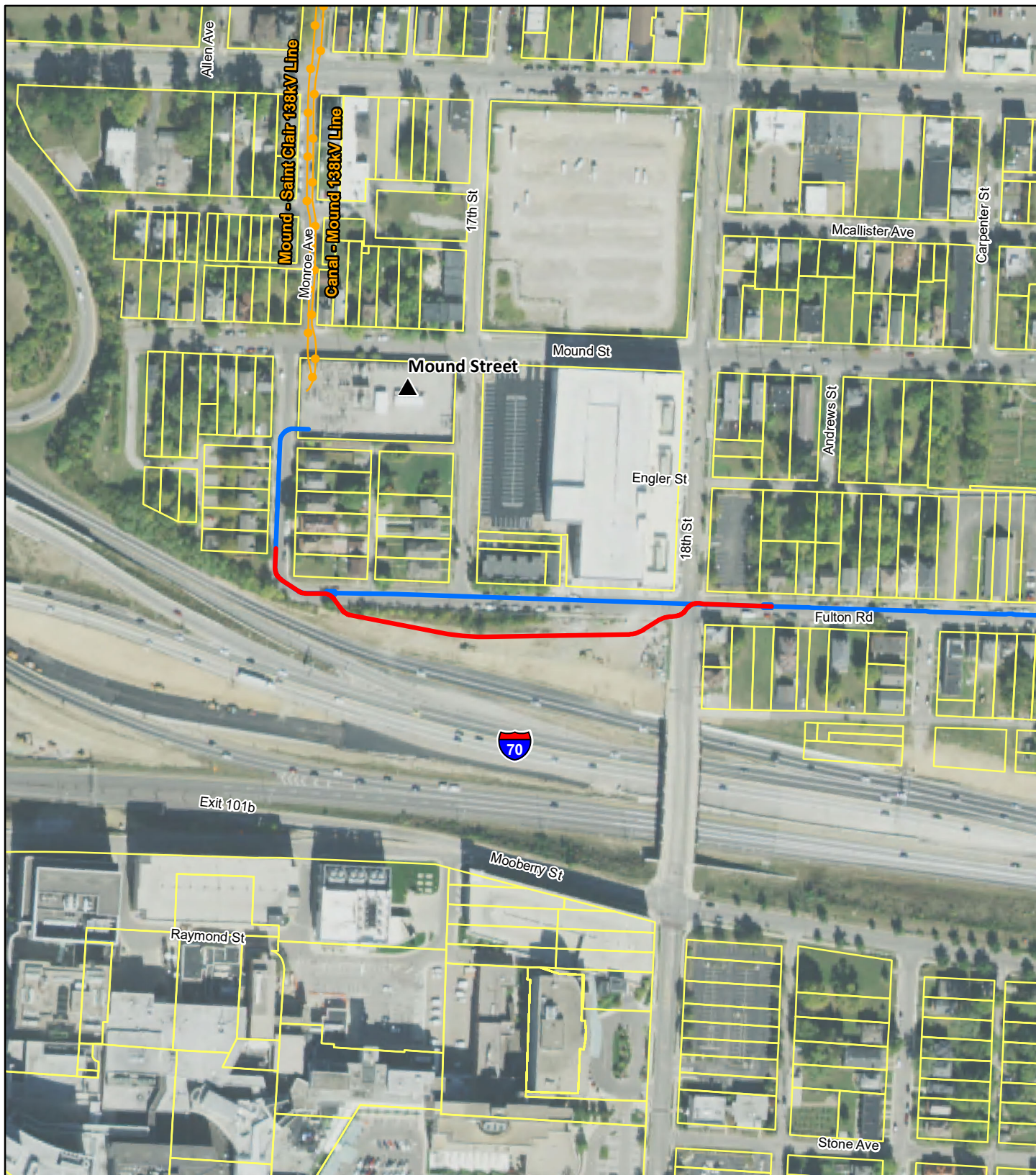
## FIGURE 1 TOPOGRAPHIC OVERVIEW



Marion Road-Mound Street  
138 kV Transmission Line  
Underground Project –  
East Fulton Street Adjustment







**LEGEND:**

- ▲ Existing Substation
- Approved Route
- Adjusted Route
- Existing 138kV Transmission Line
- Parcel Boundary

Data Sources: AEP,  
Corelogic &  
NAIP Imagery, 2019

Coordinate System  
and Datum:  
NAD 83 State Plane  
Ohio South, Feet



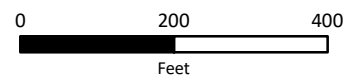
June 09, 2022



**FIGURE 2  
AERIAL MAP**



Marion Road-Mound Street  
138 kV Transmission Line  
Underground Project –  
East Fulton Street Adjustment



**This foregoing document was electronically filed with the Public Utilities  
Commission of Ohio Docketing Information System on**

**6/9/2022 1:52:10 PM**

**in**

**Case No(s). 22-0567-EL-BNR**

Summary: Notice Construction Notice for Marion Road-Mound Street Project  
electronically filed by Hector Garcia-Santana on behalf of Ohio Power Company