Legal Department

American Electric Power
1 Riverside Plaza
Columbus, OH 43215-2373
AEP.com

May 5, 2017

Chairman Asim Z. Haque
Ohio Power Siting Board
180 East Broad Street
Columbus, Ohio 43215

**Re: PUCO Case No. 17-0813-EL-BLN**
**In the Matter of the Letter of Notification for the**
**Ware Road-Seaman 138kV Transmission-Line Project**

**Hector Garcia**
Senior Counsel –
Regulatory Services
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Dear Chairman Haque,

Attached please find a copy of the Letter of Notification (LON) for the above-captioned project ("Project") by AEP Ohio Transmission Company, Inc. This filing and notice is in accordance with O.A.C. 4906-6-05

A copy of this filing will also be submitted to the executive director or the executive director's designee. A copy will be provided to the Board Staff, including an electronic copy.

If you have any questions, please do not hesitate to contact me.

Respectfully Submitted,

/s/ Hector Garcia

Hector Garcia
Counsel for AEP Ohio Transmission Company, Inc.

cc. Werner Margard, Counsel OPSB Staff
Jon Pawley, OPSB Staff

# Letter of Notification for Ware Road-Seaman 138 kV Transmission Line Project




PUCO Case No. 17-0813-EL-BLN

Submitted to:
The Ohio Power Siting Board
Pursuant to OAC 4906-6-05

Submitted by:
AEP Ohio Transmission Company, Inc.

May 5, 2017

May 5, 2017

# Letter of Notification

**AEP Ohio Transmission Company, Inc. (AEP Ohio Transco)**
**Ware Road-Seaman**
**138 kV Transmission Line Project**

## 4906-6-05

AEP Ohio Transmission Company, Inc. ("AEP Ohio Transco") provides the following information in accordance with the requirements of Ohio Administrative Code Section 4906-6-05.

## 4906-6-5(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 Letter of Notification.**

AEP Ohio Transco proposes to construct the Ware Road-Seaman 138 kV Transmission Line Project ("Project") in Adams and Pike Counties, Ohio. The Project will begin at the Ware Road Station, which is owned by AEP Ohio Transco and is located between Ware Road and State Route 772 in Pebble Township, Pike County, and end at Seaman Station, which is also owned by AEP Ohio Transco and located near the junction of Silcott Road and State Route 247 in Scott Township, Adams County. The length of the proposed Project is approximately 28.2 miles. One hundred and sixty-two (162) existing wood pole structures will be replaced with new steel structures. This project is a subset of a larger 32.8-mile rebuild project (Waverly-Adams-Seaman). The Project involves pole structure numbers 50C to 210. All transmission line rebuild work for this Project will occur within AEP Ohio Transco's existing transmission line right-of-way ("ROW"). Figure 1.1 (Appendix A) shows the location of the Project. Figures 1.2 and 1.3 in Appendix A show the existing AEP Ohio Transco ROW corridor and substations, structure locations, and planned access road locations. Technical transmission line and structure information are provided in Section B(9).

The Project meets the requirements for a Letter of Notification ("LON") because it is within the types of projects defined by item 2(b) of Ohio Administrative Code Section 4906-1-01 Appendix A of the Application Requirement Matrix For Electric Power Transmission Lines:

> *(2) Adding new circuits on existing structures designed for multiple circuit use, replacing conductors on existing structures with larger or bundled conductors, adding structures to an existing transmission line, or replacing structures with a different type of structure for a distance of:*
>
> *(b) More than two miles.*

The Project has been assigned PUCO Case No. 17-0813-EL-BLN.

**B(2) Statement of Need**

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

The proposed Project is part of a series of improvements planned for AEP Ohio Transco's 32.8-mile Waverly-Adams-Seaman 138 kV transmission line project to improve the reliability of electric service in Pike and Adams Counties, Ohio. The proposed facility replacement/upgrade is required to alleviate voltage concerns and replace aging (1952-vintage) wood pole structures. Many of the causes for customer outages were attributed to line defects such as crossarm failures and insect damage to knee braces and poles. The Waverly-Adams-Seaman transmission circuit has experienced four sustained outages over the past three years. Two of the outages exceeded 24 hours – one of which was directly attributed to crossarm structure failures. A complete line rebuild is necessary to address these concerns. The Project will improve the reliability of the transmission network in south-central Ohio and provide adequate voltage on the local 138 kV system under N-1 contingency conditions per applicable system planning criteria.

**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.**

Figures 1.1, 1.2, and 1.4 in Appendix A show the location of the proposed Project in relation to existing AEP Ohio Transco facilities, including existing substations and other AEP Ohio Transco transmission lines.

**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.**

All of the proposed transmission line rebuild work will occur within existing AEP Ohio Transco ROW (see Figure 1.2 in Appendix A) on the existing transmission line centerline. As the Project is a complete rebuild of an existing asset, the most economically viable solution is to utilize existing ROW. No other primary alternatives were considered. The proposed Project will not incur any significant socioeconomic, ecological, or construction impacts as the proposed Project will be within AEP Ohio Transco's current easement.

**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.**

AEP Ohio Transco informs affected property owners and tenants about its projects through several different mediums. Within seven days of filing this LON, AEP Ohio Transco will issue a public notice in a newspaper of general circulation in the Project area. The notice will comply with all requirements under O.A.C. Section 4906-6-08(A)(1-6). Further, AEP Ohio Transco mailed a letter, via first class mail, to affected landowners, tenants, contiguous owners, and any other landowner AEP Ohio Transco approached for an easement necessary for the construction, operation, or maintenance of the facility. The letter complies with all the requirements of O.A.C. Section 4906-6-08(B). AEP Ohio Transco also maintains a website (http://aeptransmission.com/ohio/) which provides the public access to an electronic copy of this LON and the public notice for this LON. A paper copy of the LON will be served to the public library in each political subdivision affected by this proposed Project. Lastly, AEP Ohio Transco retains ROW land agents who discuss project timelines, construction and restoration activities with affected owners and tenants. As this Project remains entirely on existing AEP Ohio Transco ROW, mail notifications were not sent to land owners, as there was no landowner impact.

**B(6) Construction Schedule**

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

AEP Ohio Transco anticipates that construction of the Project will begin in October 2017, and the in-service date (completion date) of the Project will be approximately December 2019.

**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.**

Figure 1.1 in Appendix A identifies the location of the proposed Project on the Byington, Jaybird, Latham, Peebles, Piketon, and Seaman 7.5' USGS quadrangle maps. Figure 1.2 (Appendix A) shows the location of the Project on an aerial photograph base map. Figure 1.4 (Appendix A) shows the general location of the Project relative to local communities and the primary road network. To visit the Project from Columbus, drive south on United States (US) Route 23 for approximately 55 miles to Waverly, Ohio. In Waverly, turn right (west) on State Route (SR) 220. Drive west on SR 220 for approximately 8 miles and turn right (north) on SR 772. Drive north on SR 772 for approximately 1.8 miles and turn right (east) on Ware Road. Drive east on Ware Road for approximately 0.4 mile to the Ware Road Station. The 138 kV transmission line rebuild project extends southwest approximately 28.2 miles to an existing AEP Ohio Transco substation (Seaman Station) located near the junction of Silcott Road and State Route 247.

**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.**

All of the proposed transmission line rebuild work for the Project will occur within existing AEP Ohio Transco ROW (see Figure 1.2 in Appendix A). AEP Ohio Transco has reached agreements with adjacent property owners to access AEP Ohio Transco ROW during construction (AEP Ohio Transco's planned access road locations are shown on Figures 1.1, 1.2, and 1.3 in Appendix A). No other property easements, options, or land use agreements are necessary to construct the Project or operate the transmission line.

**B(9) The applicant shall describe the following information regarding the technical features of the Project:**

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

The Project will include the replacement of 162 existing H-frame wood pole structures with new steel pole structures (single circuit H-frame pole structures, guyed three-pole angle structures, guyed three-pole dead end structures, and self-supporting custom pole structures). The Project also will include the installation of new 1033.5 KCM 54/7 "Curlew" conductors, along with a 7#8 alumoweld shield wire and 0.646 diameter OPGW. The existing conductor type is 336.4 KCM ACSR 30/7 and the existing shield wire is 3#5 EHS copperweld. The design and operating voltage will be 138 kV. Structure diagram is presented in Appendix D. All of the proposed transmission line rebuild work will occur within existing AEP Ohio Transco ROW. No other property easements, options, or land use agreements are necessary to construct the Project or operate the transmission line.

**(b) 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. The discussion shall include:**

**(i) Calculated Electric and Magnetic Field Strength Levels**

Three loading conditions were examined: (1) normal maximum loading, (2) emergency line loading, and (3) winter normal conductor rating. Normal maximum loading represents the peak flow expected with all system facilities in service; daily/hourly flows fluctuate below this level. Emergency loading is the maximum current flow during unusual (contingency) conditions, which exist only for short periods of time. Winter normal (WN) conductor rating represents the maximum current flow that a line, including its terminal equipment, can carry during winter conditions. It is not anticipated that this line would operate at its WN rating in the foreseeable future. Loading levels and the calculated electric and magnetic fields ("EMF") are summarized below.

| Ware Road-Seaman 138kV Circuits | | | |
|---|---|---|---|
| **Condition** | **Load (A)** | **Electric Field (kV/m)*** | **Magnetic Field (mG)*** |
| **(1) Normal Max. Loading** | 237 | 0.8/1.4/0.8 | 16.8/46.7/17 |
| **(2) Emergency Line Loading** | 398 | 0.8/1.4/0.8 | 28.3/78.5/29 |
| **(3) WN Conductor Rating** | 791 | 0.9/2.3/0.9 | 66.5/2460.0/67.6 |

*EMF levels (left ROW edge/maximum/right ROW edge) computed one meter above ground at the point of minimum ground clearance, assuming balanced phase currents and nominal voltages. Electric fields reflect normal and emergency operations; lower electric fields are expected during emergency conditions when one mutually coupled line is out of service.

**(ii) A discussion of the applicant's consideration of design alternatives with respect to electric and magnetic fields and their strength levels, including alternate conductor configuration and phasing, tower height, corridor location, and right-of-way width.**

Because transmission line rebuild work associated with the Project will occur within the existing AEP Ohio Transco ROW, no alternatives were considered.

**(c) The estimated capital cost of the project.**

The capital costs estimate for the proposed Project, comprised of applicable tangible and capital costs, is approximately $30,000,000.

**B(10) The applicant shall describe the social and ecological impacts of the project.**

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

The Project is located within Pebble and Sunfish Townships in Pike County, and Franklin, Meigs, and Scott Townships, Adams County, Ohio. There is no zoning in these rural townships (phone correspondence with Pike County Planning Commission on January 24, 2017 and Franklin Township on March 14, 2017). The Village of Seaman in Scott Township is the only zoned part of the township and it has commercial and residential zoning. The Project vicinity is rural in nature and is comprised primarily of pasture, agricultural row crop, early successional woodland, old field, hay field, and scattered rural residential land uses (see Figures 1.2 and 1.3 in Appendix A). Appendix C contains photographs and descriptions of specific ecological habitat types within AEP Ohio Transco's ROW. Old field (138 acres) and agricultural row crop (84 acres) and hayfield/pasture (58 acres) are the primary habitats in AEP Ohio Transco's ROW, together comprising approximately 75 percent of the total 375-acre Project area. There are currently 206 occupied residences within 1,000 feet of the centerline of the Project. No schools, parks, preserves, or wildlife management areas are located within 1,000 feet of the centerline of the Project (see

Figure 1.3 in Appendix A). The Project area crosses a small portion of Brush Creek State Forest between Structures 114 and 115 (see Figure 1.1, Appendix A). One church (Union Hill Church) is located approximately 400-feet to the south of the ROW. No other churches are located within 1,000 feet of the centerline of the Project. Mount Zion Christian Church and cemetery are visible on page 22 of Figure 1.3 (in the vicinity of a proposed access road), though neither are located within 1,000 of the Project centerline.

**(b) 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.**

Based on field surveys, there are approximately 146 acres of agricultural land in the Project area, comprised primarily of row crop, hayfield, and pasture (see Figure 1.3, Appendix A). According to the Pike County Auditor's Office (January 2017) and the Adams County Auditor's Office (March 14, 2017), there are no registered agricultural district parcels located in the Project area.

**(c) 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.**

In April 2017, AEP Ohio Transco's consultant completed Phase I Archaeological Investigations for the Ware Road-Seaman 138kV Line Rebuild Project in Pike County and Adams County, Ohio (see Appendix B). A literature review conducted for this Project identified one archaeological site near the Project area, 33AD0007. This is a mound that was recorded in the card files and was excavated by Moorehead in 1896. This resource was not relocated during these investigations. No aspects of the Project area were the subject of any previous investigations. Archaeological field investigations performed for this Project involved surface collection, subsurface testing, and visual inspection. The work resulted in the identification of seven previously unrecorded archaeological sites (33AD0420-426). These sites are a numerically deficient lithic scatter and isolated find spots; they are not considered to be significant. The sites that were identified are not considered to be significant cultural resources. No further archaeology work is deemed necessary by AEP Ohio Transco's consultant.

In January 2017, AEP Ohio Transco's consultant completed Phase I History/Architecture Investigations for the Ware Road-Seaman 138kV Line Rebuild Project in Pike County and Adams County, Ohio (see Appendix B). This investigation consisted of a systematic survey of all properties 50 years of age or older that are situated within 1,000 feet on either side of the proposed Project. In total, eighty-seven individual properties 50 years of age or older were identified within the survey area that may have a direct line-of-sight to the Project. Photographs and structural data for each property were collected in the field. Eighty-three (83) of the 87 properties were determined not eligible for listing in the National Register of Historic Places. One National Register property (NR #: 79001778), was identified within the survey area. The remaining three properties within the survey area were advanced to detailed study, but were not found to be eligible. The (NR #: 79001778) National Register property was assessed for effects. Upon analyzing the Application of Criteria of

Effect, it was determined that the Project would have no adverse effects on the property, and AEP Ohio Transco's consultant recommends a finding of no adverse effects.

**(d) 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.**

A Notice of Intent will be filed with the Ohio Environmental Protection Agency (OEPA) for authorization of construction storm water discharges under General Permit OHCD00004. AEP Ohio Transco will also coordinate storm water permitting needs with local government agencies, as necessary. AEP Ohio Transco will implement and maintain best management practices as outlined in the Project-specific Storm Water Pollution Prevention Plan to minimize erosion and control sediment to protect surface water quality during storm events.

There are 100-year flood zones mapped at five locations within the Project area along Sunfish Creek, Betty's Creek, Ohio Brush Creek, George's Creek, and West Fork Ohio Brush Creek (see Appendix C). One transmission line structure (#68) is proposed within the Sunfish Creek 100-year flood zone. AEP Ohio Transco will evaluate the potential need for a floodplain permit and will coordinate with the local floodplain administrator, as necessary.

Project construction activities, including access roads, are not expected to require the placement of any permanent fills within streams or wetlands (features will be avoided or crossed using timber mats, as necessary), or require any mechanical tree clearing within forested or scrub-shrub wetlands (see Appendix C). Therefore, the Project is not expected to require a Clean Water Act Section 404 Permit from the U.S. Army Corps of Engineers (USACE). A discussion of threatened and endangered species is provided in Section B(10)(e). There are no other known local, state or federal requirements that must be met prior to commencement of the proposed Project.

**(e) 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.**

The United States Fish and Wildlife Service (USFWS) *Federally Listed Species by Ohio Counties* (available at https://www.fws.gov/midwest/ohio/pdf/OhioTEListByCountyOct2015.pdf) was reviewed to determine the threatened and endangered species known to occur in Pike and Adams Counties. This USFWS publication lists Indiana bat (*Myotis sodalis*; endangered), northern long-eared bat (*Myotis septentrionalis;* threatened), rayed bean (*Villosa fabalis*; endangered), clubshell (*Pleurobema clava*; endangered), and northern riffleshell (*Epioblasma torulosa rangiana*; endangered), as occurring, or potentially occurring, in Pike County. Additionally, the publication lists fanshell (*Cyprogenia stegaria*; endangered), pink mucket pearlymussel (*Lampsilis abrupta*;

endangered), sheepnose (*Plethobasus cyphyus*; endangered), snuffbox (*Epioblasma triquetra*; endangered), and running buffalo clover (*Trifolium stoloniferum*; endangered) as occurring, or potentially occurring in Adams County. The bald eagle (*Haliaeetus leucocephalus*; species of concern) and timber rattlesnake (*Cortalus horridus horridus*; species of concern) are also listed for Pike County and Adams County.

As part of the ecological study completed for the Ware Road-Seaman 138 kV Transmission Line Project, a coordination letter was submitted to the USFWS Ohio Ecological Services Field Office seeking an environmental review for potential impacts to threatened or endangered species. This request was submitted for the entire 32.8-mile Waverly-Adams-Seaman 138 kV line rebuild project. The response letter from USFWS (see Appendix C) indicates that the Project is within the range of the Indiana bat and northern long-eared bat in Ohio and the USFWS recommends saving trees ≥3 inches diameter at breast height whenever possible. The USFWS response letter indicates that, if any caves or abandoned mines may be disturbed, further coordination is requested. If no caves or abandoned mines are present and trees ≥3 inches dbh cannot be avoided, USFWS recommends that removal of trees ≥3 inches dbh only occur between October 1 and March 31 to avoid adverse effects to this species. If implementation of seasonal tree clearing is not possible, USFWS recommends summer presence/absence surveys be conducted between June 1 and August 15. As summarized in Appendix C, ecological field surveys conducted by AEP Ohio Transco's consultant identified no suitable winter hibernacula in the Project area. However, potentially suitable summer roost habitat (potential roost trees) was observed in the Project area. AEP Ohio Transco intends to avoid areas with summer roost habitat to the extent possible. AEP Ohio Transco will then determine if any summer tree clearing is necessary in areas containing suitable roost habitat and will proceed accordingly.

The USFWS also stated that the Project lies within the range of the federally-endangered running buffalo clover (though the species is only known to the Adams County portion of the Project). If suitable habitat is present, the USFWS recommends surveys for this species be conducted by a trained biologist in May or June when the plant is in flower. As summarized in Appendix C, ecological field surveys conducted by AEP Ohio Transco's consultant did identify potentially suitable running buffalo clover habitat within portions of the Project area. AEP Ohio Transco will determine if any areas with suitable habitat for this species will be impacted by ground disturbing activities and will proceed accordingly.

Due to the project type, size, and location, the USFWS does not anticipate adverse effects to any other federally endangered, threatened, proposed, or candidate species. Further discussion of timber rattlesnake is presented below. No bald eagle nests were observed within the Project area or within the vicinity of the Project area.

As part of the ecological study completed for this Project, coordination letters were also submitted to the Ohio Department of Natural Resources (ODNR) Division of Wildlife (DOW) Natural Heritage Program (NHP) and ODNR-Office of Real Estate. These requests were also submitted for the entire 32.8-mile Waverly-Adams-Seaman rebuild project. According to the ODNR - Office of Real Estate (Appendix C), the Project area is located within range of the following state-listed threatened or

endangered species: Indiana bat, timber rattlesnake, eastern spadefoot toad, lark sparrow, Kramer's cave beetle, black bear, 17 mussel species, and 10 fish species.

As previously discussed, no suitable winter hibernacula were observed in the Project area. However, potentially suitable summer roost habitat (potential roost trees) was observed in the Project area. AEP Ohio Transco intends to avoid areas with summer roost habitat to the extent possible. AEP Ohio Transco will then determine if any summer tree clearing is necessary in areas containing suitable roost habitat and will proceed accordingly.

According to ODNR, this project must not impact mussels (listed and non-listed) at the Project site. If in-water work is planned in any stream that meets the criteria described in the Ohio Mussel Survey Protocol (2016), ODNR recommends information be provided that indicates no mussels are present or no mussel impacts will occur. ODNR also recommends no in-water work in perennial streams from April 15 to June 30 to reduce impacts to aquatic species and their habitat. If no in-water work is proposed, the project is not likely to impact listed mussel and fish species. AEP Ohio Transco's consultant identified suitable habitat for several mussel and fish species in the Project area. However, no in-water work is proposed by AEP Ohio Transco in perennial streams. Therefore, no impacts are anticipated.

ODNR recommends habitat surveys for timber rattlesnake and eastern spadefoot toad be performed by an approved herpetologist. If suitable habitat is found to be present, then ODNR recommends a presence/absence survey be conducted or an avoidance/minimization plan be developed and implemented. AEP Ohio Transco is currently coordinating habitat surveys for timber rattlesnake and eastern spadefoot toad.

ODNR recommends that if suitable lark sparrow habitat will be impacted by the Project, construction should be avoided during the May 1 to June 30 nesting period. AEP Ohio Transco's consultant identified potentially suitable habitat for this species (old field, pasture, hay field) within portions of the Project area. However, this species is not known to occur within the Project area or a one mile radius of it. Additionally, according to the ODNR (http://wildlife.ohiodnr.gov/species-and-habitats/state-listed-species/state-listed-species-by-county), this species is not known to occur within Pike or Adams Counties. Therefore, impacts to this species are possible but not anticipated. According to ODNR, due to the mobility of black bear, the Project will not impact this species. No suitable habitat for Kramer's cave beetle occurs within the Project area. Therefore, according to ODNR, the Project is not likely to impact this species.

According to correspondence received from ODNR - Ohio Natural Heritage Program (ONHP) (Appendix C) the following state-listed species are known to occur within a one-mile radius of the Project area: scaly blazing-star, wall-rue, Walter's violet, arbor vitae, wedge-leaved Whitlow-grass, Carolina Whitlow-grass, early buttercup, narrow-leaved toothwort, Wherry's catchfly, bigeye shiner and Tennessee pondweed. None of the known locations occur within the Project area, though a known occurrence of scaly blazing-star is located adjacent to the Project area. AEP Ohio Transco's consultant identified some potentially suitable habitat for several of these species within the Project area. More information regarding these species is provided in Table 4 of Appendix C.

**(f) 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.**

Correspondence received from USFWS (see Appendix C) indicates that there are no federal wilderness areas, wildlife refuges, or designated critical habitat in the vicinity of the Project. Correspondence from ODNR-ONHP (Appendix C) indicates that they are unaware of any scenic rivers or federal parks, preserves, or other managed areas within one mile of the Ware Road-Seaman 138 kV Transmission Line Project area. However, The ODNR-ONHP lists the Tranquility Wildlife Area, the Chalet Nivale/Bacon Flats (Highlands Nature Sanctuary), an Appalachian Highway Cliffs Conservation Site, Brush Creek State Forest, a mussel bed, a cave or cavern and a natural bridge or arch within a one-mile radius of the Project area. Brush Creek State Forest is the only feature that occurs within the Project area (between Structures 114 and 115; see Figures 1.1 and 1.4 and Appendix C).

There are 100-year flood zones mapped at five locations within the Project area along Sunfish Creek, Betty's Creek, Ohio Brush Creek, George's Creek, and West Fork Ohio Brush Creek (see Appendix C). One transmission line structure (#68) is proposed within the Sunfish Creek 100-year flood zone. Therefore, a floodplain permit may be required for this Project. No other transmission line structures or proposed access roads are located within this floodplain.

AEP Ohio Transco's consultant conducted a survey for wetlands and waterbodies from December 7-13, 2016 and on March 28-29, 2017. During the field surveys, eight palustrine emergent wetlands totaling approximately 0.17 acres, one palustrine forested wetland totaling approximately 0.01 acres, and one palustrine emergent/palustrine forested wetland totaling approximately 0.07 acres were identified within the Project area (see Appendix C). Thirty-two ephemeral streams totaling approximately 3,946 linear feet in length, 32 intermittent stream totaling approximately 3,939 linear feet in length, and 21 perennial streams totaling approximately 3,347 linear feet in length were delineated within the Project area (see Appendix C). Perennial streams included West Fork Ohio Brush Creek, George's Creek, Big Run, Ohio Brush Creek Scioto Brush Creek, Chenoweth Fork, Leeth Creek, No Name Creek, and Betty's Creek. Project construction activities, including access roads, are not expected to require the placement of any permanent fills within streams or wetlands (features will be avoided or crossed using timber mats, as necessary), or require any mechanical tree clearing within forested or scrub-shrub wetlands (see Appendix C). Therefore, the Project is not expected to require a Clean Water Act Section 404 Permit from the U.S. Army Corps of Engineers (USACE).

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

To the best of AEP Ohio Transco's knowledge, there are no known unusual conditions that would result in significant environmental, social, health, or safety impacts.

# Appendix A Project Maps

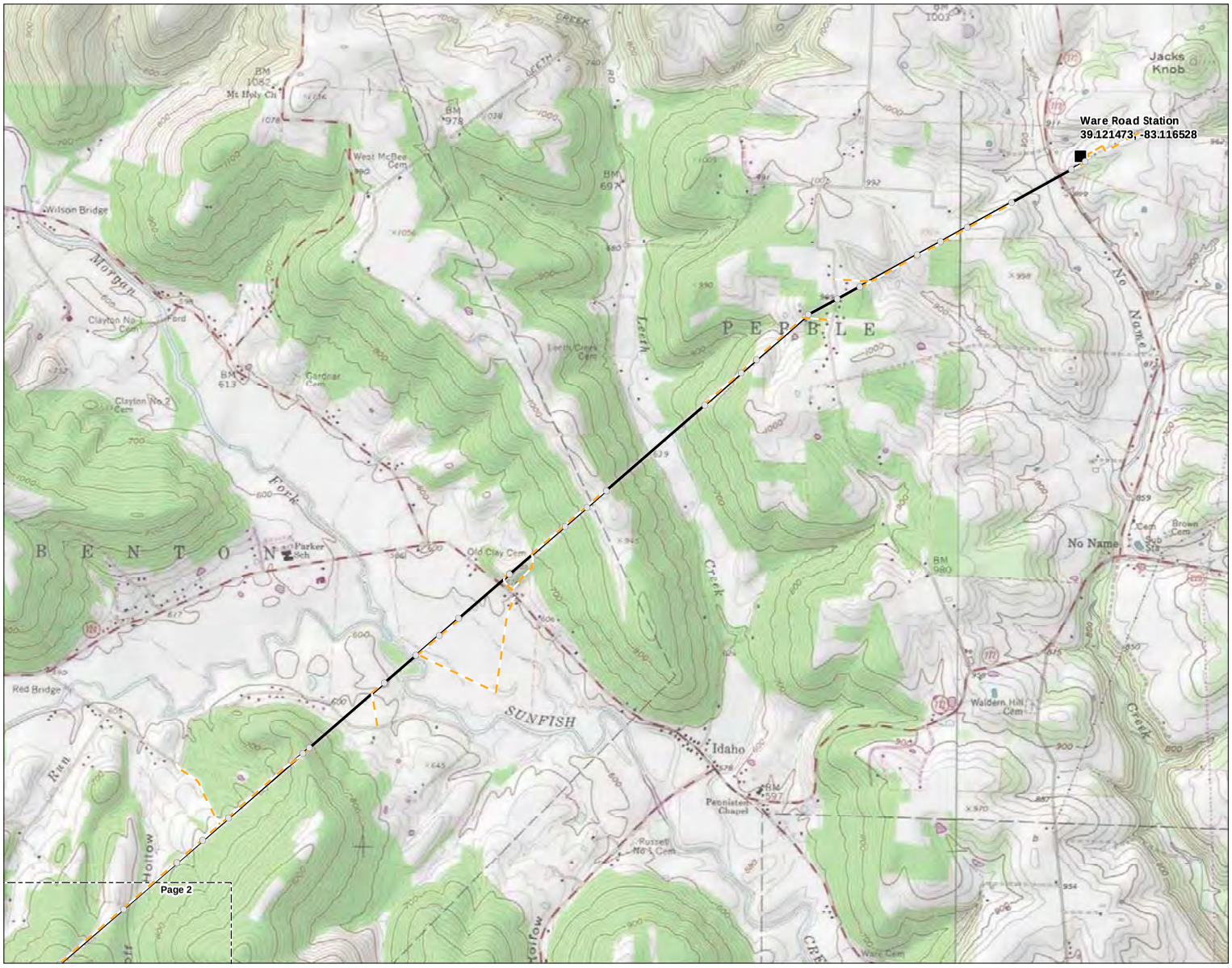



Figure No.
**1.1**

Title
## Project Location Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

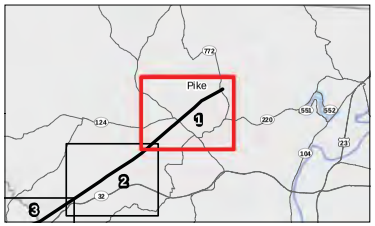
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N

Legend

- Structure to be Replaced
- AEP Substation
- 138kV Transmission Line Rebuild
- Proposed Access Road
- Brush Creek State Forest




**Notes**

1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
2. Data Sources Include: Stantec, AEP, NADS
3. Background: USGS 7.5' Topographic Quadrangles Byington (OH, 1974), Jaybird (OH, 1974), Latham (OH, 1974), Peebles (OH, 1979), Seaman (OH, 1979) and Sinking Spring (OH, 1974)

Stantec



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Figure No.

**1.1**

Title

## Project Location Map

Client/Project

AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location 193704860

Adams and Pike Counties, Ohio

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

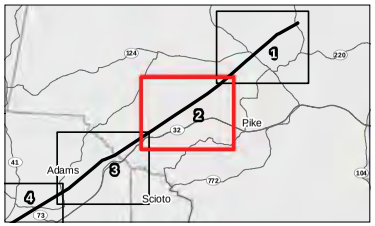
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N

Legend

- Structure to be Replaced
- AEP Substation
- 138kV Transmission Line Rebuild
- Proposed Access Road
- Brush Creek State Forest




**Notes**

1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
2. Data Sources Include: Stantec, AEP, NADS
3. Background: USGS 7.5' Topographic Quadrangles Byington (OH, 1974), Jaybird (OH, 1974), Latham (OH, 1974), Peebles (OH, 1979), Seaman (OH, 1979) and Sinking Spring (OH, 1974)

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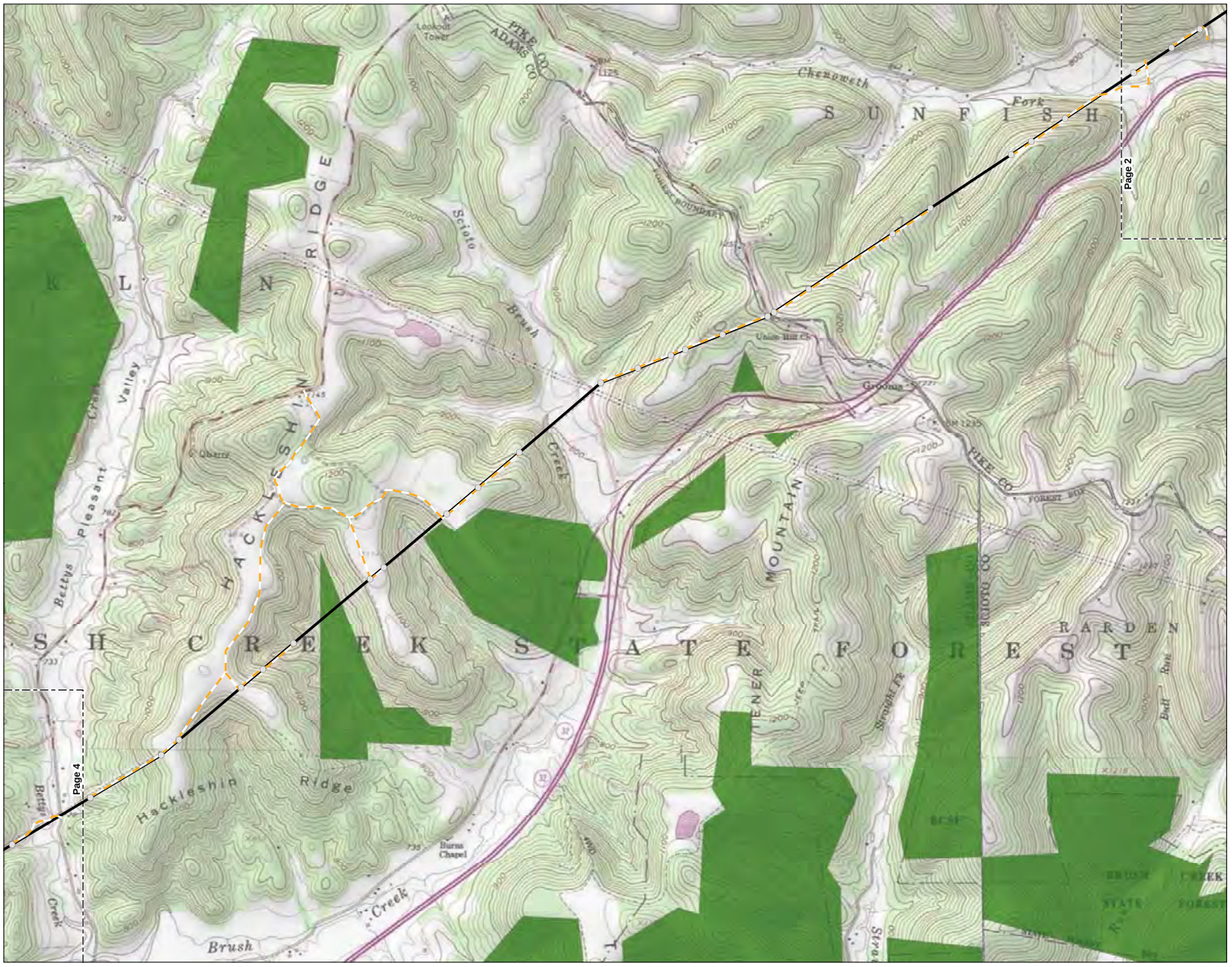



Figure No.
**1.1**

Title
## Project Location Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

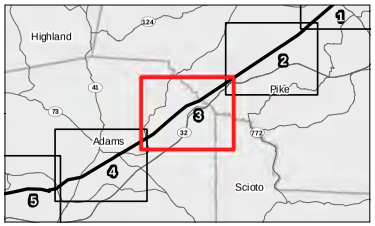
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- Proposed Access Road
- Brush Creek State Forest




**Notes**

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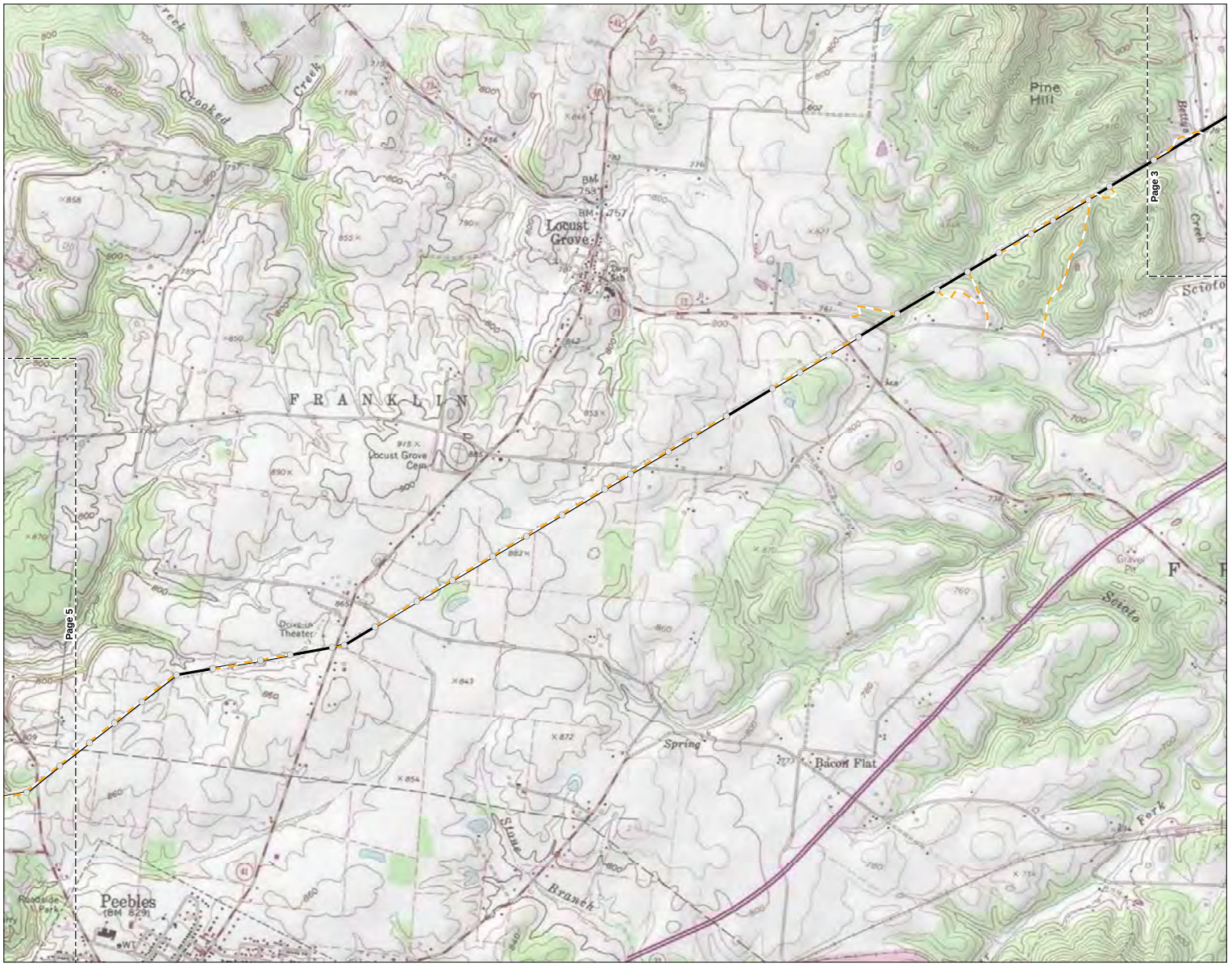



Figure No.
**1.1**

Title
## Project Location Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

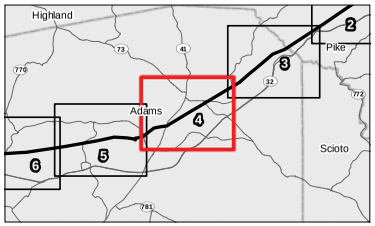
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**Notes**

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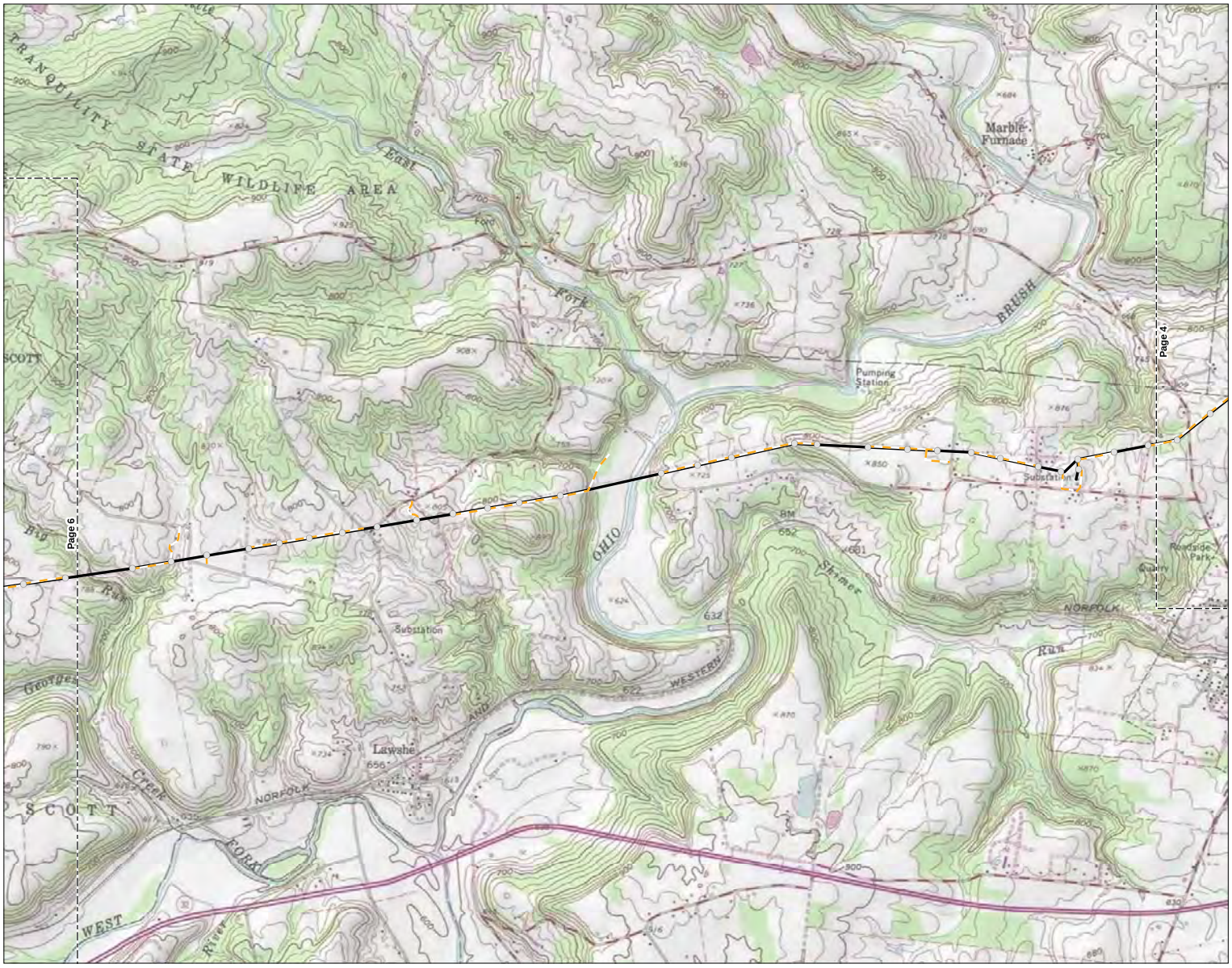



Figure No.
**1.1**

Title
## Project Location Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

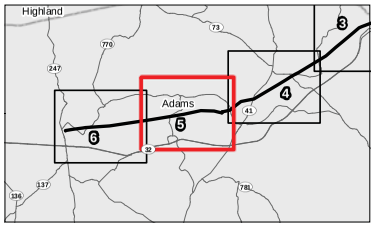
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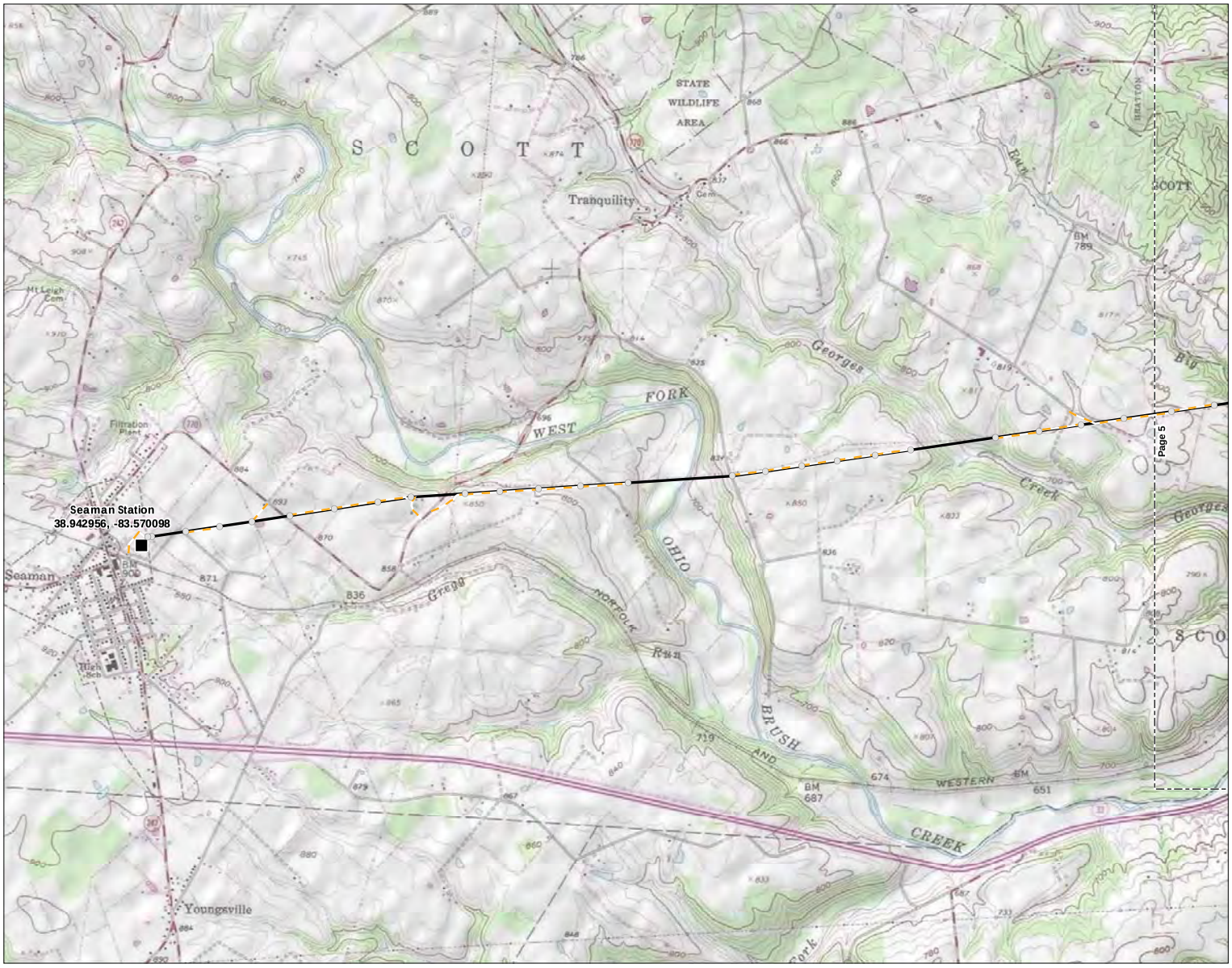



Figure No.
**1.1**

Title
## Project Location Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

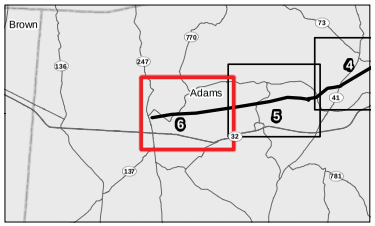
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**Notes**

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Figure No.
**1.2**

Title
## Project Layout Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

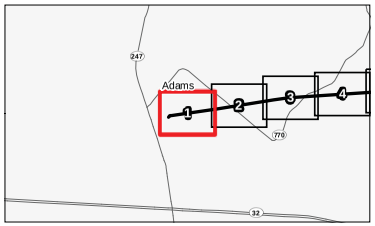
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N

Legend

- Structure to be Replaced
- AEP Substation
- Proposed Access Road
- 138kV Transmission Line Rebuild
- Existing Transmission Line
- Existing 100-foot Right-Of-Way




**Notes**
1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
2. Data Sources Include: Stantec, AEP, NADS, OGRIP
3. Ortho photography: 2015, NAIP

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Figure No.
**1.2**

Title
## Project Layout Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

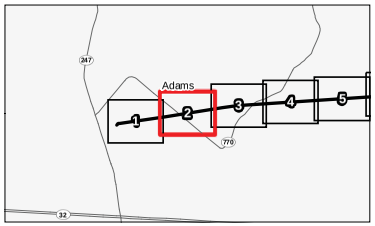
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Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

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Figure No.
**1.2**

Title
## Project Layout Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
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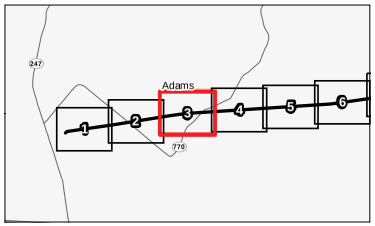
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Figure No.
**1.2**

Title
## Project Layout Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

Prepared by HDB on 2017-03-15
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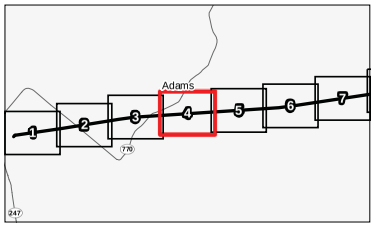
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Legend

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Figure No.
**1.2**

Title
## Project Layout Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

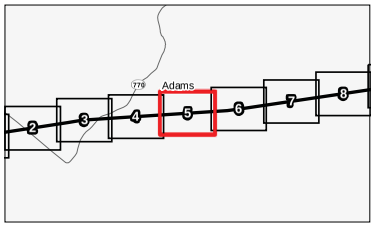
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Figure No.
**1.2**

Title
## Project Layout Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

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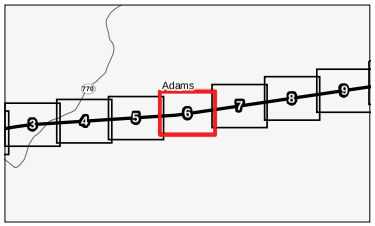
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Figure No.
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AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

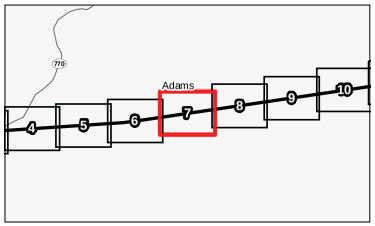
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AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

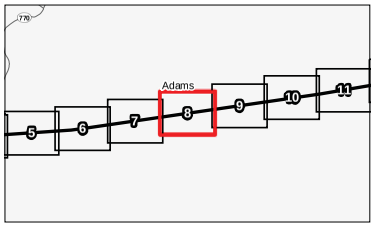
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AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
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Project Location
Adams and Pike Counties, Ohio

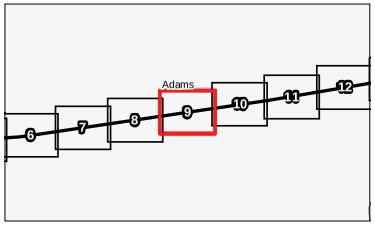
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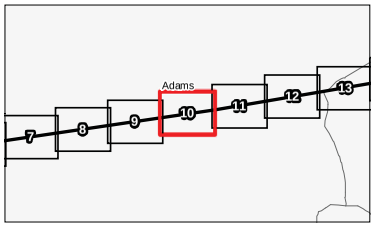
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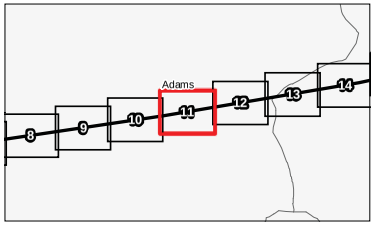
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- Proposed Access Road
- 138kV Transmission Line Rebuild
- Existing Transmission Line
- Existing 100-foot Right-Of-Way




**Notes**
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Figure No.
**1.2**

Title
## Project Layout Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

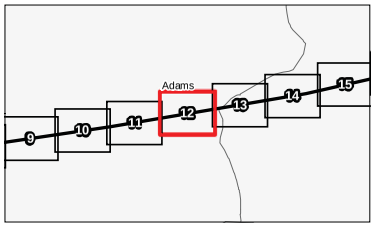
193704860

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

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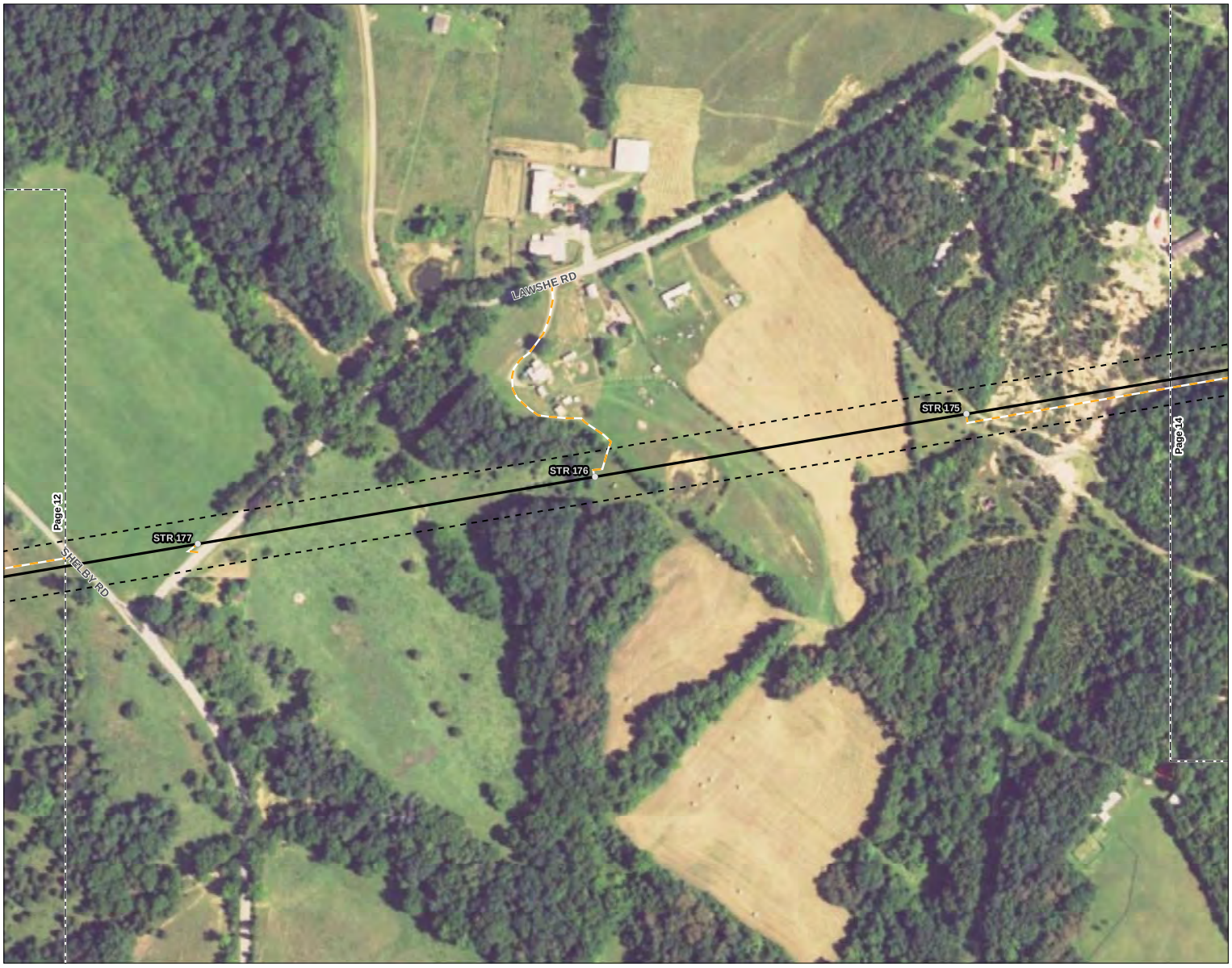



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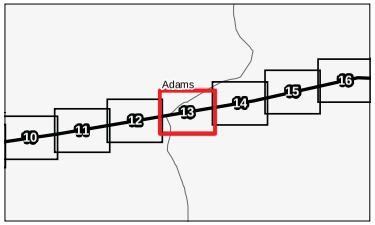
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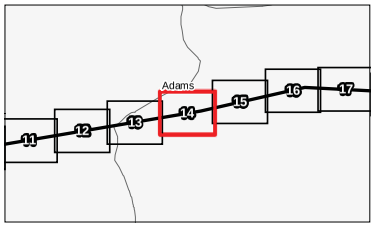
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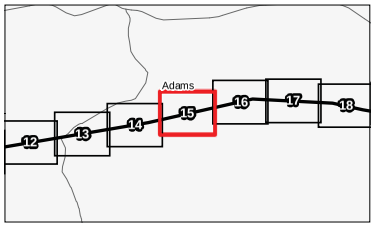
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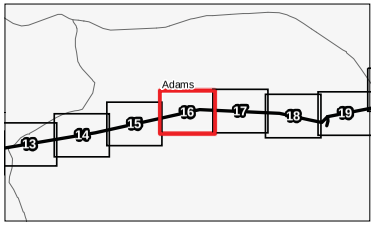
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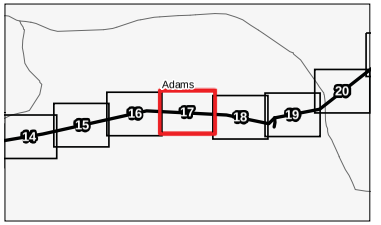
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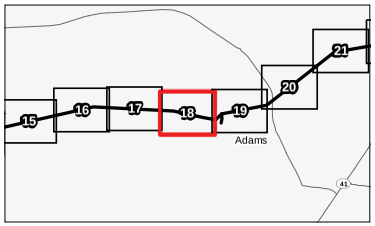
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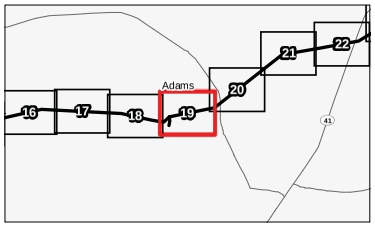
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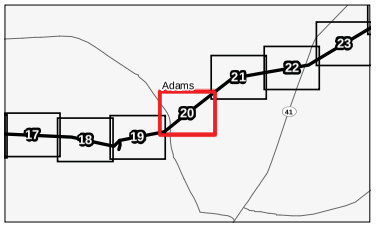
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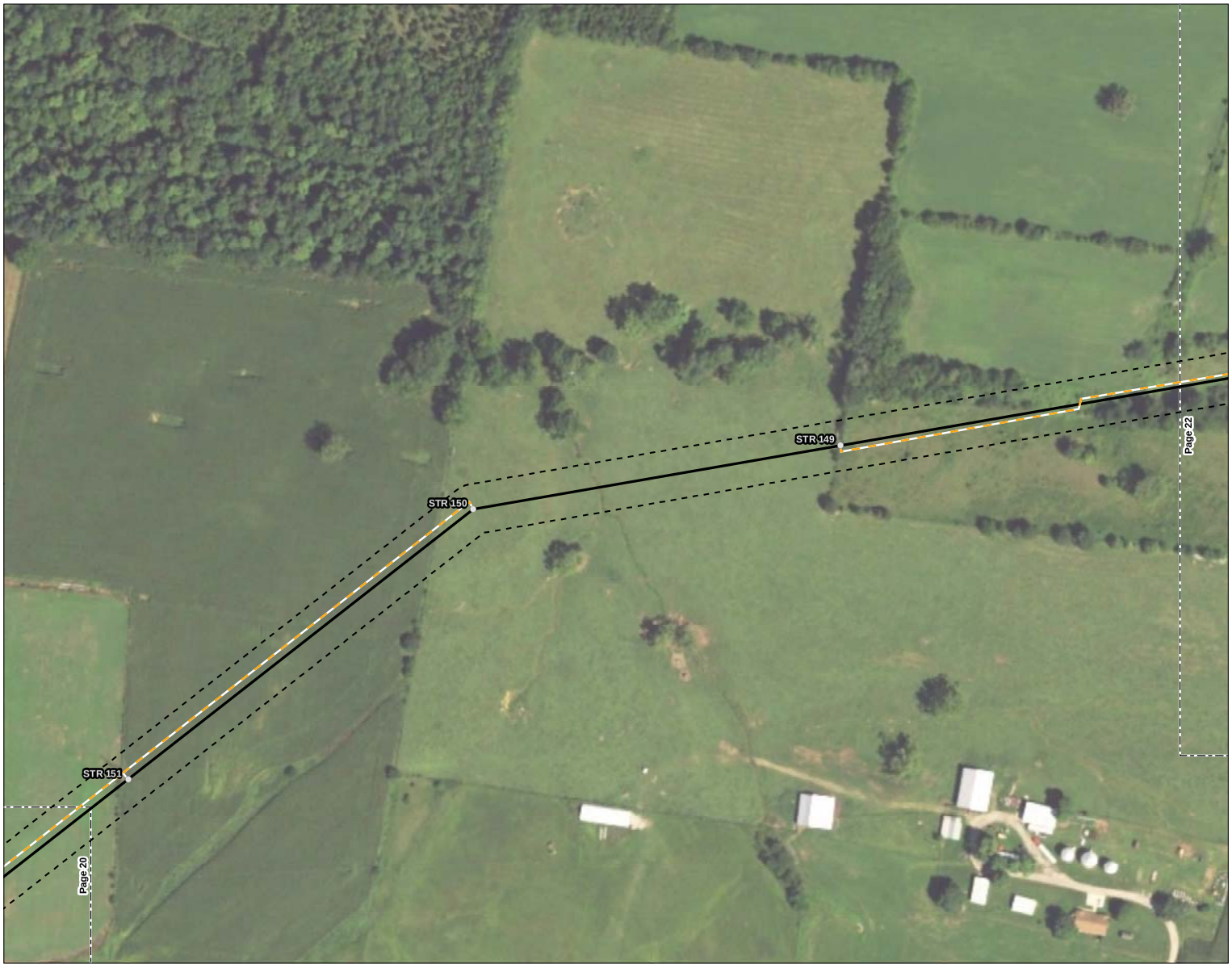



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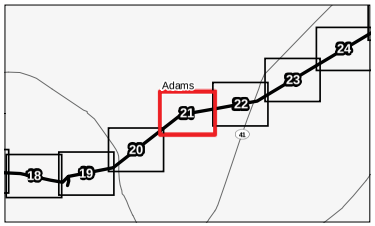
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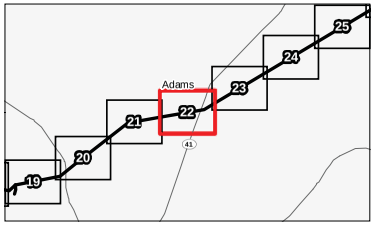
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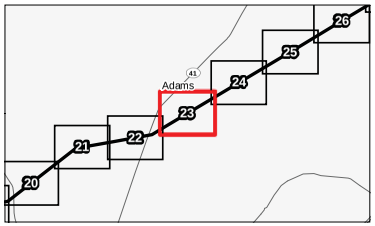
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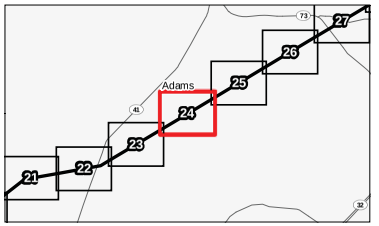
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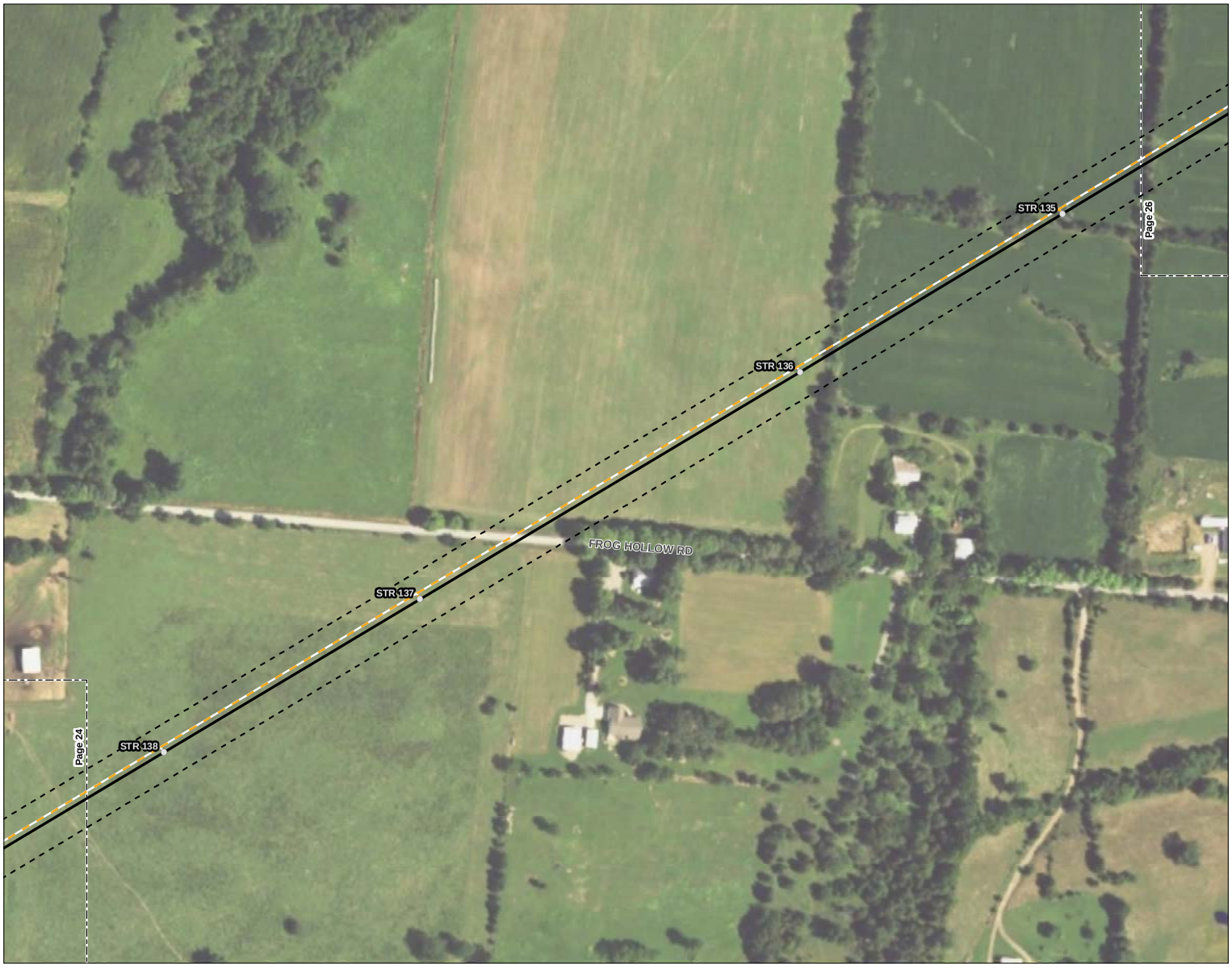



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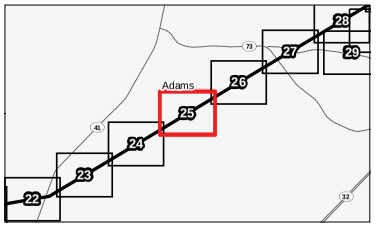
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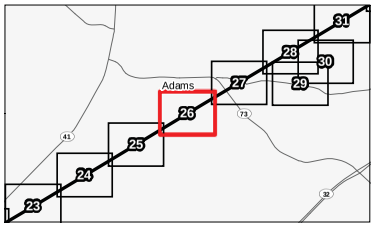
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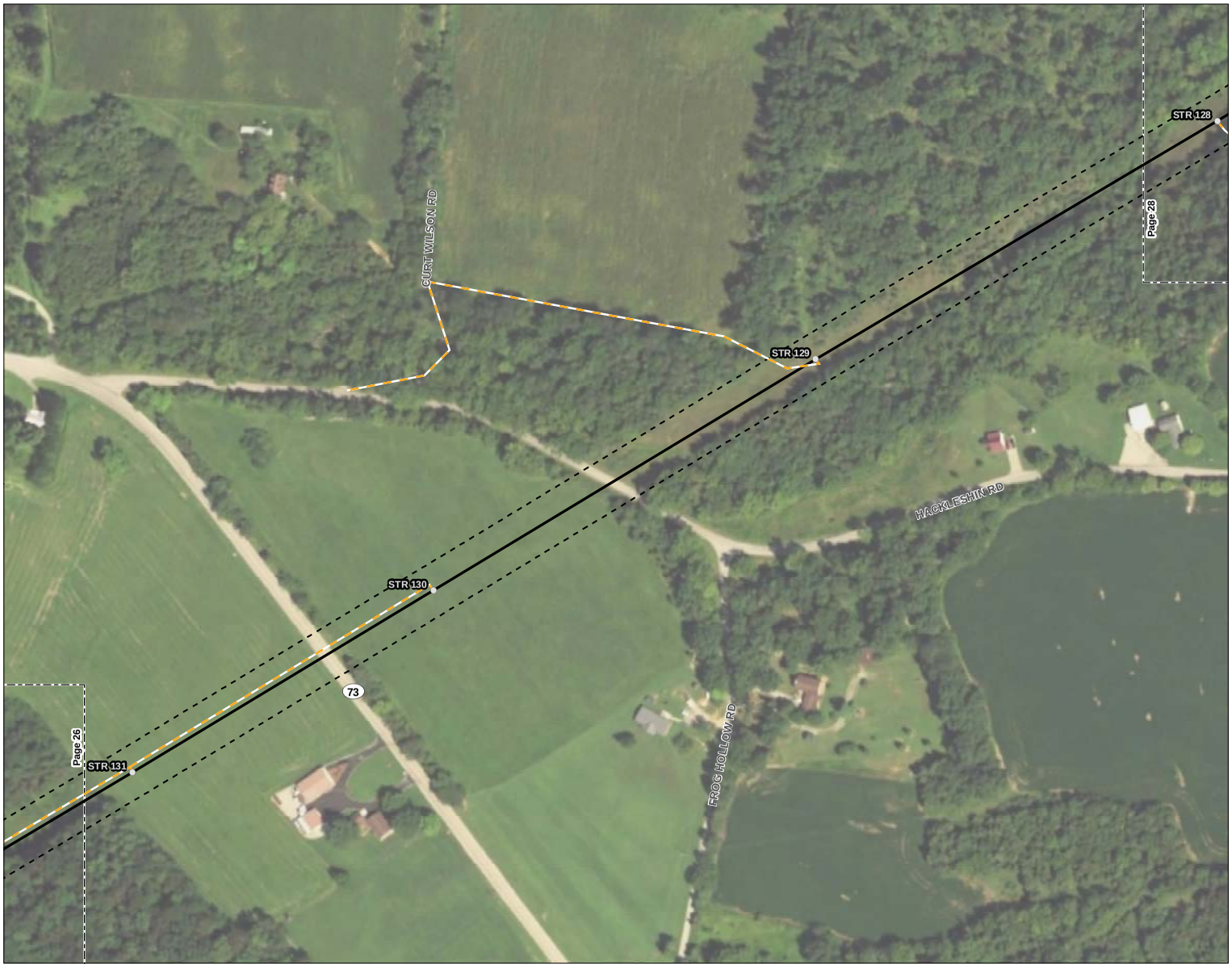



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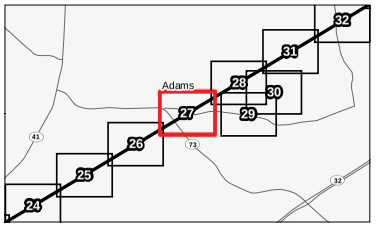
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## Project Layout Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

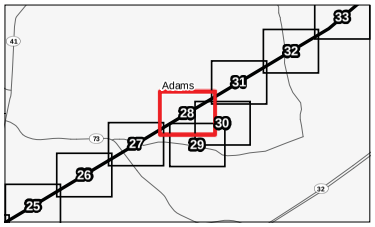
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Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

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N

Legend
- Structure to be Replaced
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- Existing 100-foot Right-Of-Way




**Notes**
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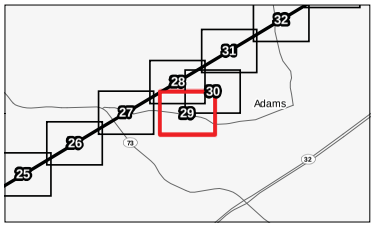
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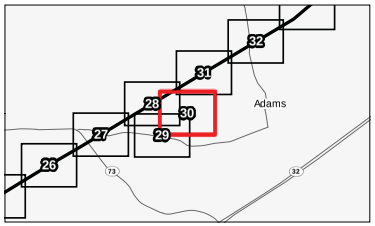
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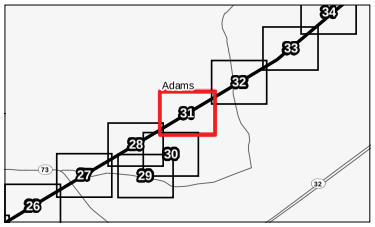
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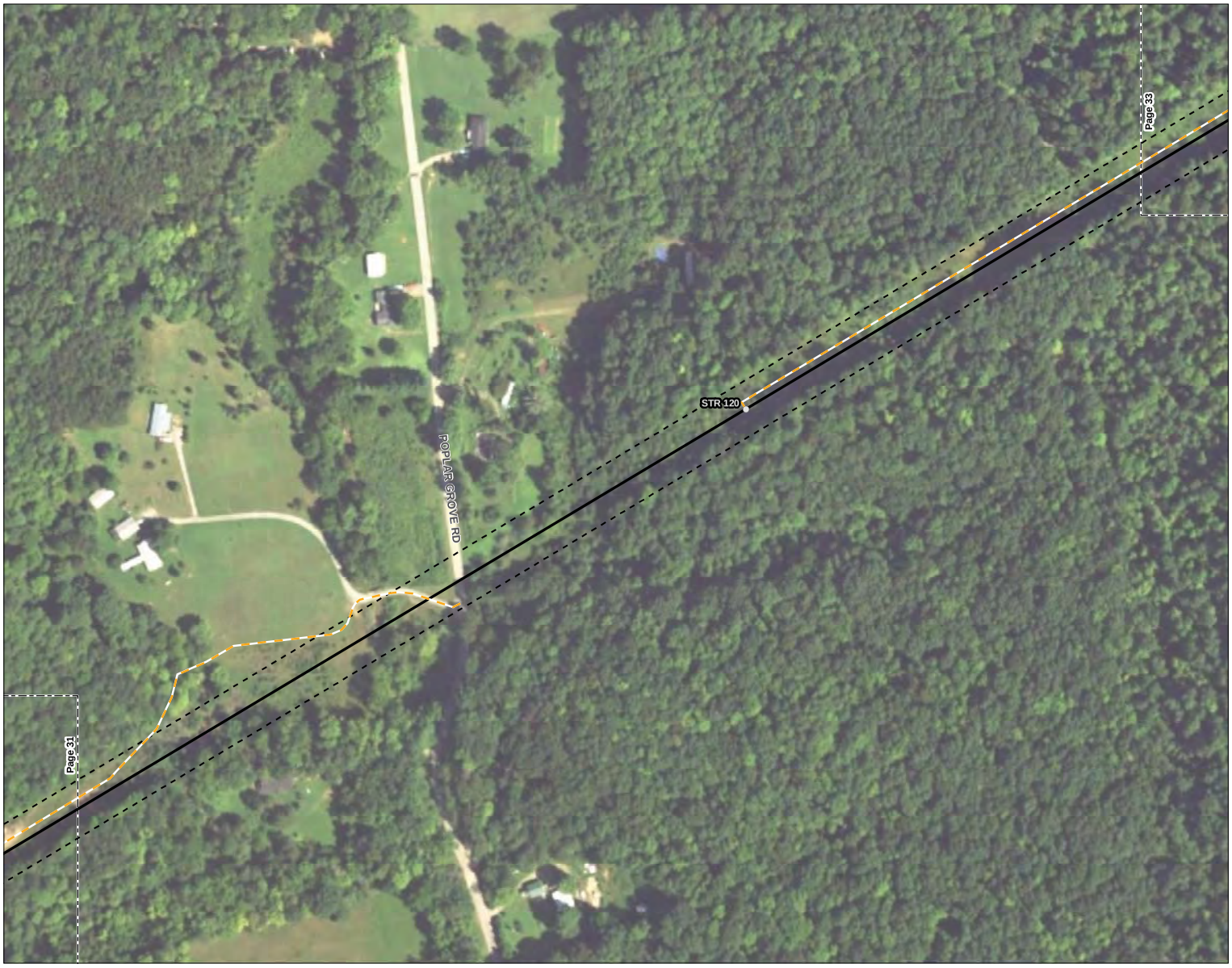



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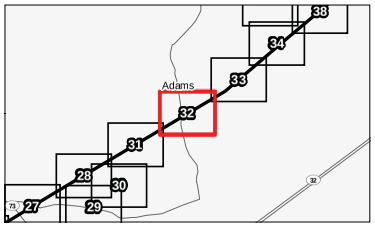
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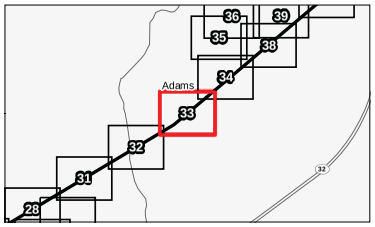
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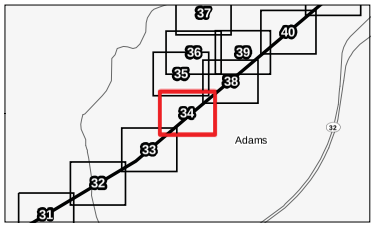
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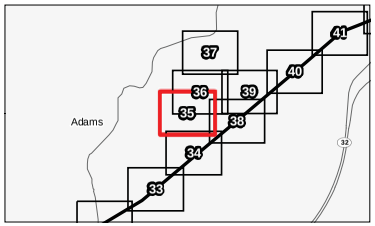
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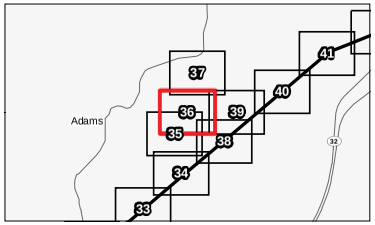
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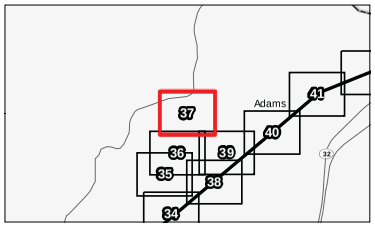
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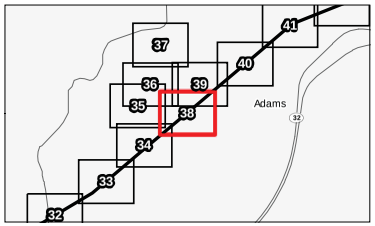
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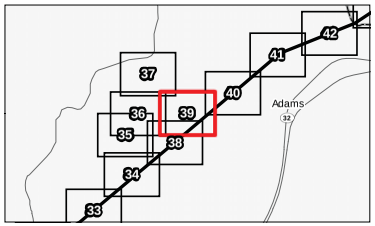
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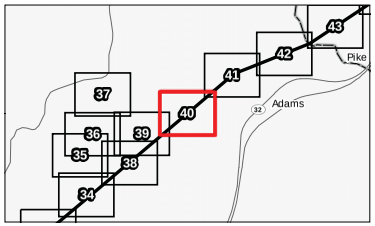
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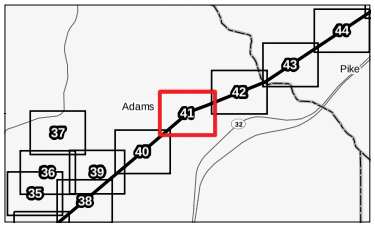
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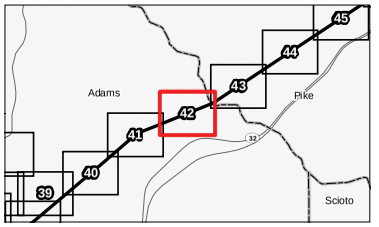
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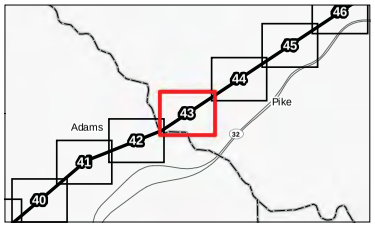
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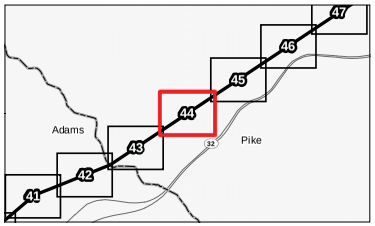
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## Project Layout Map

Client/Project
AEP Ohio Transmission Company, Inc.
Ware Road - Seaman
138kV Transmission Line Project

Project Location
Adams and Pike Counties, Ohio

193704860

Prepared by HDB on 2017-03-15
Technical Review by JDP on 2017-03-16
Independent Review by DJG on 2017-04-07

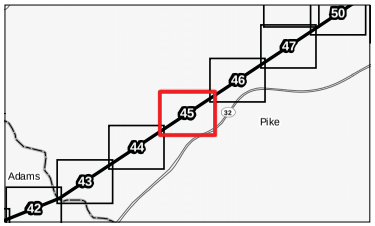
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N

Legend

- Structure to be Replaced
- AEP Substation
- Proposed Access Road
- 138kV Transmission Line Rebuild
- Existing Transmission Line
- Existing 100-foot Right-Of-Way




**Notes**
1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
2. Data Sources Include: Stantec, AEP, NADS, OGRIP
3. Ortho photography: 2015, NAIP

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Figure No.
**1.2**

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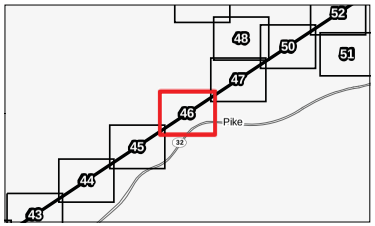
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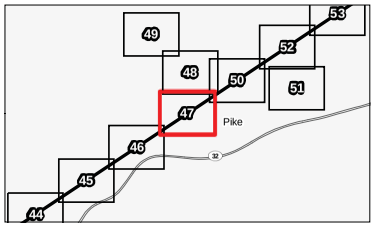
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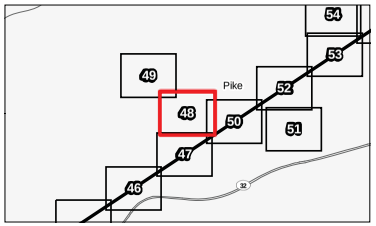
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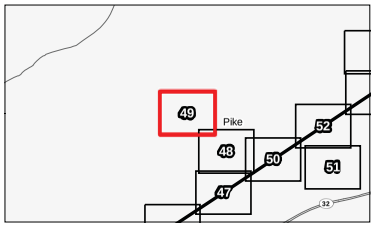
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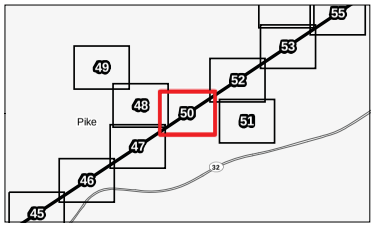
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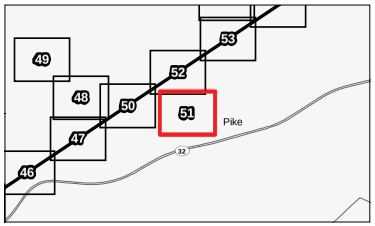
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**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**5/5/2017 1:38:03 PM**

**in**

**Case No(s). 17-0813-EL-BLN**

Summary: Letter of Notification electronically filed by Mr. Hector Garcia on behalf of AEP Ohio Transmission Company