

A-2026-3062686- jbs

Received by Sec Bureau -5/22/26

ATTACHMENT 1

**ATTACHMENT 1
PUC REGULATION CROSS-REFERENCE MATRIX**

Administrative Code Section or Statue*	PUC Regulation Requirement	Location
57.72	Form and content of application:	
57.72(a)	Applications shall be in conformity with Section 1.31 (relating to form of documentary filings generally). Supporting exhibits such as maps, photographs and other engineering materials may be on paper not exceeding 28 inches by 40 inches.	Siting Application and Attachments 1-14
57.72(b)	The application shall be signed by a person having authority with respect thereto and having knowledge of the matters herein set forth and shall be verified under oath.	Siting Application Verification
57.72(c)	An application shall contain:	
57.72(c)(1)	The name of the applicant and the address of its principal business office.	Siting Application
57.72(c)(2)	The name, title and business address of the attorney of the applicant and the person authorized to receive notice and communications with respect to the application if other than the attorney of the applicant.	Siting Application
57.72(c)(3)	A general description – not a legal or metes and bounds description – of the proposed route of the HV line, to include the number of route miles, the right- of-way width and the location of the proposed HV line within each city, borough, town and township traversed.	Siting Application St. No. 4 and Attachment 4 Siting Study
57.72(c)(4)	The names and addresses of known persons, corporations and other entities of record owning property within the proposed right-of-way, together with an indication of HV line rights-of-way acquired by the applicant.	Siting Application St. No. 6 and Attachment 6
57.72(c)(5)	A general statement of the need for the proposed HV line in meeting identified present and future demands for service, of how the proposed HV line will meet that need and of the engineering justifications for the proposed HV line.	Siting Application Statements Nos. 2, 3 and Attachment 2
57.72(c)(6)	A statement of the safety considerations which will be incorporated into the design, construction and maintenance of the proposed HV line.	Siting Application St. No. 5 and Attachment 5.

Administrative Code Section or Statue*	PUC Regulation Requirement	Location
57.72(c)(7)	A description of studies which had been made as to the projected environmental impact of the HV line as proposed and of the efforts which have been and which will be made to minimize the impact of the HV line upon the environmental and upon scenic and historic areas, including but not limited to impacts, where applicable, upon land use, soil and sedimentation, plant and wildlife habitats, terrain, hydrology and landscape.	Siting Application Attachment 4
52.72(c)(8)	A description of the efforts of the applicant to locate and identify archaeological, geologic, historic, scenic or wilderness areas of significance within 2 miles of the proposed right-of-way and the location and identity of the areas discovered by the applicant.	Siting Application Attachment 4
57.72(c)(9)	The location and identity of airports within 2 miles of the nearest limit of the right-of-way of the proposed HV line.	Siting Application Attachment 4
57.72(c)(10)	A general description of reasonable alternative routes to the proposed HV line, including a description of the corridor planning methodology, a comparison of the merit and detriments of each route, and a statement of the reasons for selecting the proposed HV line route.	Siting Application Attachment 4
57.72(c)(11)	A list of the local, State and Federal governmental agencies which have requirements which shall be met in connection with the construction or maintenance of the proposed HV line and a list of documents which have been or are required to be filed with those agencies in connection with the siting and construction of the proposed HV line.	Siting Application Attachment 7
57.72(c)(12)	The estimated cost of construction of the proposed HV line, and the projected date for completion.	Siting Application St. No. 1
57.72(c)(13)	The following exhibits:	
57.72(c)(13)(i)	A depiction of the proposed route on aerial photographs and topographic maps of suitable detail.	Siting Application Attachment 4

Administrative Code Section or Statue*	PUC Regulation Requirement	Location
57.72(c)(13)(ii)	A description of the proposed HV line, including the length of the line, the design voltage, the size, number and materials of conductors, the design of the supporting structures and their height, configuration and materials of construction, the average distance between supporting structures, the number of supporting structures, the line to structure clearances and the minimum conductor to ground clearances at mid-span under normal load and average weather conditions and under predicted extreme load and weather conditions.	Siting Application St. No. 5
57.72(c)(13)(iii)	A simple drawing of a cross section of the proposed right-of-way of the HV line and any adjoining rights- of-way showing the placement of the supporting structures at typical locations, with the height and width of the structures, the width of the right-of-way and the lateral distance between the conductors and the edge of the right-of-way indicated.	Siting Application St. No. 5
57.72(c)(13)(iv)	A system map which shows in suitable detail the location and voltage of existing transmission lines and substations of the applicant and the location and voltage of the proposed HV line and associated substations.	Proposed HV line interconnects with a FirstEnergy facility. See also Siting Application St. No. 2 and Attachment 2.1
57.72(c)(14)	A statement identifying litigation concluded or in progress which concerns property or matter relating to the proposed HV line, right-of-way route or environmental matters.	CPC Application and Siting Application
57.72(c)(15)	Additional information as the Commission may require.	---
57.74(a)	(a) <i>Filing</i> . The applicant shall file with the Commission the original and six copies of the application. An affidavit of service showing the identity of those served under subsections (b) and (c) shall accompany the original and the copies of the application filed with the Commission.	Siting Application

Administrative Code Section or Statue*	PUC Regulation Requirement	Location
57.74(b)	<p>(b) <i>Copies.</i> At the time of filing, the applicant shall serve a copy of the application by registered or certified mail, return receipt requested, upon the following:</p> <ul style="list-style-type: none"> (1) The chief executive officer, the governing body and the body charged with the duty of planning land use in each city, borough, town, township and county in which any portion of the HV line is proposed to be located. (2) The president of the public utility, other than the applicant, in whose service territory any portion of the HV line is proposed to be located. <p>The Department of Environmental Resources, Attention: Bureau of Environmental Planning; Post Office Box 2357, 101 S. Second Street, Harrisburg, Pennsylvania, 17120. (NOTE: now Department of Environmental Protection at different Harrisburg office).</p>	Certificate of Service
57.74(c)	<p>(c) <i>Notice.</i></p> <p>(1) At the time of filing, the applicant shall serve a notice of filing and a map of suitable detail showing the proposed route of the proposed facility by registered or certified mail, return receipt requested, upon the following:</p> <ul style="list-style-type: none"> (i) The Secretary of the Department of Transportation, Room 1200 Transportation and Safety Building, Harrisburg, Pennsylvania 17120. (ii) The Chairman of the Historical and Museum Commission, Post Office Box 1026, Harrisburg, Pennsylvania 17120. (iii) Other local, State or Federal agencies designated in § 57.72 (c)(11)(relating to form and content of application). (iv) The persons, corporations, and other entities designated in § 57.72(c)(4), unless they are served with a copy of the application under § 57.75(i) (relating to hearing and notice). 	Notice of Filing

Administrative Code Section or Statue*	PUC Regulation Requirement	Location
57.74(c)	(2) The notice of filing shall contain a statement identifying the filing, the date on which the filing was or is to be made, a description of the proposed line, the design voltage, the number of route miles, the right-of-way width and the location of the proposed HV line within each township traversed and a statement that a copy of the application is available for public examination as provided in subsection (d).	Notice of Filing
57.74(d)	(d) <i>Examination.</i> On the day of filing of the application, the applicant shall make a copy of the application available for public examination during ordinary business hours at a convenient location within a county in which any part of the proposed HV will be located.	Siting Application St. No. 1 and Attachment 10
57.74(e)	(e) <i>Additional notice.</i> The applicant shall provide an additional notice and shall serve such additional copies of the application without cost as the Commission may require.	---
Chapter 69	Interim guidelines require	
69.3102(a)	(a) Applications for electric transmission siting authority should provide the following information with the initial application for siting approval demonstrating its efforts to fully notify landowners who are either owners of land that will be purchased for the transmission project or will be subject to right of way/easement requirements: (1) A Code of Conduct/Internal Practices governing the manner in which public utility employees or their agents interact with landowners along proposed rights of way. (2) Copies of information provided to landowners by the public utility of any publicly disseminated notices advising landowners to contact the Commission or the Office of Consumer Advocate (OCA) in the event of improper land agent practices. (3) Copies of all notices sent under § 57.91 (relating to disclosure of eminent domain power of electric utilities).	Siting Application St. No. 6 and Attachment 14
69.3102(b)	(b) Applicants for transmission siting authority should serve a copy of the Code of Conduct on all landowners along the proposed route whose property is to be purchased, subject to easement rights or borders the transmission corridor. The Code of Conduct should also be available on the applicant’s website.	Siting Application St. No. 6 and Attachment 14

Administrative Code Section or Statue*	PUC Regulation Requirement	Location
69.3102(c)	(c) Applicants for transmission siting authority should provide prior notice to the Commission’s Office of Communications of informational presentations to community groups by the public utility scheduled after the filing of the transmission siting application so that the Commission, OCA and other interested parties can attend meetings or obtain copies of information being disseminated at the presentations.	At this time, no informal presentations are scheduled for after the Siting Application is filed.
69.3105(1)	Applications for the siting of electric transmission lines should provide the following information as part of the § 57.72(c) (relating to form and content of application) requirements: (1) Transmission applicants should utilize a combination of transmission route evaluation procedures including high-level GIS data, traditional mapping (including United States Geological Survey data and compilation), aerial maps and analysis of physical site specific constraints raised by affected landowners.	Siting Application Attachment 4
69.3105(2)	Applications for the siting of electric transmission lines should provide the following information as part of the § 57.72(c) (relating to form and content of application) requirements: (2) Transmission applicants should summarize the status of property acquisitions (including fee simple acquisitions and rights of way/easements) as part of the application. The applicant should provide the current status and continuing updates on property acquisition litigation or settlements during the course of the siting proceeding.	Siting Application St. Nos. 1, 3
69.3105(3)	Applications for the siting of electric transmission lines should provide the following information as part of the § 57.72(c) (relating to form and content of application) requirements: (3) In providing information regarding the reasonable alternative routes, the utility actively considered in its final phase of the route selection process, and the relative merits of each, in accordance with § 57.72(c)(10), the applicant should include the following information: (i) The environmental, historical, cultural and aesthetic considerations of each route.	Siting Application St. No. 4 and Attachment 4

Administrative Code Section or Statue*	PUC Regulation Requirement	Location
	<ul style="list-style-type: none"> (ii) The proximity of these alternative routes to residential and nonresidential structures. (iii) The applicant’s consideration of relevant existing rights of way. (iv) The comparative construction costs associated with each route. 	
69.3105(4)	<p>Applications for the siting of electric transmission lines should provide the following information as part of the § 57.72(c) (relating to form and content of application) requirements:</p> <p>(4) With reference to the proposed route, applicants should provide a summary of efforts made to contact and solicit assistance from local governments and nongovernmental organizations regarding areas encompassed within the requirement of § 57.72(c)(8).</p>	Siting Application St. No. 4 and Attachments 4, 13
69.3106	<p>Applications for siting of electric transmission lines should include as part of the filing requirement under § 57.72(e)(7) the following information: A matrix or list showing all expected Federal, state and local government regulatory permitting or licensing approvals that may be required for the project at the time the application is filed, the issuing agency, approximate timeline for approval and current status. The applicant should provide an update on the status of the regulatory permitting/licensing approvals as the case progresses.</p>	Siting Application Attachment 7

Administrative Code Section or Statue*	PUC Regulation Requirement	Location
69.3107(a)	<p>(a) <i>Interim guidelines for the use of herbicides and pesticides.</i> Applicants for transmission line siting authority should provide a detailed vegetation management plan that includes the following components:</p> <ol style="list-style-type: none"> (1) A general description of the utility’s vegetation management plan. (2) Factors that dictate when each method, including aerial spraying, is utilized. (3) Vegetation management practices near aquatic and other sensitive locations. (4) Notice procedures to affected landowners regarding vegetation management practices. (5) Provision of a copy of a landowner maintenance agreement that describes the duties and responsibilities of landowners and the utility for vegetation management to the extent utilized. 	Siting Application St. No. 6 and Attachment 12
69.3107(b)	<p>(b) <i>Interim guidelines for Electromagnetic Field (EMF) impacts.</i> Transmission siting applications should include the following: A description of the EMF mitigation procedures that the utility proposes to utilize along the transmission line route. This description should include a statement of policy approach for evaluating design and siting alternatives and a description of the proposed measures for mitigating EMF impacts.</p>	Siting Application St. No. 5 and Attachment 11

*Pennsylvania Code 57.71 – 57.75 relates to “Commission Review of Siting and Construction of Electric Transmission Lines”. Pennsylvania Code 69.3101 – 69.3107 relates to “General Orders, Policy Statements, and Guidelines on Fixed Utilities”. Sections described within

ATTACHMENT 1 pertains specifically to those items required to be included for an application filing.

ATTACHMENT 2

ATTACHMENT 2
NECESSITY STATEMENT

1.0 INTRODUCTION

Transource Pennsylvania, LLC ("Transource PA" or the "Company") seeks approval from the Pennsylvania Public Utility Commission ("Commission" or "PUC") for the siting and construction of the Pennsylvania portion of the Rice-Ringgold 230 kV Transmission Line in Franklin County, Pennsylvania. The proposed Rice-Ringgold 230 kV Transmission Line is part of the 9A West Project ("9A West Project") approved by PJM Interconnection, L.L.C. ("PJM") to alleviate transmission congestion constraints in Pennsylvania, Maryland, West Virginia, and Virginia.

The 9A West Project involves the siting and construction of the new Rice-Ringgold 230 kV Transmission Line that will extend approximately 28.8 miles to connect the existing Ringgold Substation located near Smithsburg, Washington County, Maryland and the new Rice Substation to be located in Franklin County, Pennsylvania. Approximately 24.4 miles of the 9A West Project will be located in Pennsylvania and approximately 4.4 miles will be located in Maryland.

Transource PA herein seeks Commission approval of the siting and construction of the 9A West Project in Franklin County, Pennsylvania.

Transource PA is obligated and responsible for the construction, ownership, maintenance and operation of the Pennsylvania portion of the 9A West Project. The Maryland portion of the 9A West Project will be constructed and owned by Transource PA's Maryland affiliate.

The current estimated cost for the total 9A West Project is approximately \$231.3 million, which includes approximately \$108.7 million for substation work and approximately \$122.6 million for the new Rice-Ringgold 230 kV Transmission Line. This cost estimate includes siting, engineering,

procurement, construction, financing, administrative, development, and legal costs. This total estimate is based upon an initial planning level estimate of approximately \$112.7 million, a contingency of \$10 million, and taxes and escalation to the latest in-service date of 2029 of approximately \$170.4 million. The estimate also reflects 90% design and engineering, refinements from the project route following the bid, and vendor quotes received.

2.0 PROJECT NEED

RTOs, or regional transmission organizations, are responsible for regional and interregional transmission planning, and for operating the interstate transmission system. The Federal Energy Regulatory Commission (“FERC”) encouraged the formation of RTOs.¹ One core function of RTOs is to provide for the independent operational control over transmission facilities owned by utilities that are placed under the RTO’s control.²

PJM is a FERC-approved RTO charged with maintaining the reliable and efficient operation of the electric transmission system under its functional control and coordinating the transmission of electricity through all or parts of thirteen states, including Pennsylvania, and the District of Columbia.

In order to maintain reliable transmission service, PJM conducts an annual Regional Transmission Expansion Plan (“RTEP”) process,³ which includes a comprehensive series of

¹See Order No. 2000, Regional Transmission Organizations, 65 Fed. Reg. 810, 811 (Jan. 6, 2000) (codified at 18 C.F.R. pt. 35).

²*Id.* at 811.

³ PJM's RTEP process is set forth in Schedule 6 of PJM's Amended and Restated Operating Agreement (“Schedule 6”). Schedule 6 governs the process by which PJM's members rely on PJM to prepare an annual regional plan for the enhancement and expansion of the transmission facilities to maintain long-term, reliable electric service consistent with established reliability criteria, as well as to plan transmission facilities needed to address market efficiency and public policy-related drivers. In addition, Schedule 6 addresses the procedures used to develop the RTEP, the review

detailed analyses to identify transmission solutions needed to maintain reliable electric service, as well as to address market efficiency and public policy requirements.⁴

As relevant to this proceeding, the RTEP's market efficiency analysis, which is set forth in Schedule 6, section 1.5.7 ("Market Efficiency Analysis") identifies congestion on electric transmission facilities that have economic or wholesale market effects, as well as potential improvements to electric transmission economic efficiencies. The electric transmission needs identified in this analysis stem from the fact that the PJM transmission grid provides the means for generators to participate in a competitive wholesale market to supply electricity, both capacity and energy, to customers in PJM's geographic footprint no matter where in this area the electrical load is located.

When PJM's Market Efficiency Analysis identifies a need to relieve congestion on electric transmission facilities, PJM opens a competitive proposal window pursuant to Schedule 6, section 1.5.8(c), to solicit the submittal of potential solutions (*i.e.*, market efficiency projects) to address those needs. FERC has found that PJM's solicitation of market efficiency project submittals through the competitive proposal window complies with the requirements of FERC Order No. 1000.⁵ Potential solutions are evaluated using two criteria: first, the project must address the congestion identified in the Market Efficiency Analysis; and, second, the project

and approval process for the RTEP, the obligation of transmission owners to build transmission upgrades included in the RTEP, and the process by which interregional transmission upgrades will be developed.

⁴ PJM Manual 14B outlines the RTEP process and reliability criteria used for this process. PJM Manual 14B is available at: <http://www.pjm.com/~media/documents/manuals/ml4b.ashx>,

⁵ A summary of FERC Order No. 1000 is available at: <http://www.ferc.gov/industries/electric/indus-act/trans-plan.asp>.

benefits must exceed the costs by at least 25 percent.⁶ In addition, the project must meet PJM's congestion criteria and not create additional unacceptable congestion elsewhere on the system.

Market efficiency projects that are selected through PJM's competitive window process are discussed with PJM stakeholders and recommended to the PJM Board of Managers ("PJM Board") for approval. If approved, such market efficiency projects are included in the RTEP as baseline projects.

After extensive evaluation and review with stakeholders, PJM selected Project 9A to address the needs identified in PJM's "2014/15 RTEP Long Term Proposal Window," because it provided the highest benefit-to-cost ratio ("B/C ratio"), the most total congestion savings, and the most production cost savings.⁷ As part of the 2014/2015 RTEP, PJM estimated that Project 9A (of which the 9A West Project is a part) could lower wholesale electricity costs in congested-constrained regions.

On August 2, 2016, the PJM Board approved Project 9A as baseline upgrade numbers b2743 and b2752, which included the 9A West Project.

⁶ Project benefits are measured by comparing the benefits in the form of net load payments and/or production costs with and without the proposed project for a 15-year study period. The economic benefit/cost ratio threshold test is set forth in PJM Manual 14B, Attachment E, available at: <http://www.pjm.com/~media/documents/manuals/ml4b.ashx>.

⁷The recommendation of PJM staff to approve Project 9A is available at: [PJM Regional Transmission Expansion Plan](#) See page 20.

PJM has conducted periodic annual re-evaluations of Project 9A West since the project was placed in suspension status in 2021. PJM's 2025 annual re-evaluation showed a 3.74 B/C ratio for the original configuration of Project 9A and a 3.85 B/C ratio for the western portion of the project only, i.e., the 9A West Project.

While other RTEP projects have been constructed since 2021 and therefore have obviated the need for what had been the eastern portion of the original Project 9A, PJM's staff recommended to PJM's Board of Managers in May 2025 that the 9A West Project be continued given its positive benefits and favorable B/C ratio.

On July 30, 2025, the PJM Board of Managers approved the recommended modification of Project 9A's scope, finding that the 9A West Project is needed and supports the prompt construction of needed infrastructure in the region.

3.0 PROPOSED SOLUTION

The 9A West Project approved by PJM involves construction of the new Rice-Ringgold 230 kV Transmission Line that will extend approximately 28.8 miles to connect the existing Ringgold Substation located near Smithsburg, Washington County, Maryland and the new Rice Substation to be located in Franklin County, Pennsylvania.

A map of the existing and proposed systems in the Project area is provided as **Attachment 2.1**. A one-line diagram of the proposed 9A West Project is provided as **Attachment 2.2**.

The 9A West Project will alleviate the transmission congestion constraints identified by PJM in Pennsylvania, Maryland, West Virginia, and Virginia. The 9A West Project is required to resolve

the congestion problem first identified in the 2014/2015 RTEP Long Term Proposal Window and as further reviewed and updated by PJM in 2025.

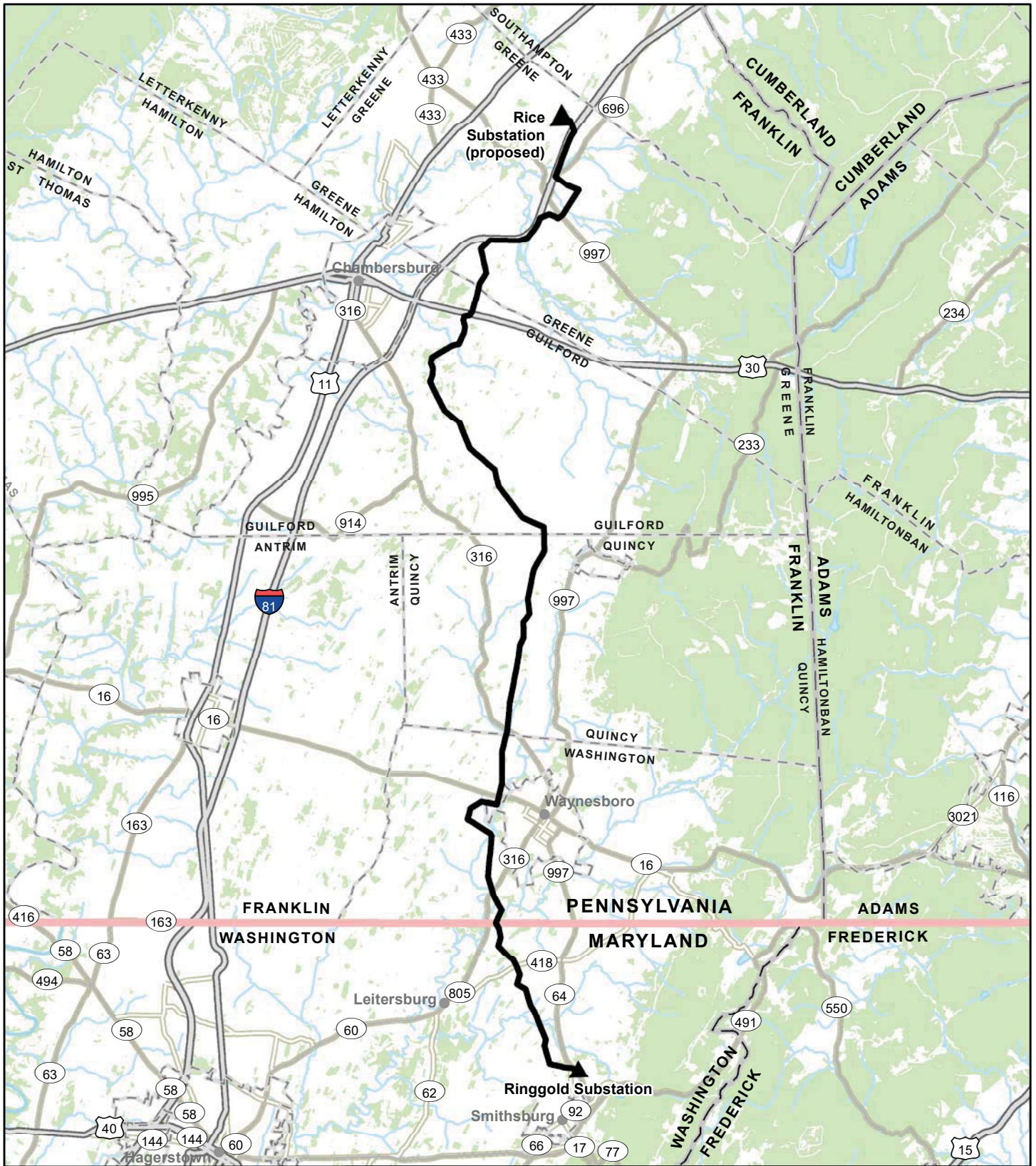
On April 2, 2026, PJM and Transource Energy,⁸ on behalf of Transource PA and Transource MD, completed and executed an amended Designated Entity Agreement (“DEA”) for the 9A West Project.







The DEA between PJM and Transource, among other things, obligates Transource to “design, engineer, procure, install, construct, own, operate and maintain” the 9A West Project within the agreed upon cost constraints and timelines defined by the two parties. The DEA has appendices that contain relevant project details, such as the scope of work, the development schedule and cost commitments.

The fully executed DEA for the 9A West Project was filed at FERC on May 1, 2026, for FERC’s review and acceptance. When a DEA is accepted by FERC, it means that FERC has found that the agreement, as filed, is consistent with the Federal Power Act and PJM’s governing documents, and has allowed the agreement to take effect as part of PJM’s FERC-approved framework. Acceptance by FERC reflects that the agreement is not shown to be unjust, unreasonable or unduly discriminatory.

⁸ Transource Energy, LLC is the parent company of Transource PA and Transource MD.

ATTACHMENT 2.1



-  Substation
-  Alternative Route C (Proposed Route)
-  Highway
-  Road
-  Stream
-  Forest Cover

Data Sources: Transource (2026),
Rextag Electric Transmission (2021),
NLCD Forest Cover (2024)

Coordinate System:
UTM Zone 18N
NAD 83



Figure 1
Proposed Route

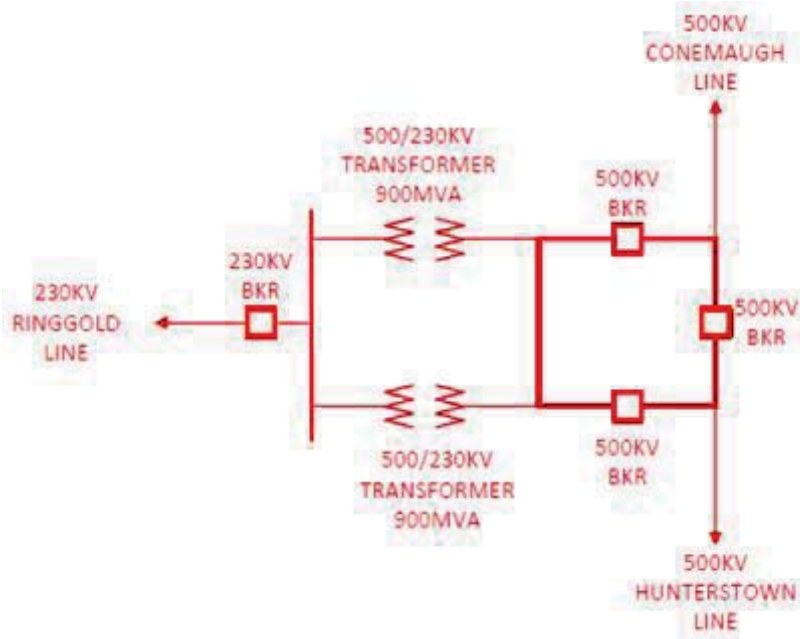
Rice - Ringgold 230 kV
Transmission Line Project



May 03, 2026

ATTACHMENT 2.2

Current diagrams:



ATTACHMENT 3

AMENDED DESIGNATED ENTITY AGREEMENT

Between

PJM Interconnection, L.L.C.

And

**Transource Energy, LLC, for itself and on behalf of
Transource Maryland, LLC and Transource Pennsylvania, LLC**

RTEP Projects: b2743.1 and b2743.5

2014/2015 Window 1 -Transource Projects

AMENDED DESIGNATED ENTITY AGREEMENT

Between

PJM Interconnection, L.L.C.

And

**Transource Energy, LLC, for itself and on behalf of
Transource Maryland, LLC and Transource Pennsylvania, LLC**

This Amended Designated Entity Agreement, including the Schedules attached hereto and incorporated herein (collectively, “Agreement”) is made and entered into as of the Effective Date between PJM Interconnection, L.L.C. (“Transmission Provider” or “PJM”), and Transource Energy, LLC (“Designated Entity” or “Transource”), referred to herein individually as “Party” and collectively as “the Parties.”

WITNESSETH

WHEREAS, in accordance with FERC Order No. 1000 and Schedule 6 of the Amended and Restated Operating Agreement of PJM Interconnection, L.L.C. (“Operating Agreement”), Transmission Provider is required to designate among candidates, pursuant to a FERC-approved process, an entity to develop and construct a specified project to expand, replace and/or reinforce the Transmission System operated by Transmission Provider;

WHEREAS, pursuant to Section 1.5.8(i) of Schedule 6 of the Operating Agreement, the Transmission Provider notified Designated Entity that it was designated as the Designated Entity for the Project (described in Schedule A to this Agreement) to be included in the Regional Transmission Expansion Plan;

WHEREAS, pursuant to Section 1.5.8(j) of Schedule 6 of the Operating Agreement, Designated Entity accepted the designation as the Designated Entity for the Project and therefore has the obligation to construct the Project; and

NOW, THEREFORE, in consideration of the mutual covenants herein contained, together with other good and valuable consideration, the receipt and sufficiency is hereby mutually acknowledged by each Party, the Parties mutually covenant and agree as follows:

Article 1 – Definitions

1.0 Defined Terms.

All capitalized terms used in this Agreement shall have the meanings ascribed to them in Part I of the Tariff or in definitions either in the body of this Agreement or its attached Schedules. In the event of any conflict between defined terms set forth in the Tariff or defined terms in this Agreement, including the Schedules, such conflict will be resolved in favor of the terms as defined in this Agreement.

1.1 Confidential Information.

Any confidential, proprietary, or trade secret information of a plan, specification, pattern, procedure, design, device, list, concept, policy, or compilation relating to the Project or Transmission Owner facilities to which the Project will interconnect, which is designated as confidential by the party supplying the information, whether conveyed verbally, electronically, in writing, through inspection, or otherwise, and shall include, but may not be limited to, information relating to the producing party's technology, research and development, business affairs and pricing, land acquisition and vendor contracts relating to the Project.

1.2 Designated Entity Letter of Credit.

Designated Entity Letter of Credit shall mean the letter of credit provided by the Designated Entity pursuant to Section 1.5.8(j) of Schedule 6 of the Operating Agreement and Section 3.0 of this Agreement as security associated with the Project.

1.3 Development Schedule.

Development Schedule shall mean the schedule of milestones set forth in Schedule C of this Agreement.

1.4 Effective Date.

Effective Date shall mean the date this Agreement becomes effective pursuant to Section 2.0 of this Agreement.

1.5 Initial Operation.

Initial Operation shall mean the date the Project is (i) energized and (ii) under Transmission Provider operational dispatch.

1.6 Project.

Project shall mean the enhancement or expansion included in the PJM Regional Transmission Expansion Plan described in Schedule A of this Agreement.

1.7 Project Finance Entity.

Project Finance Entity shall mean holder, trustee or agent for holders, of any component of Project Financing.

1.8 Project Financing.

Project Financing shall mean: (a) one or more loans, leases, equity and/or debt financings, together with all modifications, renewals, supplements, substitutions and replacements thereof, the proceeds of which are used to finance or refinance the costs of the Project, any alteration, expansion or improvement to the Project, or the operation of the Project; or (b) loans and/or debt issues secured by the Project.

1.9 Reasonable Efforts.

Reasonable Efforts shall mean such efforts as are consistent with ensuring the timely and effective design and construction of the Project in a manner, which ensures that the Project, once placed in service, meets the requirements of the Project as described in Schedule B and are consistent with Good Utility Practice.

1.10 Required Project In-Service Date.

Required Project In-Service Date shall mean the date the Project is required to: (i) be completed in accordance with the Scope of Work in Schedules B this Agreement, (ii) meet the criteria outlined in Schedule D of this Agreement and (iii) be under Transmission Provider operational dispatch.

Article 2 – Effective Date and Term

2.0 Effective Date.

Subject to regulatory acceptance, this Agreement shall become effective on the date the Agreement has been executed by all Parties, or if this Agreement is filed with FERC for acceptance, rather than reported only in PJM’s Electric Quarterly Report, upon the date specified by FERC.

2.1 Term.

This Agreement shall continue in full force and effect from the Effective Date until: (i) the Designated Entity executes the Consolidated Transmission Owners Agreement; and (ii) the Project (a) has been completed in accordance with the terms and conditions of this Agreement, (b) meets all relevant required planning criteria, and (c) is under Transmission Provider’s operational dispatch; or (iii) the Agreement is terminated pursuant to Article 8 of this Agreement.

Article 3 – Security

3.0 Obligation to Provide Security.

In accordance with Section 1.5.8(j) of Schedule 6 of the Operating Agreement, Designated Entity shall provide Transmission Provider a letter of credit as acceptable to Transmission Provider (Designated Entity Letter of Credit) or cash security in the amount of \$6,792,992, which is three percent of the estimated cost of the Project. Designated Entity is required provide and maintain the Designated Entity Letter of Credit, as required by Section 1.5.8(j) of Schedule 6 of the Operating Agreement and Section 3.0 of this Agreement. The Designated Entity Letter of Credit shall remain in full force and effect for the term of this Agreement and for the duration of the obligations arising therefrom in accordance with Article 17.0. Notwithstanding the foregoing, the Designated Entity is not required to provide a letter of credit or cash security to the extent (i) the Designated Entity is a Transmission Owner and (ii) the Project was selected (A) pursuant to Operating Agreement, Schedule 6, sections 1.5.8(g), 1.5.8(h), or 1.5.8(m)(1); or (B) through a proposal window conducted pursuant to Operating Agreement, Schedule 6, section 1.5.8(c) in which no Nonincumbent Developer submitted a competing proposal to address the need identified by the Transmission Provider.

3.1 Distribution of Designated Entity Letter of Credit or Cash Security.

In the event that Transmission Provider draws upon the Designated Entity Letter of Credit or retains the cash security in accordance with Sections 7.5, 8.0, or 8.1, Transmission Provider shall distribute such funds as determined by FERC.

Article 4 – Project Construction

4.0 Construction of Project by Designated Entity.

Designated Entity shall design, engineer, procure, install and construct the Project, including any modifications thereto, in accordance with: (i) the terms of this Agreement, including but not limited to the Scope of Work in Schedule B and the Development Schedule in Schedule C; (ii) applicable reliability principles, guidelines, and standards of the Applicable Regional Reliability Council and NERC; (iii) the Operating Agreement; (iv) the PJM Manuals; and (v) Good Utility Practice.

4.1 Milestones.

4.1.0 Milestone Dates.

Designated Entity shall meet the milestone dates set forth in the Development Schedule in Schedule C of this Agreement. Milestone dates set forth in Schedule C only may be extended by Transmission Provider in writing. Failure to meet any of the milestone dates specified in Schedule C, or as extended as described in this Section 4.1.0 or Section 4.3.0 of this Agreement, shall constitute a Breach of this Agreement. Transmission Provider reasonably may extend any such milestone date, in the event of delays not caused by the Designated Entity that could not be remedied by the Designated Entity through the exercise of due diligence, or if an extension will not delay the Required Project In-Service Date specified in Schedule C of this Agreement;

provided that a corporate officer of the Designated Entity submits a revised Development Schedule containing revised milestones and showing the Project in full operation no later than the Required Project In-Service Date specified in Schedule C of this Agreement.

4.1.1 Right to Inspect.

Upon reasonable notice, Transmission Provider shall have the right to inspect the Project for the purposes of assessing the progress of the Project and satisfaction of milestones. Such inspection shall not be deemed as review or approval by Transmission Provider of any design or construction practices or standards used by the Designated Entity.

4.2 Applicable Technical Requirements and Standards.

For the purposes of this Agreement, applicable technical requirements and standards of the Transmission Owner(s) to whose facilities the Project will interconnect shall apply to the design, engineering, procurement, construction and installation of the Project to the extent that the provisions thereof relate to the interconnection of the Project to the Transmission Owner(s) facilities.

4.3 Project Modification.

4.3.0 Project Modification Process.

The Scope of Work and Development Schedule, including the milestones therein, may be revised, as required, in accordance with Transmission Provider's project modification process set forth in the PJM Manuals, or otherwise by Transmission Provider in writing. Such modifications may include alterations as necessary and directed by Transmission Provider to meet the system condition for which the Project was included in the Regional Transmission Expansion Plan.

4.3.1 Consent of Transmission Provider to Project Modifications.

Designated Entity may not modify the Project without prior written consent of Transmission Provider, including but not limited to, modifications necessary to obtain siting approval or necessary permits, which consent shall not be unreasonably withheld, conditioned, or delayed.

4.3.2 Customer Facility Interconnections And Transmission Service Requests.

Designated Entity shall perform or permit the engineering and construction necessary to accommodate the interconnection of Customer Facilities to the Project and transmission service requests that are determined necessary for such interconnections and transmission service requests in accordance with Parts IV and VI, and Parts II and III, respectively, of the Tariff.

4.4 Project Tracking.

The Designated Entity shall provide regular, quarterly construction status reports in writing to Transmission Provider. The reports shall contain, but not be limited to, updates and information

specified in the PJM Manuals regarding: (i) current engineering and construction status of the Project; (ii) Project completion percentage, including milestone completion; (iii) current target Project or phase completion date(s); (iv) applicable outage information; and (v) cost expenditures to date and revised projected cost estimates for completion of the Project. Transmission Provider shall use such status reports to post updates regarding the progress of the Project.

4.5 Exclusive Responsibility of Designated Entity.

Designated Entity shall be solely responsible for all planning, design, engineering, procurement, construction, installation, management, operations, safety, and compliance with applicable laws and regulations associated with the Project, including but not limited to obtaining all necessary permits, siting, and other regulatory approvals. Transmission Provider shall have no responsibility to manage, supervise, or ensure compliance or adequacy of same.

Article 5 – Coordination with Third-Parties

5.0 Interconnection Coordination Agreement with Transmission Owner(s).

By the dates specified in the Development Schedule in Schedule C of this Agreement, Designated Entity shall execute or request to file unexecuted with the Commission: (a) an Interconnection Coordination Agreement; and (b) an interconnection agreement among and between Designated Entity, Transmission Provider, and the Transmission Owner(s) to whose facilities the Project will interconnect.

5.1 Connection with Entities Not a Party to the Consolidated Transmission Owners Agreement.

Designated Entity shall not permit any part of the Project facilities to be connected with the facilities of any entity which is not: (i) a party to Consolidated Transmission Owners Agreement without an interconnection agreement that contains provisions for the safe and reliable interconnection and operation of such interconnection in accordance with Good Utility Practice, and principles, guidelines and standards of the Applicable Regional Reliability Council and NERC or comparable requirements of an applicable retail tariff or agreement approved by appropriate regulatory authority; or (ii) a party to a separate Designated Entity Agreement.

Article 6 – Insurance

6.0 Designated Entity Insurance Requirements.

Designated Entity shall obtain and maintain in full force and effect such insurance as is consistent with Good Utility Practice. The Transmission Provider shall be included as an Additional Insured in the Designated Entity's applicable liability insurance policies. The Designated Entity shall provide evidence of compliance with this requirement upon request by the Transmission Provider.

6.1 Subcontractor Insurance.

In accord with Good Utility Practice, Designated Entity shall require each of its subcontractors to maintain and, upon request, provide Designated Entity evidence of insurance coverage of types, and in amounts, commensurate with the risks associated with the services provided by the subcontractor. Bonding and hiring of contractors or subcontractors shall be the Designated Entity's discretion, but regardless of bonding or the existence or non-existence of insurance, the Designated Entity shall be responsible for the performance or non-performance of any contractor or subcontractor it hires.

Article 7 – Breach and Default

7.0 Breach.

Except as otherwise provided in Article 10, a Breach of this Agreement shall include:

(a) The failure to comply with any term or condition of this Agreement, including but not limited to, any Breach of a representation, warranty, or covenant made in this Agreement, and failure to provide and maintain security in accordance with Section 3.0 of this Agreement;

(b) The failure to meet a milestone or milestone date set forth in the Development Schedule in Schedule C of this Agreement, or as extended in writing as described in Sections 4.1.0 and 4.3.0 of this Agreement;

(c) Assignment of this Agreement in a manner inconsistent with the terms of this Agreement; or

(d) Failure of any Party to provide information or data required to be provided to another Party under this Agreement for such other Party to satisfy its obligations under this Agreement.

7.1 Notice of Breach.

In the event of a Breach, a Party not in Breach of this Agreement shall give written notice of such Breach to the breaching Party, and to any other persons, including a Project Finance Entity, if applicable, that the breaching Party identifies in writing prior to the Breach. Such notice shall set forth, in reasonable detail, the nature of the Breach, and where known and applicable, the steps necessary to cure such Breach.

7.2 Cure and Default.

A Party that commits a Breach and does not take steps to cure the Breach pursuant to Section 7.3 shall be in Default of this Agreement.

7.3 Cure of Breach.

The breaching Party may: (i) cure the Breach within thirty days from the receipt of the notice of Breach or other such date as determined by Transmission Provider to ensure that the Project meets its Required Project In-Service Date set forth in Schedule C; or, (ii) if the Breach cannot be cured within thirty days but may be cured in a manner that ensures that the Project meets the Required Project In-Service Date for the Project, within such thirty day time period, commences in good faith steps that are reasonable and appropriate to cure the Breach and thereafter diligently pursue such action to completion.

7.4 Re-evaluation if Breach Not Cured.

In the event that a breaching Party does not cure a Breach in accordance with Section 7.3 of this Agreement, Transmission Provider shall conduct a re-evaluation pursuant to Section 1.5.8(k) of Schedule 6 of the Operating Agreement. If based on such re-evaluation, the Project is retained in the Regional Transmission Expansion Plan and the Designated Entity's designation for the Project also is retained, the Parties shall modify this Agreement, including Schedules, as necessary. In all other events, Designated Entity shall be considered in Default of this Agreement, and this Agreement shall terminate in accordance with Section 8.1 of this Agreement.

7.5 Remedies.

Upon the occurrence of an event of Default, the non-Defaulting Party shall be entitled to: (i) commence an action to require the Defaulting Party to remedy such Default and specifically perform its duties and obligations hereunder in accordance with the terms and conditions hereof; (ii) suspend performance hereunder; and (iii) exercise such other rights and remedies as it may have in equity or at law. Upon Default by Designated Entity, Transmission Provider may draw upon the Designated Entity Letter of Credit. Nothing in this Section 7.5 is intended in any way to affect the rights of a third-party to seek any remedy it may have in equity or at law from the Designated Entity resulting from Designated Entity's Default of this Agreement.

7.6 Remedies Cumulative.

No remedy conferred by any provision of this Agreement is intended to be exclusive of any other remedy and each and every remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute or otherwise. The election of any one or more remedies shall not constitute a waiver of the right to pursue other available remedies.

7.7 Waiver.

Any waiver at any time by any Party of its rights with respect to a Breach or Default under this Agreement, or with respect to any other matters arising in connection with this Agreement, shall

not be deemed a waiver or continuing waiver with respect to any other Breach or Default or other matter.

Article 8 – Early Termination

8.0 Termination by Transmission Provider.

In the event that: (i) pursuant to Section 1.5.8(k) of Schedule 6 of the Operating Agreement, Transmission Provider determines to remove the Project from the Regional Transmission Expansion Plan and/or not to retain Designated Entity's status for the Project; (ii) Transmission Provider otherwise determines pursuant to Regional Transmission Expansion Planning Protocol in Schedule 6 of the Operating Agreement that the Project is no longer required to address the specific need for which the Project was included in the Regional Transmission Expansion Plan; or (iii) an event of force majeure, as defined in section 10.0 of this Attachment KK, or other event outside of the Designated Entity's control that, with the exercise of Reasonable Efforts, Designated Entity cannot alleviate and which prevents the Designated Entity from satisfying its obligations under this Agreement, Transmission Provider may terminate this Agreement by providing written notice of termination to Designated Entity, which shall become effective the later of sixty calendar days after the Designated Entity receives such notice or other such date the FERC establishes for the termination. In the event termination pursuant to this Section 8.0 is based on (ii) or (iii) above, Transmission Provider shall not have the right to draw upon the Designated Entity Letter of Credit or retain the cash security and shall cancel the Designated Entity Letter of Credit or return the cash security within thirty days of the termination of this Agreement.

8.1 Termination by Default.

This Agreement shall terminate in the event a Party is in Default of this Agreement in accordance with Sections 7.2 or 7.4 of this Agreement. Upon Default by Designated Entity, Transmission Provider may draw upon the Designated Entity Letter of Credit or retain the cash security.

8.2 Filing at FERC.

Transmission Provider shall make the appropriate filing with FERC as required to effectuate the termination of this Agreement pursuant to this Article 8.

Article 9 – Liability and Indemnity

9.0 Liability.

For the purposes of this Agreement, Transmission Provider's liability to the Designated Entity, any third-party, or any other person arising or resulting from any acts or omissions associated in any way with performance under this Agreement shall be limited in the same manner and to the same extent that Transmission Provider's liability is limited to any Transmission Customer, third-party or other person under Section 10.2 of the Tariff arising or resulting from any act or omission in any way associated with service provided under the Tariff or any Service Agreement thereunder.

9.1 Indemnity.

For the purposes of this Agreement, Designated Entity shall at all times indemnify, defend, and save Transmission Provider and its directors, managers, members, shareholders, officers and employees harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third-parties, arising out of or resulting from the Transmission Provider's acts or omissions associated with the performance of its obligations under this Agreement to the same extent and in the same manner that a Transmission Customer is required to indemnify, defend and save Transmission Provider and its directors, managers, members, shareholders, officers and employees harmless under Section 10.3 of the Tariff.

Article 10 – Force Majeure

10.0 Force Majeure.

For the purpose of this section, an event of force majeure shall mean any cause beyond the control of the affected Party, including but not restricted to, acts of God, flood, drought, earthquake, storm, fire, lightening, epidemic, war, riot, civil disturbance or disobedience, labor dispute, labor or material shortage, sabotage, acts of public enemy, explosions, orders, regulations or restrictions imposed by governmental, military, or lawfully established civilian authorities, which in any foregoing cases, by exercise of due diligence, it has been unable to overcome. An event of force majeure does not include: (i) a failure of performance that is due to an affected Party's own negligence or intentional wrongdoing; (ii) any removable or remedial causes (other than settlement of a strike or labor dispute) which an affected Party fails to remove or remedy within a reasonable time; or (iii) economic hardship of an affected Party.

10.1 Notice.

A Party that is unable to carry out an obligation imposed on it by this Agreement due to Force Majeure shall notify the other Party in writing within a reasonable time after the occurrence of the cause relied on.

10.2 Duration of Force Majeure.

A Party shall not be responsible for any non-performance or considered in Breach or Default under this Agreement, for any deficiency or failure to perform any obligation under this Agreement to the extent that such failure or deficiency is due to Force Majeure. A Party shall be excused from whatever performance is affected only for the duration of the Force Majeure and while the Party exercises Reasonable Efforts to alleviate such situation. As soon as the non-performing Party is able to resume performance of its obligations excused because of the occurrence of Force Majeure, such Party shall resume performance and give prompt notice thereof to the other Party. In the event that Designated Entity is unable to perform any of its obligations under this Agreement

because of an occurrence of Force Majeure, Transmission Provider may terminate this Agreement in accordance with Section 8.0 of this Agreement.

10.3 Breach or Default of or Force Majeure under Interconnection Coordination Agreement

If either of the following events prevents Designated Entity from performing any of its obligations under this Agreement, such event shall be considered a Force Majeure event under this Agreement and the provisions of this Article 10 shall apply: (i) a breach or default of the Interconnection Coordination Agreement associated with the Project by a party to the Interconnection Coordination Agreement other than the Designated Entity; or (ii) an event of Force Majeure under the Interconnection Coordination Agreement associated with the Project.

Article 11 – Assignment

11.0 Assignment.

A Party may assign all of its rights, duties, and obligations under this Agreement in accordance with this Section 11.0. Except for assignments described in Section 11.1 of this Agreement that may not result in the assignment of all rights, duties, and obligations under this Agreement to a Project Finance Entity, no partial assignments will be permitted. No Party may assign any of its rights or delegate any of its duties or obligations under this Agreement without prior written consent of the other Party, which consent shall not be unreasonably withheld, conditioned, or delayed. Any such assignment or delegation made without such written consent shall be null and void. Assignment by the Designated Entity shall be contingent upon, prior to the effective date of the assignment: (i) the Designated Entity or assignee demonstrating to the satisfaction of Transmission Provider that the assignee has the technical competence and financial ability to comply with the requirements of this Agreement and to construct the Project consistent with the assignor's cost estimates for the Project; and (ii) the assignee is eligible to be a Designated Entity for the Project pursuant to Sections 1.5.8(a) and (f) of Schedule 6 of the Operating Agreement. Except as provided in an assignment to a Finance Project Entity to the contrary, for all assignments by any Party, the assignee must assume in a writing, to be provided to the other Party, all rights, duties, and obligations of the assignor arising under this Agreement. Any assignment described herein shall not relieve or discharge the assignor from any of its obligations hereunder absent the written consent of the other Party. In no circumstance, shall an assignment of this Agreement or any of the rights, duties, and obligations under this Agreement diminish the rights of the Transmission Provider under this Agreement, the Tariff, or the Operating Agreement. Any assignees that will construct, maintain, or operate the Project shall be subject to, and comply with the terms of this Agreement, the Tariff and the Operating Agreement.

11.1 Project Finance Entity Assignments

11.1.1 Assignment to Project Finance Entity

If an arrangement between the Designated Entity and a Project Finance Entity provides that the Project Finance Entity may assume any of the rights, duties and obligations of the Designated Entity under this Agreement or otherwise provides that the Project Finance Entity may cure a Breach of this Agreement by the Designated Entity, the Project Finance Entity may be assigned this Agreement or any of the rights, duties, or obligations hereunder only upon written consent of the Transmission Provider, which consent shall not be unreasonably withheld, conditioned, or delayed. In no circumstance, shall an assignment of this Agreement or any of the rights, duties, and obligations under this Agreement diminish the rights of the Transmission Provider under this Agreement, the Tariff, or the Operating Agreement.

11.1.2 Assignment By Project Finance Entity

A Project Finance Entity that has been assigned this Agreement or any of the rights, duties or obligations under this Agreement or otherwise is permitted to cure a Breach of this Agreement, as described pursuant to Section 11.1.1 above, may assign this Agreement or any of the rights, duties or obligations under this Agreement to another entity not a Party to this Agreement only: (i) upon the Breach of this Agreement by the Designated Entity; and (ii) with the written consent of the Transmission Provider, which consent shall not be unreasonably withheld, conditioned, or delayed. In no circumstance, shall an assignment of this Agreement or any of the rights, duties, and obligations under this Agreement alter or diminish the rights of the Transmission Provider under this Agreement, the Tariff, or the Operating Agreement. Any assignees that will construct, maintain, or operate the Project shall be subject to, and comply with the Tariff and Operating Agreement.

Article 12 – Information Exchange

12.0 Information Access.

Subject to Applicable Laws and Regulations, each Party shall make available to the other Party information necessary to carry out each Party's obligations and responsibilities under this Agreement, the Operating Agreement, and the Tariff. Such information shall include but not be limited to, information reasonably requested by Transmission Provider to prepare the Regional Transmission Expansion Plan. The Parties shall not use such information for purposes other than to carry out their obligations or enforce their rights under this Agreement, the Operating Agreement, and the Tariff.

12.1 Reporting of Non-Force Majeure Events.

Each Party shall notify the other Party when it becomes aware of its inability to comply with the provisions of this Agreement for a reason other than Force Majeure. The Parties agree to cooperate with each other and provide necessary information regarding such inability to comply, including,

but not limited to, the date, duration, reason for the inability to comply, and corrective actions taken or planned to be taken with respect to such inability to comply. Notwithstanding the foregoing, notification, cooperation or information provided under this Section 12.1 shall not entitle the receiving Party to allege a cause of action for anticipatory Breach of this Agreement.

Article 13 – Confidentiality

13.0 Confidentiality.

For the purposes of this Agreement, information will be considered and treated as Confidential Information only if it meets the definition of Confidential Information set forth in Section 1.1 of this Agreement and is clearly designated or marked in writing as “confidential” on the face of the document, or, if the information is conveyed orally or by inspection, if the Party providing the information orally informs the Party receiving the information that the information is “confidential.” Confidential Information shall be treated consistent with Section 18.17 of the Operating Agreement. A Party shall be responsible for the costs associated with affording confidential treatment to its information.

Article 14 – Regulatory Requirements

14.0 Regulatory Approvals.

Designated Entity shall seek and obtain all required government authority authorizations or approvals as soon as reasonably practicable, and by the milestone dates set forth in the Development Schedule of Schedule C of this Agreement, as applicable.

Article 15 – Representations and Warranties

15.0 General.

Designated Entity hereby represents, warrants and covenants as follows, with these representations, warranties, and covenants effective as to the Designated Entity during the full time this Agreement is effective:

15.0.1 Good Standing

Designated Entity is duly organized or formed, as applicable, validly existing and in good standing under the laws of its State of organization or formation, and is in good standing under the laws of the respective State(s) in which it is incorporated.

15.0.2 Authority

Designated Entity has the right, power and authority to enter into this Agreement, to become a Party thereto and to perform its obligations hereunder. This Agreement is a legal, valid and binding obligation of Designated Entity, enforceable against Designated Entity in accordance with its terms, except as the enforceability thereof may be limited by applicable bankruptcy, insolvency, reorganization or other similar laws affecting creditors' rights generally and by general equitable principles (regardless of whether enforceability is sought in a proceeding in equity or at law).

15.0.3 No Conflict.

The execution, delivery and performance of this Agreement does not violate or conflict with the organizational or formation documents, or bylaws or operating agreement, of Designated Entity, or any judgment, license, permit, order, material agreement or instrument applicable to or binding upon Designated Entity or any of its assets.

Article 16 – Operation of Project

16.0 Initial Operation.

The following requirements shall be satisfied prior to Initial Operation of the Project:

16.0.1 Execution of the Consolidated Transmission Owners Agreement

Designated Entity has executed the Consolidated Transmission Owners Agreement and is able to meet all requirements therein.

16.0.2 Execution of an Interconnection Agreement

Designated Entity has executed an Interconnection Agreement with the Transmission Owner(s) to whose facilities the Project will interconnect, or such agreement has been filed unexecuted with the Commission.

16.0.3 Operational Requirements

The Project must meet all applicable operational requirements described in the PJM Manuals.

16.0.4 Parallel Operation

Designated Entity shall have all necessary systems and personnel in place to allow for parallel operation of its facilities with the facilities of the Transmission Owner(s) to which the Project is interconnected consistent with the Interconnection Coordination Agreement associated with the Project.

16.0.5 Synchronization

Designated Entity shall have received any necessary authorization from Transmission Provider and the Transmission Owner(s) to whose facilities the Project will interconnect to synchronize with the Transmission System or to energize, as applicable, per the determination of Transmission Provider, the Project.

16.1 Partial Operation.

If the Project is to be completed in phases, the completed part of the Project may operate prior to completion and Required Project In-Service Date set forth in Schedule C of this Agreement, provided that: (i) Designated Entity has notified Transmission Provider of the successful completion of the Project phase; (ii) Transmission Provider has determined that partial operation of the Project will not negatively impact the reliability of the Transmission System; (iii) Designated Entity has demonstrated that the requirements for Initial Operation set forth in Section 16.0 of this Agreement have been met for the Project phase; and (iv) partial operation of the Project is consistent with Applicable Laws and Regulations, Applicable Reliability Standards, and Good Utility Practice.

Article 17 – Survival

17.0 Survival of Rights.

The rights and obligations of the Parties in this Agreement shall survive the termination, expiration, or cancellation of this Agreement to the extent necessary to provide for the determination and enforcement of said obligations arising from acts or events that occurred while this Agreement was in effect. The Liability and Indemnity provisions in Article 9 also shall survive termination, expiration, or cancellation of this Agreement.

Article 18 – Non-Standard Terms and Conditions

18.0 Schedule E – Addendum of Non-Standard Terms and Conditions.

Subject to FERC acceptance or approval, the Parties agree that the terms and conditions set forth in the attached Schedule E are hereby incorporated by reference, and made a part of, this Agreement. In the event of any conflict between a provision of Schedule E that FERC has accepted and any provision of the standard terms and conditions set forth in this Agreement that relates to the same subject matter, the pertinent provision of Schedule E shall control.

Article 19 – Miscellaneous

19.0 Notices.

Any notice or request made to or by any Party regarding this Agreement shall be made by U.S. mail or reputable overnight courier to the addresses set forth below:

Transmission Provider:
PJM Interconnection, L.L.C.
2750 Monroe Blvd.
Audubon, PA 19403
Attention: Senior Manager, Transmission Policy and Project Management

Designated Entity:
Transource Energy, LLC
1 Riverside Plaza,
Columbus, Ohio 43215-2372

Attention: Ryan L. Houk
rlhouk@aep.com

With copies to:
Jessica A. Cano
jacano@aep.com

Benjamin B. Leece
bleece@aep.com

Evan K. Dean
edean@aep.com

19.1 No Transmission Service.

This Agreement does not entitle the Designated Entity to take Transmission Service under the Tariff.

19.2 No Rights.

Neither this Agreement nor the construction or the financing of the Project entitles Designated Entity to any rights related to Customer-Funded Upgrades set forth in Subpart C of Part VI of the Tariff.

19.3 Standard of Review.

Future modifications to this Agreement by the Parties or the FERC shall be subject to the just and reasonable standard and the Parties shall not be required to demonstrate that such modifications

are required to meet the “public interest” standard of review as described in *United Gas Pipe Line Co. v. Mobile Gas Service Corp.*, 350 U.S. 332 (1956), and *Federal Power Commission v. Sierra Pacific Power Co.*, 350 U.S. 348 (1956).

19.4 No Partnership.

Notwithstanding any provision of this Agreement, the Parties do not intend to create hereby any joint venture, partnership, association taxable as a corporation, or other entity for the conduct of any business for profit.

19.5 Headings.

The Article and Section headings used in this Agreement are for convenience only and shall not affect the construction or interpretation of any of the provisions of this Agreement.

19.6 Interpretation.

Wherever the context may require, any noun or pronoun used herein shall include the corresponding masculine, feminine or neuter forms. The singular form of nouns, pronouns and verbs shall include the plural and vice versa.

19.7 Severability.

Each provision of this Agreement shall be considered severable and if for any reason any provision is determined by a court or regulatory authority of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions of this Agreement shall continue in full force and effect and shall in no way be affected, impaired or invalidated, and such invalid, void or unenforceable provision shall be replaced with valid and enforceable provision or provisions which otherwise give effect to the original intent of the invalid, void or unenforceable provision.

19.8 Further Assurances.

Each Party hereby agrees that it shall hereafter execute and deliver such further instruments, provide all information and take or forbear such further acts and things as may be reasonably required or useful to carry out the intent and purpose of this Agreement and as are not inconsistent with the terms hereof.

19.9 Counterparts.

This Agreement may be executed in multiple counterparts to be construed as one effective as of the Effective Date.

19.10 Governing Law

This Agreement shall be governed under the Federal Power Act and Delaware law, as applicable.

19.11 Incorporation of Other Documents.

The Tariff, the Operating Agreement, and the Reliability Assurance Agreement, as they may be amended from time to time, are hereby incorporated herein and made a part hereof.

[Signature Page Follows]

SCHEDULE A

Description of Projects

PJM Baseline Upgrade ID	Description of Projects	Security
b2743.1	Tap the Conemaugh - Hunterstown 500 kV line & create new Rice 500 kV & 230 kV stations. Install two 500/230 kV transformers, operated together.	\$3,197,780
b2743.5	Build new 230 kV double circuit line between Rice and Ringgold 230 kV, operated as a single circuit.	\$3,595,212

SCHEDULE B

Scope of Work

PJM Baseline Upgrade ID	Scope of Work
b2743.1	Tap the Conemaugh - Hunterstown 500 kV line & create new Rice 500 kV & 230 kV stations. Install two 500/230 kV transformers, operated together.
b2743.5	Build new 230 kV double circuit line between Rice and Ringgold 230 kV, operated as a single circuit. The new Rice – Ringgold Line will include approximately 27 miles of double-circuit 230 kV alternating current overhead transmission line configured in a six-wired arrangement (operated as a single circuit), rated at least 1660 MVA summer normal and summer emergency, between the existing Ringgold Substation and the new Rice Substation.

SCHEDULE C

Development Schedule

Milestones				
PJM Baseline Upgrade ID	Execute Interconnection Coordination Agreement: On or before this date, Designated Entity must execute the Interconnection Coordination Agreement or request the agreement be filed unexecuted.	Demonstrate Adequate Project Financing: On or before this date, Designated Entity must demonstrate that adequate project financing has been secured. Project financing must be maintained for the term of this Agreement	Acquisition of all necessary federal, state, county, and local site permits: On or before this date, Designated Entity must demonstrate that all required federal, state, county and local site permits have been acquired.	Required Project In-Service Date: On or before this date, Designated Entity must: (i) demonstrate that the Project is completed in accordance with the Scope of Work in Schedules B of this Agreement; (ii) meets the criteria outlined in Schedule D of this Agreement; and (iii) is under Transmission Provider operational dispatch.
b2743.1	03/31/2027	03/31/2027	11/30/2027	01/19/2029
b2743.5	03/31/2027	03/31/2027	11/30/2027	01/19/2029

SCHEDULE D

PJM Planning Requirements and Criteria and Required Ratings

PJM Baseline Upgrade ID	Required Ratings	Planning Criteria
b2743.1	<u>Rice Substation:</u> <ul style="list-style-type: none">• Two 900 MVA 500/230 kV transformers	Congestion Relief - Economic
b2743.5	<u>Rice – Ringgold Line:</u> <ul style="list-style-type: none">• 1660 / 1660 MVA summer normal / emergency<ul style="list-style-type: none">○ Two 230kV circuits each with the following parameters:<ul style="list-style-type: none">▪ R = 0.0025299 pu▪ X = 0.0275589 pu▪ B = 0.114035 pu	Congestion Relief - Economic

SCHEDULE E

Non-Standard Terms and Conditions

I. Project Development

The Parties acknowledge and agree that Transource Energy, LLC may utilize its wholly owned subsidiaries, Transource Pennsylvania, LLC and Transource Maryland, LLC (the “Transource Subsidiaries”), to perform its obligations to design, engineer, procure, install, and construct the Project.

Transource Pennsylvania, LLC shall design, engineer, procure, install, construct, own, operate and maintain the portion of the Project to be located in the Commonwealth of Pennsylvania, and Transource Maryland, LLC shall design, engineer, procure, install, construct, own, operate, and maintain the portion of the Project to be located in the State of Maryland. Transource Energy, LLC shall provide the overall coordination for the Project work.

The Transource Subsidiaries shall obtain all necessary permits, siting, and other regulatory approvals to undertake their respective portions of the Project and shall perform their work in accordance with the terms of this Designated Entity Agreement.

In accordance with Sections 5.0, 16.0.1, and 16.0.2, of this Designated Entity Agreement:

- (a) Transource Energy, LLC, Transource Pennsylvania, LLC and Transource Maryland, LLC shall each execute the Consolidated Transmission Owners Agreement;
- (b) Transource Energy, LLC, Transource Pennsylvania, LLC and Transource Maryland, LLC shall each execute the Interconnection Coordination Agreement for the Project; and
- (c) The Transource Subsidiaries each shall execute interconnection agreements with Transmission Owners with whom their respective facilities will interconnect.

II. ROE Cost Commitment

- A. The “ROE Cost Commitment” is \$210 million.
- B. Consistent with the proposal submitted by Transource on February 27, 2015, and with the settlement approved by FERC on January 28, 2018 in Docket No. ER17-419, Transource commits to the following terms and conditions relevant to the Project:
 - (a) The Transource Subsidiaries shall be entitled to recover the FERC approved return on equity plus incentives on the costs incurred for the Project up to the ROE Cost Commitment;

- (b) The Transource Subsidiaries shall be entitled to recover the FERC approved return on equity on the costs incurred for the Project above the ROE Cost Commitment, but shall forego any return on equity incentives approved by FERC (including the RTO participation adder) for the project cost portion that exceeds the ROE Cost Commitment; and
 - (c) The Transource Subsidiaries commit to cap the equity component of the capital structure for the competitive elements of the Project at 50% beginning on the earliest of (a) the Project's in-service date, (b) the date non-construction debt (i.e., permanent financing) is put in place, or (c) June 1, 2020.
- C. Inclusion of the ROE Cost Commitment in this Designated Entity Agreement is not intended to preempt the right of any party to seek modifications to be ordered by FERC or otherwise challenge the recovery of costs through the FERC ratemaking process.
- D. The Transource Subsidiaries shall notify PJM in writing within a reasonable time after they become aware of a condition that would result in (i) the ROE Cost Commitment being exceeded or (ii) triggering any exclusions to the ROE Cost Commitment. PJM, in turn, will communicate such information to stakeholders via notice posted on PJM's website and to FERC by written notice.

ATTACHMENT 4

Siting Study

9A WEST PROJECT

Rice-Ringgold 230 kV Transmission Line Project

Prepared for:

Transource PA, LLC and Transource MD, LLC
1 Riverside Plaza
Columbus, Ohio 43215



Prepared by:

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, Pennsylvania 19428



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Key Terminology

Alternative Routes	A combination of Study Segments that form routes that connect the Project Endpoints and will be used for analysis and comparison
Conceptual Routes	Initial routes for the project that adhere to a series of general siting and technical guidelines
Constraints	Specific areas that should be avoided, to the extent reasonably practicable, during the route development and site selection process, recognizing that it is not possible to completely avoid all constraints
Distribution Line	An electric line that delivers power from a substation to households and businesses
Opportunity Feature	Areas where the transmission line may have less potential impacts to area land uses and the natural and human environment
Project Endpoint	The project starting and ending point(s), which may include substations, switch stations, tap points, or other locations defined by the Company's planners and engineers
Proposed Route	The alignment on which the applicant/Siting Team proposes to construct a transmission line.
Project Study Area	The territory in which line route alternatives can be sited to feasibly meet the Project's functional requirements
Siting Team	A multidisciplinary team of experts that includes engineers, siting specialists, natural resource specialists, construction managers, and right-of-way agents
Study Segments	Study Segments are partial alignments that when combined form a complete route
Substation	Substations are facilities that transform electric power from high to low, or the reverse, and is composed of an enclosed assemblage of equipment, e.g., switches, circuit breakers, buses, and transformers, through which electric energy is passed for the purpose of switching or modifying its characteristics
Transmission Line	Electric line that moves bulk electric power from a generating plant to a substation or between substations

ACRONYMS

ACEP	Agricultural Conservation Easement Program
amsl	Above Mean Sea Level
APE	Area of Potential Effect
ASA	Agricultural Security Areas
BG&E	Baltimore Gas and Electric
BLM	Bureau of Land Management
CFR	Code of Federal Regulation
COMAR	Code of Maryland Regulation
CWF	Cold Water Fishes
ESRI	Environmental Systems Research Institute
EU	Existing Use
EV	Exceptional Value
FAA	Federal Aviation Administration
FCALPB	Franklin County Agricultural Land Preservation
FCC	Franklin County Commissioners
FE	FirstEnergy
FEMA	Federal Emergency Management Agency
FRPP	Farm and Ranch Lands Protection Program
GIS	Geographic information system
GPS	Global positioning system
HQ	High Quality
HQ-CWF	High Quality-Cold Water Fishes
IBA	Important Bird Area
IEC Project	Independence Energy Connection Project
kV	Kilovolt
MALPF	Maryland Agricultural Land Preservation Foundation
MALPP	Maryland Agricultural Land Preservation Program
MF	Migratory Fishes
MDA	Maryland Department of Agriculture
MDE	Maryland Department of Environment
MDNR	Maryland Department of Natural Resources

MDPSC	Maryland Public Service Commission
MERLIN	Maryland Environmental Resource and Land Inform
MET	Maryland Environmental Trust
MHT	Maryland Historical Trust
MRLC	Multi-resolution land characteristics
MRLP	Maryland Rural Legacy Program
NAI	Natural Area Inventories
NAIP	National Agricultural Imagery Project
NCED	National Conservation Easement Database
NERC	North American Electric Reliability Corporation
NESC	National Electric Safety Code
NHD	National Hydrography Dataset
NLCD	National Land Cover Database
NPDES	National Pollutant Discharge Elimination System
NRCS	National Resources Conservation Service
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
NWPS	National Wilderness Preservation System
PADCNR	Pennsylvania Department of Conservation and Natural Resources
PADEP	Pennsylvania Department of Environmental Protection
PA-SHARE	Pennsylvania's Historic and Archaeological Resource Exchange
PAPUC	Pennsylvania Public Utility Commission
PDA	Pennsylvania Department of Agriculture
PEM	Palustrine Emergent
PFBC	Pennsylvania Fish and Boat Commission
PFO	Palustrine Forested
PGC	Pennsylvania Game Commission
PHMC	Pennsylvania Historic and Museum Commission
PJM	PJM Interconnection, LLC
POTC	Pennsylvania Ornithological Technical Committee
Project	9A West Project
PSS	Palustrine Scrub Shrub

ROW	Right-of-way
SHPO	State Historic Preservation Office
SR	State Route
SSPRA	Sensitive Species Project Review Area
SSURGO	Soil Survey Geographic Database
TEAs	Targeted Ecological Areas
TNC	The Nature Conservancy
T&E	Threatened and endangered (species)
Transource	Transource Energy
TSF	Trout Stocking
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WMA	Wildlife Management Areas
WWF	Warm Water Fishes

1.0 PROJECT OVERVIEW

PJM Interconnection, LLC (PJM), the regional transmission operator, solicited proposals in 2014 to solve an electrical congestion issue on the grid. Numerous transmission providers proposed solutions to solve the problem, and PJM evaluated each proposal to determine the best solution. In March 2016, PJM selected Transource Energy’s (Transource) proposal as the best solution to solve the problem. Transource’s proposal, the Independence Energy Connection Project (IEC Project), consisted of a new 230 kilovolt (kV) transmission line, a new 500/230 kV substation, and several incumbent upgrades (Project). In 2016, Transource initiated the siting of the Rice-Ringgold 230 kV Transmission Line (**IEC West Project**), which begins in Franklin County, Pennsylvania at Transource’s proposed new Rice Substation and terminates at the existing Ringgold Substation in Washington County, Maryland (**Figure 1**). A Siting Study conducted in 2017 resulted in the identification of three alternative routes, of which Alternative Route C was considered by Transource to be the Proposed Route due to its reduced impact on the communities and natural environment. In 2017, the Siting Application for the IEC West Project, which included the 2017 Siting Study, was submitted to the Pennsylvania Public Utility Commission (PAPUC), however subsequently the project was placed on hold by PJM as they re-evaluated the need.

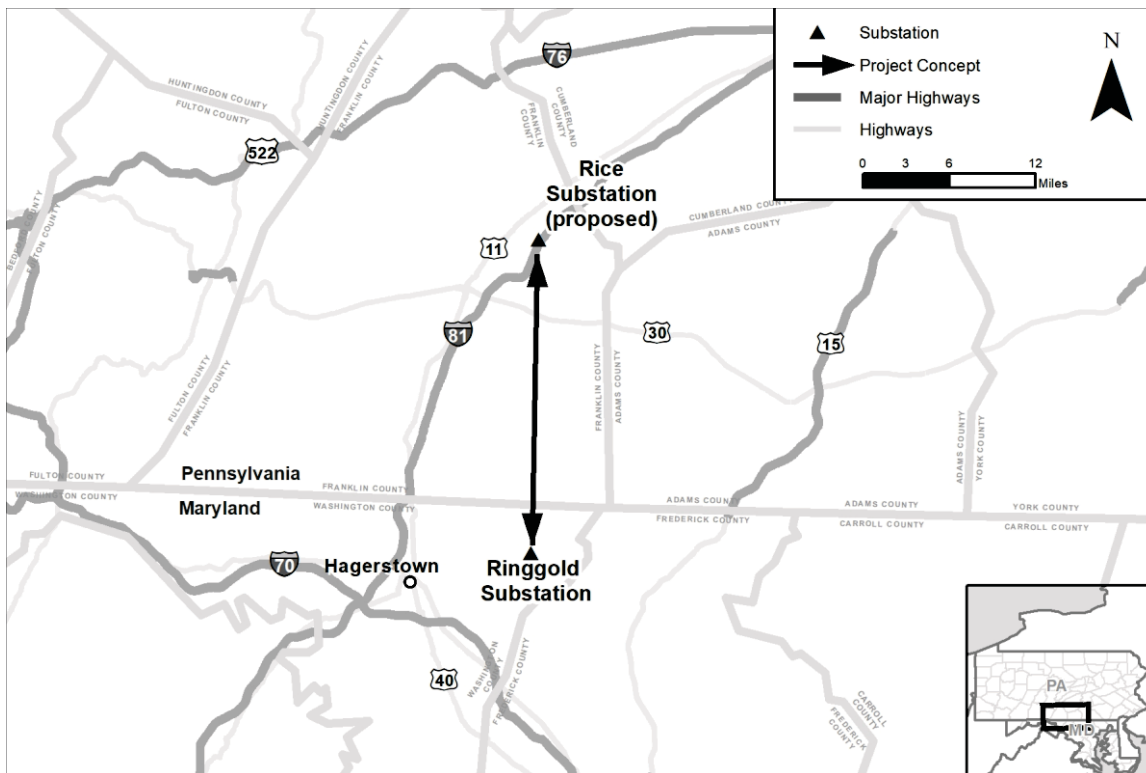


Figure 1: Project Location Map

In 2025, PJM reaffirmed the need for the Rice-Ringgold 230 kV Transmission Line, which was renamed to the 9A West Project (Project), and Transource's role in completing the project. With the renewal of this portion of the original project, the initial step for Transource was to re-evaluate the 2017 Siting Study to reflect current conditions applicable to the 9A West Project and update the siting study. This process involved conducting field reviews to reassess the Project Study Area, as described further below, updating the metrics analysis process to account for amended data sources, and updating the 2017 Siting Study to address the changes in the landscape and the data. The field reviews confirmed the need for modifying one of the alternative route options (Alternative Route A) due to new residential development and that the other alternatives, including the Proposed Route, were still viable alternatives. 2026 field reviews and evaluation of the revised metrics supported the 2017 Siting Study conclusion to select Alternative Route C as the Proposed Route for the current 9A West Project.

The following report retains most of the text and siting logic of the 2017 Siting Study but has been updated to reflect the new name (**9A West Project**), current field conditions, use of new or modified data sources, and a few new conclusions based on the new data sources. Specific sections of the report, such as the Project Timeline and Overview of Regulatory Approvals (Section 1.2) and Public Involvement Process (Section 2.5), retain details of the IEC West Project process as well as the more current 9A West Project process to provide cohesiveness for the Rice-Ringgold 230 kV Transmission Line Project.

1.1 Project Characteristics

1.1.1 Project Endpoints

The 9A West Project involves the development of an approximate 25 to 30 mile long 230 kV double-circuit overhead electric transmission line. The northern extent of the 9A West Project will tap into First Energy's (FE) Hunterstown-Conemaugh 500 kV transmission line via two new 500 kV transmission lines, approximately 1.5 mile in length, to be constructed by FE. These two new 500 kV transmission lines will supply power to the proposed Rice Substation to be owned and operated by Transource. Based on modifications made in 2026 as discussed below, the Rice 500/230 kV Substation will be located between Rice Road and Interstate-81 (I-81) situated due west of the interstate in Greene Township, Franklin County, Pennsylvania. The southern extent of the Project will terminate into the existing FE Ringgold 230/138 kV Substation located near Smithsburg in Washington County, Maryland. The identification of the location of the proposed Rice 500/230 kV Substation is further detailed in Section 3.0.

1.1.2 Transmission Line, Substation Design, and ROW Requirements

The 9A West Project requires new right-of-way (ROW) with a typical width of 130 feet (**Figure 2**). Proposed structures vary in height, footprint, and type depending on location. However, the 9A West Project will generally be constructed using galvanized steel double-circuit monopoles. The average height for the galvanized steel double-circuit structures is approximately 130 feet (**Figure 2**). Typical span lengths can range from approximately 800 feet; however, actual span lengths will vary depending on the location.

The Rice 500/230 kV Substation will require approximately 33 acres to accommodate the substation facility, fencing, grading, and stormwater features. The 9A West Project will also require upgrades to the Ringgold 230/138 kV Substation. The Ringgold Substation will be expanded by FE to accommodate the construction of additional bays.

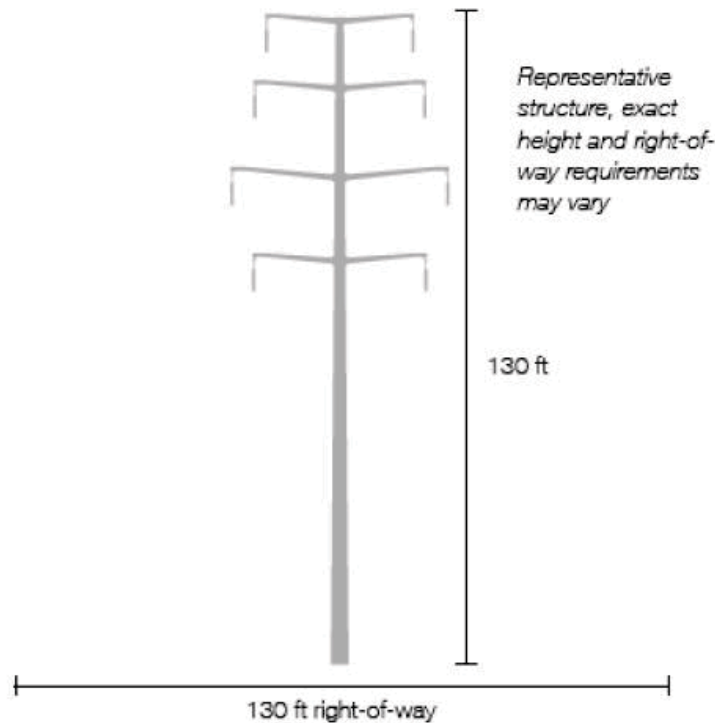


Figure 2: Typical 230 kV Double-Circuit Monopole Transmission Structure

1.2 Project Timeline and Overview of Regulatory Approvals

PJM identified the need for the project in 2014, and selected Transource’s proposed solution in March of 2016. Transource contracted AECOM to assist with siting the IEC West Project in August of 2016. The Siting Team initiated the transmission line siting process in the fall of 2016 with the identification and collection of relevant publicly available data. Federal and State agencies were contacted in January of 2017 to introduce the Project and obtain feedback and data. In addition,

initial meetings were held with agencies, townships, counties, and elected officials to introduce the Project and discuss potential constraints in the area.

Initial Study Segments were developed in early 2017 followed by field reviews of the Project Study Area to verify land use and modify Study Segments accordingly. The Study Segments were continually revised during this time as new data was collected from public sources, engineering input, agency coordination efforts, and field reviews.

The resultant network of Study Segments was presented at a series of public open houses in June 2017. The Study Segments were then re-evaluated based on public input, additional engineering review, and existing constraints and either further refined or eliminated from further consideration. The Revised Study Segments were then presented to the public during a second round of open houses conducted in August 2017 to obtain further feedback. Following the second round of public open houses, the Revised Study Segments were again modified as necessary and compiled into three complete Alternative Routes for analysis and comparison. The Proposed Route was identified through the analysis and comparison of these Alternative Routes.

The initial Siting Study was prepared during the fall of 2017 to support Transource's application to the Maryland Public Service Commission (MDPSC) and the PAPUC for approval to construct the Proposed Route. The Siting Study describes the process used, information gathered, and analysis conducted to identify the Proposed Routes for the IEC West Project. Concurrent with the MDPSC and PAPUC review process, other relevant state and federal permit applications were prepared and submitted in 2018 to those regulatory agencies that will oversee the construction and permitting of the Project. Pending approval from the MDPSC, PAPUC, and other relevant regulatory agencies, construction of the Project was expected to begin in 2019 with an in-service date of June 2020.

With the placement of the Project on hold and then the recent reaffirmation by PJM, the timeline has required modification for the new 9A West Project. Review of the Project Study Area was conducted in November 2025 to reassess the alignments of the three Alternative Routes, which confirmed that land use changes along Alternative Route A would require adjustments to this route, but that the other alternatives, including the Proposed Route, were still viable alternatives. In addition, new public open houses were conducted in March 2026 to obtain landowner and community feedback on the alternative routes. Submission of the updated Siting Application to the PAPUC is planned for May 2026 (the Maryland portion of the Project was approved by the MDPSC in 2018). Concurrent with the PAPUC review process, other relevant state and federal permit applications are being prepared and finalized for submission later in 2026 to those regulatory agencies that will oversee the construction and permitting of the Project. Pending approval from the PAPUC, and other relevant regulatory agencies, construction of the Project is expected to begin in early 2027 with an in-service date of January 19, 2029.

1.3 Goal of the Siting Study

The goal of the Siting Study is to identify and evaluate opportunities and constraints in the Project Study Area to facilitate the development of several Alternative Routes, evaluate potential impacts associated with these Alternative Routes, and identify a Proposed Route to be constructed to meet the Project need. The Proposed Route is the route that (1) reasonably minimizes adverse impacts on area land uses and the natural and cultural environment; (2) minimizes special engineering design requirements and unreasonable costs; and (3) can be constructed and operated in a timely, safe, and reliable manner.

2.0 ROUTE AND SITE DEVELOPMENT PROCESS

2.1 Route Development Process Summary/Methodology

The route development process is inherently iterative with modifications made throughout the siting analysis as a result of the identification of new constraints, input from agencies, landowners, and other stakeholders, periodic reassessment of routes with respect to the siting criteria, and adjustments to the overall route network. As a result of the evolving nature of the route development process, the Siting Team (see **Section 2.2**) uses specific vocabulary to describe the routes at different stages of development.

Initial route development efforts start with the identification of large area constraints and opportunity features within the **Study Area**, which encompasses the endpoints of the Project and areas in between (**Figure 3, Step 1**). These areas are typically identified using a combination of readily available public data sources.

The Siting Team uses this information to first develop an array of **Conceptual Routes** for the Project adhering to a series of general siting and technical guidelines (**Step 2**). Where two or more of these Conceptual Routes intersect, **Study Segments** are formed between two common nodes or points of intersection. Together, the assemblage of Study Segments is referred to as the **Study Segment Network (Step 3)**.

As the route development process progresses, the Siting Team continues to evaluate new data and modifies, if necessary, the Study Segments included in the network to develop a **Refined Study Segment Network (Step 4)**. Eventually, complete **Alternative Routes** are developed by assembling the Study Segments that best meet the siting guidelines into individual routes for analysis (**Step 5**). Alternative Routes are assessed and compared with land uses, natural and cultural resources, and engineering and construction concerns. Ultimately, through a quantitative and qualitative analysis and comparison of the Alternate Routes, the Siting Team identifies a **Proposed Route (Step 6)** for submission to the MDPSC and PAPUC.

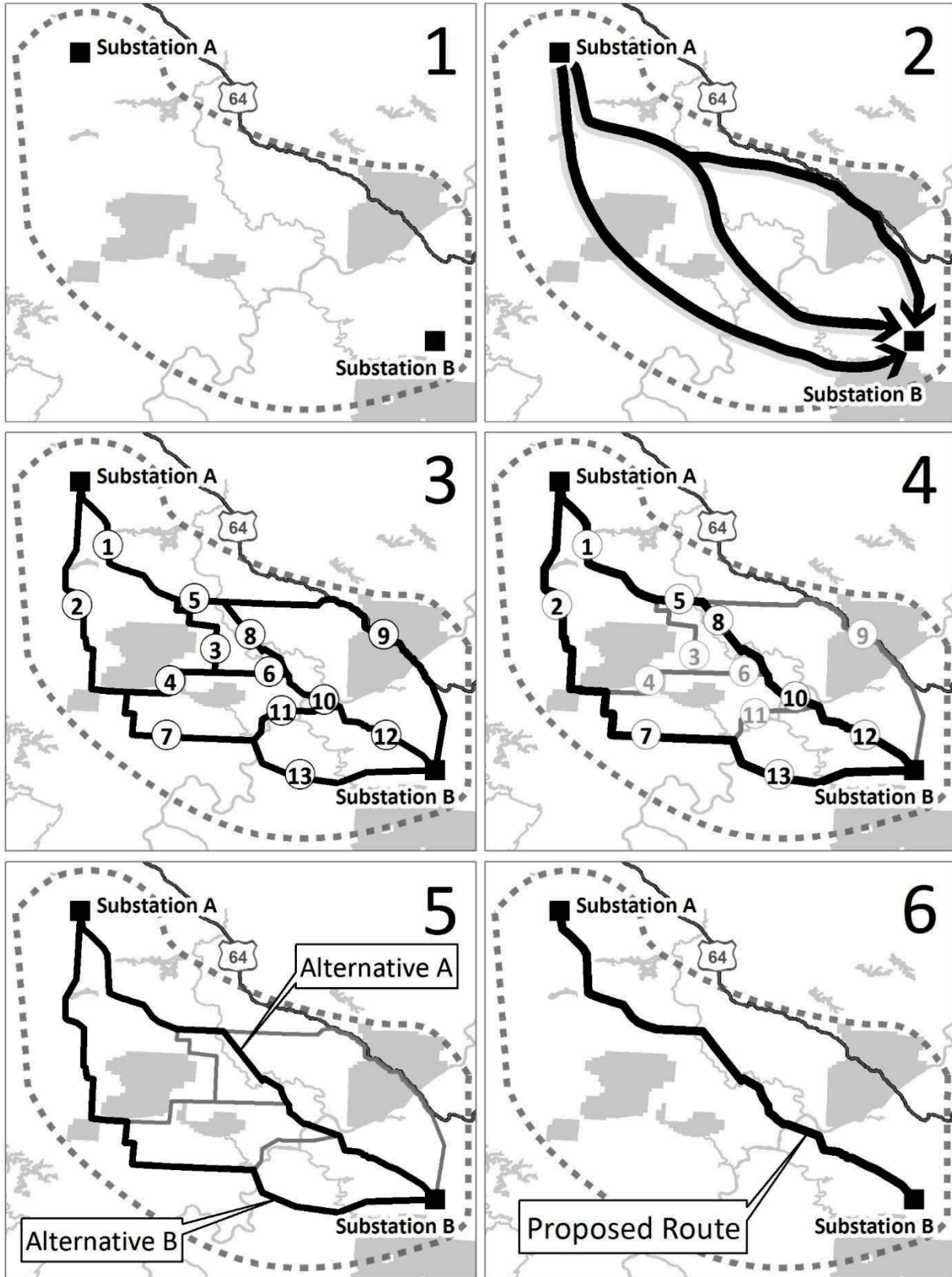


Figure 3: Route Development Process Steps

The above figure is for illustrative purposes and does not reflect the actual study segments or alternative routes developed for the IEC West Project or the 9A West Project.

A multi-disciplinary Siting Team was engaged throughout the siting process for the IEC West and 9A West Projects. Team members were selected to bring a wide variety of experience to achieve a thorough review of all aspects of developing the Proposed Route. Members of the Siting Team have experience in transmission line siting, impact assessment for a wide variety of natural resources, cultural resources, and area land use types, as well as impact mitigation, transmission engineering and design, right-of-way acquisition, and construction.

The team worked together during the Siting Study to define the Project Study Area, develop siting criteria, identify siting constraints and opportunities, collect and analyze environmental and design data, solicit public input, consult with natural resource and permitting agencies, develop and revise the study segments, and analyze and report on the selection of a Proposed Route.

2.3 Data Collection

The following sources of information were used to develop data for the Siting Study. A detailed table of data sources is provided in **Appendix A**.

2.3.1 Geographic Information System (GIS) Data Collection

Aerial photography is an important tool in the siting process. The primary sources of aerial imagery used in the route identification, analysis, and selection effort for the Project include Maryland National Agricultural Imagery Program (NAIP) (2023) and Pennsylvania NAIP (2022), but also included review of on-line imagery provided by Google Earth, Bing Maps, United States Fish and Wildlife Service (USFWS) Wetland Mapper, Pennsylvania Department of Environmental Protection's (PADEP) EMapPA, and Maryland's Environmental Resource and Land Inform (MERLIN). Similar imagery was used in 2026 to reassess the alternative routes.

Updated information, such as the location of new residences and other constraints, was annotated to the photography by either paper maps (at the public meetings) that were transferred into the GIS or digitized directly into the GIS as identified during field inspections. Existing paper and electronic maps were also examined as part of the siting process. These include U.S. Geological Survey (USGS) Geological Survey 7 ½ minute topographic quadrangle maps and state and county road maps in digital form.

The siting process made extensive use of information in existing GIS data sets that were obtained from many sources, including federal, state, and local governments. This information was obtained through official agency GIS data access websites, provided directly by government agencies, and created by the Siting Team by digitizing information from paper-based maps, aerial photo interpretation, interviews with stakeholders, public input, and field inspections. These data sets were updated in 2026, where appropriate or required, and used to update the metrics assessment conducted for the Project.

Appendix A presents a list of the GIS data sources used for this study. Field reconnaissance was conducted to verify certain features (e.g., locations of residential, commercial and industrial buildings).

2.3.2 Field Reviews

Siting Team members conducted multiple field reviews across the Project Study Area. Prior to these reviews, field maps were generated that consisted of key siting features such as residences, parcel lines, places of worship, cemeteries, and natural resources (e.g., wetlands, streams, and floodplains). During these field reviews, team members confirmed the general land uses and evaluated the specific Study Segments by automobile from public roads and other points of public access. Field-verified features were added to the GIS database using laptops/tablets running GIS software supported by real-time Global Positioning System (GPS). This information, in conjunction with the public input, was used in the siting process to assist in the comparison of Study Segments and to create mapping to depict the opportunities and constraints. The 2026 field review was conducted in a similar format with a focus on reaffirming the land uses and features identified in 2017.

2.3.3 Federal, State and Local Government Coordination

The Siting Team initiated agency consultation in early 2017 by mailing letters to various federal, state, and local agencies and/or officials to inform them of the IEC West Project and request data for the Siting Study. In addition, the Siting Team held numerous meetings with agencies, counties, townships, and officials during the siting process. A summary of the agencies contacted, and a listing of meetings held, as well as copies of agency correspondence, are included as **Appendix B**. Transource will work with all applicable agencies and obtain all required jurisdictional permits and approvals and comply with any conditions tied to these approvals.

2.4 Siting Guidelines

2.4.1 General Guidelines

The primary goal for this siting effort was to identify a Proposed Route for the Project that (1) reasonably minimizes adverse impacts on area land uses and the natural and cultural environment; (2) minimizes special engineering design requirements and unreasonable costs; and (3) can be constructed and operated in a timely, safe and reliable manner.

The following guidelines that represent good siting principals were considered for this effort, where reasonable and practicable:

- Consider parallel alignments along existing utility ROWs or other infrastructure, such as roadways and railroads.

- Maximize the distance from residential dwellings, schools, daycare facilities, hospitals, and other community facilities.
- Consider stakeholder input.
- Minimize visibility from federal and state listed scenic roadways and designated scenic resources.
- Minimize conflict with designated public resource lands, recreation lands, nature preserves, or other conservation areas.
- Minimize conflict with existing and approved future development and land uses.
- Minimize potential environmental and land use impacts by avoiding circuitous routes.
- Minimize new crossings of large wetland complexes, critical habitat, and other unique or distinct natural resources.
- Minimize habitat fragmentation and impacts on designated areas of biodiversity concern.
- Avoid crossing hazardous waste sites or sites with active mineral extraction activities.
- One of the Alternative Routes should be less than 20% coincident with the Proposed Route.

2.4.2 Technical Guidelines

Technical guidelines are driven by the physical characteristics and engineering limitations of the structures and lines themselves, and the design criteria necessary to meet Transource design standards, North American Electric Reliability Corporation (NERC) reliability standards, National Electric Safety Code (NESC), and industry best practices for construction. The technical guidelines were informed by (1) the technical expertise of engineers and other industry professionals responsible for the reliable, safe and economical construction, operation, and maintenance of electric system facilities, (2) NERC reliability standards as implemented by PJM, and (3) industry best practices.

The Siting Team considered the following technical guidelines during the siting process:

- Maintain a minimum of 115 feet of centerline-to-centerline separation when paralleling 138 kV or lower voltage transmission lines.
- Minimize crossings of existing transmission lines.
- Minimize crossing existing interstate and multi-lane highways and cross perpendicular, where feasible.
- Limit transmission line angles greater than 30 degrees.

- Limit areas across steep slopes (more than 20 percent slopes for angle structures and more than 30 percent slopes for tangent structures).

2.5 Public Involvement Process

Public Open House

The following details the public open houses completed to date on both the original IEC West Project and the current 9A West Project.

For both Projects, the open houses were set up with an open format where the public could attend at any time during the hours planned. Attendees were greeted by a Transource representative and given a guided tour through various boards that described Transource, the purpose and need of the Project, engineering considerations, the right-of-way process, and the siting process. After the guided tour, members of the Siting Team were available with large format maps, printed at a scale of 1 inch = 500 feet, to review individual properties and take comments. All attendees were given comment cards with unique identifying numbers. These numbers were noted on maps for the parcel(s) of each landowner. Attendees were encouraged to identify the location of their residences, places of business, property of concern, or other sensitive resources on the printed maps. After the public open house, handwritten comments from the maps were digitized and entered into a GIS database. In addition, all comment cards were entered into a database with the unique identifier so the comment and the parcel could easily be correlated.

9A West Project Open Houses:

Open houses for the 9A West Project were conducted on March 16 and March 17, 2026 from 4pm-7pm. The first open house was held at the Green Grove Gardens Event Center in Greencastle, Pennsylvania with the second open house being held at Hager Hall in Hagerstown, Maryland. These open houses followed an open format where the public could attend at any time during the scheduled hours for each open house. Attendees were also given comment cards with unique identifying numbers and were encouraged to identify the location of their residences, places of business, property of concern, or other sensitive resources on the printed maps.

A total of 85 people signed in at the March 16th first open house and a total of 17 people signed in at the March 17th open house, with a total of 55 open house comments received. Additional comments, totaling 27, were also received via mail.

IEC West Project Open Houses

Transource conducted two rounds of public open houses during different phases of the IEC West siting process to inform the public about the project and obtain information from landowners

about their properties. The first round of open houses focused on a wide network of Study Segments with the goal to obtain information from the public to help modify, eliminate or add Study Segments. Following the first round of open houses and subsequent qualitative and quantitative analysis, the second round of open houses focused on a refined set of Study Segments. The dates of the IEC West Project open houses are listed below.

First Round of Open Houses:

1. June 12, 2017 from 6pm-9pm at the Smithsburg High School in Smithsburg, Washington County, Maryland;
2. June 13, 2017 from 6pm-9pm at the Eugene C. Clarke Jr. Community Center in Chambersburg, Franklin County, Pennsylvania;
3. June 14, 2017 from 6pm-9pm at the Waynesboro Area Senior High School in Waynesboro, Franklin County, Pennsylvania; and
4. June 15, 2017 from 6pm-9pm at the Kauffman Ruritan Club and Community Center in Chambersburg, Franklin County, Pennsylvania.

Second Round of Open Houses:

1. August 7, 2017 from 6pm-9pm at the Smithsburg Middle School in Smithsburg, Washington County, Maryland; and
2. August 8, 2017 from 6pm-9pm at the Kauffman Ruritan Club and Community Center in Chambersburg, Franklin County, Pennsylvania.

The public and property owners were notified about the time and location of the open house meetings through the following means:

1. Letters to property owners within 500 feet of the Study Segments,
2. Automated phone calls to residences within 500 feet of the Study Segments,
3. Reminder postcards sent to these residences,
4. Newspaper notification placed in the Chambersburg Public Opinion, Waynesboro Record and Herald Mail Media, and
5. A Project specific web site <http://beta.power-viz.com/transourceenergyprojects/IndependenceEnergyConnection/>, which was included in media venues and in letters to residents. Note, this Website has since been closed and replaced with the updated 9A West Project site described above.

A total of 238 people signed in at the first round of open houses and 343 people signed in at the second round of open houses for the Rice-Ringgold portion of the Project.

2.5.1 Project Website and Virtual Open House

Transource also established an IEC West Project website which was updated throughout the various phases of the siting process. The website provided access to a google-earth style aerial map where interested parties could zoom to a particular area of the IEC West Project and review Study Segments (after the first round of open houses) or refined Study Segments (after the second round of open houses). In addition to reviewing the potential alignments of the Study Segments, landowners and members of the general public could submit comments or add points to the map to provide specific information about resources or structures on their property. These points were integrated into the GIS database and were reviewed as part of the siting process.

The IEC West Project website also offered the public the ability to virtually review the printed materials presented at the open houses such as the explanatory boards and the large format maps. Transource monitored the comments provided through the website and provided answers to questions from the public. Over the course of the Project, over 428 comments were received through this venue. For individuals without access to the internet, paper maps were mailed, upon request.

A similar and more recent website was established for the 9A West Project that can be found at [Rice - Ringgold Transmission Line Project](#). This website contains the current project description, virtual open house materials, a mapper tool with the updated routes, and the ability to leave an online comment.

2.5.2 Consideration of Public Input

As a result of the March 2026 open house events, and notification efforts completed to date via landowner letters and newspaper notices, the 9A West Project has received a total of 84 new comments. These comments were received from either the open house event, mailed in comments, or comments left via the Project website.

In 2017, in addition to the 211 comment cards submitted regarding the Project at the two sets of public open houses and the 428 comments received via the website, Transource also received an additional 442 comments on the Project through phone calls, emails, and letters and postcards received via U.S. mail. All of the comments were entered into the IEC West Project database and categorized based on the topics addressed such as aesthetics, vegetation clearing, structure type, or land use. Data from all of these input sources (e.g., open houses, comment cards, website) were used to evaluate the Study Segments after each open house and assisted in the decision-making process toward identifying a Proposed Route.

In both 2017 and 2026, Transource PA met with local governmental officials and stakeholders to inform them about the Project, answer questions, and collect input concerning the three routes. This information was considered to adjust routes as practicable. See Section 3.5.5 which describes 2026 route modifications based largely on stakeholder input.

3.0 ALTERNATIVE ROUTE IDENTIFICATION

3.1 Substation Siting

In conjunction with the transmission line siting process, multiple locations for the proposed Rice 500/230 kV Substation were also evaluated in 2017 in Franklin County, Pennsylvania. The Rice Substation will be connected to FE's Hunterstown-Conemaugh 500 kV transmission line and will be the northern-most endpoint of the 9A West Project. Locations in close proximity to the FE Hunterstown–Conemaugh 500 kV transmission line were considered more favorable than sites further from this existing transmission line. Being in close proximity to the existing 500 kV system will reduce the length of 500 kV tap lines that will need to be constructed to the Rice Substation. Other key considerations for siting the new substation included accessibility from adjacent established roadways, a large enough parcel to accommodate the substation and ancillary design features, generally level grade, a lack of environmental or agricultural conservation land, favorable soil conditions for foundations, and ability to acquire the property. Due to relative close proximity of the two substation sites that were ultimately identified, evaluation of the substation options had limited effect on defining the Project Study Area or developing Study Segments. Ultimately, in 2017 the proposed Rice Substation site, which was located on the east side of Interstate-81 near SR 696, was determined based on the design requirements of the substation as well as assessment of the Study Segments to that particular location.

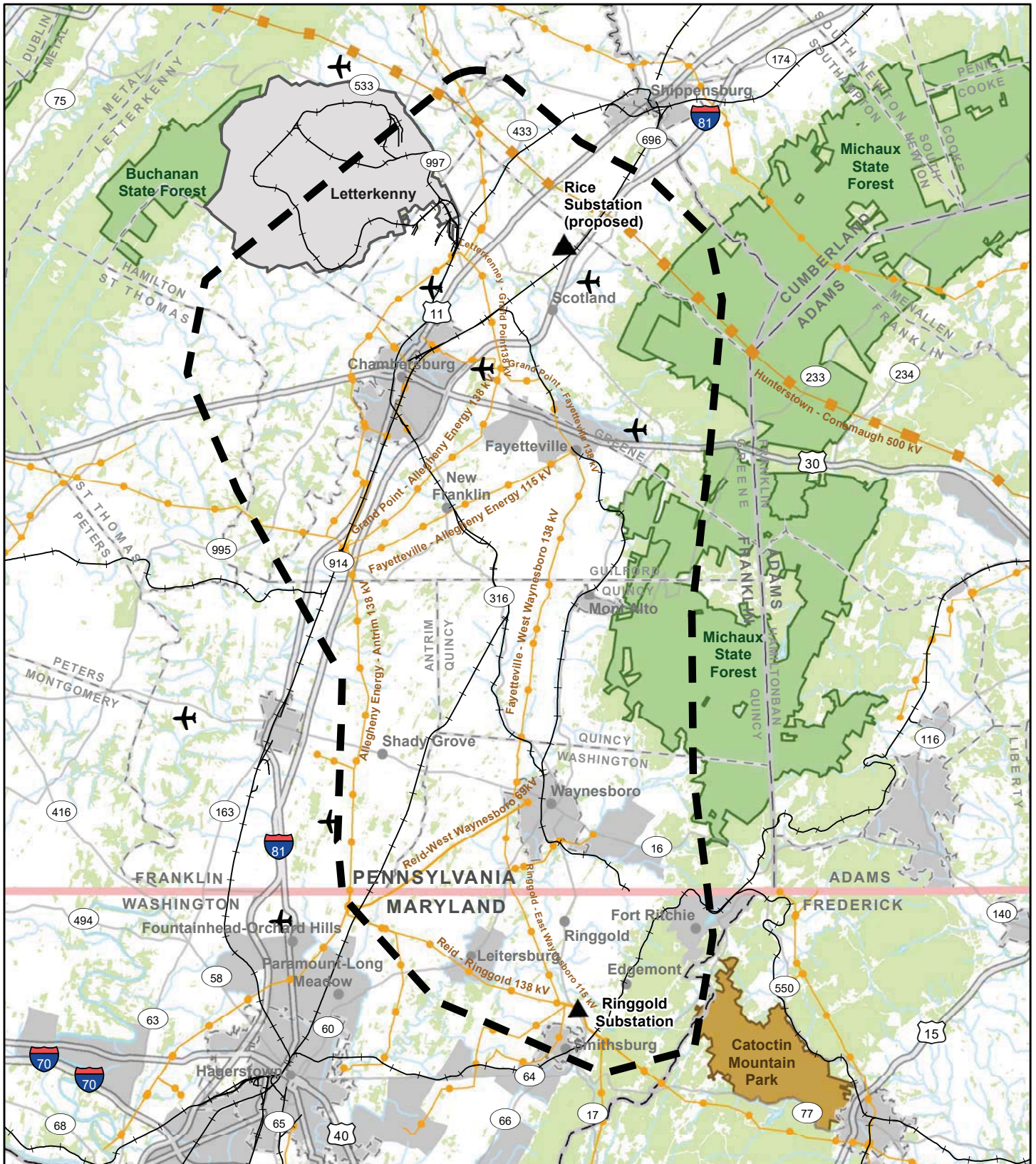
Field, survey, and engineering reviews conducted in 2025 at the proposed Rice Substation site determined significant karst formations present under the property and as a result alternative sites were reviewed by Transource PA in an effort to avoid or minimize geotechnical issues. The new location for the Rice Substation, which is adjacent and on the west side of Interstate-81 near Rice Road, was identified in 2026 and is approximately 1.35 miles south of the Hunterstown–Conemaugh 500 kV transmission line. The new site is composed of a level agricultural field, easily accessible from the local road system, and avoids significant karst features. This adjustment required a minor realignment of the alternative routes to terminate further south and west of I-81. This adjustment did not fundamentally change the Project Study Area description, Study Segment Identification, and other aspects of the analysis discussed in the following sections.

3.2 Project Study Area Description

The Project Study Area is the territory in which Study Segments can be reasonably developed to meet the Project's functional requirements and, at the same time, minimize environmental impacts and Project costs. The boundaries of the Project Study Area were determined by the geographic area encompassing the proposed Rice Substation and existing Ringgold Substation and was intended to incorporate all reasonable Conceptual Routes between these connection points. Given these considerations, the Siting Team identified a Project Study Area encompassing approximately 305-square miles that included portions of central and southern Franklin County

in Pennsylvania and the northeast portion of Washington County in Maryland (**Figure 4**). The Project Study Area is generally bounded by:

- The FE's Hunterstown-Conemaugh 500 kV transmission line to the north,
- Michaux State Forest and the towns of Mont Alto and Waynesboro, Pennsylvania to the east,
- The town of Smithsburg , Maryland to the south,
- The Hagerstown Regional Airport, the town of Greencastle, Pennsylvania, and the Letterkenny Army Depot to the west.



- ▲ Substation
- ✈ Airports
- Railroad
- ▬ Highway
- Road
- Stream
- Existing Transmission Line
 - Below 100 kV
 - 115kV - 230 kV
 - Greater than 345kV
- ▭ Project Study Area
- National Park
- State Forest
- Forest Cover

Data Sources: Transource (2026), Rextag Electric Transmission (2021), NPS (2026), DCNR (2026), NLCD Forest Cover (2024)

Coordinate System:
UTM Zone 18N
NAD 83



May 02, 2026



Figure 4
Project Study Area

Rice - Ringgold 230kV
Transmission Line Project



3.3 Constraints and Opportunities

One of the first steps in the process is for the Siting Team to define the major siting opportunities and constraints in the Project Study Area. *Constraints* are specific areas that should be considered, and where possible avoided, to the extent practicable during the route development and selection process. Siting *opportunities*, or ‘opportunity features’, include other existing linear infrastructure and utility corridors, such as existing electric transmission networks, railroad corridors, and roads, that may reduce the overall impact of the line on area land uses (**Figure 4**). Opportunity features may also include non-linear features such as reclaimed mine lands or unused portions of industrial or commercial areas.

Alignments developed along opportunity features may lessen the overall impact of the new line. For example, siting a new transmission line next to an existing one typically can reduce the overall visual impact of the new line when compared to a non-parallel or ‘greenfield’ alignment. Paralleling a road right-of-way may reduce the fragmentation impacts of a new right-of-way cut through a heavily forested area. However, the benefits of these opportunity features have to be considered with respect to area land use and other associated effects. For example, if a parallel alignment requires frequent crossing of the existing line to avoid adjacent constraints, then additional aesthetic impacts from many tall crossing structures would need to be considered, as well as the potential for operational and construction impacts associated with outage planning, construction, and maintenance activities. Similarly, while paralleling roads may reduce fragmentation impacts in a heavily forested area, it may also place the line in closer proximity to houses along the road.

During the conceptual siting process, the Siting Team initially identifies a range of both large area and smaller site specific constraints. Large area constraints may include densely populated residential areas, federal and state parks, airports, and mining operations. As the Siting Team develops specific siting alignments, smaller scale constraints are identified and avoided, where feasible. Examples of these more local constraints include individual homes, schools, recreational trails, and radio towers. The effect of these large and small scale constraints on routing options will vary based on the potential opportunities identified across the Project Study Area.

3.4 Conceptual Route Development

Working with the opportunities and constraints identified, and within the general and technical siting guidelines, the next step is developing potential Conceptual Routes, which are routes developed at a high level to avoid large area constraints or incorporate notable opportunity features in the Project Study Area.

Specific Conceptual Routes identified in the Project Study Area included paralleling Interstate-81 (I-81), regional railroad alignments (e.g., CSX Lurgan Subdivision), local utility corridors such as

the Fayetteville-West Waynesboro 138 kV line, as well as traversing the forested slopes of South Mountain. Constraints primarily consisted of Michaux State Forest, Caledonia State Park, the Letterkenny Army Depot (located northwest of Chambersburg), and densely developed areas such as Waynesboro and Chambersburg. In addition, identifying a suitable crossing location of U.S. Route 30 was a key constraint in the Project Study Area as a result of the dense commercial/retail and residential development along and fringing this corridor.

3.5 Study Segments

3.5.1 Description of Study Segments

The Siting Team developed a series of Study Segments based on the conceptual route guidelines presented in **Section 2.0**. Study Segments are partial alignments developed based on the routing concepts (see **Figure 3**). As the siting effort evolved through the field review and open house phases, Study Segments were modified, removed, or added. These eliminations or adjustments were based on the likelihood of impacts on residential or commercial areas, agricultural operations, planned and future development, and sensitive environmental areas. **Figure 5** shows the resulting network of Study Segments evaluated by the Siting Team.

3.5.2 Study Segment Evaluation Process

To evaluate and compare Study Segments, a table of factors was developed which focused on the potential impacts of the Project to the human/built environment, the natural environment, and engineering considerations. Examples of the human/built environment include factors such as proximity to residences schools, or historic and cultural resources. The natural environment includes factors such as number of stream crossings or acres of forest clearing. Comparative factors for engineering include the number of transmission line crossings or sharp transmission line turns (greater than 30 degrees). The quantitative routing factors assessed are listed and defined in **Table 1** in **Section 4.0** where these factors are further discussed.

To compare Study Segments, the Siting Team initiated an iterative side-by-side comparison of specific segments or group of segments that could connect particular points across the landscape. Relevant assessment factors for each of these comparative reviews varied across the Project Study Area as a result of the changing land use and topography. Throughout the Study Segment evaluation process, the entire collection of human/built, environmental, and engineering factors were considered together. The evaluation included both a quantitative and qualitative assessment recognizing that minimizing impacts to one constraint factor may increase impacts to others. The analysis sought to identify Study Segments that represent a best balance in reducing potential impacts across all of these factors.

The comparative analysis and public input allowed the Siting Team to identify Study Segments that minimized potential impacts as compared to other Study Segments that serve the same purpose and function. In scenarios where the impacts would be significantly different, the Study Segment(s) with the greatest potential impacts were eliminated. In scenarios where the difference was less pronounced, all Study Segments were retained until they could be reviewed in the larger context, which was accomplished through combining several Study Segments that connect similar points.

3.5.3 Study Segment Development

At the onset of the Study Segment development phase, the specific location of the Rice Substation was unknown. The Siting Team identified and optioned two potential substation locations approximately one mile apart along the FE Hunterstown-Conemaugh 500 kV transmission line. Given the close proximity of the sites, Study Segment options were very similar and only varied close to the potential substations. Identifying opportunity corridors and developing Study Segments heading south to the Ringgold Substation were minimally affected by the substation review process.

A key factor to the Study Segment development process was the limited opportunities to cross U.S. Route 30, which is a highly developed-east-west corridor that bisects the Project Study Area. From the eastern boundary of the Project Study Area, this highway extends west from the forested slopes of South Mountain, most of which is protected as part of Michaux State Forest, through the dense development around Fayetteville, Guilford, and Chambersburg, and then out to the less developed western boundary. Four potential crossing locations were identified to cross the highway, with one being close to South Mountain, two being located in commercial areas between Fayetteville and Chambersburg, and the fourth being west of Chambersburg. Crossing U.S. Route 30 at these four areas resulted in Study Segment development that funneled to these specific locations, and in many cases, resulted in Study Segment development close to several constraints areas. Specifically, the eastern crossing of U.S. Route 30 resulted in Study Segments across the edge of South Mountain and across one section of Michaux State Forest; the central options resulted in Study Segments in developed areas along I-81 that included a private airport, local schools, dense residential neighborhoods, and commercially evolving properties; and the western option resulted in Study Segments toward the Franklin County Regional Airport and the extensive Letterkenny Army Depot and the surrounding commercial development.

Opportunity corridors identified in the Project Study Area included roads (i.e., I-81 and U.S. Route 11), railroads, (such as the Norfolk Southern railroad line that parallels I-81 and several other local rail lines), as well as a number of transmission line corridors (most of which have a generally north-south alignment). Opportunities to use the undeveloped lands along South Mountain were also evaluated. Development of the Study Segments initially focused on any potential conceptual

alignments that could parallel these existing infrastructure features or use areas of undeveloped land.

Study Segments were developed parallel to I-81 north of Chambersburg where agricultural lands were located adjacent to the highway, however, concentrated development near Scotland and Chambersburg resulted in several alignment shifts away from the highway edge. Opportunities to parallel I-81 south of Chambersburg were also limited due to adjacent development and because the highway continues to travel further to the southwest and away from the Ringgold Substation area. Assessment of U.S. Route 11 noted no paralleling opportunity due to the variable residential and commercial development along this roadway.

Similar to I-81, the Norfolk Southern railroad offered a few opportunities north of Chambersburg where short Study Segments could be developed, however, the dense development adjacent to the rail corridor limited the length of these alignments. A few local railroad lines south of Chambersburg, specifically the CSX Lurgan Subdivision line, provided more opportunities for parallel alignments. However, many of these railroad alignments were also bordered in certain areas by concentrated residential and commercial structures, especially at road crossings. This resulted in several diversions from parallel alignments to avoid these areas.

The existing transmission line network within the Project Study Area provided several opportunities for paralleling, but most opportunities were limited in length due to the general orientation of the transmission line and the extent of development in the area. North of Chambersburg and west of I-81, residential and commercial development has been built up to the edge of the existing transmission lines and approved planned development in the surrounding open fields limited options to divert from paralleling the existing transmission line alignment in many of these areas. As with the railroads, opportunities were identified south of Chambersburg to parallel longer sections of the transmission line system, specifically the FE Ringgold-West Waynesboro and FE Fayetteville-West Waynesboro transmission lines. Similarly, alignment shifts to bypass developed areas were necessary in several locations.

Study Segments were also developed along the edge of South Mountain. However, the number of Study Segments that could be developed in this area was limited by general constructability issues associated with construction on steep terrain, in addition to the extensive forest clearing that would be required for these Study Segments and the access needed for construction. Study Segments were also required to cross Michaux State Forest, which was unavoidable south of U.S. Route 30 due to the dense development along the western slopes of South Mountain. According to PADCNR, Michaux State Forest is a last vestige of undeveloped forested habitat in this section of Pennsylvania. Michaux State Forest also provides habitat for federally listed species and several state-listed species of concern, some of which are associated with the Mt. Cydonia Ponds Natural Area that is located adjacent to the Study Segment crossing through the state forest. This natural area was established to protect the numerous vernal ponds scattered throughout the

area that provide critical breeding habitats for certain reptiles and amphibians. Although not directly crossing the ponds in the natural area, the alignment would span adjacent vernal ponds that are part of the same hydrologic system and potentially contain the same sensitive species.

In addition to these various opportunity corridors, several Study Segments developed for the Project extended across other sections of undeveloped agricultural or forested lands. These segments were developed to maintain a direct alignment, where feasible, while maximizing distance from residential and farm structures; minimizing forest clearing and limiting alignments through topographically challenging areas.

3.5.4 Study Segment Analysis

As noted in **Figure 5** in light gray, there were numerous Study Segments presented during the first public open house that encompassed a large area around Chambersburg but narrowed further south as they extended toward the Ringgold Substation. Due the funneling aspect of the four identified crossings over U.S. Route 30, three major corridors were noted extending east, south, and west from the Rice Substation review area. Eastern Study Segments extended along portions of South Mountain and across a section of Michaux State Forest before intersecting with an existing transmission line corridor that extends south and close to Waynesboro. Central Study Segments paralleled existing transmission line corridors and I-81 toward the two U.S. Route 30 crossing areas and then used existing railroad corridors or undeveloped lands to head south toward the Ringgold Substation. Western Study Segments extended around the western edge of Chambersburg, across sections of Letterkenny Army Depot, and then back to the east crossing I-81 south of Chambersburg. These Study Segments then parallel a series of existing transmission line corridors into Ringgold Substation.

After the first open house, the Siting Team reviewed the public comments and the information received at the open house and incorporated it into the GIS database. In addition, the Siting Team reviewed and compared Study Segments for impacts to land use, environmentally sensitive areas, and engineering considerations. The assessment of this information resulted in modifications or eliminations to Study Segments as described below.

Overall, the Study Segments along the western perimeter of the Project Study Area noted more potential human/built and environmental impacts, as well as engineering challenges, relative to the central and eastern options. Study Segments near the Letterkenny Army Depot identified several considerable engineering challenges (**Area 1 in Figure 5**). These challenges included numerous railroads in and around Letterkenny Army Depot that would have to be crossed by the Project. In addition, the Franklin County Regional Airport, located to the east of Letterkenny, may limit the height of the transmission line structures, further complicating the ability to cross the numerous railroads. Finally, the dense commercial development on the boundaries of the Letterkenny Army Depot would not feasibly accommodate the 130 foot wide ROW required for

the Project. Therefore, Study Segments to the west of Chambersburg were eliminated from further review.

Study Segments further to the south that paralleled the FE Allegheny Energy-Reid Transmission Line near Marion, Pennsylvania (Area 2 in **Figure 5**) were noted to bypass around areas of dense residential or industrial structures, limiting the length of parallel opportunities. In addition, numerous transmission line crossings would be required to avoid the developed areas resulting in engineering challenges and potential visual impacts due to a series of taller structures. Assessment of the southernmost Study Segments that parallel the FE Reid-Ringgold Transmission Line (Area 3 in **Figure 5**) noted these same human/built and engineering concerns but also identified complex environmental issues along sections near the Ringgold Substation. These included historic resources and numerous crossings of tributaries to Little Antietam Creek. For these reasons, the Study Segments along these areas were eliminated from further review.

Study Segments presented at the second open house (**dark gray** lines in **Figure 5**) were concentrated between South Mountain to the east and Chambersburg and I-81 to the west. After the second open house, the Siting Team reviewed the public comments and revised the remaining Study Segments where reasonable and practicable.

During this time, Transource was also in the process of finalizing their substation siting analysis, which was focused on two potential sites adjacent to the FE Hunterstown-Conemaugh 500 kV transmission line. Specific factors evaluated for the substation site included adjacent land use, soil and geological conditions, grading requirements, required area for stormwater controls and transmission line orientation entering and exiting the substation, distance from the 500 kV line, and road accessibility for delivery of the transformers, which can be limited by the grade of a road. The substation siting process initially assessed a section of the existing 500 kV corridor and identified over ten possible sites. Many of these sites were eliminated due to a variety of reasons including proximity to residential development, environmental issues, proximity to the 500 kV transmission line, and land development constraints. The site for the new Rice 500/230 kV Substation identified in 2017 was selected along SR 696 to minimize potential geotechnical issues that would make the design and construction of the substation more challenging from an engineering perspective.

Upon identification of the substation site and completion of the Study Segment refinement process in 2017, these Study Segments were then used to develop the Alternative Routes. Portions of the Project Study Area associated with eliminated Study Segments were removed to create a refined Project Study Area of approximately 210 square miles. From this point forward, the Project Study Area refers to that 210 square mile area that is the focus of the evaluation completed for the Alternative Routes(**Figure 5**).

Upon renewal of the Project in 2025 and re-review of the Alternative Routes in the field, minor adjustments were completed to Alternative Route A to address development that had occurred along the alignment since 2017. The routes presented at the third 2026 open houses are presented in Figure 5 as **black** lines, as further detailed below in Section 3.5.5.

3.5.5 Summary of 2026 Modifications

Four modifications were made in 2026 that involved adjusting the alignment of Alternative Route A and the location of the Rice Substation.

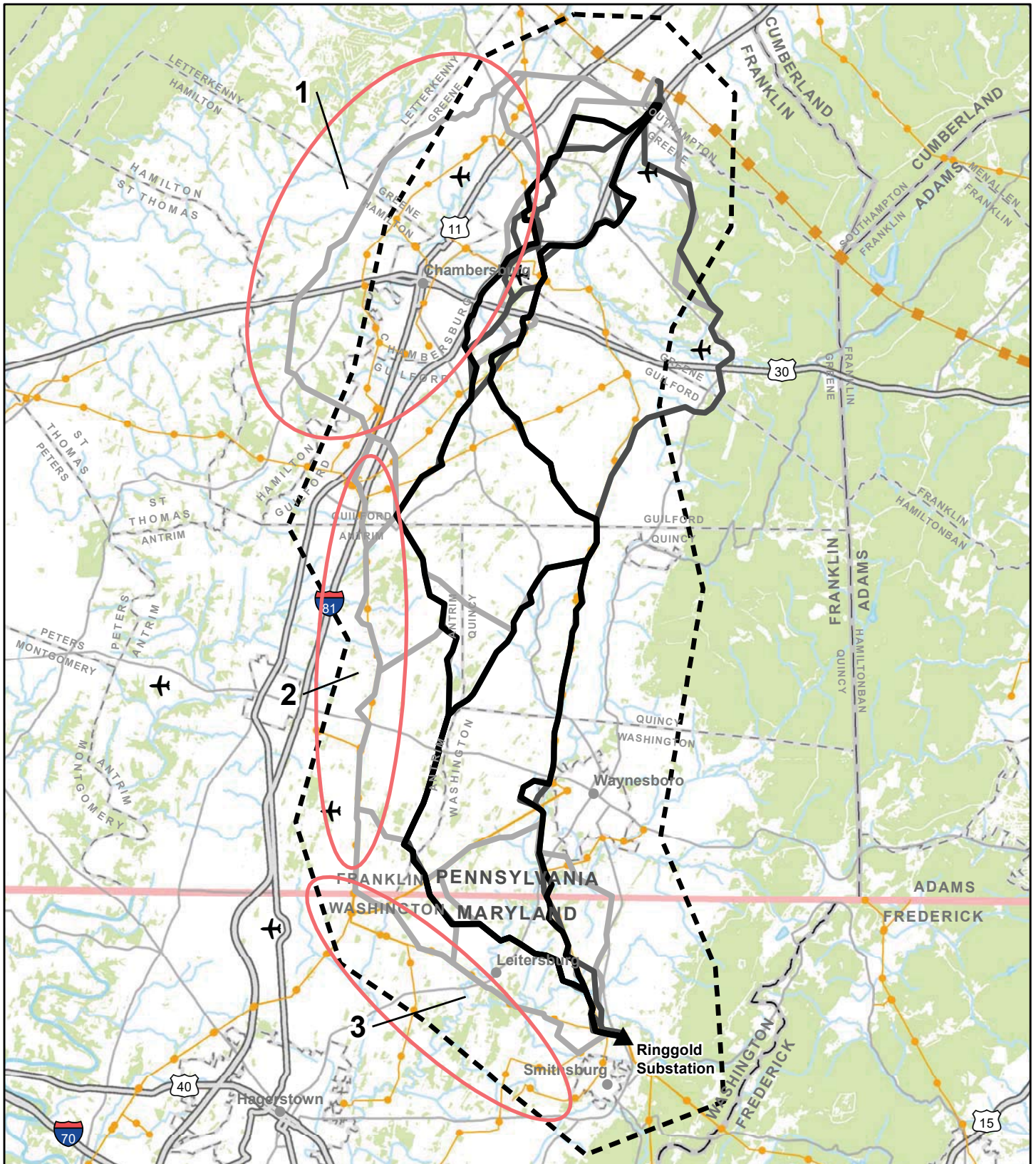
- Modification 1 - Realignment of Alternative Route A due to two areas of new residential development under construction and one area of future development.
- Modification 2 – Future plans at Chambersburg Area Middle School to redesign the school placing it too close to Alternative Route A.
- Modification 3 – Relocation of the proposed Rice Substation west of I-81.
- Modification 4 – Relocation of Alternative Route A due to planned commercial expansion.


As discussed above, the original alignment of Alternative Route A (A1 in **Figure 6a**) was observed to presently consist of areas of new development that made the option not viable. Reassessment of the Project Study Area in this new constrained section was conducted to identify a new route option (first modification). During this time, governmental officials in the greater Chambersburg area requested that the Interstate-81 corridor that extends along the eastern side of Chambersburg be further evaluated for potential paralleling opportunities. Since the section of the original Alternative Route A alignment that required realignment was located near this highway, the possible use of Interstate-81 became one of the focus areas. A potential route was identified that would have extended along an approximate 2.9 mile section of the highway, which would have included an unobstructed crossing of U.S. Route 30 (A2 in **Figure 6a**). Most of this alignment took advantage of open lands that border the highway, but the remaining portions involved the route being in close proximity to several commercial buildings, needing to cross back and forth over the highway to avoid residentially constrained areas, and having to traverse a 0.3 mile part of the Chambersburg Area Middle School property. Despite the complexity of the route, it was considered a potentially viable revision to the previous Alternative Route A and was moved forward for further evaluation and presented to the public during the open house events conducted in March 2026. Further coordination with the government officials in March and April 2026, however, revealed that plans to rebuild the middle school closer to the highway could result in a constraint to the route. Review of the proposed school plans concluded the proposed route would be too close to the school buildings for reasonable development (**Figure 6b**). As a consequence of these social and engineering constraints, this potential re-route to Alternative Route A was removed from further review.

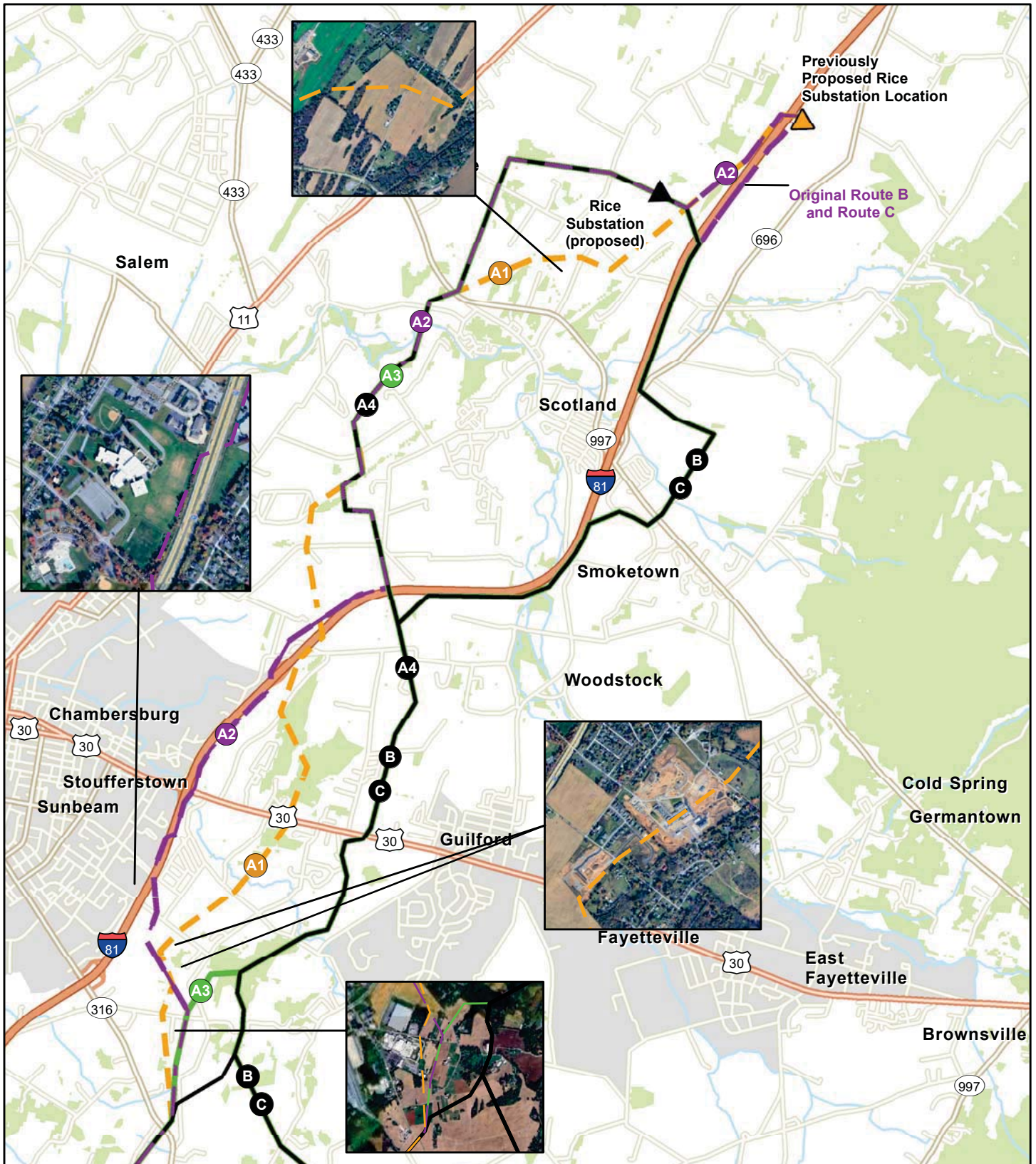
Following these updates another revised Alternative Route A (A3 in **Figure 6a**) was developed to connect to a section of Alternative Routes B and C that were collocated through this area (second modification). This modification involved two new short connecting segments that crossed open lands with one section being north of the U.S Route 30 crossing and the second south of the crossing. This revised Alternative Route A alignment that is collocated with Alternative Routes B and C at the U.S. Route 30 crossing is the route option discussed in the rest of this Siting Study.








The third modification involved a change in the location of the Rice Substation. The original site identified in 2017 was on the east side of Interstate 81 and adjacent to SR 696. Based on geotechnical concerns identified with this site in 2025, the Rice Substation was relocated in 2026 approximately one mile further south, on the west side of Interstate 81, and adjacent to Rice Road. All three of these modifications required reassessment of the metric values for the Alternative Routes, as further detailed in this Siting Study.

The fourth modification involved Alternative Route A and shifting the alignment to cross Cider Press Road at a location further south than the original location, to avoid encroaching upon a parcel that is planned for future commercial development, as shared by government officials.



<ul style="list-style-type: none"> ▲ Substation ✈ Airports — 1st Open House Segments (Eliminated) — 2nd Open House Segments (Eliminated) — 3rd Open House Routes ◻ Study Area Eliminated ◻ Alternative Route Review Study Area 	<p>Existing Transmission Line</p> <ul style="list-style-type: none"> — Below 100 kV — 115kV - 230 kV — Greater than 345kV — Highway — Road — Stream — Forest Cover 	<p>Data Sources: Transource (2026), Rextag Electric Transmission (2021), NPS (2026), DCNR (2026), NLCD Forest Cover (2024)</p> <p>Coordinate System: UTM Zone 18N NAD 83</p> <p style="text-align: center;">  Maryland </p>	<p style="text-align: center;">Figure 5 Study Segments</p> <p style="text-align: center;">Rice - Ringgold 230 kV Transmission Line Project</p> <p style="text-align: center;">TR NSOURCE</p> <p style="text-align: center;">0 1 2 3 4 Miles</p>
<p>May 11, 2026</p>			



-  2017/2026 Initial Proposed Substation
-  2026 Final Proposed Substation
-  2017 Alternative Routes
-  2026 Initial Alternative Routes
-  2026 School Avoidance Alternative Route
-  2026 Final Alternative Routes
-  Forest Cover

Data Sources: Transource (2026),
NLCD Forest Cover (2024)

Coordinate System:
UTM Zone 18N
NAD 83



May 11, 2026

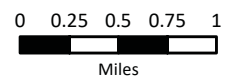
Pennsylvania

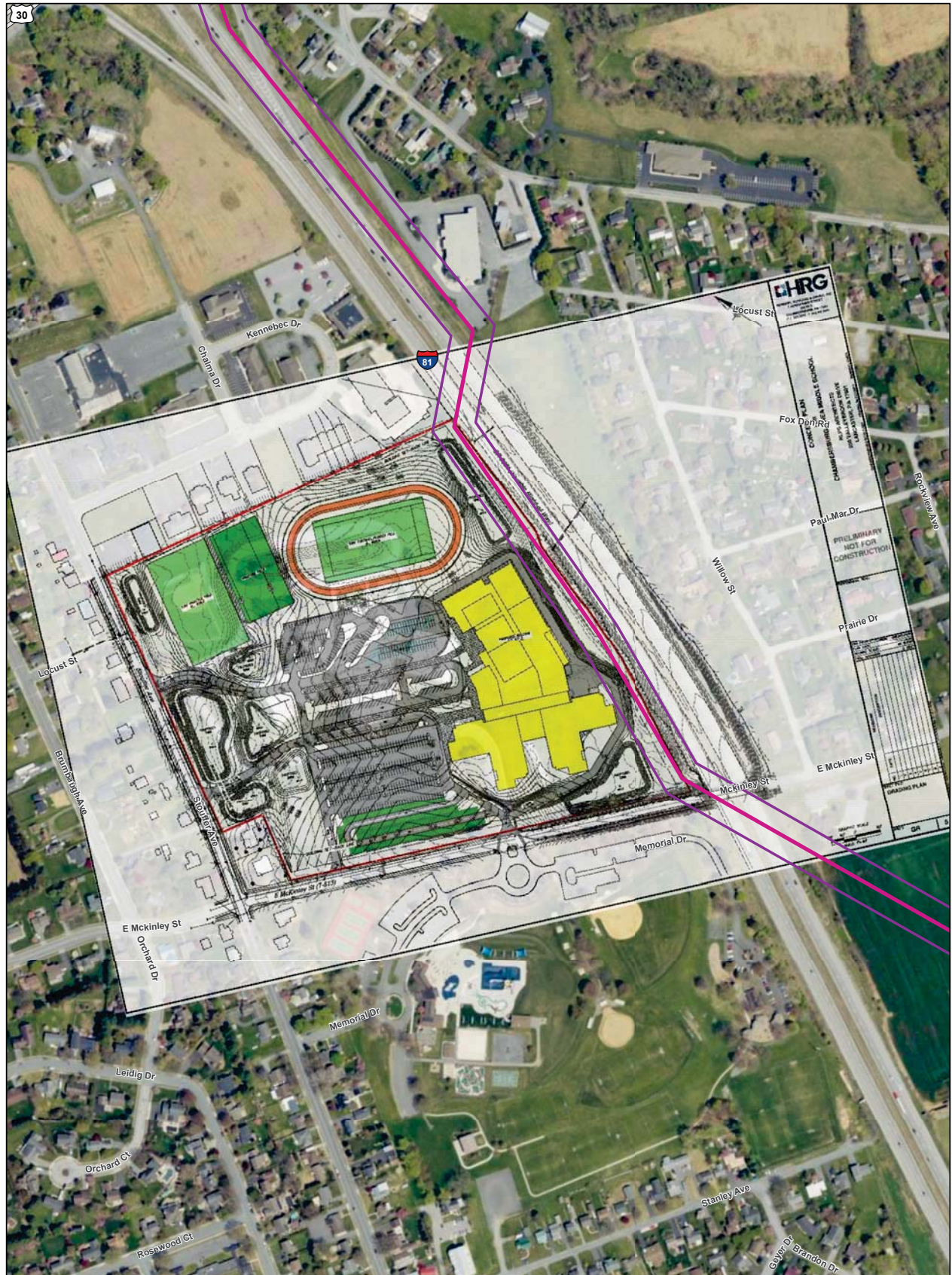


Maryland

Figure 6a
Alternative Route Updates

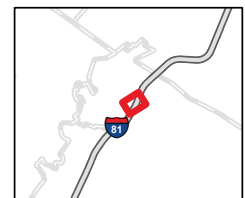
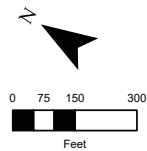
Rice - Ringgold 230kV
Transmission Line Project
TRANSOURCE





Legend

- Alternative Route A
- Alternative Route A Proposed ROW



Chambersburg Area Middle School Preliminary Plans provided by Chambersburg School District 4/1/2026.

**Rice-Ringgold 230 kV Transmission Line
Project Transource, LLC**

Job: 60528995
Prepared by: MWC
Checked by: HB
Date: 4/10/2026

**Figure 6b
CHAMBERSBURG AREA
MIDDLE SCHOOL FOCUS AREA**

3.6 Alternative Routes

The Siting Team evaluated the resulting Study Segments to identify combinations that provided complete connection between the Rice and Ringgold Substations. These combinations were the basis for development of the Alternative Routes for the Project. Ultimately, three (3) Alternative Routes were identified for a detailed comparative analysis to determine a Proposed Route.

In 2026, the alignments of the three Alternative Routes were reassessed to evaluate the land use that they currently cross. A section of Alternative Route A was noted to cross over lands south of U.S. Route 30 that had been converted from crop fields to dense residential developments. Sections of this same route were also noted to be in the early stages of conversion from crop fields to residential developments on the west side of I-81. Re-evaluation of the area around this section of the Alternative Route A alignment identified short segments of undeveloped crop fields that provided an opportunity to connect Alternative Route A with the other two alternative routes, which are collocated through this section due to the densely developed U.S. Route 30 crossing. The other two Alternative Routes crossed similar landscapes as documented in 2017, required no change, and were considered still viable.

In addition, adjustment of the Rice Substation to a location further to the south resulted in minor modifications to each of the Alternative Routes.

The following descriptions of the Alternative Routes reflect the updates made in 2026 due to the adjustment of a section of Alternative Route A and relocation of the Rice Substation. The Alternative Routes are shown in more detail in **Figure 7**.

3.6.1 Alternative Route A (30.1 miles – of which 23.5 is in PA)

- Alternative Route A exits the Rice Substation and turns west for 1.3 miles traveling across agricultural fields and through a small, forested area. Rice Road is spanned halfway along this section.
- Turning sharply to the south and southwest, the route extends for 1.3 miles across more agricultural fields and other small, forested areas before reaching Mickey Inn Road, which is bordered at the crossing location by a few residential parcels. Black Gap Road (SR 997) is also spanned in this section.
- Continuing to the south and southwest, the route extends across a mix of agricultural and forested lands for 1.6 miles to the active Norfolk Southern rail line. Conococheague Creek, which is designated by PADEP as a Cold Water Fishes (CWF) stream, is spanned in this section. A dense residential community along Sycamore Grove Road will be bordered by the route, which starts to parallel the FE Letterkenny-Grand Point 138 kV line that extends through this community. This section also crosses a portion of the

Eastern Greene Township Rural Historic District that borders both sides of a Norfolk Southern rail line.

- Crossing to the south side of the railroad line, the route extends 0.9 miles southeast across agricultural lands to I-81, with portions still paralleling the FE Letterkenny-Grand Point 138 kV line. A large farm and several residential parcels located along Grande Point Road are passed in this area which are within the Eastern Greene Township Rural Historic District.
1. At this point, the route crosses to the east side I-81 and parallels the FE Letterkenny-Grand Point 138 kV line to the southeast for 0.8 miles, crossing Walker Road, to the Grand Point Substation, where the route turns sharply to the south for 1.0 miles to U.S. Route 30. The Lost Acres Airport is located approximately 0.6 miles west of the route.
 - Prior to crossing commercial lined U.S. Route 30, the route first crosses over to the west side of the transmission line, which is now the FE Grand Point-Allegheny Energy 138 kV line and then spans the highway. The route turns sharply west and then south for 0.5 miles to bypass around a commercial building. After going around the building, the route again parallels the FE Grand Point-Allegheny Energy 138 kV line for 0.3 miles.
 - Alternative Route A deviates from the transmission line corridor to bypass around homes along the line. Along this section, the route extends for 0.7 miles to the southwest and spans Falling Spring Branch (HQ-CWF), crosses Falling Spring Road, and traverses through a forested area that contains several homes. Within the forest, the route turns south, travels across an agricultural field and spans the FE Grand Point-Allegheny Energy 138 kV line near Henry Lane.
 - After crossing this road, the route travels for 1.4 miles to the southwest across agricultural fields before crossing Cider Press Road and turning south toward Wayne Road (SR 316).
 - After crossing SR 316, the route extends for 2.0 miles crossing open fields, spanning the CSX Lurgan Division railroad line, paralleling and crossing Stone Quarry Road, crossing New Franklin Road, and spanning the FE Fayetteville-Allegheny Energy 115 kV transmission line, before turning sharply west to intersect with Helman Road.
 - From Helman Road, Alternative Route A crosses open farm lands for 1.7 miles to the southwest before turning sharply to the southeast to cross Swamp Fox Road (SR 914).
 - After crossing SR 914, the route traverses approximately 5.3 miles to the southeast through existing agricultural fields, making turns to avoid structures and spanning several local roads, until it reaches the west side of the active CSX Lurgan Division railroad line.
 - Alternative Route A parallels the west side of the CSX railroad tracks for approximately 0.9 miles to the Buchanan Trail East (SR 16) crossing, where the route crosses the commercial-lined road and the railroad tracks to continue paralleling the east side of the tracks for approximately 2.4 miles. The route crosses one unnamed WWF stream in this section as well as crossing Barr Road and McDowell Road.

- The route turns sharply to the southeast for approximately 1.4 miles across predominantly agricultural fields toward Leitersburg Road (SR 2002), crossing Marsh Run (WWF) and the FE Reid-West Waynesboro 69 kV transmission line along the alignment.
- After crossing SR 2002, the route spans the Pennsylvania/Maryland state line and turns for 1.0 miles to the southeast to parallel Leiters Mill Road (was Leitersburg Road in Pennsylvania) until it reaches Millers Church Road, where the route turns sharply east, crossing both roads.
- The route continues east and southeast for 1.8 miles through agricultural fields, crossing an unnamed tributary to Antietam Creek, Antietam Creek, and then paralleling Battletown Road before intersecting with Leitersburg Pike (Maryland (MD) 60).
- After spanning MD 60, Alternative Route A extends 1.5 miles across agricultural lands to Poplar Grove Road, spanning Ringgold Pike (MD 418) and three unnamed tributaries to Little Antietam Creek.
- Turning east, the route extends for 0.6 miles over agricultural lands to intersect with the Ringgold-West Waynesboro 138 kV transmission line, which it parallels to the southwest for 0.4 miles. This section spans Newcomer Road and Gardenhour Road, crosses Little Antietam Creek and two tributaries, and extends through an orchard.
- Extending out for 0.5 miles to the southwest from the transmission line, Alternative Route A bypasses around residential structures along Rowe Road and traverses agricultural lands before spanning over to the south side of the FE Reid-Ringgold 138 kV transmission line.
- The route turns east for 0.8 miles and extends into the southeastern corner of the Ringgold Substation, spanning the FE Ringgold-East Hagerstown 138 kV transmission line four times and Smithsburg Pike (MD 64) along the alignment.

3.6.2 Alternative Route B (31.0 miles – of which 24.4 miles is in PA)

- Alternative Route B exits the Rice Substation from the southeast corner and spans 0.2 miles east over the active Norfolk Southern railroad and to the east side of I-81, where it turns to the south to parallel I-81 for 1.1 miles to SR 696. Along this stretch the route crosses Pine Stump Road, Mountain Run (CWF), and is within 0.5 miles of the Rocktop Airport that is located to the east past SR 696.
- The route turns sharply east to cross SR 696 perpendicularly and travels approximately 0.6 miles to the east-southeast through an agricultural field before turning sharply to the southwest.
- Travelling southwest for 0.7 miles, the route crosses Phillaman Run (CWF) and then crosses Black Gap Road (SR 997) in a perpendicular fashion. Alternative Route B meanders for 0.6 miles around the Chambersburg Mall, generally following the outer edge of the

parking lot on the eastern and northern sides of the mall, and then heading west to intersect with I-81 again.

- After reaching the eastern side of I-81, Alternative Route B turns sharply south and parallels the interstate for approximately 1.4 miles; at this location I-81 and the route generally travel in a western direction. Along this section, Alternative Route B traverses the edge of agricultural fields and crosses an unnamed stream (CWF) and the Conococheague Creek (CWF).
- Alternative Route B turns sharply to the southwest and travels 0.4 until it reaches the existing FE Letterkenny-Grand Point 138 kV transmission line. The route stays to the east of this system and parallels it south for approximately 1.6 miles toward U.S. Route 30, spanning along agricultural fields, around the Grand Point Substation, and over Walker Road. The Lost Acres Airport is located approximately 0.6 miles west of the route.
- Prior to crossing commercial lined U.S. Route 30, the route first crosses over to the west side of the transmission line, which is now the FE Grand Point-Allegheny Energy 138 kV line and then spans the highway. The route turns sharply west and then south for 0.5 miles to bypass around the commercial building. After going around the building, the route again parallels the FE Grand Point-Allegheny Energy 138 kV line for 0.5 mile.
- Alternative Route B deviates from the transmission line corridor for 1.1 mile to bypass around homes along the line. Along this section, the route extends to the southwest and spans Falling Spring Branch (HQ-CWF), crosses Falling Spring Road, and traverses through a forested area that contains several homes. Within the forest, the route turns south, travels across an agricultural field and spans the FE Grand Point-Allegheny Energy 138 kV line near Henry Lane.
- After crossing this road, Alternative Route B extends to the southeast for approximately 4.6 miles over agricultural fields to Yohe Road, where it intersects with the FE Fayetteville-West Waynesboro 138 kV transmission line. This section involves crossing of two unnamed WWF streams, one CWF stream, several local roadways, and the FE Fayetteville-Allegheny Energy 115 kV transmission line.
- As the route crosses Yohe Road, it also spans to the east side of the FE Fayetteville-West Waynesboro 138 kV transmission line and then turns sharply to the south to parallel this existing line for approximately 1.0 mile; an unnamed CWF stream is crossed in this section, as is Stamey Hill Road.
- At this point, Alternative Route B turns sharply to the west and spans to the west side of the FE Fayetteville-West Waynesboro 138 kV transmission line and travels for approximately 1.0 miles across agricultural fields, Buttermilk Road, and one CWF stream and intersects with the CSX Lurgan Division railroad corridor.
- The route turns to the southwest and parallels the CSX railroad for approximately 4.5 miles, with some deviations to bypass around residential and agricultural facilities

adjacent to the railroad line. This stretch crosses Wayne Highway (SR 316), several local roads, and three unnamed CWF streams.

- At this point, Alternative Route B crosses to the west side of the CSX rail line and parallels the west side of the CSX railroad tracks for approximately 0.9 mile to the Buchanan Trail East (SR 16) crossing, where the route crosses the commercial-lined road and the railroad tracks to continue paralleling the east side of the tracks for approximately 2.4 miles. The route crosses one unnamed WWF stream in this section as well as crossing Barr Road and McDowell Road.
- The route turns sharply to the southeast for approximately 1.3 miles across predominantly agricultural fields toward Leitersburg Road (SR 2002), crossing Marsh Run (WWF) and the FE Reid-West Waynesboro 69 kV transmission line along the alignment.
- After crossing SR 2002, Alternative Route B spans the Pennsylvania/Maryland state line and turns for 1.0 mile to the southeast to parallel Leiters Mill Road (was Leitersburg Road in Pennsylvania) until it reaches Millers Church Road, where the route turns sharply east, crossing both roads.
- The route continues east and southeast for 1.8 miles through agricultural fields, crossing an unnamed tributary to Antietam Creek and Antietam Creek, and paralleling Battletown Road before intersecting with Leitersburg Pike (Maryland (MD) 60).
- After spanning MD 60, Alternative Route B extends 1.5 miles across agricultural lands to Poplar Grove Road, spanning Ringgold Pike (MD 418) and three unnamed tributaries to Little Antietam Creek.
- Turning east, the route extends for 0.6 miles over agricultural lands to intersect with the Ringgold-West Waynesboro 138 kV transmission line, which it parallels to the southwest for 0.4 miles. This section spans Newcomer Road and Gardenhour Road, crosses Little Antietam Creek and two tributaries, and extends through an orchard.
- Extending out for 0.5 mile to the southwest from the transmission line, Alternative Route B bypasses around residential structures along Rowe Road and traverses agricultural lands before spanning over to the south side of the FE Reid-Ringgold 138 kV transmission line.
- The route turns east for 0.8 miles and extends into the southeastern corner of the Ringgold Substation, spanning the FE Ringgold-East Hagerstown 138 kV transmission line four times and Smithsburg Pike (MD 64) along the alignment.

3.6.3 Alternative Route C (27.9 miles – of which 23.5 miles is in PA) (the Proposed Route)

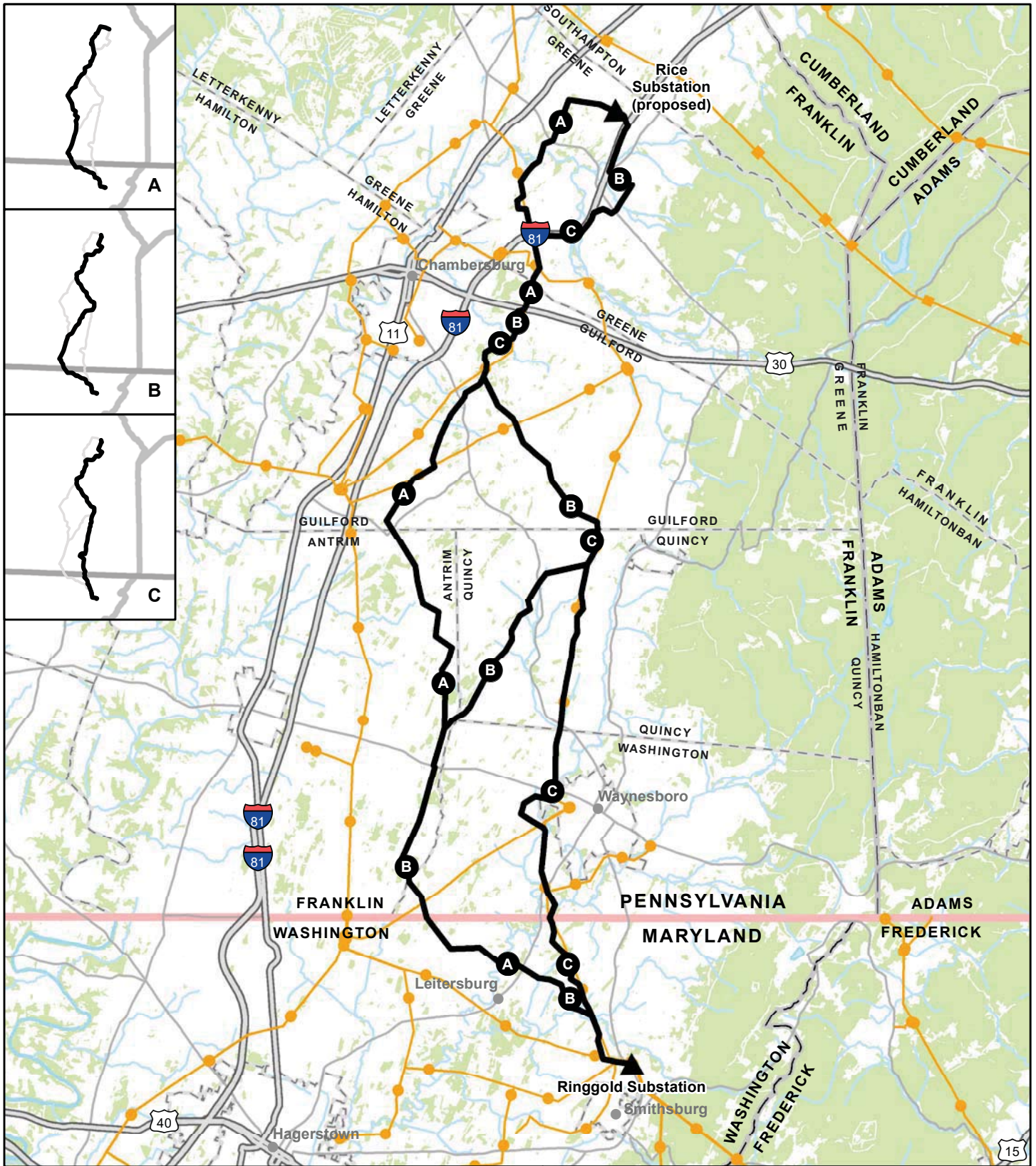
- Alternative Route C exits the Rice Substation from the southeast corner and spans 0.2 miles east over the active Norfolk Southern railroad and to the east side of I-81, where it turns to the south to parallel I-81 for 1.1 miles to SR 696. Along this stretch the route

crosses Pine Stump Road, Mountain Run (CWF), and is within 0.5 miles of the Rocktop Airport that is located to the east past SR 696.

- The route then turns sharply east to cross SR 696 perpendicularly and travels approximately 0.6 mile to the east-southeast through an agricultural field before turning sharply to the southwest.
- Travelling southwest for 0.7 miles, Alternative Route C crosses Phillaman Run (CWF) and then crosses Black Gap Road (SR 997) in a perpendicular fashion. Alternative Route C traverses for 0.6 miles around the perimeter of the Chambersburg Mall, generally following the outer edge of the parking lot on the northern and eastern sides of the mall, and then heading west to parallel with I-81 again.
- After reaching the eastern side of I-81, Alternative Route C turns sharply south and parallels the interstate for approximately 1.4 miles and at this location I-81 and the route generally travel in a western direction. Along this section, Alternative Route C traverses the edge of agricultural fields and crosses an unnamed stream (CWF) and the Conococheague Creek (CWF).
- Alternative Route C turns sharply to the southwest and travels 0.4 until it reaches the existing FE Letterkenny-Grand Point 138 kV transmission line. The route stays to the east of this system and parallels it south for approximately 1.6 miles toward U.S. Route 30, spanning along agricultural fields, around the Grand Point Substation, and over Walker Road. The Lost Acres Airport is located approximately 0.6 miles west of the route.
- Prior to crossing commercial lined U.S. Route 30, Alternative Route C first crosses over to the west side of the transmission line, which is now the FE Grand Point-Allegheny Energy 138 kV line and then spans the highway. The route turns sharply west and then south for 0.5 miles, spanning across a parking lot and bypassing around a commercial building. After going around the building, the route again parallels the FE Grand Point-Allegheny Energy 138 kV line for 0.5 mile.
- Alternative Route C deviates from the transmission line corridor for 1.1 mile to bypass around homes along the line. Along this section, the route extends to the southwest and spans Falling Spring Branch (HQ-CWF), crosses Falling Spring Road, and traverses through a forested area where homes are present to the east. Within the forest, the route turns south, travels across an agricultural field and spans the FE Grand Point-Allegheny Energy 138 kV line near Henry Lane.
- After crossing this road, Alternative Route C extends to the southeast for approximately 4.6 miles over agricultural fields to Yohe Road, where it intersects with the FE Fayetteville-West Waynesboro 138 kV transmission line. This section involves crossing of two unnamed WWF streams, one CWF stream, several local roadways, and the FE Fayetteville-Allegheny Energy 115 kV transmission line.

- As Alternative Route C crosses Yohe Road, it also spans to the east side of the FE Fayetteville-West Waynesboro 138 kV transmission line and then turns sharply to the south to parallel this existing line for approximately 1.7 mile; an unnamed CWF stream is crossed in this section, as is Stamey Hill Road.
- A 0.6 mile deviation from the colocation is required in the vicinity of the Manheim Road crossing due residential development that has built up adjacent to the transmission line and the route then parallels the existing line for 0.5 miles on the eastern side.
- At Hess Benedict Road, Alternative Route C crosses over to the west side of the FE Fayetteville-West Waynesboro 138 kV transmission line to avoid agricultural and residential structures. The route parallels the line for another 3.7 miles, traversing agricultural fields, crossing Orphanage Road, Wayne Highway (SR 316), and Buchanan Trail East (SR 16), as well as an unnamed CWF stream.
- After crossing SR 16, Alternative Route C turns sharply to the west and parallels this line for approximately 0.4 miles. This stretch includes a crossing of Cold Springs Road and an unnamed CWF stream.
- Turning to the south and then east, Alternative Route C extends for 1.2 miles to Marsh Road. The route traverses an agricultural field to avoid agricultural and residential structures, and crosses an unnamed CWF stream, the FE Reid-West Waynesboro 69 kV line, and the FE Ringgold-West Waynesboro 138 kV line.
- After crossing Marsh Road and an unnamed CWF stream, Alternative Route C turns sharply south to parallel the east side of the FE Ringgold-West Waynesboro 138 kV line for 2.1 miles. Alternative Route C crosses agricultural fields, Hagerstown Road (SR 316), the FE Ringgold-East Waynesboro 115 kV line, and the East Branch Antietam Creek (CWF) along this stretch. The route extends away from the transmission line corridor to avoid residential structures near the southern end of this section prior to crossing Lyons Road.
- Spanning to the west side of the FE Ringgold-West Waynesboro 138 kV line, Alternative Route C turns south and crosses the Pennsylvania/Maryland state line. The route generally parallels the transmission line for approximately 2.6 miles until it intersects with Gardenhour Road. Some deviations are required along this stretch to avoid agricultural operations and structures. The route in this section crosses Rocky Forge Road, Ringgold Pike (SR 418), Poplar Grove Road, and Newcomer Road, as well as numerous crossings of various tributaries to Little Antietam Creek.
- Alternative Route C crosses Gardenhour Road paralleling the existing transmission line for 0.4 miles and traverses through an orchard.
- Alternative Route C extends out for 0.6 mile to the southwest from the transmission line to bypasses around residential structures along Rowe Road and traverses agricultural lands before spanning over to the south side of the FE Reid-Ringgold 138 kV transmission line.

- Alternative Route C turns east for 0.8 mile and extends into the southeastern corner of the Ringgold Substation, spanning the FE Ringgold-East Hagerstown 138 kV transmission line four times and Smithsburg Pike (MD 64) along the alignment.



- Substation
- Alternative Routes
- Existing Transmission Line**
- Below 100 kV
- 115 - 230kV
- Greater than 230kV
- Highway
- Road
- Stream
- Forest Cover

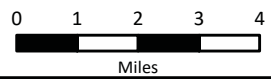
Data Sources: Transource (2026),
Rextag Electric Transmission (2021),
NLCD Forest Cover (2024)

Coordinate System:
UTM Zone 18N
NAD 83



Figure 7
Alternative Routes

Rice - Ringgold 230 kV
Transmission Line Project



May 11, 2026

4.0 ALTERNATIVE ROUTE COMPARISON

This section further discusses the Alternative Routes and provides a quantitative and qualitative analysis of potential impacts to the social landscape, the environment and cultural resources, and potential engineering considerations. The Alternative Routes were reviewed in detail and compared using a combination of information collected from GIS data sources, public and regulatory input, supporting documents, field review, and the collective knowledge and experience of the Siting Team.

Data in the metric tables below were updated for the 2026 9A West analysis to address changes in the landscape, adjustment of the Rice Substation, and modifications to the various data sources that have occurred since the 2017 Siting Study analysis.

The results of the comparative analysis completed for each of the factors listed in **Table 1** are documented within the respective section of the siting study.

Table 1: Quantitative Siting Factors	
Human/Built Factors	
Number of parcels crossed by the ROW:	Count of the number of parcels crossed by the ROW.
Number of parcels acquired for the ROW:	Count of total parcels acquired for the route.
Number of residences within 500 feet of the route centerline:	Count of the number of residences within the ROW and within 100 feet, 250 feet and 500 feet of potential routes.
Number of commercial buildings within 500 feet of the route centerline:	Count of the number of commercial buildings within the ROW and within 100 feet, 250 feet and 500 feet of potential routes.
Acres of pasture/rangeland crossed by the ROW:	Area of pasture or range land crossed by the routes.
Acres of cropland crossed by the ROW:	Area of cropland crossed by the routes.
Acres of conservation easements crossed:	Private conservation easements crossed by the routes.
Acres of county agricultural easement land crossed:	Protected land crossed by the Project that is devoted to agricultural production.
Number of archaeological resources within the ROW and within 250 feet of centerline:	Previously identified archeological resources.
Number of historic architectural resources within the ROW, within 0.25 mile:	Previously identified historic architectural resource sites and districts listed or eligible on the NRHP.
Institutional uses (schools, places of worship and cemeteries) within 1000 feet (schools and places of worship) or 250 feet (cemeteries and hospitals) of the route centerline:	Locations of cemeteries, churches, hospitals, parks, and schools.

Table 1: Quantitative Siting Factors	
Environmental Factors	
Forest clearing within the ROW:	Acres of forest within the ROW - digitized from aerial photography.
Number of National Hydrography Dataset (NHD) stream and waterbody crossings within the ROW:	a count of the number of surface water features crossed, such as lakes, ponds, streams, rivers, springs and wells.
Acres of National Wetland Inventory (NWI) wetland crossings within the ROW:	The type and acreage of wetlands crossed by the routes.
Acres of 100-year floodplain within the ROW:	Acres of 100-year floodplain within the ROW.
Miles of public lands crossed by the route:	Miles of federal, state and local lands crossed by the ROW.
Threatened, endangered, rare or sensitive species occurrence within the Project vicinity:	Known occurrences; locations of potential habitat based on land use.
Karst topography within the ROW:	Represents areas of Dolomite or Limestone (karst-derived geology) crossed by the ROW.
Acres of prime farmland soils within the ROW:	Percent of soil associations crossed by the ROW characterized as prime farmland.
Engineering Factors	
Route length:	Length of route in miles.
Number of angled structures:	Anticipated number of angled structures over 30 degrees based on preliminary design.
Number of road crossings:	Count of federal, state and local roadway crossings.
Number of pipeline crossings:	Number of known pipelines crossed by the transmission ROW.
Number of railroads crossings:	Number of railroads crossed by the transmission ROW.
Number of transmission line crossings:	Number of high voltage (100 kV or greater) transmission lines crossed by the ROW.
Distance of steep slopes crossed:	Miles of slope greater than 20 percent crossed by the routes.
Length of transmission line parallel:	Miles of the route parallel to existing high voltage transmission lines.
Length of pipeline parallel:	Miles of the route parallel to existing pipelines.
Length of railroad or road parallel:	Miles of the route parallel to existing roadways.
Airfield within 1 mile of the route centerline:	Distance from airfields.

4.1 Natural Resources

Natural resources are an important consideration in the siting process. The Siting Team attempts to reduce impacts to the natural environment by minimizing the crossing of certain features such as wetlands, streams, forested areas and floodplains, which are also often habitats for sensitive species. Natural resource impacts are assessed for potential effects to vegetation and habitat, surface waters, threatened and endangered species, and conservation and recreation lands. Potential impacts discussed in this section are based on publicly available maps and data, as well as consultation with federal and state agencies. A quantitative comparison of the natural resource considerations for the Alternative Routes is presented at the end of this section in **Table 5**, providing both a project total and state specific breakdown.

4.1.1 Soil and Water Resources

Resource Characteristics

Physiographic Setting and Geology

The Project Study Area is located within the Great Valley and South Mountain Physiographic Sections of the Ridge and Valley Physiographic Province (Sevon 2000). The Great Valley Physiographic Section is characterized as a very broad valley with low to moderate relief. Elevations in this region range from 140 to 1,100 feet above mean sea level (amsl). The South Mountain Physiographic Section is characterized by linear ridges partly dissected by deep valleys and has moderate to high relief. Underlying rock consists of metavolcanic rocks, quartzite, and some dolomite. Elevations in this region range from 450 to 2,080 feet amsl (PADCNr 2026a, Maryland 1967).

The regional geology of the Project Study Area is composed primarily of sedimentary rock units ranging from the older Cambrian to the more recent Ordovician Age. The Ordovician aged formations are located along the lower elevations of the Great Valley Physiographic Section and make up a greater part of the Project Study Area. The older Cambrian aged bedrock units are located in the higher elevations of the South Mountain Physiographic Section and make up a smaller portion of the Project Study Area. Karst features are prevalent throughout the area and are illustrated in **Figure 8a** (PADCNr 2026d, MGS 2026 Reger 2008).

Soils

Within the Project Study Area, almost three-quarters of the soils are listed as Prime Farmland soils. In an effort to identify the extent and location of important farmland soils, the National Resources Conservation Service (NRCS) of the U.S. Department of Agriculture (USDA), has inventoried land that can be used for the production of the Nation's food supply. Important farmland soils vary in degree of productivity from prime farmland to unique farmland to farmland

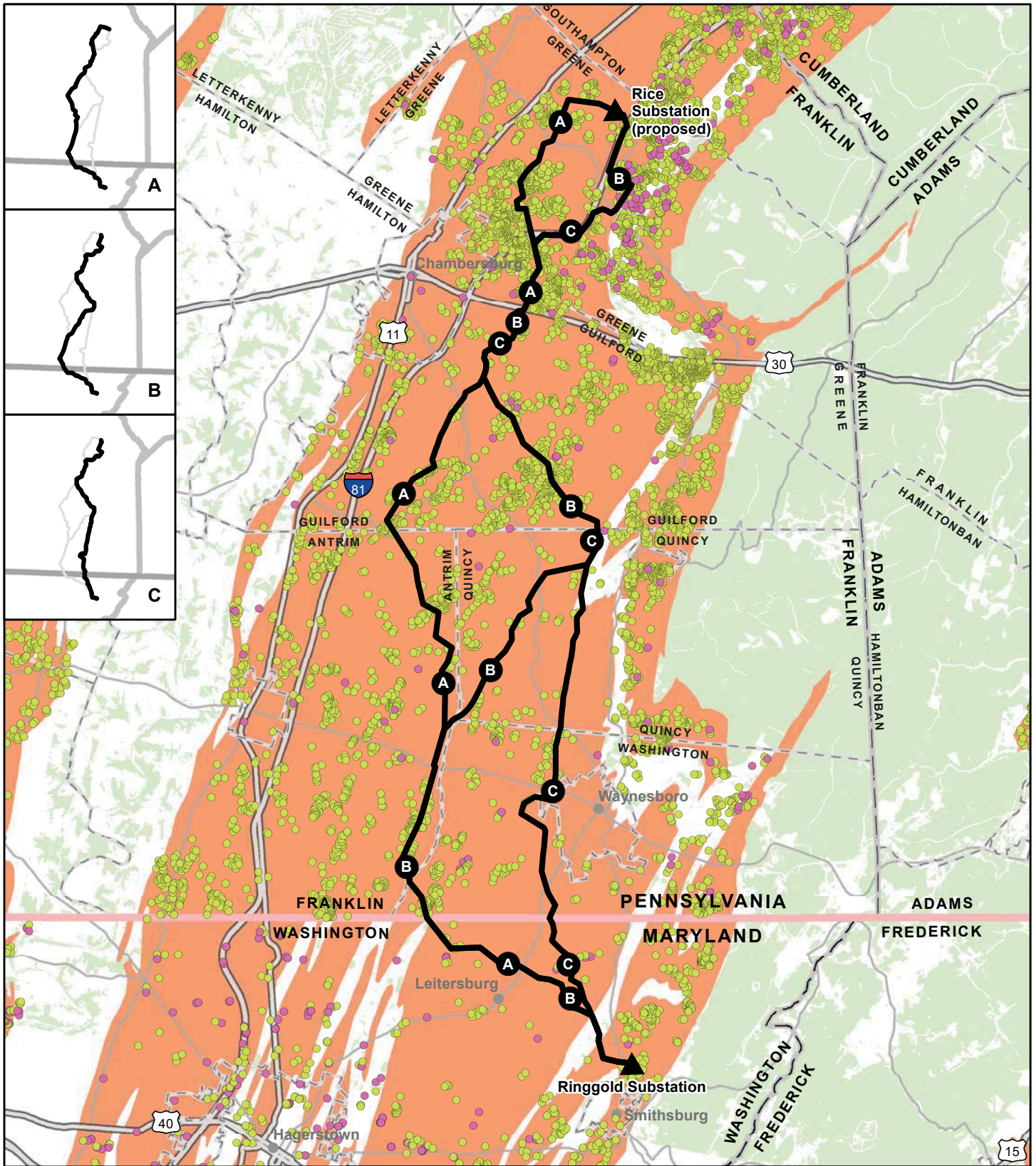
of statewide or local importance. Prime farmland is defined by the NRCS as land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is available for these uses. These soils could be cultivated land, pastureland, forestland, or other land, which is not urban or built-up land or water areas (USDA/NRCS 2003, USDA/NRCS 1975). Prime farmland soils are identified in **Figure 8b**.

Alternative Route Comparison

Karst topography is a unique condition formed from the dissolution of soluble rocks including limestone and dolomite. The topography is characterized by underground drainage systems that undermine the consistency of the rock and can result in sinkholes and caves. These conditions are difficult for transmission structure engineering, which prefer stable bedrock conditions. Landscape features such as sinkholes may also affect structure placement and access road development. Alternative Route B crosses the most area of karst topography (464.5 acres) and the second most karst features (32). Alternative Route C crosses the least karst topography (404.2 acres) and the least karst features (29). Alternative Route A would cross the second most area of karst topography (461.3 acres) and the most karst features (33). Through detailed engineering, the karst features may be avoided through strategic structure placement, therefore, the area of karst topography crossed is the key metric in this comparison.

All of the Alternative Routes cross agricultural lands comprised of prime farmland soils. In general, long term impacts to agricultural operations will be localized to the structure locations with general farming operations continuing within the ROW. The Project will be designed to allow typical farming vehicles to operate within the ROW. Although the impact to prime farmland soils would be localized, Alternative Route C crosses the fewest acres of these soils as the route alignment is shorter than the other options. Due to their longer lengths, Alternative Routes A and B would cross the most prime farmland soils by an additional 60 acres. Overall, the Siting Team attempted to minimize impacts to agricultural lands, where feasible, by routing along the edge of fields, along farm roads, or in pasture lands.

All temporary ground disturbances will be permitted through the appropriate state agency to ensure soils impacts are adequately addressed through the installation and maintenance of best management practices and restoration of disturbed areas. Aside from structure placement and the few instances of permanent access roads, all other soil impacts will be temporary in nature and returned to preconstruction state.



- Substation
- Alternative Routes
- Sinkhole
- Surface Depression
- Limestone
- Highway
- Road
- Forest Cover

Data Sources: Transource (2026),
 USGS Karst Map (2024),
 PADCNR Karst Features (2026),
 MGS Karst Features (2026),
 NLCD Forest Cover (2024)

Coordinate System:
 UTM Zone 18N
 NAD 83

May 11, 2026

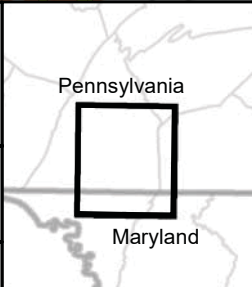
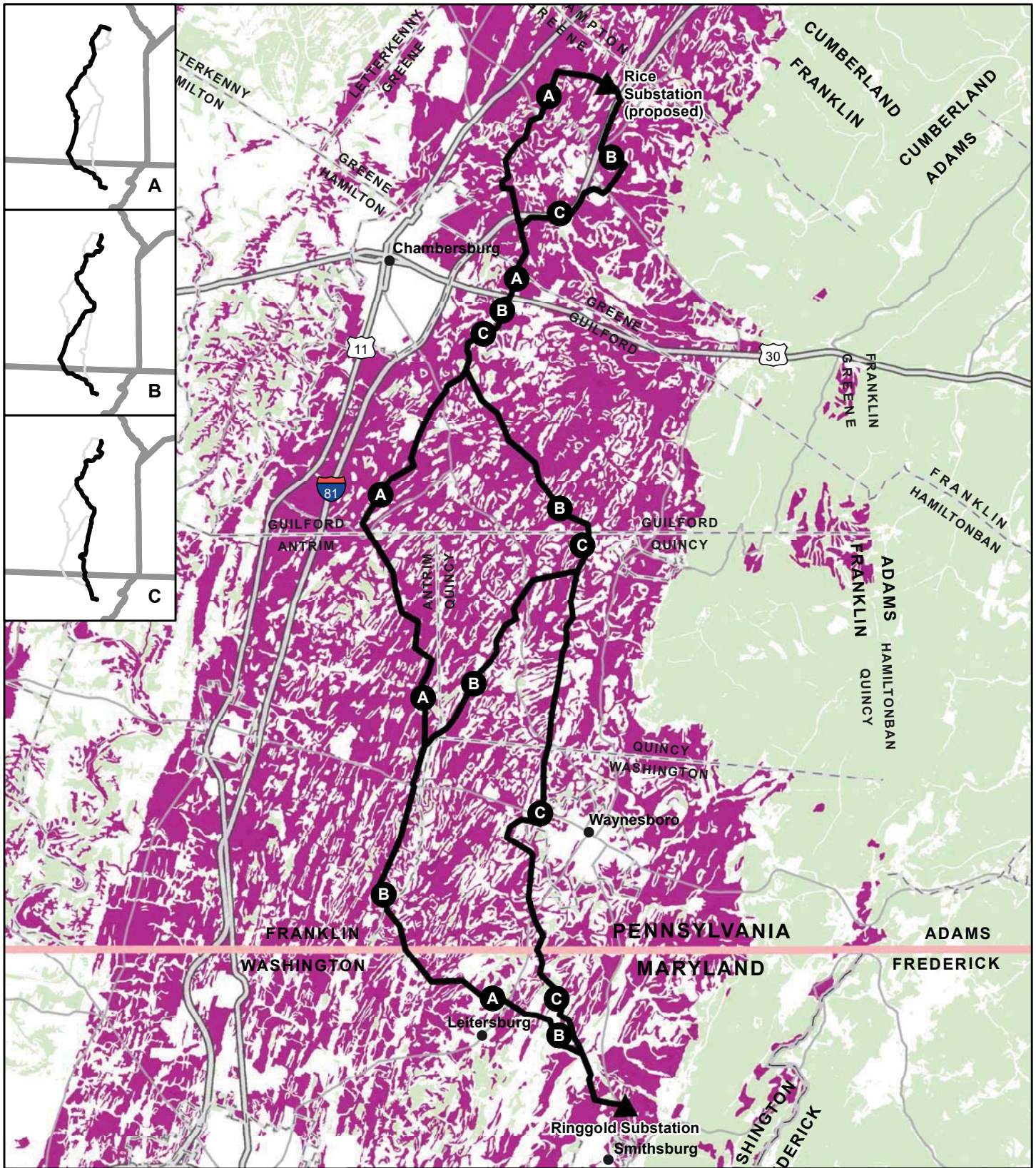


Figure 8a
Karst

Rice - Ringgold 230 kV
 Transmission Line Project

TRANSOURCE

0 1 2 3 4
 Miles



▲ Substation
 — Highway
 — Road
 — Alternative Routes
 ■ Prime Farmland
 □ Forest Cover

Data Sources: Transource (2026),
 USDA/NRCS Soils (2025),
 NLCD Forest Cover (2024)

Coordinate System:
 UTM Zone 18N
 NAD 83

May 11, 2026



Figure 8b
Prime Farmland

Rice - Ringgold 230 kV
 Transmission Line

TRANSOURCE

0 1 2 3 4
 Miles

Water Resources

Streams

The Project Study Area is located primarily within the Conococheague Creek (USGS Hydrologic Unit 0207000408) and Antietam Creek watersheds (USGS Hydrologic Unit 0207000410) of the Potomac River Basin, with a portion of the northern extent located in the Conodoguinet Creek watershed (USGS Hydrologic Unit 0205030502) of the Lower Susquehanna-Swatara River in Pennsylvania and the Conococheague-Opequan basin within both Pennsylvania and Maryland. Water Resources are identified in **Figures 9a and 9b**.

Pennsylvania

According to Pennsylvania Code, Title 25, *Water Quality Standards* (Chapter 93), PADEP has established narrative and numeric water quality criteria necessary to support a variety of protected water uses, which include protection uses for aquatic life (e.g., Cold Water Fishes [CWF], Warm Water Fishes [WWF], Trout Stocking [TSF], and Migratory Fishes [MF]) and special protection waters (e.g., High Quality [HQ] and Exceptional Value [EV]). PADEP assigns all streams in the Commonwealth a Designated Use, which is the water use goal for a particular stream segment, whether or not it is currently being attained. In contrast, a stream’s Existing Use is the use actually attained by existing water quality. PADEP’s antidegradation policy requires existing uses, and the level of water quality necessary to protect existing uses, shall be maintained and protected. As such, the water quality of a stream segment with an existing use that exceeds its designated use may not be degraded below the water quality levels protective of that existing use (PADEP 2026).

Further, the PFBC provides additional protection (i.e., seasonal restrictions) to streams that support trout populations. Streams listed as Approved Trout Stream (stocked) (PFBC 2026a), Class A Wild Trout Waters (PFBC 2026b), or Wild Trout Waters (Natural Reproduction) (PFBC 2026c) are also noted on **Table 2**. None of the streams are listed as Wilderness Trout Waters (PFBC 2023).

Table 2: Pennsylvania Water Quality Designations			
Stream Name	Chapter 93 Designated Use	Chapter 93 Existing Use	Special PFBC Designations
Muddy Run	HQ-CWF, MF	N/A	Natural Trout Reproduction
Rowe Run	CWF, MF	N/A	Approved Trout Waters Portions – PFBC Stocked Trout Stream
Cold Spring Run	HQ-CWF	N/A	Portions – Natural Trout Reproduction

Table 2: Pennsylvania Water Quality Designations			
Stream Name	Chapter 93 Designated Use	Chapter 93 Existing Use	Special PFBC Designations
Antietam Creek	WWF, MF	N/A	N/A
East Branch Antietam Creek	CWF, MF	N/A	Portions – PFBC Stocked Trout Stream Portions – Natural Trout Reproduction
West Branch Antietam Creek	CWF, HQ-CWF, MF	N/A	Portions – PFBC Stocked Trout Stream Class A Wild Trout Portions - Natural Trout Reproduction
Conococheague Creek and Tributaries	WWF, CWF, HQ-CWF, MF	N/A	Portions – PFBC Stocked Trout Stream Portions – Natural Trout Reproduction
Falling Spring Branch of the Conococheague Creek	TSF, HQ-CWF, MF	N/A	Portions - Natural Trout Reproduction Portions – PFBC Stocked Trout Stream Class A Wild Trout
Mountain Run	CWF, MF	N/A	Natural Trout Reproduction
Phillaman Run	CWF, MF	N/A	N/A
Marsh Run	WWF, MF	N/A	N/A

Maryland

According to Code of Maryland Regulations (COMAR) Sections 26.08.02.02 and 26.08.02.02-1, Maryland Department of Environment (MDE) has established narrative and numeric water quality criteria necessary to support a variety of protected water uses, which include protection uses for aquatic life. These include:

- **Use Class I:** Water Contact Recreation, and Protection of Nontidal Warmwater Aquatic Life
- **Use Class I-P:** Water Contact Recreation, Protection of Aquatic Life, and Public Water Supply
- **Use Class II:** Support of Estuarine and Marine Aquatic Life and Shellfish Harvesting
- **Use Class II-P:** Tidal Fresh Water Estuary – includes applicable Use II and Public Water Supply
- **Use Class III:** Nontidal Cold Water
- **Use Class III-P:** Nontidal Cold Water and Public Water Supply
- **Use Class IV:** Recreational Trout Waters
- **Use Class IV-P:** Recreational Trout Waters and Public Water Supply

MDE assigns all streams in the State a Use Class, which is the water use goal for a particular stream segment, whether or not it is currently being attained (MDE 2026). A component of the designated use is the stream’s Existing Use (EU). The EU is the use actually attained by existing water quality. Both Federal and MDE’s State water quality standards requires existing uses, and the level of water quality necessary to protect existing uses, shall be maintained and protected (Code of Federal Regulations [CFR] Title 40 § 131.3 and § 131.12(a)). Use classes include consideration of existing conditions and potential uses which may be made possible by anticipated improvements in water quality (COMAR 2026a, COMAR 2026b, Legal 2015a, Legal 2015b).

Maryland also assesses streams based on the Antidegradation Regulations provided in COMAR Sections 26.08.02.04, 26.08.02.04-1, and 26.08.02.04-2 (COMAR 2026c). These regulations classify streams based on two tiers:

- **Tier 1** specifies the minimum standard that must be met—support of balanced indigenous populations and support of contact recreation—this is often referred to as "fishable-swimmable."
- **Tier 2** protects water that is better than the minimum specified for that designated use.

In Maryland, the Project Study Area is primarily located within the Antietam Creek, Little Antietam Creek, and East Branch Antietam Creek Watersheds. The majority of these stream segments include sections containing Use Classes III-P, IV-Pas noted on **Table 3**. All of these streams are classified as Tier 1 features.

Table 3: Maryland Water Quality Designations			
Stream Name	Use Class	Antidegradation Tier	Antidegradation Catchment
Antietam Creek	Use Class IV-P	Tier I	Tier I
Little Antietam Creek	Use Class III-P	Tier I	Tier I
Unnamed Tributaries to East Branch Antietam Creek	Use Class IV-P	Tier I	Tier I
Beaver Creek	Use Class III-P	Tier I	Tier I
Grove Creek	Use Class III-P	Tier I	Tier I
Marsh Run	Use Class III-P	Tier I	Tier I

Wetlands

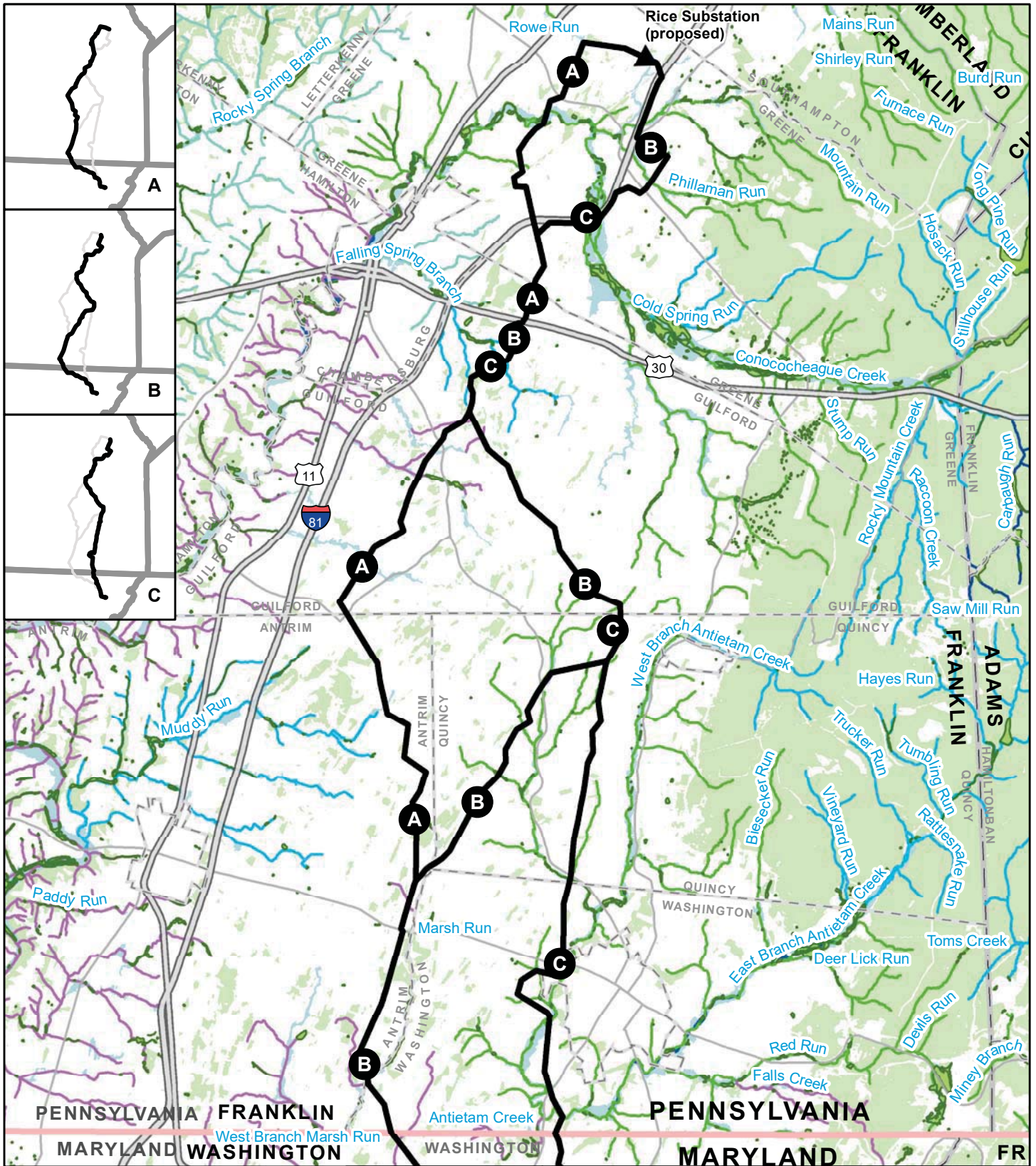
Review of the USFWS National Wetlands Inventory (NWI) mapping indicates numerous small wetlands exist throughout the Project Study Area. These wetlands primarily exist next to streams and within floodplain areas as palustrine wetlands. Palustrine systems include all non-tidal vegetated wetlands and are further classified based on the dominant plant type. These classifications include palustrine emergent (PEM) herbaceous systems, palustrine scrub-shrub (PSS) systems, and palustrine forested (PFO) systems (USFWS 2026).

Maryland has also identified specific nontidal wetlands within the state that exhibit exceptional ecological and educational value. These Wetlands of Special State Concern are the best examples of Maryland's nontidal wetland habitats and are designated for special protection under the State's nontidal wetlands regulations. Many of these special wetlands contain the last remaining populations of native plants and animals that are now considered rare and threatened (MDNR 2026a). One Wetland of Special State Concern is located with the Project Study Area, and none of the routes cross this Wetland of Special State Concern.

Floodplains and Floodways

One hundred year floodplains are areas adjacent to streams which would be inundated by a flood elevation that has a 1-percent chance of being equaled or exceeded each year. The Federal Emergency Management Agency (FEMA) delineates the extent of most 100-year floodplains. Floodplains are located primarily along main branch named streams within the Project Study Area (FEMA 2026). Floodways are the channel of a watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height. FEMA defines these regulatory floodways. Floodways are located primarily within the channel of main branch named streams within the Project Study Area (FEMA 2026).

Streams, wetlands, floodplains and floodways within the Project Study Area are identified in **Figures 9a (Pennsylvania) and 9b (Maryland) – Water Resources**.



- ▲ Substation
- Alternative Routes
- Ch. 93 Designated Use
- Exceptional Value
- High Quality-CWF
- Trout Stocking
- Warm Water Fishes
- Cold Water Fishes
- 100-Year Floodplain
- Floodway
- NWI Wetland
- Highway
- Road
- Forest Cover

Data Sources:
 Transource (2026),
 PADEP (2026),
 USFWS (2026), FEMA (2017),
 NLCD Forest Cover (2024)

Coordinate System:
 UTM Zone 18N
 NAD 83

May 11, 2026

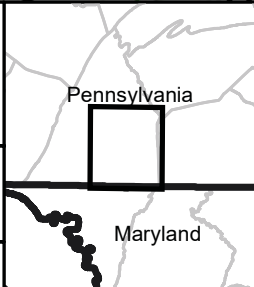
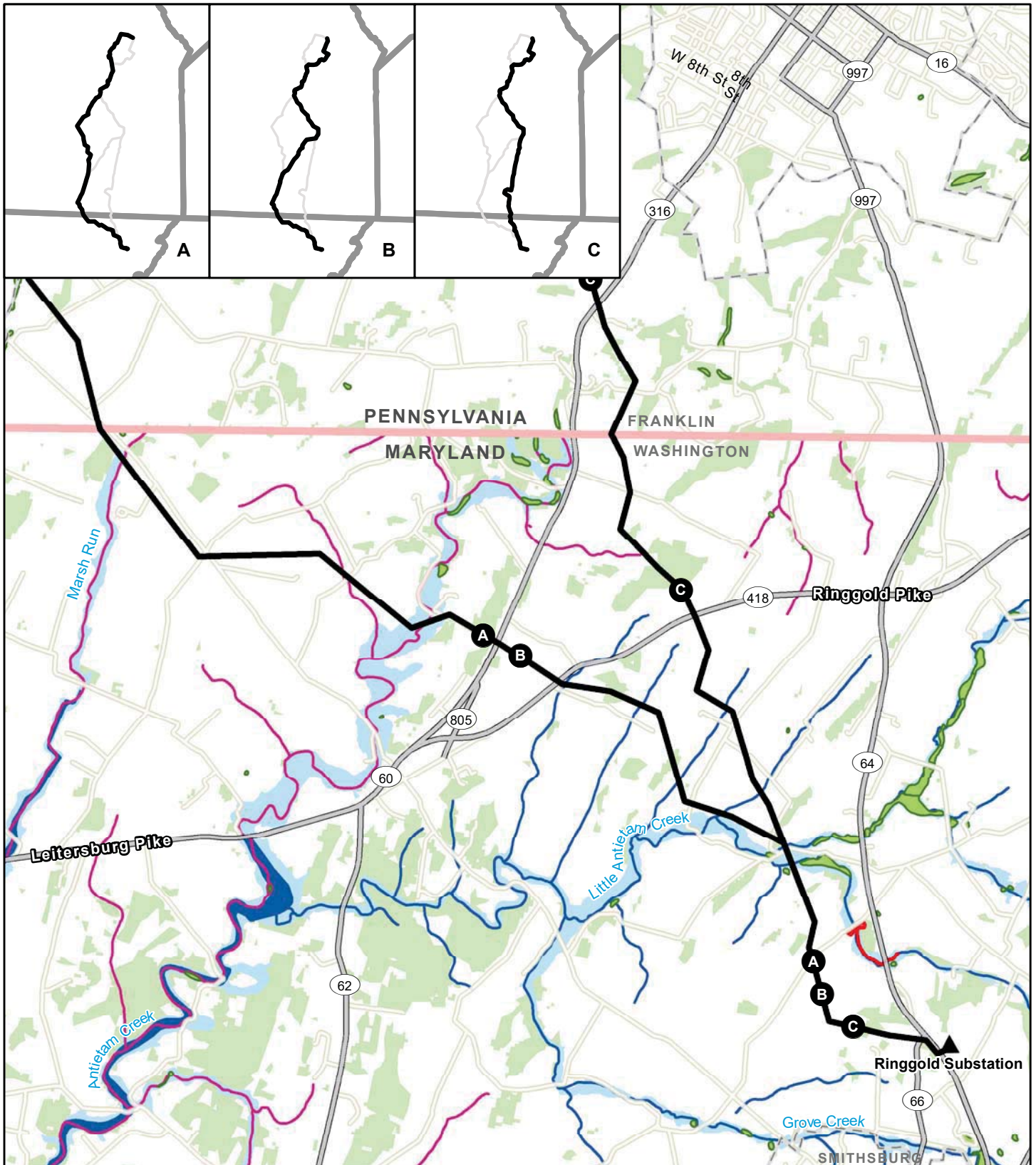


Figure 9a
Water Resources (PA)

Rice - Ringgold 230 kV
 Transmission Line Project

TRINSOURCE

0 1 2 3 4
 Miles



- ▲ Substation
- Alternative Routes
- Class III-P: Nontidal Cold Water and Public Water Supply
- Class IV-P: Recreational Trout Waters and Public Water Supply
- Wetland of Special Concern
- NWI Wetlands
- 100-Year Floodplain
- Floodway
- Major Roads
- Streets
- Forest Cover

Data Sources: Transource (2026), MDE (2026), DNR (2025), USFWS (2026), FEMA (2017), NLCD Forest Cover (2024)

Coordinate System:
UTM Zone 18N
NAD 83

May 11, 2026

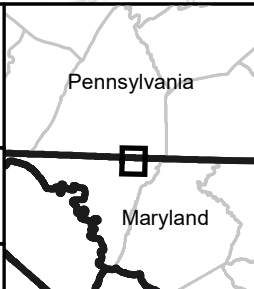


Figure 9b
Water Resources (MD)

Rice - Ringgold 230 kV
Transmission Line Project

TRANSOURCE

0 0.25 0.5 0.75 1
Miles

Alternative Route Comparison

Most of the streams crossed in the northern portion of the Project Study Area in Pennsylvania are classified by PADEP as Cold Water Fishes (CWF) and Warm Water Fishes (WWF) tributaries to Conococheague Creek, which flows through Chambersburg and then south into Maryland. Both of these stream classifications do not receive any special protection by PADEP beyond maintaining their designated use for cold water or warm water fish species. A few tributaries in this area are classified as High Quality (HQ) due to their above average water quality and are thereby eligible for special protection. These streams are usually associated with natural springs that are flowing from the karst limestone bedrock (e.g., Cold Spring Run, Falling Spring Branch). Both of these HQ streams are also considered Wild Trout Waters by the PFBC, which provides additional protective measures.

In central portions of the Project Study Area, the routes extend into the Antietam Creek watershed, which also flows south into Maryland. Most of these streams are also classified as CWF and WWF, but there are no HQ streams in this part of the watershed.

At its southern extent, the Project continues along within the Antietam Creek watershed as it extends into Maryland, where it is listed as a Tier I (minimum standard) stream by MDNR. While many of these streams are not considered special protection, most of these watersheds are classified by MDNR as Use Class III-P (Nontidal Cold Water and Public Water Supply) or Use Class IV (Recreational Trout Waters), which provides them with additional protection due to their social services and ecological values.

Alternative Route A crosses the least number of streams (17) as this option extends through lower sections of the Conococheague Creek and Antietam Creek valleys, where there are fewer, but wider stream features. Alternative Route B shares the most crossings of special protection streams (2), while Alternative A and C will cross one (1) special protection stream. All of these crossings are associated with the HQ-classified Falling Spring Branch watershed, which is located near Chambersburg. Alternative Route C would cross the second fewest streams (22) and span the HQ-classified Falling Spring Branch stream only once, while Alternative Route B crosses the most streams at 25.

Impacts to wetlands by the Alternative Routes are limited due to the few NWI-identified wetland resources in the Project Study Area. In most cases, the transmission line alignment can be engineered to span over the wetland areas thus having limited effect on PEM or PSS wetlands. PFO wetlands however would be affected by the removal of the trees within the 130-foot wide ROW. No permanent structures or other sources of fill are anticipated in any wetland but the use of timber matting for temporary access road crossings may be required in certain situations.

Alternative Route A would not cross any PFO wetlands, but Alternative Routes B and C would cross the same 0.9 acre PFO wetland area. Overall, considering both PEM, PSS, and PFO wetlands Alternative Routes A and B would cross the most wetland area (1.3 acre) in total and Alternative Route C would cross the least total wetland area (1.0 acre).

FEMA floodplains in the Project Study Area are fairly common due to the level terrain of the Conococheague and Antietam Creek valleys, which allows for floodwaters to more easily overflow their banks. These floodplains primarily consist of narrow buffers along streams and are not wide resources. Placement of a transmission line structure within a floodplain area would need to be approved by the state regulatory agencies as changes to the hydrology of floodwaters may affect properties downstream. As with wetlands, the alignment of the transmission line can usually be engineered to span floodplain areas, with the potential impact being constrained to tree clearing. Alternative Route A would cross the least floodplain area (20.6 acres) (along with the fewest streams) while Alternative Route B would cross the most floodplain areas (26.9 acres). Alternative Route C would encounter the second most floodplain areas (23.1 acres) but the only floodway area (0.9 acre), which defines the area of concentrated floodwater flow and protected by the regulatory agencies to avoid potential modifications in flooding behaviors. No structures will be built within the floodway areas of any stream, which will mitigate any potential impact.

In Maryland, the area adjacent to a stream corridor is also considered by the state regulatory agencies as a riparian buffer to the stream that provides water quality protection and habitat area. Although trees within the riparian area may be cleared, lower growing vegetation would be allowed to grow. Alternative Routes A and B would result in the most riparian impacts (1.7 acre) as these alignments extend from west to east toward the Ringgold Substation and across a longer section of the state, whereas Alternative Route C would have limited riparian buffer impact (0.6 acre) as it would have a shorter north to south alignment across the state of Maryland, and follows an existing utility corridor which crosses these streams in areas where the riparian vegetation has already been cleared and typically maintained in an herbaceous or scrub-shrub state.

Wetland and floodplain impacts will be minimized to the best extent practicable by spanning these resources where feasible. Streams will always be spanned by the transmission line, but some minor crossings may be required for permanent or temporary access roads. These stream access road crossings will be avoided where possible, but where deemed required it will be designed and permitted under the direction of the federal and state agencies.

4.1.2 Wildlife Habitat and Sensitive Species

Resource Characteristics

Typical wildlife species found within the Project Study Area include those found in wetlands, forested habitats, and open/agricultural lands. These habitats contain a diverse population of amphibians, fish, reptiles, birds and mammals. Common mammals within these habitats include raccoon (*Procyon lotor*), opossum (*Didelphia virginiana*), fox (*Vulpes vulpes*), skunk (*Mephitis mephitis*), porcupine (*Erethizon dorsatum*), and white-tailed deer (*Odocoileus virginianus*). More isolated regions such as Michaux State Forest may also contain black bears (*Ursus americanus*), beaver (*Castor canadensis*), and bobcat (*Lynx rufus*).

Important Bird Areas (IBA) are internationally recognized, scientifically identified sites critical for the conservation of bird populations worldwide. The Project Study Area does extend into the South Mountain – Caledonia State Park and Michaux State Forest and Maryland Blue Ridge IBAs that run north to south along the eastern portion of the Project Study Area (National Audubon Society 2026). These areas are the northernmost section of the Blue Ridge Mountains in Pennsylvania and Maryland and contain interior forest that attracts several species of migratory species, as well as waterfowl and wading birds. Many foot trails exist within the state forest area, and several rock outcroppings provide views of raptors during the fall migration season.

The Project Study Area contains a diverse range of habitat, and therefore, has the potential to host a number of different types of threatened and endangered (T&E) species. These may include species of plants, birds, fish, mammals, bats, insects and spiders, reptiles and amphibians, or mussels.

A review of the PADCNR and MDNR Natural Heritage Program Databases will be conducted during the permitting process to determine the potential presence of T&E species along the Proposed Route. Specifically, the Pennsylvania review of the Natural Heritage Program Databases would evaluate for federal (USFWS) and state (PADCNR, PFBC and PGC) listed species. In Maryland, an initiation letter would be submitted to MDNR and USFWS to commence Project specific consultation. Within both states, further coordination with these federal and state agencies will be required to obtain route alignment specific T&E species data.

Based on review of the *Natural Areas Inventory of Franklin County, Pennsylvania* (The Nature Conservancy 2004) and the MDNR *List of Rare, Threatened, and Endangered Species of Washington County* (MDNR 2019), several animal and plant species of concern may be located in the Project Study Area.

Natural Areas - Pennsylvania

Natural Areas in Franklin County were surveyed by the Pennsylvania Science Office of The Nature Conservancy (TNC) and are outlined in the Natural Area Inventories (NAI) of Franklin County. The NAI provides maps and detailed information concerning locations of known outstanding natural features, flora, fauna, and geology in Franklin County, Pennsylvania. These sites represent good examples of rare habitat that support an uncommon diversity of plant and wildlife habitat. In addition, the PADCNr also identifies specific wild and natural areas within their state park or state forest systems that are also based on special ecological conditions or the presence of uncommon plants or animals. PADCNr has indicated that South Mountain and Michaux State Forest contain some unique areas that provide habitat for several listed species.

Table 4 below provides a list of the TNC and PADCNr identified natural areas within the Project Study Area in Franklin County, Pennsylvania. These areas are illustrated in **Figure 10**.

Table 4: Natural Areas within the Project Study Area - Pennsylvania		
TNC-Identified		
Name	Description	Proximity to Alternative Routes
<i>Antietam West Branch</i>	Contains a State endangered bird species of concern, with past breeding observed at the site.	Crossed by Alternative Route C
<i>Falling Spring</i>	Site contains a species of concern.	Crossed by Alternative Routes A, B, and C
<i>Mountain Run, Stillhouse Hollow Ponds</i>	Contains a number of excellent quality vernal pools, as well as several plant species of concern.	1.0 mile east of Alternative Routes B and C
<i>Muddy Run Spring</i>	Contains a population of an animal species of concern.	0.7 miles southwest of Alternative Route A
<i>Muskrat Fen</i>	Located along the Conococheague Creek and contains a relatively uncommon fen habitat. Contains four plant species of concern.	0.9 mile east of Alternative Routes B and C
<i>Nunnery Spring</i>	Contains a population of State animal species of concern in a spring fed stream in an agricultural and residential setting.	0.9 mile east of Alternative Route C

Table 4: Natural Areas within the Project Study Area - Pennsylvania

TNC-Identified		
Name	Description	Proximity to Alternative Routes
<i>Siberia</i>	Contains a PA threatened plant species, as well as several natural communities supporting a diverse, interesting flora.	2 miles west of Alternative Route A
<i>Waynecastle Old Field Habitat</i>	Contains a good population of a number of State listed plant species of concern.	Crossed by Alternative Routes A and B
<i>Zullinger Spring</i>	Contains a State animal species of concern in a tributary to the West Branch Antietam Creek.	Crossed by Alternative Route C

Natural Areas - Maryland

Natural Areas in Maryland were surveyed by MDNR. MDNR lists one natural area in Washington County, which exists outside of the Project Study Area (MDNR 2026b), therefore, no Natural Areas are within the Project Study Area in Washington County, Maryland.

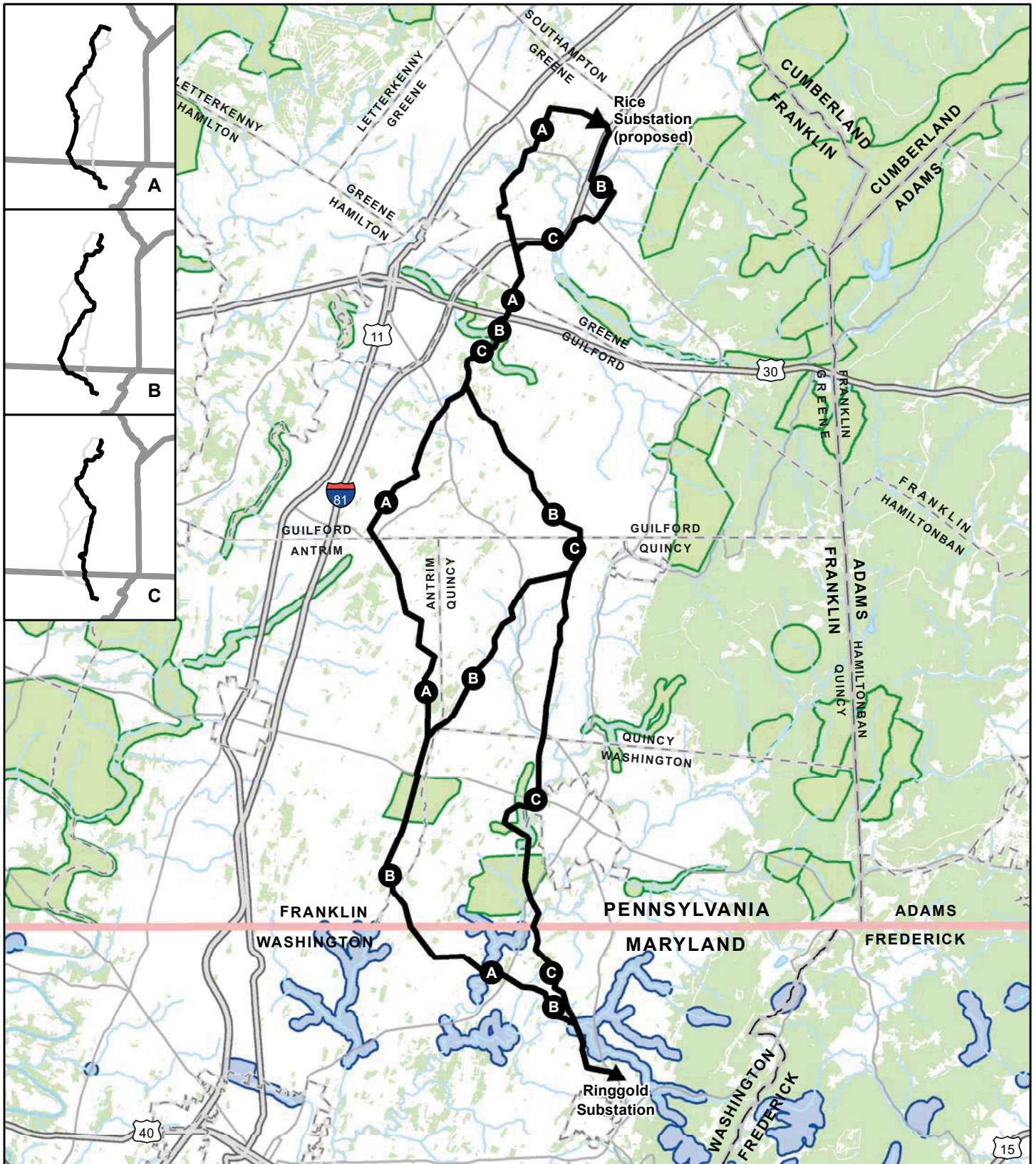
MDNR does provide potential T&E habitat information through its Sensitive Species Project Review Areas (SSPRA), which is a GIS based search website that illustrates polygons of potential habitat areas (MDNR 2021). These polygons are categorized by groups, with Group 1 habitat areas being focused on federally listed species, Group 2 being focused on state listed species, Group 3 being composed of species of concern to MDNR, and Group 4 being related to bald eagle nests. Review of the SSPRA data indicates that four Group 2 and one Group 3 polygons around stream networks exist within the Project Study Area. These habitat areas are illustrated in **Figure 10**.

Alternative Route Comparison

While the potential for T&E species is known whether the specific habitat will be impacted will not be known until after the Proposed Route alignment is field reviewed and habitat assessments are completed in support of federal and state permitting. The data used in the Siting Study provides information on identified natural areas that contain habitat to support some of these species and were used as guides for routing the Study Segments. As illustrated in **Figure 10**, potential T&E habitat is focused along several of the main water courses extending across the Project Study Area and in scattered points throughout the area, making avoidance of these sensitive areas difficult.

Crossing through TNC-identified natural areas in Pennsylvania or the sensitive species polygons in Maryland does not dictate that an impact will occur, however, the potential of encountering T&E species or their habitat may be higher in these areas. Based on the analysis, although Alternative Routes A and B would cross the least acreage of natural areas (37.2 acres), all the Alternative Routes parallel existing infrastructure through these predominantly non-forested natural areas and can therefore span potential T&E habitat. None of the Alternative Routes are anticipated to cause significant impacts to these natural areas, as existing land use has led to fragmentation of forest within the natural areas, and the line would minimally add to that fragmentation. Although Route C crosses the most acreage of natural areas (43.2 acres), it poses less new impact by paralleling existing transmission ROWs through these areas, more so than Route A or B which would introduce a new utility ROW.

All required federal and state agency consultations would be completed for the Proposed Route to determine final species habitat locations and requirement for species specific surveys. Coordination will ensure whether areas can be avoided, or where appropriate, timing restrictions applied to construction activities to avoid impact during breeding or roosting seasons.



- ▲ Substation
- Alternative Routes
- MD Sensitive T&E Area
- PA Core Habitat of Biological Diversity Area
- Highway
- Road
- Stream
- Forest Cover

Data Sources: Transource (2026), Western PA Conservancy (2014), PASDA (2026), MD DNR (2026), NLCD Forest Cover (2024)

Coordinate System:
UTM Zone 18N
NAD 83

May 11, 2026



Figure 10 - Threatened and Endangered Habitat

Rice - Ringgold 230 kV Transmission Line Project

TRANSOURCE

0 1 2 3 4
Miles

Table 5: Natural Resource Evaluation Criteria

Alternative Route	Unit	A	B	C
General				
Length	miles	30. PA: 23.5 MD: 6.6	31.0 PA: 24.4 MD: 6.6	27.9 PA: 23.5 MD: 4.4
Water Resources				
Total streams crossed	count	17 PA: 8 MD: 9	25 PA: 16 MD: 9	22 PA: 18 MD: 4
High/Exceptional/Special Protection streams crossed	count	1 PA: 1 MD: 0	2 PA: 2 MD: 0	1 PA: 1 MD: 0
Riparian buffers crossed - Applicable to MD (25 foot buffer) - Not applicable to PA	acres	1.7 PA: 0.0 MD: 1.7	1.7 PA: 0.0 MD: 1.7	0.6 PA: 0.0 MD: 0.6
Forested wetlands in the ROW (NWI)	acres	0	0.9 PA: 0.9 MD: 0.0	0.9 PA: 0.9 MD: 0.0
PEM/PSS wetlands in the ROW (NWI)	acres	1.3 PA: 1.3 MD: 0.0	0.4 PA: 0.4 MD: 0.0	0.1 PA: 0.1 MD: 0.0
FEMA-designated floodplain crossed by ROW	acres	20.6 PA: 13.2 MD: 7.4	26.9 PA: 19.5 MD: 7.4	23.1 PA: 21.1 MD: 2.0

Table 5: Natural Resource Evaluation Criteria				
Alternative Route	Unit	A	B	C
FEMA-designated floodway crossed by ROW	acres	0	0	0.9 PA: 0.9 MD: 0.0
Geological, Topographical, and Soil Resources				
Prime and unique farmland soil in the ROW [1]	acres	307.7 PA: 265.9 MD: 41.8	308.2 PA: 266.4 MD: 41.8	245.9 PA: 212.7 MD: 33.2
Karst topography in the ROW (represents acres of Dolomite or Limestone within a segment ROW (karst-derived geology))	acres	461.3 PA: 368.9 MD: 92.4	464.5 PA: 372.1 MD: 92.4	404.2 PA: 344.9 MD: 59.3
Other karst features (i.e., sinkholes, surface depressions, underground springs) in the ROW	count	33 PA: 32 MD: 1	32 PA: 31 MD: 1	29 PA: 29 MD: 0
Wildlife and Habitat				
Threatened, endangered, rare or sensitive species targeted areas within the ROW	acres	37.2 PA: 25.4 MD: 11.8	37.2 PA: 25.4 MD: 11.8	43.2 PA: 36.8 MD: 6.4

PA: and MD: = State specific impact breakdown.

[\[1\] Prime farmland is land that has the best combination of physical and chemical characteristics for producing crops](#)

4.2 Land Use

Potential land use impacts considered in the siting process included proximity of Alternative Routes to residential, commercial and industrial development, institutional uses (e.g., schools, places of worship, cemeteries, and hospitals), cultural resources, and overall land use of the area. A comparison of the land use considerations for the Alternative Routes is presented at the end of this section in **Table 8**. Land use within the Project Study Area is shown in **Figure 11**.

4.2.1 Agricultural and Forestry Resources

Resource Characteristics

Forestry

Upland forest communities once dominated the natural landscape within the Project Study Area. However, over time the natural land cover has become highly modified by agricultural uses. Land use within the Project Study Area consists of agricultural, woodlands, residential, commercial and industrial uses. Agricultural lands make up approximately half of the land use with pasture accounting for 10% and crop land accounting for 40%. Residential, commercial and industrial land uses account for approximately 30% of the area while woodlands make up the remaining 20%.

Forests throughout the Project Study Area are fragmented and scattered, with the exception of concentrated forested area along the steep slopes of South Mountain to the east, portions of which are part of Michaux State Forest. Forests in the region are comprised of two main types, Appalachian Oak forests, which are dominated by oaks and other hardwood species, such as black birch red maple, black gum, and hickories, and a smaller percentage of Oak/Hickory/Pines forests, which are dominated by broadleaf deciduous and needle-leaf evergreen trees, such as hickory, Virginia pine, pitch pine, chestnut oak, and black oak (The Nature Conservancy 2004).

In both Pennsylvania and Maryland, some of the forests are preserved within State and county agricultural preservation programs. In Maryland, additional protection to forests is given through the Maryland Forest Conservation Act in order to reduce the loss of forest cover due to development and improve water quality (MDNR 1997). In addition, Washington County, Maryland has instituted a Forest Conservation Ordinance in order to further protect forests by requiring mitigation for forest disturbance (Washington County, MD 2014).

Alternative Route Comparison

Forest clearing concerns from an environmental perspective focus on fragmentation, which reduces the viability of a forest ecosystem through the possible introduction of invasive plant species and changes in the wildlife community dynamics. Trees are also specifically tied to the habitat requirements of several T&E bat species, which use trees for roosting at night during the

summer. Clearing trees may have a direct impact on potential bat habitat, thus the less tree clearing required, the less possibility of creating a T&E impact. Tree clearing impacts were assessed by digitizing forested areas from recent aerial photography. All Alternative Routes would require similar tree clearing, ranking from Route A (66.2 acres) with the most, Route B (54.6 acres), to the least amount required along Route C (49.8 acres). Therefore, each of the routes may involve overall potential impacts to the T&E bat species, though Alternative Route C would pose the least impact. Fragmentation of forest habitat was minimized through paralleling existing infrastructure, where feasible.

Agricultural Preservation

Agricultural land is a predominant characteristic of the land use in the Project Study Area, with greater concentration on the flatter topography between the Appalachian Mountains to the west and South Mountain to the east. Agricultural lands are predominantly used for row crops, with other areas used as pasture for dairy cattle. A number of orchards also exist across the Project Study Area. The majority of these agricultural lands are associated with single farm complexes that may consist of several hundred acres.

Within the Project Study Area, prime agricultural soils accounts for approximately 33% of the soils in Franklin County, Pennsylvania (Franklin County 2012), and approximately 43% of the soils in Washington County, Maryland (USDA, NRCS 2003). Both States and counties institute agricultural preservation programs in order to preserve agricultural uses of high quality farmland. Both Maryland and Pennsylvania offer agricultural preservation easement initiatives in order to preserve the integrity of the local farmland by precluding the development or improvement of a parcel for a purpose other than agricultural uses. **Figure 12** depicts those parcels that have agricultural easements traversed by the Alternative Routes.

Pennsylvania

In Pennsylvania, the State easements are typically managed by the county. In Franklin County, agricultural easements are purchased at the county level and approved by the State. Farms within Agricultural Security Areas (ASA) may apply for easement purchase. ASAs are a State program whereby a number of adjacent participating farms join together to form an area consisting of a minimum of 250 acres in which participants receive special protection regarding local ordinances affecting farming activities, nuisance complaints, and review of farmland condemnation by state and local government agencies. A farm must be part of an ASA to qualify for consideration in the Easement Purchase Program. In Franklin County, easements are purchased through the Franklin County Agricultural Land Preservation Board (FCALPB). The FCALPB oversees the terms and conditions of the permitted agricultural activities, as well as restrictions that are established by an easement. Such restrictions include development of buildings and other structures,

subdivision, mining, rural enterprises, and soil and water conservation (FCALPB 2024). Utilities are a permitted use within the FCALPB easements.

Within Franklin County, and the limits of the Project Study Area, the USDA/NRCS holds a few agricultural easements through their Agricultural Conservation Easement Program (ACEP), formerly referred to as the Farm and Ranch Lands Protection Program (FRPP). Alternative Route B crosses one of these USDA/NRCS easements. No other Alternative Routes cross these USDA/NRCS easements in Pennsylvania.

Maryland

In Maryland, there are two ways to preserve farmland: easement donation and easement sale. Easements may be purchased by both State and county governments. Easements may be donated through the Maryland Environmental Trust (MET), which is a component of the MDNR. MET easements are highly customizable to the type of preservation applicable to the individual tract of land and regulate the type of development permitted. This type of easement is considered a charitable donation that may be deducted from Federal income taxes (MDNR 2026c).

Easements in Maryland may be sold through a number of means. Washington County has instituted the Washington County Agricultural Land Preservation District, by which the county purchases the development rights to an agricultural property for a period of ten years. Once a part of this program, a farm is eligible to sell development rights through the Maryland Agricultural Land Preservation Program (MALPP), receive tax credits, and be protected from nuisance complaints (Washington County 2018). An easement may also be sold through the Maryland Agricultural Land Preservation Foundation's (MALPF) MALPP, the Maryland Rural Legacy Program, or the GreenPrint Program. The MALPF is a part of the Maryland Department of Agriculture (MDA) and places restrictions on development on Prime Farmland and woodland, permanently preserving the property for agricultural use. MALPF will purchase an easement that will remain in perpetuity on the property deed (MDA 2026). The Maryland Rural Legacy Program (MRLP) is a part of the MDNR and provides funding to preserve large tracts of land through public-private partnerships in order to allow local land trusts and governments to enhance natural resources, agriculture, forests and the environment. These easements protect the most ecologically valuable resources that impact the Chesapeake Bay and local waterways (MDNR 2026d). Easements may also be sold through the GreenPrint Program, which is an initiative of the MDNR that designates Targeted Ecological Areas (TEAs) that have high ecological value, and targets adjacent lands for acquisition and easements (MDNR 2026e).

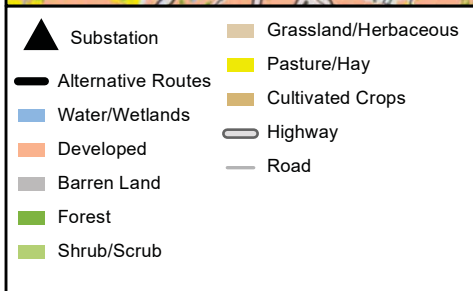
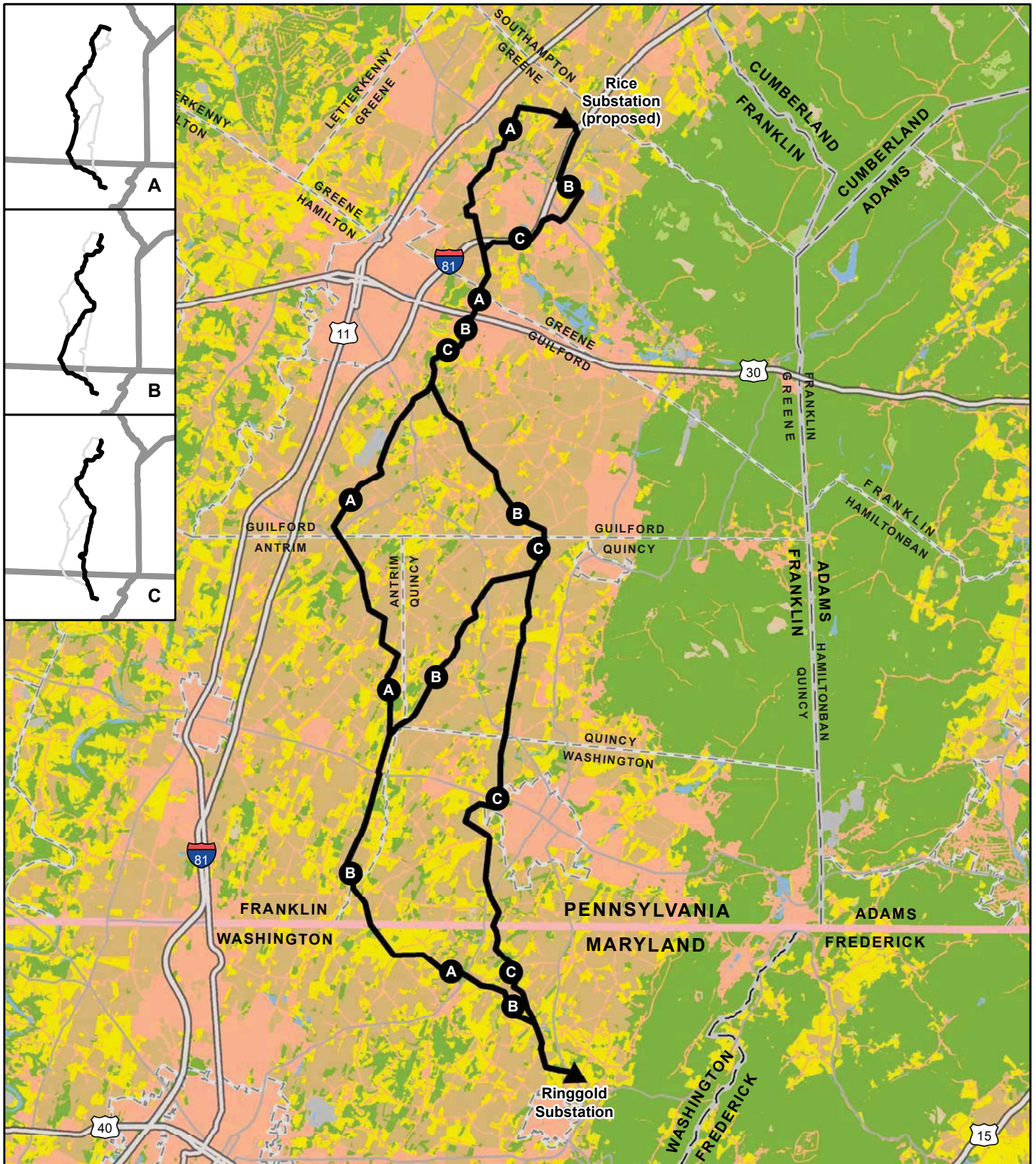
In the limits of the Project Study Area in Washington County, there are two USDA/NRCS agricultural ACEP easements, neither of which are crossed by any of the Alternative Routes.

Alternative Route Comparison

Agricultural lands are a dominant component of the landscape in the Project Study Area and many of these lands are protected from development through agricultural easements. Removal of the development rights of these lands was encouraged to maintain the viability of the farms by eliminating outside pressures to sell land for residential or commercial development. In Pennsylvania, the state easements used by Franklin County for the agricultural preservation allow for transmission line crossings. In most cases, the agricultural easement language does not restrict the ability of an electric transmission line to cross these lands; placement of the structures on a preserved property is not considered development as it does not remove the ability of the landowner to use the land under the transmission lines for agricultural purposes. In general, Alternative Routes were sited to minimize impacts to farming operations by paralleling the edge of fields or through placement of structures at access road locations, where possible. Alternative Route A would cross the least agricultural easement (32.5 acres), Alternative Route B would cross the most (69.2 acres), whereas Alternative Route C crosses a smaller amount (55.2 acres) compared to Alternative Route B.

Information provided by the farm landowners crossed by the various Study Segments highlighted that using pasture or rangeland would be considered less intrusive on farm operations than crossing over croplands. Pasture and rangeland often consist of landscape elements, such as rock outcrops or steeper slopes, which restrict the land use to cattle or horse grazing and that structure placement in these fields has limited effect on the agricultural use. Croplands involve more comprehensive attention through plowing, planting, and harvesting processes that require direct access to most of the area throughout the growing season. Through the siting process, alignment shifts were made to maximize the use of pasture lands and minimize crossing croplands, where feasible. Routing the transmission line along parcel boundaries and fields were feasible, also helped to reduce overall potential impacts. Overall Alternative Route A would cross the most pasture land (86.1 acres) and Alternative Route C would cross the least (53.5 acres). Review of the cropland data notes that all of the routes would cross a considerable number of acres with Alternative Route C crossing the most (307.6 acres) and Alternatives Route A and B crossing less cropland (281.8 and 293.2 respectively).

Numerous orchards are located throughout the Project Study Area. Typically, orchards can still grow within the transmission line ROW, and structures can be engineered to meet appropriate clearances. Orchard tree species are typically restricted to around 15 feet. As with croplands, the siting process worked to place alignments in areas across an orchard where structures may be located near access roads or along the edge of a section, thereby reducing the potential loss of trees and minimizing the effect of the structures on the orchard operations. Alternative Route A crosses the most orchard area (10.4 acres). Alternative Route B crosses the fewest acres of orchards (4.8 acres), while Alternative Route C crosses the second most acres (6.2).



Data Sources: Transource (2026), NLCD Land Use Land Cover (2024)

Coordinate System: UTM Zone 18N NAD 83

May 11, 2026

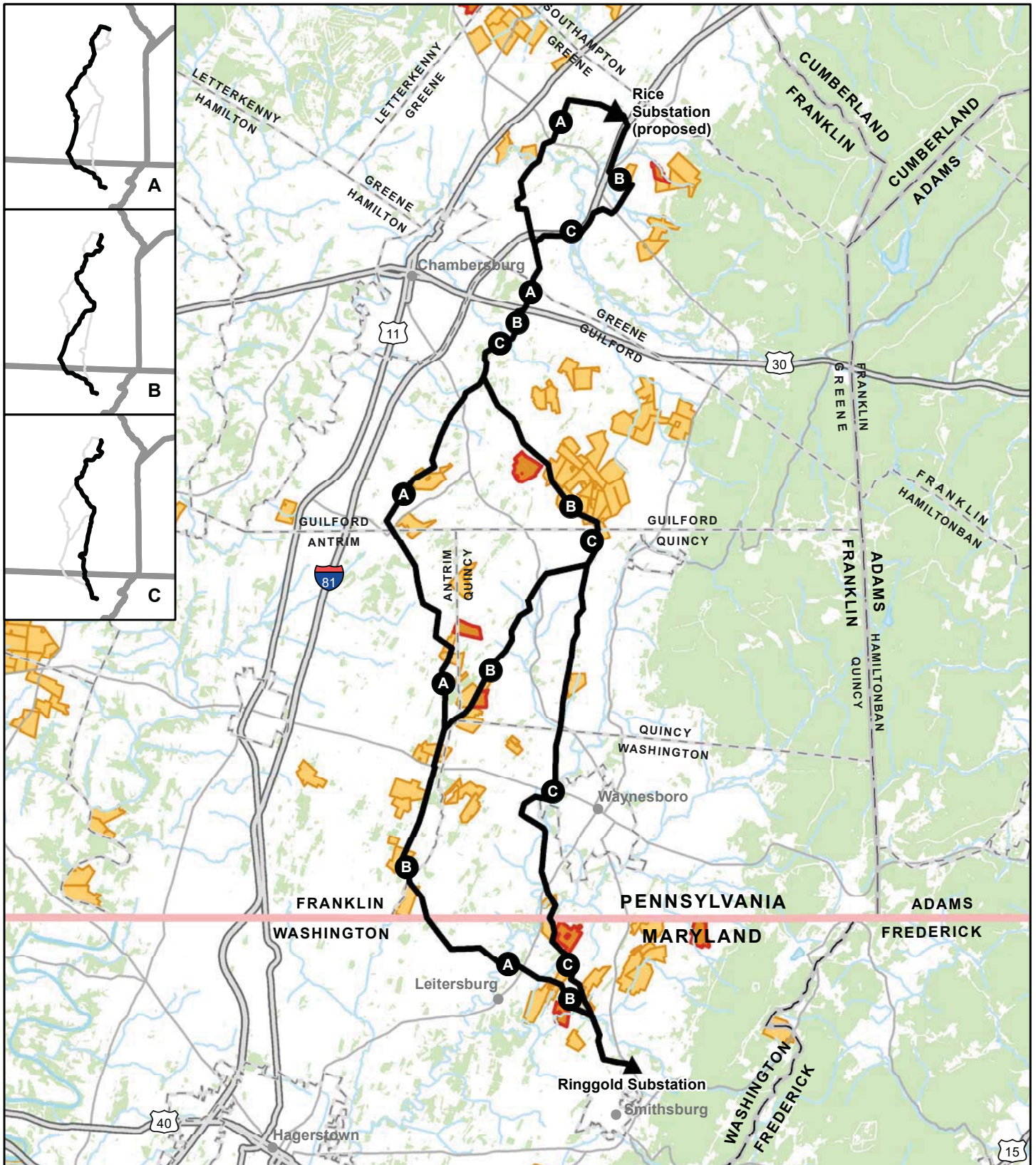


Figure 11
Land Use

Rice - Ringgold 230 kV Transmission Line Project

TRANSOURCE

0 1 2 3 4
Miles



- ▲ Substation
- Alternative Routes
- USDA Agricultural Conservation Easement
- Local Agricultural Easement
- Highway
- Road
- Stream
- Forest Cover

Data Sources: Trnsource (2026),
 Washington County GIS Office (2025),
 Franklin County GIS Office (2025),
 USDA/NRCS (2025),
 NLCD Forest Cover (2024)

Coordinate System:
 UTM Zone 18N
 NAD 83

May 11, 2026

Pennsylvania

Maryland

Figure 12
Agricultural Easements

Rice - Ringgold 230kV
 Transmission Line Project

TRNSOURCE

0 1 2 3 4
 Miles

4.2.2 Recreation and Conservation Lands

Resource Characteristics

Recreation and Conservation Lands are typically defined as government owned or controlled lands that are publicly accessible and provide special conservation value and social service. Scenic vistas, wilderness areas, state game lands, and public parks are several examples of these lands. Recreational areas are depicted in **Figure 13**.

Wilderness Areas

The National Wilderness Preservation System (NWPS) preserves wild lands with the highest level of government protection, and includes National Forests, National Parks, National Wildlife Refuges, and Bureau of Land Management (BLM) lands. The Project Study Area does not contain lands managed by the National Wilderness Preservation System (NWPS 2026).

Pennsylvania

State Lands

Portions of Michaux State Forest are within the Pennsylvania section of the Project Study Area. Michaux State Forest consists of more than 85,500 acres in the area of South Mountain and includes public use facilities and trails (PADCNR 2026c).

There are no Pennsylvania State Game Lands within the Project Study Area (PGC 2026). Two Pennsylvania state parks, Caledonia and Mont Alto, are located along the eastern perimeter of the Project Study Area (PADCNR 2026d).

There are a number of small local community parks throughout the Project Study Area. These parks are primarily located in more densely developed areas and serve local communities. Specific examples include Norlo Park in Guilford Township and Greene Township Park.

Maryland

Wildlife Management Areas

In Maryland, Wildlife Management Areas (WMA) are managed by the Wildlife and Heritage Service. WMAs are established in order to maintain, enhance, create, and preserve, and protect diverse wildlife populations and their habitat (MDNR 2026f). The Project Study Area is not located within a WMA in Washington County, Maryland (MDNR 2026g).

State Parks

In Washington County, Maryland, there are no State parks within the Project Study Area (Maryland 2017).

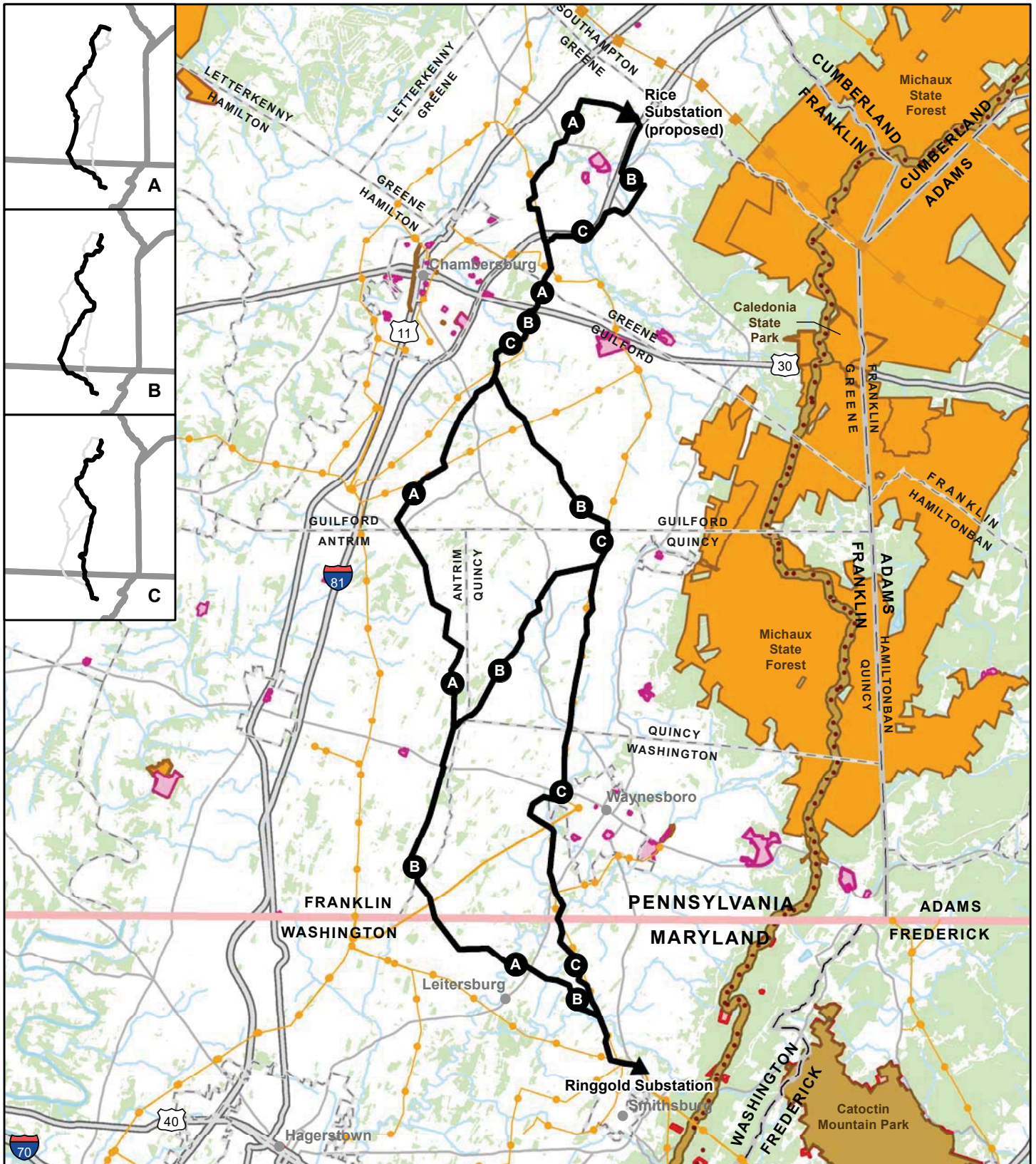
Public Trails

The Appalachian Trail is a 2,190 mile hiking trail extending from Maine to Georgia (Appalachian 2026). This trail is a federally protected recreational area that borders the eastern side of the Project Study Area along South Mountain, mostly within Michaux State Forest in Pennsylvania and preserved corridors in Maryland.

In addition, small community trail networks exist throughout the Project Study Area and serve the local community's recreation needs.

Alternative Route Comparison

None of the Alternative Routes will cross any state lands, recreational areas, or trail systems.



- Substation
 - Alternative Routes
 - Appalachian Trail
 - National Park
 - Federal Land
 - State Land
 - Local Park
- Existing Transmission Line**
- Below 100 kV
 - 115kV - 230 kV
 - Greater than 345kV
 - Highway
 - Road
 - Stream
 - Forest Cover

Data Sources: Transource (2026), Rextag Electric Transmission (2021), PASDA (2026), MD GIS Office (2026), Franklin Co GIS Office (2025), Washington Co GIS Office (2025), NLCD Forest Cover (2024)

Coordinate System:
UTM Zone 18N
NAD 83

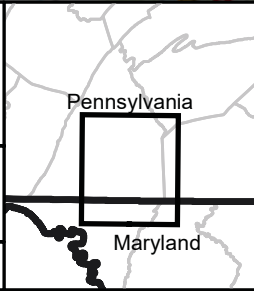


Figure 13
Recreation and Aesthetics

Rice - Ringgold 230 kV
Transmission Line Project



May 11, 2026

4.2.3 Developed Land Use

Resource Characteristics

Characteristics of the developed land were identified, such as urban and developed land, institutions, mineral and subsurface resources, and airports. As detailed in **Section 2.3.3** meetings were held with the counties, and in Pennsylvania, the municipalities within the Project Study Area to discuss any potential future development plans. Within the Project Study Area there were numerous potential future development plans based on county/municipal meetings and landowner input. The data gathered from these meetings and discussions were considered during the siting process.

Urban and Developed Land

Developed areas within the Project Study Area are fairly concentrated, surrounded by land dominated by agricultural development. Urban land is focused around the town centers of Scotland, Chambersburg, Guilford, Fayetteville, Marion, Mont Alto, Greencastle, Waynesboro, Ringgold, Leitersburg, and Smithsburg. Concentrations of urban land also exist along the corridors of I-81, U.S. Route 30, SR 11, and SR 16, which are the major transportation routes through the area. Throughout the agricultural portions of the Project Study Area, small residential developments create communities that are not centered around a town. There are several industrial centers located within the Project Study Area, primarily near Chambersburg and along the I-81 corridor.

Institutions

Within the Project Study Area numerous schools, churches, religious facilities, cemeteries, and hospitals exist. A few examples are provided below:

- Cemeteries
 - St. Paul’s Lutheran Church Graveyard (MD)
 - Brownsville Church of God Cemetery (PA)
- Churches
 - St Paul United Methodist Church (PA)
 - Wayside Baptist Church (MD)
- Schools
 - Fayetteville Elementary School (PA)
 - Greencastle-Antrim High School (PA)
 - Falling Spring Elementary School (PA)
- Hospitals
 - Waynesboro Hospital (PA)

Mineral and Subsurface Resources

There are several quarries within the Project Study Area in Pennsylvania, but none in the Maryland portion. New Enterprise Stone and Lime Company own the two limestone quarries in in Southampton Township; the Mount Cydonia Sand Plant Number 2 quarry is located in Greene Township; and the Mount Cydonia Number 1 and Chambersburg Quarry quarries are in Guilford Township. David H. Martin Excavating owns the Martin Shale Pit Number 2 located in Greene Township and the Martin Shale Pit Number 8 located in Chambersburg Township. The Commerce Street Shale Pit is in Hamilton Township and the Borough of Chambersburg, and the Letterkenny Road Shale Pit is located in Greene and Hamilton Townships (PADCNR 2026b).

Airports

Within the Project Study Area, there is one public use airport, Franklin County Regional Airport. Five private use airports also exist within the Project Study Area including the Lost Acres Airport, Rocktop Airport, and Five Lakes Airport.

Alternative Route Comparison

Developed commercial land within the Project Study Area is focused along specific highways including I-81, U.S. Route 30, and SR 16, and occasionally in the scattered villages in between. Residential development is very dense along U.S. Route 30 between Fayetteville and Chambersburg, west of I-81 north of Chambersburg, and in several towns located along the base of South Mountain, such as Waynesboro, Mont Alto, and Leitersburg. Moderate to low density residential development is sporadic across the rest of the landscape, with large areas dominated by agricultural fields with pockets of residential development along local roads.

The number of parcels crossed, and the number of unique landowners are relatively similar for all of the Alternative Routes despite the variability in lengths. Overall Alternative Route B, which is the longest route option, would involve the most parcels (153) and the most landowners (113). Conversely, Alternative Route C, which is the shortest option, would cross the fewest parcels (129) and also have the fewest landowners (102) thereby making it a better route from a landowner coordination perspective. Alternative Route A crosses a slightly increased number of parcels (132) and has the second fewest landowners (105).

Review of the distance the Alternative Routes would be from residential structures notes that no single family or multifamily homes are within the ROW. Alternative Route B would have the most homes within 100 feet of the transmission centerline (3), with Alternative Route C having the second most (2), and Alternative Route A having none. Alternative Route A has the most single family dwellings within both 250 feet (46) and 500 feet (151) of the centerline. Alternative Route

C has the least single family dwellings within 250 feet (26) and 500 feet (112) of the centerline.

Since all of the Alternative Routes need to cross U.S. Route 30, there will be sections of each that will extend through commercial areas along this highway. Other route sections will also parallel I-81, which also contains areas of dense commercial development. In most cases, siting a transmission line through a commercial area is an acceptable practice, but one that may have some engineering challenges due the height or spacing between the buildings, and the activities involved in the businesses (i.e., semi-truck storage, hydraulic lift operations). Review of the data indicates that none of the Alternative Routes ROWs would cross a commercial building. Alternative Route A has the most commercial buildings within 250 feet (15) and within 500 feet (58) of the centerline. Alternative Route C has the least commercial buildings within 250 feet (11) and 500 feet (37) of the centerline.

Another land use item evaluated were mines and quarries, which are typically incompatible with transmission lines due to the instability of the lands and the extensive operations involved in their processes. No mines were noted in the Project Study Area, but several active quarries are present, one of which is crossed by Alternative Route A. This route crosses an undeveloped portion of a limestone quarry that owns surrounding parcels and has plans for expansion. Alternative Routes B and C would not cross any quarries.

There are also several private airports in the Project Study Area that are located close to the developed areas around I-81 and U.S. Route 30. Efforts were made during the siting process to provide sufficient buffer around these facilities to reduce the potential need to coordinate with the Federal Aviation Administration (FAA), who would evaluate structure locations and elevations to provide determination on possible conflicts to landing and takeoff pathways. Alignments found to be in conflict may require additional engineering to reduce structure heights, which may result in an increase in the number of structures involved across these pathways. The data in **Table 8** notes that each of the alternative routes is within one mile of two airports in Pennsylvania and that each may require engineering modifications to address potential FAA concerns.

In regard to other social institutions in the Project Study Area, each of the Alternative Routes would be within at least 1,000 feet of one school. All Alternative Routes follow the same alignment in this area, through a forest area southeast of Falling Spring Elementary School with approximately 590 feet of woods between the school and these alignments. Alternative Route A would be within 1,000 feet of two churches or places of worship, while Alternative Routes B and C would be within 1,000 feet of one. None of the Alternative Route ROWs would cross a hospital or cemetery, or local park.

4.2.4 Historic and Archeological Resources

Resource Characteristics

As part of the Siting Study, a desktop survey of existing historic structures and archaeological resources within the Project Study Area was conducted by accessing the Pennsylvania Historical and Museum Commission’s (PHMC) Pennsylvania’s Historic and Archaeological Resource Exchange (PA-SHARE) and the Maryland Historic Trust’s (MHT) “Medusa” GIS system and database to review available information on previously recorded historic structures, historic districts, and archaeological sites (PHMC PA-SHARE 2026, MHT Medusa 2026). The Project Study Area included a one-mile buffer of all of the proposed alignments for above ground resources (historic properties or districts), and a 130-foot wide ROW for archaeological resources. Cultural resources are depicted in **Figure 14** and only include the location of non-sensitive data tied to aboveground resources.

Pennsylvania

Historic Architecture

Thirty-seven National Register of Historic Places (NRHP)-listed or eligible properties or districts have been identified in the Project Study Area in Pennsylvania and are listed in **Table 6a**.

TABLE 6a: NRHP-listed or eligible Historic Properties in the Project Study Area (PA)					
PHMC KEY#	Resource Name	Resource Address/ Location	NR Status/ SHPO Opinion Date	Township	County
LISTED					
877	Brotherton Farm	Falling Springs Rd.	Listed: 03/30/1979	Guilford	Franklin
906	Gass House (Union Plantation)	Franklin Farms Ln	Listed: 04/11/1977	Guilford	Franklin
79886	Corker Hill	1237 Garver Ln.	Listed: 03/13/2003	Greene	Franklin
96472	Waynesboro Armory	N Grant St.	Listed: 12/22/1989	Washington	Franklin
102235	Waynesboro Historic District	Multiple	05/08/2024	Waynesboro	Franklin
ELIGIBLE					
83691	Kreiner Rd. Bridge	Kreiner Rd., T-489	Eligible: 03/05/2007	Guilford	Franklin
87191	Patrick Vance House	297 Quarry Road	Eligible: 06/02/1986	Chambersburg	Franklin

TABLE 6a: NRHP-listed or eligible Historic Properties in the Project Study Area (PA)

PHMC KEY#	Resource Name	Resource Address/ Location	NR Status/ SHPO Opinion Date	Township	County
96323	John Stam Farm	2330 Scotland Rd.	Eligible: 06/23/1989	Chambersburg	Franklin
97574	Marks Property	Off of Coquina Sands Drive	Eligible: 11/21/1991	Washington	Franklin
101782	Franklin County Poor House	Franklin Farms Ln	Eligible: 11/03/1993	Guilford	Franklin
101835	Christian Fry, Jr. House (Listed as District)	1438 Nolts Rd.	Eligible: 01/15/1997	Greene	Franklin
101841	C. Fry Farmstead	Kohler Rd.	Eligible: 10/13/1993	Greene	Franklin
102137	Eastern Greene Township Rural Historic District	Not Applicable	Eligible: 04/05/1994 (Not eligible: 04/28/2005)	Greene	Franklin
105585	Letterkenny Army Depot Chapel: Italian P.O.W. Chapel	New Franklin Rd.	Eligible: 10/04/1996	Letterkenny	Franklin
106025	Cumberland Valley Railroad (Shippensburg to MD line) Historic District	From Shippensburg, PA to Hagerstown, MD	Eligible: 03/04/1997	Multiple	Franklin, Cumberland
108701	Hambright Farmstead	1873 Ragged Edge Rd.	Eligible: 01/15/1997	Greene	Franklin
108705	Shivley Farmstead	528 Ragged Edge Rd.	Eligible: 01/15/1997	Greene	Franklin
108707	Sollenberger Farmstead	896 Ragged Edge Rd.	Eligible: 01/15/1997	Greene	Franklin
108717	S. Grove Farmstead	2585 Woodstock Rd.	Eligible: 01/15/1997	Greene	Franklin
108721	Morehead Kennedy House	1090 Ragged Edge Rd.	Eligible: 01/15/1997	Greene	Franklin

TABLE 6a: NRHP-listed or eligible Historic Properties in the Project Study Area (PA)

PHMC KEY#	Resource Name	Resource Address/ Location	NR Status/ SHPO Opinion Date	Township	County
108723	Shivley's Schoolhouse	976 Ragged Edge Rd.	Eligible 01/15/1997	Greene	Franklin
108725	Brindle Farmstead	1883 Ragged Edge Rd.	Eligible 01/15/1997	Greene	Franklin
117257	McKee Historic District (Woodstock)	Woodstock Rd.	Eligible: 01/07/1997	Greene	Franklin
117364	Kuhns Farmstead (Jacob-Frey Farmstead)	1205 Mower Rd.	Eligible: 01/15/2001	Greene & Guilford	Franklin
117367	John Lehman Farmstead: Kuhns Farm	1316 Mower Rd.	Eligible: 01/15/1997	Greene	Franklin
117370	Mower Farmstead	1068 Mower Rd.	Eligible 01/15/1997	Greene & Guilford	Franklin
117373	Lantz Farmstead	1071 Mower Rd.	Eligible 01/15/1997	Greene	Franklin
117376	Peter Brindle Farmstead	2390 Woodstock Rd.	Eligible: 01/15/1997	Greene	Franklin
128900	Scotland School for Veterans' Children: Soldiers' Orphans School	3583 Scotland Rd.	Eligible: 10/29/2001	Chambersburg	Franklin
No Old/ 2010RE03283	Cumberland Valley Railroad	Multiple	Eligible: 09/02/2025	Greencastle	Franklin
100887/ 1985RE00844	Hambright's Mill Bridge	Not Provided	Not Provided	Greene	Franklin
562276/ 2025RE01407	Isaac Wallace Farm	412 Swamp Fox Rd	04/22/2025	Guilford	Franklin

TABLE 6a: NRHP-listed or eligible Historic Properties in the Project Study Area (PA)

PHMC KEY#	Resource Name	Resource Address/ Location	NR Status/ SHPO Opinion Date	Township	County
123705/ 2019RE09996	John Oyler Farm	549 Spring Valley Rd	04/04/2019	Guilford	Franklin
39825/ 2019RE13219	John Snider Farm	Church Road	11/18/2019	Guilford	Franklin
No Old/ 1993RE00072	Rankin, Archibald, Farm	3272 Guilford Spring Road	04/09/2025	Guilford	Franklin
No Old/ 2019RE13595	Southeast Franklin County Rural Historic District	Multiple	08/19/2019	Washington	Franklin
No Old/ 2010RE01808	Western Maryland Railroad	Multiple	03/10/2021	Multiple	Franklin

The majority of the NRHP-eligible and listed properties within the Pennsylvania portion of the Project Study Area are either houses or farmsteads which date to the eighteenth and nineteenth centuries. Additionally, some of the NRHP-eligible and listed properties include schools, churches, poor houses, armories, an army chapel, and bridges that are in the Project Study Area. Many of these resources are either the oldest or a well-preserved example of its kind of architecture or building tradition within Franklin County. Several of these resources are also significant for their relation to certain people of historical significance. Many of these resources, particularly the farmsteads within Greene Township, have little to no information about the resource listed in PA-SHARE. Additionally, many of these resources include a comment from the PHMC that eligibility may need to be reassessed.

All of the NRHP-eligible and listed houses (not farmsteads) within Franklin County date to the eighteenth and nineteenth centuries. They are typically NRHP-eligible under Criterion C for architecture, though some have additional historical significance. The only NRHP-listed house includes the Gass House (PHMC Key# 000906; NRHP# 77001168) which is one of the oldest dwellings remaining in Franklin County. The Gass House was built by William Gass in 1760. It is significant as a well-preserved eighteenth-century stone farmhouse, but it is also significant as a

former residence of Patrick Gass who took part in the Lewis and Clark expeditions and fought under General Jackson in the War of 1812.

The NRHP-eligible houses within the Project Study Area include the Patrick Vance House (PHMC Key# 087191), the Christian Fry Jr. House (PHMC Key# 101835), and the Morehead Kennedy House (PHMC Key# 108721). The Patrick Vance house was built in the late eighteenth century and is an example of a stone, Georgian-style dwelling. The Christian Fry, Jr. House, built circa 1840-1860, is listed as a district as it is associated with several other above ground resources attributed to the Fry family. There is no information listed for the house on PA_SHARE. The Morehead Kennedy House is an eligible building with no data available as well.

The vast majority of the resources within the Project Study Area within Pennsylvania are farmsteads. The NRHP-listed farms include Corker Hill (PHMC Key# 079886; NRHP# 03000131), and the Brotherton Farm (PHMC Key# 000877; NRHP# 79002227). The Corker Hill Farm is an early eighteenth-century examples of a gentleman's farm/country estate that reflects both Federal and Colonial Revival. The Brotherton Farm is also known as the Brotherton-McKenzie Farm. This nineteenth-century farm is primarily significant for its Georgian style architecture and secondarily for its association with the history of agriculture, commerce and industry in Franklin County.

A large majority of the NRHP-eligible farmsteads within the Project Study Area are located in Greene Township, mostly identified during a late 1990's architectural survey. Approximately half of these NRHP-eligible resources include no information on PA-SHARE. These include the Shivley Farmstead (PHMC Key# 108705), the Hambright Farmstead (PHMC Key# 100887), the Brindle Farmstead (PHMC Key# 108725), the S. Grove Farmstead (PHMC Key# 108717), and the Sollenberger Farmstead (PHMC Key# 108707). Seven additional farmsteads have a small amount of information available on PA_SHARE, dating them to the late eighteenth-early twentieth centuries and identifying various construction materials of stone, brick, and timber. These resources include The C. Fry Farmstead (PHMC Key# 101841) built in 1780 and 1830, The Mower Farmstead (PHMC Key# 117370) built circa 1830, the Peter Brindle Farmstead (PHMC Key# 117376) built circa 1840-1850), The Lantz Farmstead (PHMC Key# 117373) built circa 1870, the John Lehman Farmstead: Kuhns Farm (PHMC Key# 117367) built in 1908, and the Kuhns Farmstead (Jacob-Frey Farmstead) (PHMC Key # 117364) with no construction date documented.

Six additional NRHP-eligible farm properties are located in the Project Study Area within Chambersburg, Washington, and Guilford. These resources include The John Stam Farm (PHMC Key # 096323), the Issac Wallace Farm (PHMC key# 562276 built circa 1800, the John Oyler Farm (PHMC Key# 123705) built circa 1920, the John Snider Farm (PHMC Key# 39825) built circa 1820, the Rankin Archibald Farm (PHMC Key# n/a) that dates between the mid eighteenth and the early nineteenth century, and the Marks Property (PHMC Key# 097574). The John Stam Farm includes a Pennsylvania German Bank Barn the was reported in the 2007 *Inventory of Pennsylvania*

Historic Barns, Franklin County report by the Center for Rural Pennsylvania. The date listed for the barn is 1814, with alterations in 1960. It is registered with the PA Department of Agriculture as a Century or Bicentennial Farm. The Marks property includes buildings of domestic and agriculture/subsistence functions, but no age or specific significance is noted in PA-SHARE. The Issac Wallace Farm includes a Classical Revival style stone house with several accompanying outbuildings, including a summer kitchen, which are eligible under Criterion A. The John Snider and John Oyler Farms both consist of a main house and several outbuildings that resemble other farms in the area. The Rankin Archibald Farm is currently pending eligibility status. The farm contains a Georgian style house with multiple outbuildings, including a spring house and summer kitchen, that range in date between the eighteenth and nineteenth century.

Two historical schools are located within the Project Study Area: the Scotland School for Veterans' Children (Soldiers' Orphans School) (PHMC Key# 128900) and Shivley's Schoolhouse (PHMC Key# 108723). The NRHP-eligible Scotland School for Veterans' Children (Soldiers' Orphans School) was built in 1932 with alterations made between 1951 and 1952. The resource includes ten buildings: a school and 9 dormitories. It continues to function as a school today. The third school, Shivley's Schoolhouse (PHMC Key# 108723), is documented as NRHP-eligible; however, no information about the resource is listed on PA-SHARE.

The NRHP-eligible Franklin County Poor House (PHMC Key# 101782) was built in 1808. It is a well-preserved example of a stone Federal-style Institutional Housing building.

The Western Maryland Railroad (PHMC Key# n/a) encompasses approximately 3,692-acres expanding across multiple counties. The railway was established in several waves, with the Maryland POS constructed circa 1904 and 1964 (c.1910-1960s).

Military-related resources include the Waynesboro Armory (PHMC Key# 096472; NRHP# 89002080), and the Letterkenny Army Depot Chapel/ Italian P.O. W. Chapel (PHMC Key# 105585). The NRHP-listed Waynesboro Armory was built in 1938 by Silverman & Levy and is significant under Criteria A and C for Military Architecture; it is one of seventeen armories built in 1938 in Pennsylvania. The NRHP-eligible Letterkenny Army Depot Chapel/ Italian P.O.W. Chapel (PHMC Key# 105585) was built in 1945. The PHMC notes that this resource is federally owned and under Covenant.

There are two NRHP-eligible bridges within the Project Study Area: the Kreiner Rd. Bridge (PHMC Key# 083691) and the Hambright Mill Bridge (PHMC Key# 00844). The Kreiner Rd. Bridge was a steel bridge that was built circa 1900 along the Western Maryland Railroad. It was listed as eligible in 2007; however, the comments within PA-SHARE indicate that the 1900 steel bridge may have been demolished around 2000 and replaced by a new box beam bridge in 2001. The eligibility status is therefore unclear and additional consultation with the PHMC would be

necessary. The Hambright Mill Bridge, or the Franklin County Bridge No. 4, is a roadway bridge with an intact component dating to circa 1905. Little information is recorded on PA_SHARE for the resource.

Pennsylvania Historic Districts

There are six Historic Districts within the Pennsylvania portion of the Study Area (not including PHMC Key# 101835 which is labeled as a historic district but appears to be an individual resource). Five districts are NRHP-eligible; these include the McKee Historic District (Woodstock) (PHMC Key# 117257), the Cumberland Valley Railroad Historic District (Shippensburg to MD line) (PHMC Key# 106025), the Southeast Franklin County Rural Historic District (PHMC Key# n/a), and the Eastern Greene Township Rural Historic District (PHMC Key# 102137). The Waynesboro Historic District (PHMC Key# 102235) is NRHP-listed as of May 8th, 2024.

The Waynesboro Historic District consists of mixed public and private resources across an approximate 599-acres. The resources within the district range in date from the late eighteenth century to the mid-twentieth century located primarily along Main Street and Clayton Avenue.

The McKee Historic District (Woodstock) is documented as significant in the areas of mid-nineteenth-century agriculture and subsistence. No additional information about the district is available on PA-SHARE. The Southeast Franklin County Rural Historic District is similarly documented with little information; however, approximately 473 resources are located within the district boundaries.

The Cumberland Valley Railroad Historic District (Shippensburg to MD line) is considered eligible for NRHP listing under Criterion A, for its contribution to the long-term development of the Cumberland Valley and to the railroad industry. The rail line crosses from Shippensburg, PA to Hagerstown, MD and passes approximately 34 miles through multiple towns. The district consists of the rail bed, with approximately 25 bridges, crossings, and tracks. It was built circa 1837- 1841 with additions circa 1908- 1913. Few of the original associated buildings remain, as most of the stations have been demolished. As of 1997, the railroad was still in use as part of Conrail's Hagerstown Secondary Line.

The Eastern Greene Township Rural Historic District is a 1,659 acre Historic District that is unclear in its eligibility. According to PA-SHARE records, the district is officially listed as eligible. However, according to the Administrative Actions, the PHMC and National Park Service originally determined the district to be eligible in 1995, and the National Park Service determined it to be eligible in 1995. All National Register Nominations have been returned, and as of 2005, PHMC determined the district to be not eligible following a site visit. The current status documented on PA_SHARE is maintaining the determination of eligibility (DOE)- eligible as of August 22, 2018.

Archaeology

Three PHMC-identified archaeological sites are located within the 130-foot ROW Archaeological Study Area assigned to each alternative route and are listed in **Table 6b**. Due to the sensitivity of these resources, **their location is considered proprietary and is only being made available to the PUC for review per their regulatory requirement**. Identification and avoidance of specific sites will be coordinated with the PHMC as part of the permitting process that will be required after the Proposed Route has been approved.

TABLE 6b: Identified Archaeological Sites within the Archaeological Study Area (PA)			
Site#	Resource Name	Resource Type	NR Status/ SHPO Opinion Date
36FR0001	Unknown Site	Open Habitation prehistoric	Insufficient Information to Evaluate
36FR0337	2390 Woodstock Road Site	Open Prehistoric Site, Unknown Function	Insufficient Information to Evaluate
36FR0078	Woodstock I-81 Site	Open Habitation prehistoric	Insufficient Information to Evaluate

All sites within the Archaeological Study Area are prehistoric sites. All sites have been identified but have not been assessed for NRHP listing eligibility.

Maryland

Historic Architecture

Eight NRHP-listed or eligible properties have been identified in the Project Study Area in Maryland and are listed in **Table 7a**. Historic properties are defined as buildings, structures, districts, objects, sites, and linear historic sites aged 50 years or more. Additional identified historic properties which have not been assessed for NRHP eligibility are not included in this report. Once an alignment is chosen, additional research will be done to identify other historic architectural resources within the ROW, or which may be affected visually.

TABLE 7a: NRHP-listed or eligible Historic Properties in the Project Study Area (MD)						
MHT ID#	NRHP REF#	Resource Name	Resource Address/ Location	NR Status/ SHPO Opinion Date	Township	County
LISTED						
WA-I-142	3001292	Rockledge	13535 Foxfire Ln.	Listed: 12/18/2003	Hagerstown	Washington
WA-I-154	90001994	Huckleberry Hall (Charles Mill)	Charles Mill Rd.	Listed: 12/28/1990	Hagerstown	Washington
WA-I-174	3001295	Leitersburg Historic District		Listed: 12/19/2003	Leitersburg	Washington
ELIGIBLE						
WA-I-156	Not Available	Brick House, Near Leitersburg	22527 Ringold Pike	Eligible: 08/09/2002	Hagerstown	Washington
WA-IV-049	Not Available	Kretsinger Farm	13654 Kretsinger Rd.	Eligible: 08/09/2002	Smithsburg	Washington
WA-IV-259	Not Available	Smithsburg Historic District	Not Available	Eligible: 05/07/2004	Smithsburg	Washington
WA-IV-001	Not Available	Newcomer Farm	13809 Poplar Grove Rd	Eligible: 8/9/2002	Hagerstown	Washington
WA-IV-050	Not Available	Kohler-Ridenour Farm	13731 Kretsinge Rd	Eligible: 8/9/2002	Hagerstown	Washington

All but one of the NRHP eligible and listed properties within the Maryland portion of the Project Study Area are either houses or farmsteads which date to the eighteenth and nineteenth centuries. Many of these are either the oldest or a well-preserved example of its kind of architecture or building tradition within Washington County. Several of these resources are also significant for their relation to certain ethnic groups (German) or the agricultural history of the area.

Rockledge (MHT Inventory# WA-I-142; NRHP# 03001292) is an NRHP-listed building which is significant for exemplifying the limestone architecture typical of rural Washington County in the eighteenth and early nineteenth centuries. Rockledge retains sufficient integrity to stand as a representative example of this regional building tradition. Unlike the majority of surviving

limestone houses of the period, which are relatively large buildings constructed in a single building campaign, Rockledge was built in three sections during the early nineteenth century. This process of enlargement reflects the economic status of the owner.

Huckleberry Hall (MHT Inventory# WA-I-154; NRHP# 90001994) is NRHP-listed and is significant for its architectural character. Built about 1784, the house embodies the distinctive characteristics of eighteenth century rural Germanic domestic architecture in the middle to western sections of Maryland. While the house includes many typical Germanic characteristics, it does include unique features such as a four-room plan rather than the typical three-room plan, original interior finishes including stenciling and marbleizing, and the placement of the stair rising across a front window.

Brick House, near Leitersburg (MHT Inventory# WA-I-156) is a farmstead property eligible for NRHP-listing as a significant surviving example of early Washington County vernacular architecture. Both houses on the property are characteristic of late eighteenth and early nineteenth-century German farmsteads in the region, and the farm maintains its historical continuity. This property is eligible for listing under Criterion A for its association with regional agricultural practices and its ties to important ethnic groups (Germans) significant in the region's development. The property is also eligible under Criterion C for its architecture.

The Newcomer Farm (MHT Inventory #WA-IV-001) is a farmstead property eligible for NRHP-listing. The property is associated with traditional German farmers who occupied the area in the nineteenth century and is currently still in use as a farm with associative significance under Criterion C for both architectural and landscape components.

Kretsinger Farm (MHT Inventory# WA-IV-049) is an NRHP-eligible resource that includes five buildings: a brick house, barn, agricultural storage building, spring house, and an abandoned frame dwelling. The property is recommended eligible under Criteria A and C. The combined elements of this historic property are consistent with regional German-influenced farmsteads composed of multiple dwellings, agricultural outbuildings, and fields. Additional research may reveal that it's a component in a larger rural historic landscape district.

The Kohler-Ridenour Farm (MHT Inventory #WA-IV-050) is a nineteenth century farmstead that contains a stone house and spring that is typical of regional-German farmsteads of Washington County. The house most likely served as the primary residence to the farm's owners prior to the construction of a second home at the beginning of the twentieth century. Despite alterations to the twentieth-century house, the active farm continues its historic use and mostly remains intact. The farmstead is eligible for the NRHP under criterion A for its association with the traditional German farming in Washington County.

Maryland Historic Districts

There are two Historic Districts within the Maryland portion of the Project Study Area. One of the districts is NRHP-listed: the Leitersburg Historic District (MHT Inventory# WA-I-174: NRHP# 03001295). The Smithsburg Historic District (MHT Inventory# WA-IV-259) is an NRHP-eligible historic district.

The Leitersburg Historic District is significant for its association with the development of commerce and transportation in Washington County and the surrounding region in the nineteenth and early twentieth centuries. The NRHP-listed Leitersburg Historic District derives additional significance as a well-preserved example of crossroads community which characterized the region in the nineteenth century, and for its variety of historic architecture. The village comprises a cohesive collection of architectural resources reflecting a wide variety of vernacular types and popular expressions dating from the early nineteenth century through the early twentieth century.

The Smithsburg Historic District is an NRHP-eligible historic district. The district is eligible under Criteria A and C, maintaining its integrity of design, materials, setting and feeling of a mid-size rural community. The district is primarily residential in character with commercial structures clustered at the intersection of Water and Main streets. The period of significance dates to nineteenth and twentieth century.

Archaeology

Three MHT-identified archaeological sites are located within the 130-foot ROW Archaeological Study Area and are listed in **Table 7b**. Due to the sensitivity of these resources, **their location is considered proprietary and is only being made available to the PUC for review per their regulatory requirement**. Identification and avoidance of specific sites will be coordinated with the MHT as part of the permitting process that will be required after the Proposed Route has been approved.

TABLE 7b: Identified Archaeological Sites within the Archaeological Study Area (MD)			
Site#	Resource Name	Resource Type	NR Status/ SHPO Opinion Date
18WA108	N1, N2 Site	Early Archaic-Late Woodland short term resource procurement	Insufficient Information to Evaluate
18WA149	1898 Site	Late Archaic-Early Woodland Possible short-term camp	Insufficient Information to Evaluate
18WA111	G1	Unknown prehistoric; short-term camp	Insufficient Information to Evaluate

All sites within the Archaeological Study Area are prehistoric sites. Two of the sites, 18WA108 and 18WA149, date between the Archaic and the Woodland periods. The remaining site, 18WA111, was identified by a single test pit and non-diagnostic surface finds in which temporal affiliation could not be determined. . All of the prehistoric sites within the Project Study Area have been identified but have not been assessed for NRHP listing eligibility.

General Impacts

Potential impacts on NRHP-listed and eligible architectural historic properties may be visual, created by the construction of transmission structure and clearcutting of vegetation within the ROW. Visual impacts will vary based on local relief, height of existing vegetation, and any intervening recent development. Additional effort will be needed to map these resources within the Project Study Area and ROW once a proposed alternative is chosen. Any physical impacts on architectural historic properties will be minimized, where practicable, by strategically locating access roads, staging areas, and structure away from the historic resource. Impacts on archaeological sites typically occur during the ground-disturbing activities associated with construction of a structure, e.g., construction of new access roads, clearing of the ROW, establishing equipment staging areas, driving of tired or tracked vehicles, and structure construction. Whenever possible, these impacts on identified sites will be minimized by strategically locating access roads, staging areas, and structure away from any archaeological sites. If any historic architectural resource or archaeological site cannot be physically avoided, then additional consultation will be carried out with either the PHMC or MHT. A Phase I cultural resources study will likely be required by the PHMC and/or the MHT.

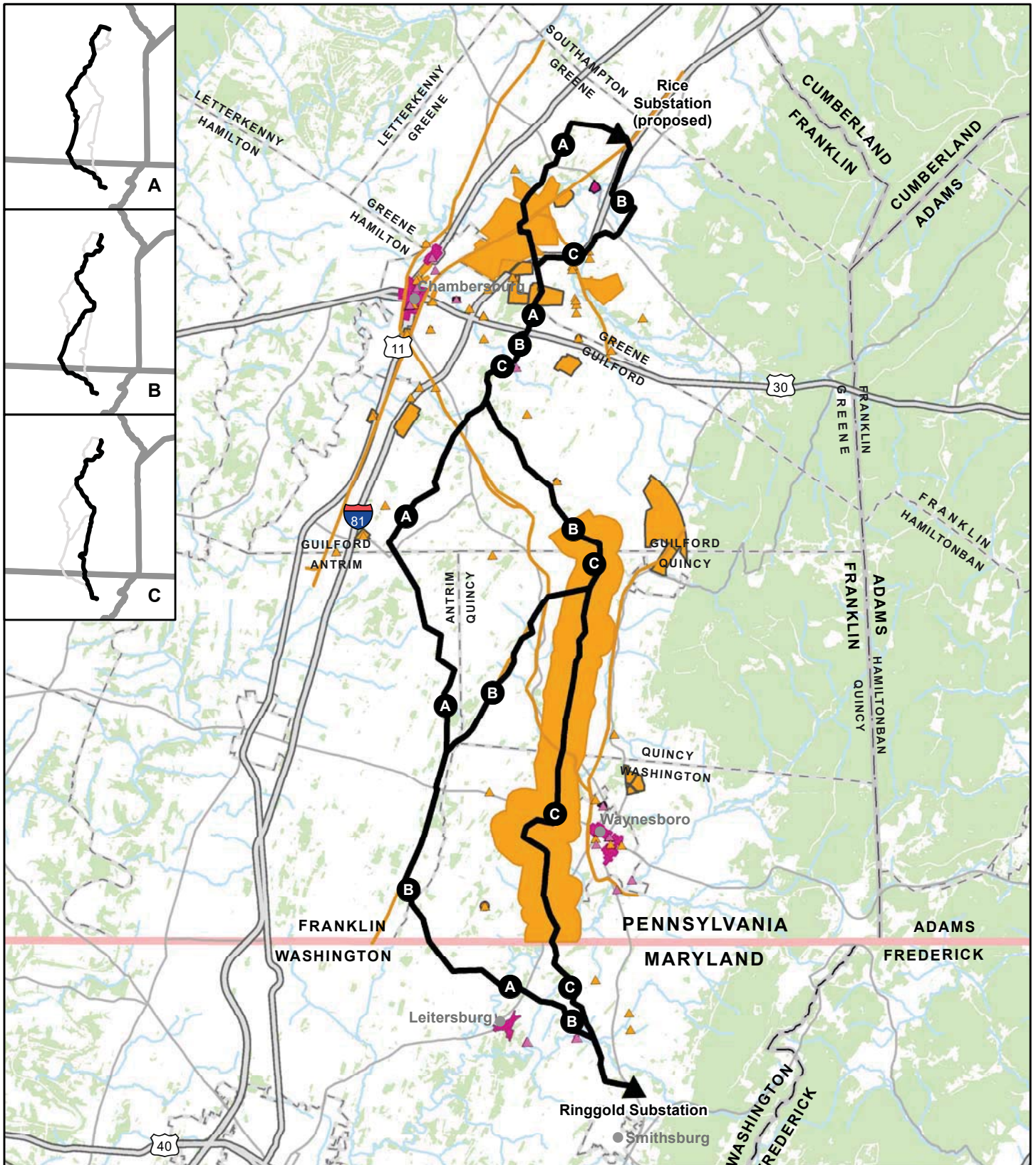
Alternative Route Comparison

A considerable number of NRHP-listed and -eligible historic properties and districts are located near Chambersburg, along I-81, and north of U.S. Route 30, as well as near Waynesboro. These resources range from single structures on a small private parcel to large farmsteads that extend over 1,000 acres. Due to the size, density, and location of these features, some of which border both sides of I-81, options to totally avoid crossing some of them were not feasible. Similarly, numerous archaeological sites were noted parallel to Conococheague Creek, which also extends north of U.S. Route 30, along portions of I-81, and near Chambersburg. These areas also vary in size with most being one acre or less, but others extending over 20 acres. As these features are located along some of the linear corridors that the Alternative Routes parallel (e.g., transmission lines, I-81), avoidance of all these areas was not feasible.

It should be noted that those alternatives that parallel existing transmission lines have a higher potential for identified aboveground and archeological resources, versus undeveloped areas,

since they have undergone studies tied to their development. Review of **Table 8** indicates that all of the Alternative Routes would be within 0.25 mile of a NRHP-listed property, but that Alternative Route A and B would be near the most (2). Alternative Route B would also cross the most archaeological sites (6) and have the most archaeological sites within 250 feet of the alignment (8). Conversely, Alternative Route C would have the least NRHP-eligible properties within 0.25 miles (1), cross the fewest archaeological sites (4), and be within 250 feet of the fewest archaeological sites (6). Alternative Route C is therefore the best option from a historic resource impact avoidance perspective.

The route selected will ultimately be reviewed by both the PHMC and MHT within the requisite area of potential effect (APE) determined for the Project to ascertain the potential impacts on historic aboveground and archeological resources.



- Substation
- Alternative Routes
- NRHP Listed Aboveground Resource
- NRHP Eligible Aboveground Resource
- NRHP Listed Above Ground Resource - Polygon
- NRHP Eligible Above Ground Resource - Polygon
- NRHP Listed Historic District
- NRHP Eligible Historic District
- Highway
- Road
- Stream
- Forest Cover

Data Sources: Transource (2026), PA-SHARE (2026), MEDUSA (2026), NLCD Forest Cover (2024)

Coordinate System: UTM Zone 18N NAD 83

May 11, 2026

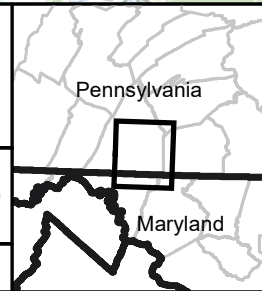


Figure 14
Cultural Resources

Rice - Ringgold 230 kV
Transmission Line

TRANSOURCE

0 1 2 3 4
Miles

4.2.5 Scenic Resources

Resource Characteristics

Aesthetics are defined as a mix of landscape visual character, the context in which the landscape is viewed (view/user groups), and the scenic integrity of the landscape. This study reviewed the potential visibility and visual impact of the Alternative Routes through landscape character assessment, field evaluation, and environmental factor tabulations.

Visual character encompasses the patterns of landform (topography), vegetation, land use, and aquatic resources (e.g., lakes, streams, and wetlands). Multiple elements influence visual character, such as natural systems, human interactions, and land use. In natural settings, the visual character attributes are natural elements such as forested mountains or scenic rivers and lakes, whereas rural or pastoral/agricultural settings may include manmade elements such as fences, walls, barns and outbuildings, and occasional residences. In a more developed setting, the visual character may include commercial or industrial buildings, manicured lawns, pavement, and other infrastructure.

The Siting Team observed four distinctive landscapes within the Study Area: 1) forested and mountain view, 2) pastoral and farming communities, 3) small residential communities, and 4) urban towns.

Forested areas and mountain views are mainly observed along the eastern portion of the Project Study Area. A number of state forests and parklands exist in this region, including Michaux State Forest, Caledonia State Park, and Norlo Park. No designated scenic overlooks, vistas, or byways are documented in the Project Study Area.

Alternative Route Comparison

All of the Alternative Routes would span the main roads that crisscross the Project Study Area and traverse across relatively similar agricultural viewsheds. Alternative Route A would parallel the least length of existing linear infrastructure (7.6 miles). Alternative Route B would parallel relatively more existing infrastructure (11.3 miles) but would be the longest option and have more potential to impact surrounding communities. Alternative Route C parallels the longest length of existing infrastructure (12.1 miles) and is the overall shortest option, therefore, minimizing new visual impacts to the area with the introduction of fewer poles.

Table 8: Land Use Evaluation Criteria				
Alternative Route	Unit	A	B	C
General				
Length	miles	30.1 PA: 23.5 MD: 6.6	31.0 PA: 24.4 MD: 6.6	27.9 PA: 23.5 MD: 4.4
Number of parcels[1] crossed	count	133 PA: 98 MD: 35	153 PA: 118 MD: 35	129 PA: 108 MD: 21
Number of parcels acquired	count	0	0	86 PA: 68 MD: 18
Landowners within ROW	count	106 PA: 76 MD: 30	113 PA: 83 MD: 30	102 PA: 85 MD: 17
Residential				
Barns, outbuildings, sheds, garages and silos in the ROW (excludes abandoned features)	count	1 PA: 1 MD: 0	5 PA: 5 MD: 0	2 PA: 2 MD: 0
Residences/single-family dwellings within ROW	count	0 PA: 0 MD: 0	0 PA: 0 MD: 0	0 PA: 0 MD: 0

Table 8: Land Use Evaluation Criteria				
Alternative Route	Unit	A	B	C
Residences/single-family dwellings within 100 feet of centerline	count	0 PA: 0 MD: 0	3 PA: 3 MD: 0	2 PA: 2 MD: 0
Residences/single-family dwellings within 250 feet of centerline	count	48 PA: 40 MD: 8	32 PA: 24 MD: 8	26 PA: 22 MD: 4
Residences/single-family dwellings within 500 feet of centerline	count	164 PA: 126 MD: 38	130 PA: 92 MD: 38	112 PA: 92 MD: 20
Multi-family dwellings [2] within ROW	count	0	0	0
Multi-family dwellings within 250 feet of centerline	count	0 PA: 9 MD: 0	9 PA: 9 MD: 0	9 PA: 9 MD: 0
Multi-family dwellings within 500 feet of centerline	count	28 PA: 28 MD: 0	28 PA: 28 MD: 0	28 PA: 28 MD: 0
Commercial/Industrial				
Businesses/commercial buildings[3] within the ROW	count	0	0	0

Table 8: Land Use Evaluation Criteria				
Alternative Route	Unit	A	B	C
Businesses/commercial buildings within 250 feet of the centerline	count	15 PA: 14 MD: 1	12 PA: 11 MD: 1	11 PA: 10 MD: 1
Businesses/commercial buildings within 500 feet of the centerline	count	62 PA: 60 MD: 2	38 PA: 36 MD: 2	37 PA: 35 MD: 2
Mining areas crossed	count	0	0	0
Quarries crossed	count	1 PA: 1 MD: 0	0	0
Airports within one mile of the centerline	count	2 PA: 2 MD: 0	2 PA: 2 MD: 0	2 PA: 2 MD: 0
Undeveloped Lands				
Pasture/rangeland crossed in ROW (based on NLCD data)	acres	86.5 PA: 45 MD: 41.5	78.1 PA: 36.6 MD: 41.5	53.5 PA: 33.1 MD: 20.4
Cropland crossed in ROW (based on NLCD data)	acres	283 PA: 242 MD: 41	293.2 PA: 252.2 MD: 41	307.6 PA: 271.8 MD: 35.8

Table 8: Land Use Evaluation Criteria

Alternative Route	Unit	A	B	C
Tree farms/orchards crossed in ROW	acres	10.4 PA: 5.6 MD: 4.8	4.8 PA: 0.0 MD: 4.8	6.2 PA: 3.6 MD: 2.6
Agricultural easements crossed in ROW	acres	32.5 PA: 24.2 MD: 8.3	69.2 PA: 60.9 MD: 8.3	55.2 PA: 34.2 MD: 21
Tree clearing required in the ROW (digitized based on aerial photography)	acres	65.5 PA: 46.5 MD: 19	54.6 PA: 35.6 MD: 19	49.8 PA: 38.1 MD: 11.7
Length of clearing parallel to existing linear infrastructure	miles	0.2 PA: 0.1 MD: 0.1	0.7 PA: 0.4 MD: 0.3	0.4 PA: 0.2 MD: 0.2
Community/Recreational Facilities				
Schools within 1,000 feet of centerline	count	1 PA: 1 MD: 0	1 PA: 1 MD: 0	1 PA: 1 MD: 0
Designated places of worship within 1,000 feet of centerline	count	2 PA: 1 MD: 1	1 PA: 0 MD: 1	1 PA: 0 MD: 1

Table 8: Land Use Evaluation Criteria				
Alternative Route	Unit	A	B	C
Cemeteries within 250 feet of centerline	count	0	0	0
Hospitals, and assisted living facilities within 250 feet of centerline	count	0	0	0
Parks and recreation areas crossed by the ROW	count	0	0	0
Scenic byways crossed	count	0	0	0
Protected Land				
Federal/state land crossed by ROW	acres	0	0	0
Local public lands crossed by ROW	acres	0	0	0
Cultural Resources				
NRHP-listed historic properties within 1/4 mile of the centerline	count	2 PA: 1 MD: 1	2 PA: 1 MD: 1	1 PA: 1 MD: 0
National Landmarks within 1/4 mile of the centerline	count	0	0	0
Listed or Eligible Historic Districts within 1/4 mile of the centerline	count	4 PA: 4 MD: 0	4 PA: 4 MD: 0	4 PA: 4 MD: 0

Table 8: Land Use Evaluation Criteria				
Alternative Route	Unit	A	B	C
Known NRHP-eligible historic properties within 1/4 mile of the centerline	count	4 PA: 4 MD: 0	9 PA: 9 MD: 0	9 PA: 9 MD: 0
Identified archaeological sites within ROW	count	3 PA: 0 MD: 3	6 PA: 3 MD: 3	4 PA: 3 MD: 1
Identified archaeological sites within 250 feet of centerline	count	6 PA: 1 MD: 5	8 PA: 3 MD: 5	6 PA: 3 MD: 3

[1] The number of parcels crossed refers to the number of individual plots of owned land recorded by each County. The number of landowners within the ROW represents the number of individual landowners, who each may own one or more parcels.

[2] Multi-family dwellings include townhome, condominium, and apartment complexes, and duplexes

[3] Commercial development includes retail, service, office, restaurants, and lodging establishments

4.3 Constructability

This section discusses the constructability of a proposed transmission line, as it relates to engineering and construction concerns. Major factors that affect constructability include, but are not limited to, steep topography, condensed ROWs, heavy angles, proximity to existing infrastructure facilities, accessibility, safety and cost. A comparison of the engineering and construction considerations for the Alternative Routes is presented at the end of this section in **Table 9**.

4.3.1 Engineering Design Considerations

Transmission Right-of-Way

The siting process attempted to minimize route length which ultimately minimizes impacts to human/built and environmental resources. Assessment of the Alternative Routes considered paralleling existing electric lines, or paralleling other infrastructure (i.e., roadways, railways or gas lines) relative to cross-country options. Although no linear features provided a direct alignment between the two substation sites, several linear options were noted across the landscape including I-81, the Norfolk Southern railroad, and a variety of transmission line ROW corridors that extend for considerable lengths in a general north to south alignment. Evaluation of the transmission line ROWs identified residential or other commercial development adjacent to the ROW, particularly near U.S. Route 30 and in the northern portions of the Project Study Area. At these locations, the Alternative Routes deviated from a parallel alignment to avoid existing constraints.

Engineering and Construction Considerations

Potential engineering and construction challenges are important to consider when siting a transmission line. Transmission line crossings, road and railroad crossings, nearby towers or antennas, and heavy angles, dense residential or commercial development, along with narrow ROW alignments are all elements that could ultimately require extensive or non-standard engineering and lead to an increase of impacts and overall cost.

A few specific transmission line ROWs south of U.S. Route 30 were identified that provided opportunities for considerable lengths of paralleling. To maintain the paralleling capacity along these stretches, however, the Alternative Routes would occasionally need to cross over the existing alignment. Engineering of these crossovers is a common event but can involve specific structural design challenges depending on the landscape and the voltage of the lines involved.

Spanning over existing roadways is also an engineering consideration due to the density of telephone and distribution lines that often parallel these corridors. Engineering review of these existing features is necessary to design the new alignment with required distances between these

electrical systems. Part of the review focuses on the structure placement, which is often preferred close to the road edge to provide crossings at the highest point of the conductor, however, state highway expectations are that these structures are not too close to the roadway to ensure safer conditions for vehicles. Spanning major highways such as interstates can also be challenging due to the agency coordination required for the permits and potential for road closures during the wire installation process.

Another consideration is the crossing of railroads. Railroads provide opportunities for paralleling but crossing over these features can be complex. Ideally, new transmission lines would cross at 90° degree angles to the railroad, but many scenarios involve heavy angle crossings that need to take into consideration the width and height of the various rail cars that use the tracks. Other considerations are the presence of additional railroad lines in adjacent sequence and aboveground infrastructure of the railroad that may also parallel the rail line.

Numerous communication towers are also located in the Project Study Area. These tall structures are typically supported by an extensive network of guy wires that would be difficult to engineer around and were avoided where possible during the siting process.

Spanning over existing electrical transmission lines is also an engineering consideration to be assessed during the siting process. Depending on the voltage of the lines involved, new transmission lines would be required to cross under or over the existing lines. For this Project, the new 230 kV line would typically cross over any of the existing transmission line systems in the Project Study Area. Crossing over lines requires review of the clearances needed between the conductors, which will affect the height of the new structures needed to achieve these clearances. In addition, transmission line crossings require coordination during construction, operations, and maintenance for taking outages on the existing line. The scenario becomes further complicated in situations where the new alignment would be required to cross back and forth over the existing system several times to maintain a parallel alignment

A final consideration is the number of heavy angles (greater than 30°) required along the various Alternative Routes. Due to the tensions necessary on the conductor wires, sharp turns typically require stronger support which is typically achieved through larger structures, the use of multi-pole structures, or the installation of guy wires. These options involve additional assessment of the terrain and the transmission line alignments leading into and out of these sharp turn scenarios to determine the best engineering course of action.

Alternative Route Comparison

As noted, paralleling existing linear features, such as transmission lines or roadway corridors, is typically viewed as a common siting practice to minimize the cumulative effect of a new right-of-way. Given the constrained environment adjacent to most of the existing linear corridors, only a few options were realized in the Project Study Area. Alternative Route A would parallel the least of these linear features. Alternative Route C would have the longest alignment paralleling these features, with approximately one-quarter of its length being parallel to an existing transmission line and additional 2.6 miles adjacent to roadways. Alternative Route B would have the second longest length paralleling these features, with approximately one-quarter of its length paralleling a railroad or transmission line corridor, and an additional 2.6 miles adjacent to roadways. As such, Alternative Routes B (36%) and C (43%) are therefore the best options from a paralleling existing linear infrastructure perspective.

Review of **Table 9** indicates that all Alternative routes would span 1-81 once. Alternative Route B would cross the most local roadways (42), Alternative route A would cross 34, and Alternative Route C would cross the least (32). Alternative A and B would involve the most railroad crossings (3). Alternative Route C would involve only one railroad crossings. As such, Alternative Route C is therefore the best option from a railroad or roadway crossing perspective.

Alternative Route C would be within 1,000 feet of the most communication towers (4), whereas Alternative Route A would have the least (1) and Alternative B the next fewest (2). The locations of the Alternative Routes relative to these structures are not considered problematic at this time as the distances to these features are still far enough away to not require any engineering modifications.

In terms of heavy angle structures, most of these turns in the alignment are required to follow specific property lines or to avoid other constraint areas such as additional stream crossings or dense forested areas. Review of the data notes that Alternative Routes A and B would involve the most heavy angle turns and that Alternative Route C would involve the least.

4.3.2 Topography

In general, the Alternative Routes traverse a relatively broad valley with rolling hills between the Appalachian Mountains and South Mountain. The elevation change for the Alternative Routes is relatively minor given that all the Alternative Routes are located in the valley area and not on the slopes of South Mountain.

Alternative Route Comparison

All of the Alternative Routes avoid the steep slopes of South Mountain and are located in the more level terrain of the Conococheague Creek valley. All of the Alternative Routes cross less

than 2 miles of steep slopes with Alternative Routes B and C crossing slightly more steep slopes and Alternative Route A crossing the least amount. In general, all of the Alternative Routes would have the same constructability considerations for steep slopes given the terrain.

4.3.3 Access Roads

The access road networks that will be required to construct and potentially maintain the proposed alignment are being developed as engineering completes more the transmission line design and as landowner negotiations occur. Most of the access roads will be located within the new ROW corridor to help further minimize the impact of the Project on the surrounding human/built and environmental landscape. Many of these roads will be temporary in nature as they would extend across agricultural lands or through forested areas and will need to be removed at the end of construction. Stabilized road bases may be left in places that can be used for future access, but few new permanent roads will be developed.

Where possible, existing farm or forest roads will be evaluated and used instead of developing new access roads, which could involve grading to provide the desired slopes for the heavy equipment that would be involved in the construction. Landowner coordination to secure the rights to use these existing roads will be required.

Alternative Route Comparison

The overall location of each Alternative was considered as it relates to the siting of temporary and permanent on and off-ROW access roads and what challenges may be present along each route. Review of the Maryland portion of the Project Study Area note that the terrain across this area is generally hilly but not steep; hence the same level of grading would be anticipated for each of the options. Since Alternative Routes A and B would extend diagonally from northwest to southeast for a further distance across the state, they would be anticipated to involve more access road development. Alternative Route C would extend for a shorter distance across the states and along an existing transmission line alignment, thus less access road development is anticipated.

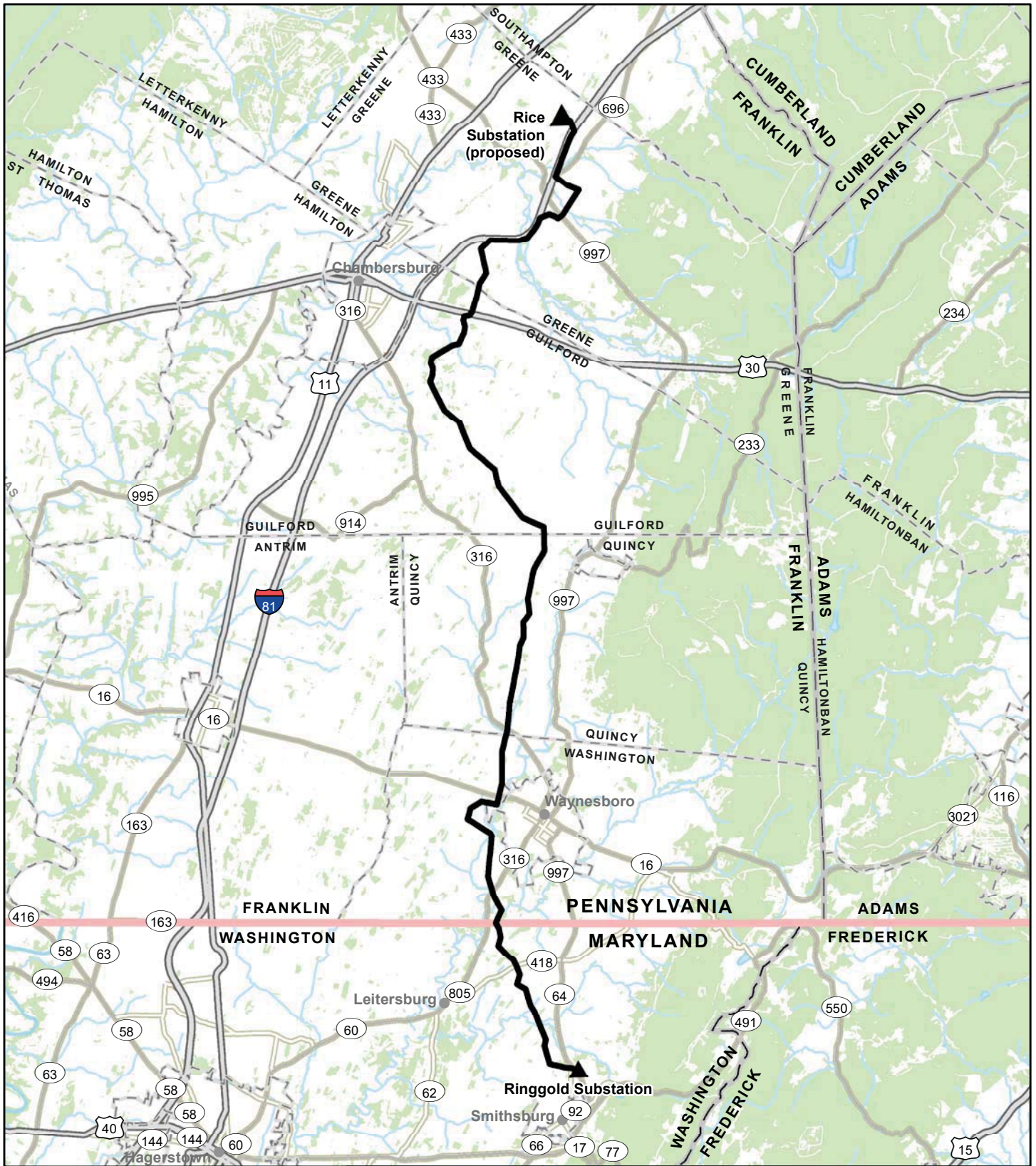
In Pennsylvania, the majority of the area is agricultural with less terrain variations and more local roads. Therefore, access for any of the Alternative Routes is expected to be similar; however, Alternative Route C is the shortest in length and therefore likely to require less access road construction.







Overall, Transource will minimize additional impacts to streams, wetlands, and sensitive habitat areas by siting the access roads outside these features.

Table 9. Constructability Evaluation Criteria				
Alternative Route	Unit	A	B	C
General				
Length	miles	30.1 PA: 23.5 MD: 6.6	31.0 PA: 24.4 MD: 6.6	27.9 PA: 23.5 MD: 4.4
Transportation Resources				
Interstate highways crossed	count	1 PA: 1 MD: 0	1 PA: 1 MD: 0	1 PA: 1 MD: 0
U.S. highways crossed (combination of state and U.S.)	count	1 PA: 1 MD: 0	1 PA: 1 MD: 0	1 PA: 1 MD: 0
State highways crossed	count	8 PA: 4 MD: 4	8 PA: 4 MD: 4	8 PA: 5 MD: 3
Local roads and streets crossed	count	34 PA: 26 MD: 8	42 PA: 34 MD: 8	32 PA: 27 MD: 5
Railroads crossed	count	3 PA: 3 MD: 0	3 PA: 3 MD: 0	1 PA: 1 MD: 0
Utility Resources				
Oil and gas pipelines crossed	count	6 PA: 6 MD: 0	7 PA: 7 MD: 0	9 PA: 8 MD: 1

Table 9. Constructability Evaluation Criteria				
Alternative Route	Unit	A	B	C
Communication towers within 1,000 feet of the centerline	count	1 PA: 1 MD: 0	2 PA: 2 MD: 0	4 PA: 4 MD: 0
Existing 69 kV Transmission Lines Crossed	count	1 PA: 1 MD: 0	1 PA: 1 MD: 0	1 PA: 1 MD: 0
Existing 115 kV Transmission Lines Crossed	count	2 PA: 1 MD: 1	2 PA: 1 MD: 1	5 PA: 4 MD: 1
Existing 138 and 230 kV Transmission Lines Crossed	count	8 PA: 4 MD: 4	9 PA: 5 MD: 4	8 PA: 4 MD: 4
Existing 500 kV Transmission Lines Crossed	count	0	0	0
Engineering and Construction Considerations				
Steep slopes crossed by ROW (>20%), percent of total	miles	1.6 (5%) PA: 1.1 MD: 0.5	1.4 (5%) PA: 0.9 MD: 0.5	1.7 (6%) PA: 1.3 MD: 0.4
Heavy angles, greater than 30 degrees	count	43 PA: 32 MD: 11	41 PA: 30 MD: 11	33 PA: 25 MD: 8
Rights-of-Way Rebuild/Parallel				
Existing 69 kV transmission lines paralleled	miles	0	0	0

Table 9. Constructability Evaluation Criteria				
Alternative Route	Unit	A	B	C
Existing 115 kV transmission lines paralleled	miles	0.6 PA: 0.6 MD: 0	0 PA: 0 MD: 0	5.2 PA: 5.2 MD: 0
Existing 138 and 230 kV transmission lines paralleled	miles	1.6 PA: 1.4 MD: 0.2	2.4 PA: 2.2 MD: 0.2	4.3 PA: 2.9 MD: 1.4
Existing 500 kV transmission lines paralleled	miles	0	0	0
Interstate highways, U.S. highways, State highways, and local roads paralleled	miles	1.9 PA: 1.8 MD: 0.1	2.6 PA: 2.5 MD: 0.1	2.6 PA: 2.5 MD: 0.1
Railroad	miles	3.5 PA: 3.5 MD: 0.0	6.3 PA: 6.3 MD: 0.0	0
Total length paralleled	miles	7.6 PA: 7.3 MD: 0.3	11.3 PA: 11 MD: 0.3	12.1 PA: 10.6 MD: 1.5
Percent of length paralleled	%	25% PA: 24% MD: 1%	36% PA: 35% MD: 1%	43% PA: 38% MD: 5%



-  Substation
-  Alternative Route C (Proposed Route)
-  Highway
-  Road
-  Stream
-  Forest Cover

Data Sources: Transource (2026),
Rextag Electric Transmission (2021),
NLCD Forest Cover (2024)

Coordinate System:
UTM Zone 18N
NAD 83

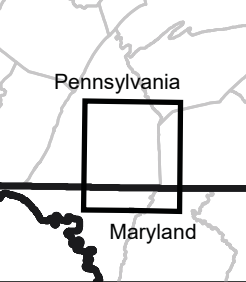
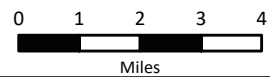


Figure 15
Proposed Route

Rice - Ringgold 230 kV
Transmission Line Project



May 11, 2026

5.0 IDENTIFICATION OF THE PROPOSED ROUTE

The goal in selecting a Proposed Route for the Project is to minimize impacts on land use and natural and cultural resources while avoiding circuitous routes, extreme costs, and non-standard design requirements. However, in practice, it is not usually possible to minimize all potential impacts. There are often inherent tradeoffs in potential impacts to every siting decision. For example, in heavily forested study areas, the route that avoids the most developed areas will likely have the greatest amount of forest clearing, while the route that has the least impact on vegetation and wildlife habitats often impacts more residences or farm lands. Thus, an underlying goal of a siting study is to reach a reasonable balance between minimizing potential impacts on one resource versus increasing the potential impacts on another.

The following section summarizes the rationale for selection of the Proposed Route, and thus, the route that the Siting Team considered to best minimize the overall impacts of the Project. The rationale presented is derived from the accumulation of the siting decisions made throughout the process, the knowledge and experience of the Siting Team, comments from the public and regulatory agencies, and the comparative analysis of potential impacts presented in Section 4. Based on the data reviewed in this Siting Study, **Alternative Route C was determined to be the Proposed Route (the “Proposed Route”)**.

5.1 Proposed Route Summary

Alternative Route C has an approximate length of 27.9 miles (approximately 23.5 miles in Pennsylvania and approximately 4.4 miles in Maryland). Being a more direct alignment (2-3 miles shorter than the other alternatives) between the Rice and Ringgold Substations will cross the fewest parcels (129) and impact the fewest landowners (102) compared to the other alternatives. The alignment avoids the more populated sections of the Project Study Area by crossing undeveloped lands adjacent to I-81 and paralleling an existing transmission line corridor south past Waynesboro as it extends into the Ringgold Substation. Additionally, the proposed route spans U.S. Route 30 in a commercial retail area thereby minimizing impacts to the residentially dense areas along this corridor. As a result, the Proposed Route has the fewest residences within 500 feet (112) compared to Alternative A (151) and Alternative B (130).

This more direct route will also help minimize impacts to agricultural lands, farming operations, and orchard areas since many of the alignments across these areas were identified during early coordination with the landowners. Key requests during this coordination were to span fields or parallel property lines or access roads where feasible, and to provide specially engineered structures near orchards to allow the orchard trees to remain in production under the ROW.

Environmentally, Alternative Route C would span a low number of streams (22) and have minimal impact on Maryland riparian buffer areas (0.6 acres). As noted previously, streams and floodplains will be crossed at right angles and spanned with structures typically placed outside these regulated areas. Since one of the streams crossed will be the Pennsylvania HQ-designated Falling Spring Branch waterway, which is crossed by all three routes, the construction of this alignment will involve additional stormwater permitting requirements focused on the preservation of the water quality level. In terms of wetlands, this alignment would cumulatively cross the least wetland area relative to the other alternatives. Similar to streams and floodplains, wetland areas will be spanned to further minimize potential impact.

Alternative Route C has the least amount of tree clearing which will reduce forest fragmentation effects and potential impacts to T&E species that use forest habitats such as T&E bat species. In terms of other potential T&E habitat areas, Alternative Route C would cross three natural areas in Pennsylvania and one SSPRA area in Maryland, which are comprised predominantly of open meadows which can be spanned by the transmission lines therefore minimizing potential impacts on the plant or animal communities.

From an engineering perspective, Alternative Route C parallels existing linear features for 43% of the total length of the transmission line which allows for the use of existing access roads. Overall, Alternative Routes C is the preferred route from an engineering and constructability perspective. In addition, Alternative Route C will not interfere with any quarry operations and will be more than 1 mile from an airport. Although Alternative Route C crosses more transmission lines (14), Transource will work with the incumbent utilities to ensure proper clearances in order to safely operate and maintain the facilities.

Conclusion

Based on a qualitative and quantitative review of information obtained from GIS data, field reconnaissance, agency consultation and public outreach as well as engineering and constructability considerations for the Project, the Siting Team recommends Alternative Route C as the Proposed Route as depicted in **Figure 15**. An overview of the Proposed Route is provided in a detailed aerial map book in Appendix C. Appendix D contains **Figure 16** which is an overview of environmental, human/built, and historic resources within 2 miles of the Proposed Route.

Collectively, the Siting Team believes that the Proposed Route meets the goal of minimizing impacts on land use, and the natural and cultural resources along the route, while avoiding circuitous routes, extreme costs, and non-standard design requirements.

5.2 Proposed Route Impacts and Mitigation

The following is a discussion of the anticipated Project impacts and potential permit and mitigation requirements of the proposed 9A West Project.

Transource is working diligently with relevant property owners to secure the necessary ROW easements along the Proposed Route to minimize the impact on existing and future land use. Efforts were made during the transmission line siting process to minimize impacts on existing and future land uses, as well as avoid sensitive natural resources such as wetlands and streams. Where potential impacts are unavoidable, mitigating factors will be employed.

As part of the permitting process, any required waterway, wetland, or floodplain encroachment permits will be obtained from PADEP, MDE and the USACE prior to construction and Transource will comply with all special conditions placed on the permits. In addition, to address water quality standards within watersheds along the Project corridor, Transource will comply with the regulations of the NPDES permit program, obtain the required soil erosion and sedimentation control permits, and follow the specified conditions required for the permit.

5.2.1 Land Use

Siting analyses for the Proposed Route was conducted with acknowledgement of existing and proposed land uses. Some impact on existing and future land use may occur, including clearing of forest areas and reducing potential areas for residential or commercial development. Establishment of ROW easement areas also preclude certain uses such as constructing structures or installing swimming pools within the easement area. Transource is working with property owners to minimize the impact on existing and future land uses.

The Proposed Route will also be designed to minimize conflicts with the existing transportation network and other utilities currently located or proposed along the route. The necessary state Highway Occupancy Permits or equivalent type permits will be acquired by Transource for those respective highway crossings and all other state road access points prior to construction. The permit processes typically includes review of the plans to ensure that the transmission structure locations and development are in compliance with current safety regulations regarding height and sight clearances. This permit process will also be used to coordinate the actual crossing of U.S Route 30 with the conductor wires, which often requires the temporary closure of the highway.

5.2.2 Agriculture

Transmission lines and agricultural land uses are not incompatible land uses. Farming, animal husbandry, and plant husbandry can continue underneath the transmission lines for most crops,

farm animals, and orchards. Many of the national standards for transmission line design are specifically in place to ensure that typical farm machinery can continue to operate in the vicinity of and under transmission lines.

Key requests from farm owners were to span fields or parallel property lines or access roads where feasible, and to provide specially engineered structures near orchards to allow the orchard trees to remain in production under the ROW. Transource worked with landowners to understand any immediate plans to expand farming operations that included buildings and worked to minimize impact where possible. Transource has also worked to minimize impacts through selective siting of pole locations and alignment with the goal of not impacting the ability to farm the fields. Currently, the potential cumulative area that would be directly affected by pole placement, with an assumed 10-foot diameter, accounts for less than 0.5 acre across the approximate 29 mile alignment of the Proposed Route.

5.2.3 Natural Features

Vegetation clearing and maintenance is required to abide by the federal guidelines mandated by NERC to ensure the safe and reliable operation of the line on the Proposed Route. Transource's vegetation management practices will allow for the re-generation of compatible species of low growing trees, shrubs, and grasses, where practicable. Herbicides used on the ROW will be EPA-approved and will be applied selectively in accordance with all label instructions. Different herbicides will be used based on the environmental conditions with specific attention to not negatively affect streams and wetlands areas. Application of these herbicides near sensitive resources would be conducted by hand-held spraying; no aerial spraying will be used along the alignment. Determination of the mitigation requirements for forest impacts, as well as for impacts to the other natural resources, will be part of the permit review process.

Wetlands along the Proposed Route will be delineated using PADEP, MDE, and USACE approved methodologies based on the *"Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region"*. Once the wetlands have been delineated, an engineering review will be conducted to minimize the potential impact to these resources through strategic structure placement that will be oriented to span the wetlands where possible. Impacts to wetlands will be further minimized by identifying access road networks that do not need to cross these features. All required permits for these unavoidable wetland impacts will be obtained from the PADEP, MDE, and the USACE prior to construction. Mitigation in the form of wetland creation, enhancement, or conservation may be required for these wetland impacts.

Streams along the Proposed Route will also be delineated using PADEP, MDE, and USACE approved methodologies. Long-term impacts to these watercourses are expected to be minimal, as they will be spanned by the proposed transmission line, with most crossings oriented to span the feature at a 90° angle to minimize impacts to the adjacent riparian area. Some mitigation efforts may be required as a result of the reduction in riparian buffer along these features. Due to the water quality level in these watersheds, an Individual NPDES permit will be required to mitigate any potential short-term impacts of erosion and sedimentation during construction. As part of the Individual NPDES process, additional and more sophisticated Best Management Practices (BMPs) may be required during construction to maintain the high water quality standards in the watersheds and obtain the NPDES permit.

FEMA and state-identified floodplains are found adjacent to watercourses and identify the areas that routinely flood during heavy rain events. Encroachment within a floodplain area is discouraged by the regulatory agencies due to the potential of the structure to increase the flooding hazard in the local area. Where practicable, transmission structures will be constructed outside the floodplain areas. Due to the wide valleys associated with many of the waterways along the Proposed Route, many of the floodplains and floodways will be relatively narrow and can be spanned by the transmission line. For those locations where the floodplains are not avoidable, additional analysis of the proposed structures may be required by PADEP and MDE to confirm the activity will not create flooding conditions in the local area. No structures will be located in the floodway of any stream.

5.2.4 Threatened and Endangered Species

During the siting process, threatened and endangered species and habitat data were collected from those federal and state agencies that handle this information to understand the location of sensitive resources. Effort has already been made at this initial step to site the proposed route, knowing where such resources are located. Coordination with state and federal agencies regarding potential threatened and endangered species will be initiated prior to commencing field surveys to ensure any necessary habitat or species specific survey are completed during the appropriate time of year. Transource is committed to obtain all necessary permits and approvals from the applicable jurisdictional agencies and complying with any conditions or requirements imposed on such permits.

5.2.5 Cultural Resources

During the siting process cultural resources data were collected from both PHMC and MHT to understand the location of sensitive resources. Effort has already been made at this initial step to site the proposed route knowing where such resources are located, and working to avoid NRHP listed sites, and where possible avoiding eligible resources. Cultural resource coordination with the PHMC and MHT is underway and with selection of the proposed route Transource will further

coordinate with the PHMC and MHT to determine an area of potential effect (APE) and complete the necessary surveys. Transource is committed to working with the PHMC and MHT to complete any required studies and address any potential impacts and required mitigation activities.

5.2.6 Community Features and Conserved Lands

Community features, which include schools, daycare centers, churches, and cemeteries, were identified and effectively avoided during the route selection process. One school parcel that is currently forested would be crossed by the Proposed Route.

Conserved lands involve areas preserved as private or public open space. No private or public open space areas are located along the Proposed Route.

5.2.7 Anticipated Agency Requirements and Permits

In summation of the items reviewed above, several specific threatened and endangered species studies, wetland/stream studies, and archaeological surveys will need to be conducted that provide information on possible avoidance and impact areas along the Proposed Route. Transource is committed to obtain all necessary permits and approvals from the applicable jurisdictional agencies and complying with any conditions or requirements imposed on such permits.

5.2.8 Review of County Comprehensive Plans and Municipal Level Zoning

Public utility features, such as transmission lines and substations are generally exempt from local municipal authority. To further the Commonwealth’s goal of making agency actions consistent with sound land use planning by considering the impact of its decision upon local comprehensive plans and zoning ordinances, the Pennsylvania Public Utilities Commission (PUC) adopted a policy on January 11, 2001 that requires the public utility to review comprehensive land use plans and local zoning ordinances to evaluate the impact of proposed projects on these items (See 52 Pa. Code 69.1101, 31 Pa. Bull. 951 [Feb. 17, 2001]). In adherence to PUC regulations, Transource evaluated the proposed Rice-Ringgold 230 kV Transmission Line Project’s (9A West Project) consistency with the zoning ordinances and comprehensive plans of Franklin County and associated municipalities through which the Project would pass.

Pennsylvania

The Franklin County Commissioners (FCC) first prepared a comprehensive plan in 1999, but more recently adopted an update in July of 2023 (**Table 10**). The updated comprehensive plan, *Imagine Franklin 2035* (Plan), “serves as the guiding framework for the county’s growth and development over the next decade and beyond” (FCC 2023). Franklin County has experienced “tremendous growth and change” in recent years, necessitating a plan that includes thoughtful strategies to

accommodate and anticipate the current and future needs of communities and residents (FCC 2023).

The Plan is not intended to regulate and has no official authority, but all planning efforts at the municipal level are meant to be guided by the goals, objectives, and policies outlined within. The Plan lists eight (8) goals spread across three (3) focus areas:

Quality of Place

1. Create a strong sense of place within our historic urban centers by activating underutilized and vacant spaces and supporting economic vitality.
2. Ensure our transportation network supports our goals.

Quality of Life

1. Provide community facilities in concert with our approach to future growth.
2. Support human services that work to help people improve their lives and their livelihood.
3. Provide access to quality housing that meet the needs of a growing community.

Quality of Growth

1. Expand attainable housing options.
2. Strengthen opportunities to grow our workforce and educational assets.
3. Balance growth opportunities that provide housing and business development to support future populations with preservation of the county's scenic beauty and natural resources.

In an effort to meet these goals, Franklin County plans to invest in existing urban centers, protecting natural and scenic areas, and provide resources for individuals and families, such as sufficient workforce opportunities and human services (FCC 2023).

The Plan provides an overview of each focus area and includes recommendations, goals, supporting data, and action items. The Plan encourages locally implemented land use strategies and is positioned to be the central resource for providing model ordinance language and other planning ideas to communities so that development and conservation goals can be encouraged to be upheld. As a result of this initiative, many of the townships with the County have developed or updated comprehensive plans and municipal zoning ordinances. Many of these townships have worked jointly with adjacent townships to develop multi-municipal comprehensive plans

(Table 11). Specific to the Project, Washington Township and Waynesboro Borough have coordinated to develop the Washington Township and Waynesboro Borough Joint Comprehensive Plan (Washington Township Planning Commission; Waynesboro Borough Planning Commission 2009). Specific townships, including Southampton and Greene Townships have prepared individual comprehensive plans and recent updates to guide their specific land use plans (Greene Township 2019; Southampton Township Planning Commission 2001). These municipal comprehensive plans generally reiterate the concerns raised by the county-level comprehensive plans. Of note, Greene Township’s Comprehensive Plan encourages efforts to strengthen relationships between private utility companies and local municipalities to ensure that all interested parties’ needs are being met in a mutually beneficial way (Greene Township 2019). Gilford and Quincy Townships do not have Township specific Comprehensive Plans.

Township Zoning

Local zoning ordinances have been adopted in all six (6) of the municipalities that will be crossed by the Project in Franklin County. These ordinances are used to guide future land use in the townships by encouraging development of desirable residential, commercial, agricultural, and industrial areas with appropriate groupings of compatible and related land uses. Ordinances defining the allowances and restrictions associated with the various zoning districts typically identify “Essential Services” or “Public Utility Facilities,” which include distribution, transmission, or collection systems associated with utilities such as water, gas, and electric, to be conditionally exempt from local regulations, as long as the required actions are approved by the state utility commission.

As such, the proposed Project will not have any effect on zoning within any of the townships crossed.

Maryland

In 1971 the Washington County Planning and Zoning Commission created and adopted the first Comprehensive Plan. To date, the *2040 Comprehensive Plan*, adopted in August 2025, was prepared by the Washington County Department of Planning and Community Development Department and is an update to the 2002 Comprehensive Plan for Washington County.

The Comprehensive Plan identifies eight goals and objectives to use as a guide for future land use policy in Washington County, in consideration of County and State visions, public input, analysis of past and projected growth trends, studies on the fiscal impact of growth, anticipated capital improvement program funding levels, and review of strengths and weaknesses of the former Comprehensive Plan (Washington County 2025).

1. Provide a diverse range of housing for citizens that promote sustainable, livable and affordable housing opportunities.
2. Promote a balanced and diversified economy.
3. Provide a safe, efficient, and interconnected multi-modal transportation system.
4. Maintain policies and strategies that direct growth to areas where the County can provide adequate infrastructure and community resources for existing and future development.
5. Provide residents with a high quality of life through the impactful planning and delivery of fundamental community facilities and services.
6. Enhance the County's rich historic and cultural heritage through land preservation and historic preservation efforts.
7. Provide adequate protections for, and enhanced stewardship of, environmental resources and sensitive areas.
8. Encourage infill development and revitalization of existing communities using context sensitive development strategies to maintain and enhance community

In 2012, the Maryland General Assembly repealed State Legislation Article 66B and replaced it with the Land Use Article, which delegates planning and land use regulatory authority to non-charter counties and incorporated municipalities. The Board of County Commissioners of Washington County designates the Planning Commission and the Department of Planning and Zoning to prepare and periodically update the comprehensive plan to guide growth and development in the County. As such, the Comprehensive Plan has been developed in accordance with State statutes and becomes a policy document flexible enough to address changing circumstances yet rigid enough to establish a reasoned and practical vision of the future which can balance the need to grow and develop with the protection of the natural, cultural and human resources which make Washington County a unique place to live, work and play (Washington County 2025).

The type, location and timing of development is regulated through County laws and ordinances such as the Zoning Ordinance, as well as guidance through functional plans such as the Water and Sewerage Plan. In particular, the Zoning Ordinance is critical to the overall regulatory implementation of the Comprehensive Plan. The Proposed Route will traverse through the Agricultural (Rural) District (A(R)) and Business, General District (BG). The Zoning Ordinance states Essential Utility Equipment shall be permitted in any zoning district, as authorized and regulated by law and ordinances of Washington County, it being the intention hereof to exempt

such essential services from the application of this Ordinance; except that, without in any way altering or otherwise affecting such exemption, the plans of any overhead electric transmission line of 69 kV or more, on metal or wooden poles or towers or pole structures, proposed to be erected or installed in any A(R), EC, P, RV, RS, RT, RU, or RM District shall be submitted before the beginning of construction to the Planning and Zoning Commission for its review.

Table 10: Summary of Zoning and Comprehensive Plans within the Project Study Area

COUNTY/TOWNSHIP	ZONING	COMPREHENSIVE PLAN
Franklin County	N/A	Imagine Franklin 2035 (2023)
Southampton Township	Zoning Map (2017) and Ordinance (2017)	Southampton Township Comprehensive Plan Update (2001)
Greene Township	Zoning Map (2026) and Ordinance (2025)	Greene Township Comprehensive Plan Update (2019)
Guilford Township	Zoning Map (2012) and Ordinance (2024)	No Comprehensive Plan
Quincy Township	Zoning Map (2011) and Ordinance (2012)	No Comprehensive Plan
Washington Township	Zoning Map (2025) and Ordinance (2025)	Washington Township and Waynesboro Borough Joint Comprehensive Plan (2009)
Waynesboro Borough	Zoning Map (2019) and Ordinance (2024)	Washington Township and Waynesboro Borough Joint Comprehensive Plan (2009)
Washington County	Zoning Map (2018) and Ordinance (2018)	2040 Comprehensive Plan (2025)

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Appendix A: GIS Data Sources

Appendix A: GIS Data Sources		
Siting Criteria	Source	Description
Land Use		
Number of parcels crossed by the ROW	Franklin County GIS Office (12/2025) Washington County GIS Office (12/2025)	Count of the number of parcels crossed by the ROW
Number of residences within 500 feet of the route centerline	Franklin County GIS Office (12/2025) and verified from aerial imagery Washington County GIS Office (12/2025) and verified from aerial imagery	Count of the number of residences within the ROW and within 100 feet, 250 feet and 500 feet of potential routes
Number of commercial buildings within 500 feet of the route centerline	Franklin County GIS Office (12/2025) and verified from aerial imagery Washington County GIS Office (12/2025) and verified from aerial imagery	Count of the number of commercial buildings within the ROW and within 100 feet, 250 feet and 500 feet of potential routes
Number of barns, outbuildings, sheds, garages, and silos in the ROW	Franklin County GIS Office (12/2025) and verified from aerial imagery Washington County GIS Office (12/2025) and verified from aerial imagery	Count of the number of barns, outbuildings, sheds, garages and silos in the ROW (excluding apparent abandoned features)

Appendix A: GIS Data Sources		
Siting Criteria	Source	Description
Mining areas crossed	PADEP Digitized Mining Areas (2026) and Maryland Mining Areas (2025)	Count of the number of mining areas crossed by the ROW
Quarries crossed	Aerial imagery review (2025)	Count of the number of quarries crossed by the ROW
Airfield and heliports within 1 mile of the route centerline	Bureau of Transportation (2025)	Distance from airfields and heliports
Land use acreage crossed by the 130 foot ROW over centerline (including Pasture/rangeland, cropland, tree farms/orchards, and forested areas)	NLCD (2024) with review of Google Earth Imagery	The NLCD 2024 (NLCD 2024) compiled by the Multi-Resolution Land Characteristics (MRLC) Consortium includes 15 classes of land cover from Landsat satellite imagery.
Acres of conservation easements crossed	PADUS (Protected Areas Database 2025)	Private conservation easements crossed by the routes from the NCED which is comprised of voluntarily reported conservation easement information from land trusts and public agencies
Acres of county agricultural easement land crossed	Franklin County GIS Office (12/2025)	Protected land that is devoted exclusively to agricultural production or devoted to and qualified for compensation under a federal land retirement or conservation program that is at least 10 acres in size, or produces an average yearly gross income of at least \$2,500 during a 3-year period
	Washington County GIS Office (12/2025)	

Appendix A: GIS Data Sources		
Siting Criteria	Source	Description
Institutional uses (schools, places of worship and cemeteries) within 1000 feet (schools and places of worship) or 250 feet (cemeteries and hospitals) of the route centerline	Places of Worship (IRS 2024) Cemeteries and Hospitals USGS (2025)	This dataset includes the locations of cemeteries, churches, hospitals, parks, and schools. Features within 1000 feet (schools and places of worship) and 250 feet (cemeteries and hospitals) of potential routes were field verified.
Parks and recreation areas crossed by the ROW	USA Parks (2024) PADCNR Local Parks (2024)	USA Parks includes National and State parks and forests, along with County, Regional and Local parks within the United States. PADCNR local parks provides additional local parks within PA.
Scenic Byways	US Scenic Byways (Federal Highway Administration 2025)	Scenic byways per state. These are designated by the U.S Secretary of Transportation as National Scenic Byways and All-American Roads.
Federal/state land	USA Parks (2024)	USA Parks includes National and State parks and forests, along with County, Regional and Local parks within the United States
Number of archeological resources within the ROW and within 65 feet from centerline	PASHARE (accessed 12/17/2025) Medusa (accessed 12/17/2025)	Previously identified archeological resources acquired through Pennsylvania’s Cultural Resources Geographic Information System (CRGIS) and Maryland’s Medusa System

Appendix A: GIS Data Sources		
Siting Criteria	Source	Description
Number of historic architectural resources within the ROW, within 1 mile	PASHARE (accessed 12/17/2025) Medusa (accessed 12/17/2025)	Previously identified historic architectural resource sites and districts listed or eligible on the NRHP acquired through Pennsylvania’s Cultural Resources Geographic Information System (CRGIS) and Maryland’s Medusa System
Natural Environment		
Number of National hydrography dataset (NHD) stream and waterbody crossings within the ROW	USGS NHD (2024)	The NHD is a comprehensive set of digital spatial data prepared by the USGS that contains information about surface water features such as lakes, ponds, streams, rivers, springs and wells
High/Exceptional/Special Protection streams crossed	PADEP (2025, 2026)	PADEP Designated Use classifications of HQ, EV or TSF are considered Special Protection. Maryland does not classify special protection waters.
Riparian buffers crossed in MD	USGS NHD (2024)	MD regulates a 25 foot buffer off both banks of streams as a riparian buffer.
Acres of National Wetland Inventory (NWI) wetland crossings within the ROW	U.S. Fish and Wildlife Service (USFWS) (2025)	The NWI produces information on the characteristics, extent, and status of the Nation’s wetlands and deepwater habitats

Appendix A: GIS Data Sources		
Siting Criteria	Source	Description
Acres of 100-year floodplain crossing within the ROW	Franklin County (2017 – Latest Study Effective Date) Washington County (2017 - Latest Study Effective Date)	Acres of 100-year floodplain within the ROW
Percent of prime farmland soils and soils of statewide importance within the ROW	USDA-NRCS SSURGO Database (2025)	Percent of soil associations crossed by the ROW characterized as prime farmland or farmland of statewide importance
Karst Topography within the ROW	USGS Karst Map (2024)	Dolomite or Limestone
Other Karst Features	PA DCNR Karst Features (2025) MDGS Karst Points (Washington County GIS Office 2025)	Karst point features (sinkholes, depressions, caves etc.)
Threatened, endangered, rare or sensitive species occurrence within the Project vicinity	PA Natural Heritage (NHA 2014), MD Sensitive Species Review Areas (2026)	Known occurrences; locations of potential habitat based on land use
Constructability		
Route length	Measured in GIS	Length of route in miles
Heavy angles	Measured in GIS	Anticipated number of angled structures <30 degrees based on preliminary design

Appendix A: GIS Data Sources		
Siting Criteria	Source	Description
Number of road crossings	US Dept of Transportation (2025)	Count of federal, state and local roadway crossings
Number of pipeline crossings	Rextag (2021)	Number of known natural gas and crude oil pipelines crossed by the transmission ROW
Number of transmission line crossings	Rextag (2021), visual comparison to PowerMap (2012)	Number of high voltage (100 kV or greater) transmission lines crossed by the ROW
Distance of steep slopes crossed	Washington County, MD (2021) PASDA LIDAR for Franklin County, PA (2017)	Miles of slope greater than 20 percent crossed by the routes
Length of transmission line parallel	Rextag (2021), visual comparison to PowerMap (2012)	Miles of the route parallel to existing high voltage transmission lines
Length of pipeline parallel	Rextag (2021), visual comparison to PowerMap (2012)	Miles of the route parallel to existing pipelines
Length of road parallel	US Dept of Transportation (2025)	Miles of the route parallel to existing roadways
Aerial Imagery		
Multiple	National Agriculture Imagery Program (NAIP) PA (2020), MD (2023)	Aerial imagery interpretation and verification across multiple metrics

Appendix B: Agency Correspondence

PENNSYLVANIA

AGENCY CONSULTATION AND RESPONSES



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Shawn Garvin, Regional Administrator
 U.S. Environmental Protection Agency
 Region 3
 1650 Arch Street, Mail Code: 3RA00
 Philadelphia, Pennsylvania 19103-2029

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Mr. Garvin,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation for the Project activities occurring Pennsylvania and Maryland. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those counties, and within Pennsylvania those municipalities, that fall within the Project focal areas.

Independence Energy Connection West and East Projects Counties and Municipalities		
Pennsylvania		
West Route – Franklin County		East Route – York County
Letterkenny Township	Quincy Township	Chanceford Township
Southampton Township	Mont Alto Borough	East Hopewell Township
Greene Township	Antrim Township	Hopewell Township
Chambersburg Borough	Greencastle Borough	Fawn Township
Hamilton Township	Washington Township	Fawn Grove Borough
Guilford Township	Waynesboro Borough	Peach Bottom Township
Maryland		
West Route – Washington County		East Route – Harford County

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Transource will continue to provide updates to the EPA as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Lora Lattanzi, Project Leader
 U.S. Fish & Wildlife Service
 Pennsylvania Field Office, Northeast Region
 110 Radnor Rd, Suite 101
 State College, Pennsylvania 16801

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Ms. Lattanzi,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Franklin and York Counties, Pennsylvania. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those municipalities that fall within the Project focal areas.

Independence Energy Connection West and East Projects Municipalities		
West Route – Franklin County		East Route – York County
Letterkenny Township	Quincy Township	Chanceford Township
Southampton Township	Mont Alto Borough	East Hopewell Township
Greene Township	Antrim Township	Hopewell Township
Chambersburg Borough	Greencastle Borough	Fawn Township
Hamilton Township	Washington Township	Fawn Grove Borough
Guilford Township	Waynesboro Borough	Peach Bottom Township

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a Pennsylvania Natural Diversity Inventory (PNDI) request for review. Transource will continue to provide updates to the United States Fish and Wildlife Service (USFWS) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource

Brewster, Heather

From: Dershem, Bonnie <bonnie_dershem@fws.gov>
Sent: Tuesday, April 04, 2017 1:10 PM
To: Brewster, Heather
Subject: Transource Project

Heather,

Please conduct a PNDI search for your project and follow the instructions. Follow the link below:
<https://conservationexplorer.dcnr.pa.gov>

Bonnie

Bonnie Dershem
Endangered Species Biologist
U.S. Fish and Wildlife Service
Pennsylvania Field Office
110 Radnor Rd; Suite 101
State College, PA 16801
814-206-7453



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Wade Chandler, Chief Pennsylvania Section
 U.S. Army Corps of Engineers
 Baltimore District
 Regulatory Branch
 1631 South Atherton Street, Suite 102
 State College, Pennsylvania 16801

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Mr. Chandler,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Franklin and York Counties, Pennsylvania. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those municipalities that fall within the Project focal areas.

Independence Energy Connection West and East Projects Municipalities		
West Route – Franklin County		East Route – York County
Letterkenny Township	Quincy Township	Chanceford Township
Southampton Township	Mont Alto Borough	East Hopewell Township
Greene Township	Antrim Township	Hopewell Township
Chambersburg Borough	Greencastle Borough	Fawn Township
Hamilton Township	Washington Township	Fawn Grove Borough
Guilford Township	Waynesboro Borough	Peach Bottom Township

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a pre-application meeting request. Transource will continue to provide updates to the United States Army Corps of Engineers (USACE) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Daniel Naylor, Supervisor
 Pennsylvania Department of Agriculture - Region 6
 2301 North Cameron Street, Suite G-6
 Harrisburg, Pennsylvania 17110-0184

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Mr. Naylor,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

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Independence Energy Connection West and East Projects Municipalities		
West Route – Franklin County		East Route – York County
Letterkenny Township	Quincy Township	Chanceford Township
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Greene Township	Antrim Township	Hopewell Township
Chambersburg Borough	Greencastle Borough	Fawn Township
Hamilton Township	Washington Township	Fawn Grove Borough
Guilford Township	Waynesboro Borough	Peach Bottom Township

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Transource will continue to provide updates to the Pennsylvania Department of Agriculture (PADA) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is written in a cursive style with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Ellen Shultzabarger, Division Chief
 Pennsylvania Department of Conservation and Natural Resources
 Conservation Science and Ecological Services Section
 Rachel Carson State Office Building
 400 Market Street, 6th Floor
 Harrisburg, Pennsylvania 17105-8552

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Ms. Shultzabarger,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Franklin and York Counties, Pennsylvania. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those municipalities that fall within the Project focal areas.

Independence Energy Connection West and East Projects Municipalities		
West Route – Franklin County		East Route – York County
Letterkenny Township	Quincy Township	Chanceford Township
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Greene Township	Antrim Township	Hopewell Township
Chambersburg Borough	Greencastle Borough	Fawn Township
Hamilton Township	Washington Township	Fawn Grove Borough
Guilford Township	Waynesboro Borough	Peach Bottom Township

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a Pennsylvania Natural Diversity Inventory (PNDI) request for review. Transource will continue to provide updates to the Pennsylvania Department of Conservation and Natural Resources (PADCNR) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource

Brewster, Heather

From: Braund, Jaclyn <c-jbraund@pa.gov>
Sent: Tuesday, February 07, 2017 12:45 PM
To: Brewster, Heather
Subject: Independence Energy Connection Transmission Line Project

Hi Heather,

I have received the Independence Energy Connection Transmission Line Project recently mailed to DCNR. At this time there is no further information I have to give to AECOM for the Project until the PNDI is completed. Please let me know if you need any assistance with the PNDI.

Thanks,

Jaci Braund | Ecological Information Specialist
PA Department of Conservation & Natural Resources
Bureau of Forestry | Natural Heritage Section
400 Market Street | Harrisburg, PA 17105
Phone: 717.214.3813 | **Fax:** 717.772.0271
E-mail: c-jbraund@pa.gov



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Joseph Adams, Regional Director
 PA Department of Environmental Protection
 South-central Regional Office
 909 Elmerton Ave
 Harrisburg, Pennsylvania 17110-8200

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Mr. Adams,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Franklin and York Counties, Pennsylvania. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those municipalities that fall within the Project focal areas.

Independence Energy Connection West and East Projects Municipalities		
West Route – Franklin County		East Route – York County
Letterkenny Township	Quincy Township	Chanceford Township
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Greene Township	Antrim Township	Hopewell Township
Chambersburg Borough	Greencastle Borough	Fawn Township
Hamilton Township	Washington Township	Fawn Grove Borough
Guilford Township	Waynesboro Borough	Peach Bottom Township

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a pre-application meeting request. Transource will continue to provide updates to the Pennsylvania Department of Environmental Protection (PADEP) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is written in a cursive style with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

John Arway, Executive Director
 Pennsylvania Fish and Boat Commission
 Natural Diversity Section
 1601 Elmerton Ave
 Harrisburg, Pennsylvania 17106

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Mr. Arway,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

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Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a Pennsylvania Natural Diversity Inventory (PNDI) request for review. Transource will continue to provide updates to the Pennsylvania Fish and Boat Commission (PAFBC) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Bradley J. Meyers, Director
 Pennsylvania Game Commission
 Southcentral Region
 8627 William Penn Highway
 Huntingdon, Pennsylvania 16652

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Mr. Meyers,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

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Independence Energy Connection West and East Projects Municipalities		
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Letterkenny Township	Quincy Township	Chanceford Township
Southampton Township	Mont Alto Borough	East Hopewell Township
Greene Township	Antrim Township	Hopewell Township
Chambersburg Borough	Greencastle Borough	Fawn Township
Hamilton Township	Washington Township	Fawn Grove Borough
Guilford Township	Waynesboro Borough	Peach Bottom Township

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a Pennsylvania Natural Diversity Inventory (PNDI) request for review. Transource will continue to provide updates to the Pennsylvania Game Commission (PGC) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Andrea L. MacDonald
 Pennsylvania Historical & Museum Commission, Bureau Director
 400 North Street
 Commonwealth Keystone Building, 2nd Floor
 Harrisburg, Pennsylvania 17120-0093

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Ms. MacDonald,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Franklin and York Counties, Pennsylvania. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those municipalities that fall within the Project focal areas.

Independence Energy Connection West and East Projects Municipalities		
West Route – Franklin County		East Route – York County
Letterkenny Township	Quincy Township	Chanceford Township
Southampton Township	Mont Alto Borough	East Hopewell Township
Greene Township	Antrim Township	Hopewell Township
Chambersburg Borough	Greencastle Borough	Fawn Township
Hamilton Township	Washington Township	Fawn Grove Borough
Guilford Township	Waynesboro Borough	Peach Bottom Township

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a Project review request. Transource will continue to provide updates to the Pennsylvania Historic Museum Commission (PHMC) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Pennsylvania State Historic Preservation Office

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

March 6, 2017

Heather Brewster
AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

ER 2017-0726-042-A

Dear Ms. Brewster:

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Archaeological Resources

Both of the proposed focus areas contain a number of previously recorded archaeological sites. Please have an AECOM archaeological professional who has a secure password to archaeological site locations in our Cultural Resources Geographic Information system look at these areas before routes or alternative routes are selected.

Above Ground Resources

A preliminary review of this project indicates that there may be National Register-eligible historic buildings, structures, districts, and objects in the project area. In order to facilitate the review process, project planners must conduct surveys to identify these resources (both previously identified and newly identified) before final plans are developed. For any new proposed structures/lines and/or those proposed structures that will increase in height above 20' from the existing average, please consult our *Guidelines for Projects with Potential Visual Effects in Pennsylvania (September 2014)* available from the "Forms and Guidance" page on our website: <http://www.phmc.pa.gov/Preservation> for instructions, including delineating an Area of Potential Effects, identifying historic properties, and assessing effects.

Given the size and/or complexity of the above listed project, a reconnaissance survey is necessary to characterize the age, style, and types of resources in the Area of Potential Effect (APE). The reconnaissance survey should also provide the methodology for more detailed (intensive) level survey to assess National Register eligibility of resources in the APE. More guidance on preparation of reconnaissance surveys is found in *Guidelines for Architectural Investigations in Pennsylvania (2014)*, available via our website: <http://www.phmc.pa.gov/Preservation/About/Documents/Architectural-Guidelines.pdf>

To assist you in your identification of known above ground resources, the State Historic Preservation Office (SHPO) maintains records of National Register listed and eligible and

previously identified resources. Information on many of these resources is available on our web based Cultural Resources Geographic Information System (CRGIS) <http://crgis.state.pa.us>. Additional information is available in the survey reports and files of the PHMC-BHP's research room. Please consult the unpublished reports and files to determine what is known in the project area and whether the previous survey information may require an update. In addition, a comparison of historic (available at pennpilot.psu.edu) and current aerial mapping would be useful for identifying changes to the landscape over time as well as additional resources within the project vicinity that meet the National Register 50-year-age consideration.

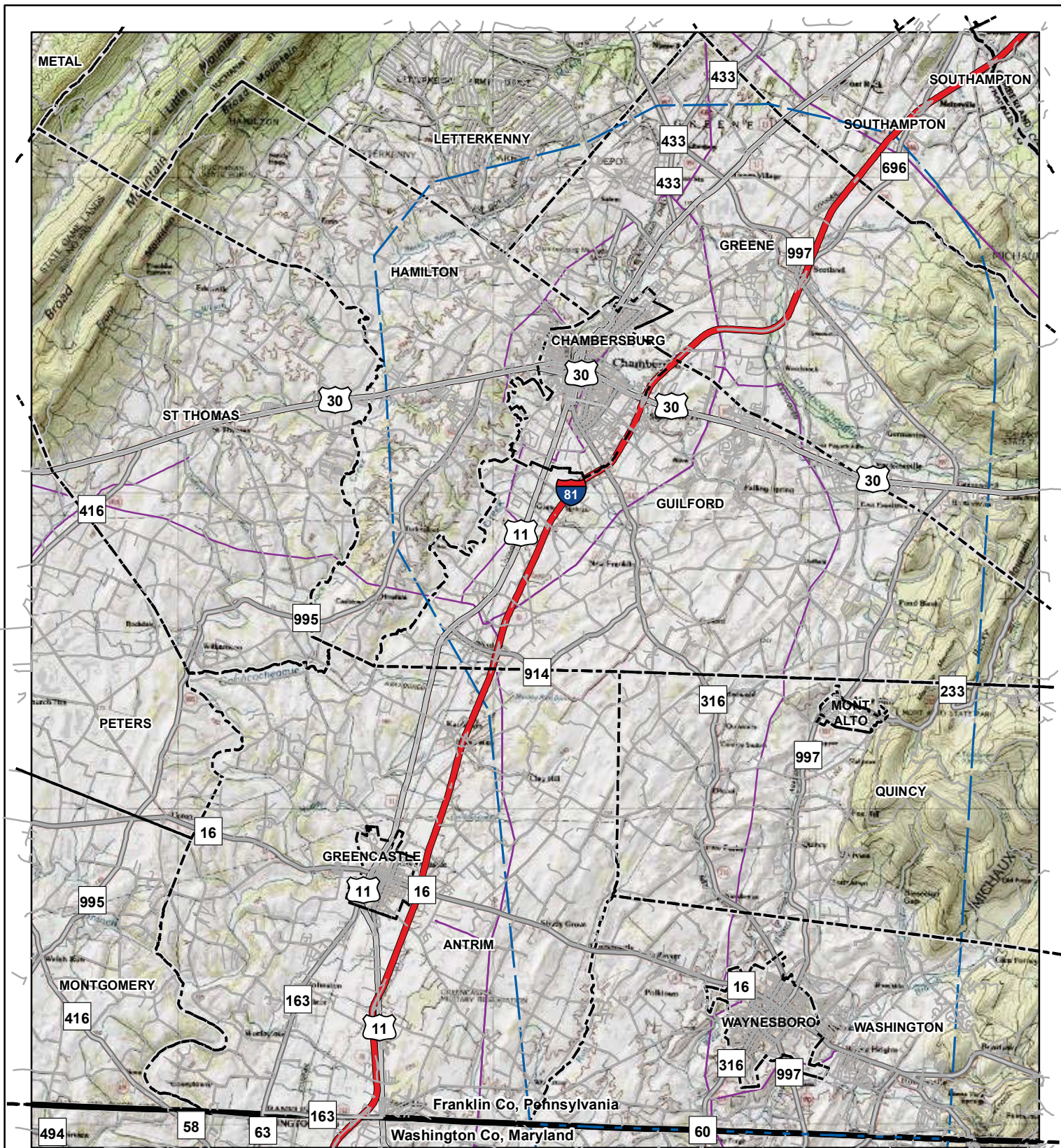
For larger or more complex projects, you may also want to consult with the appropriate staff reviewer on the delineation and justification of the boundary of the APE. Their contact information is listed below.

If you have any questions regarding archaeological resources, please contact me at 717-772-0925 or dmclearn@pa.gov. If you have questions regarding above ground resources, please contact Cheryl L. Nagle at 717.772.4519 or chnagle@pa.gov.

Sincerely,

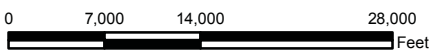


Douglas C. McLearn, Chief
Division of Archaeology and Protection



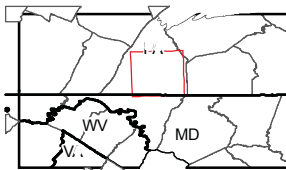
Legend

-  Existing Transmission Lines
-  Project Focal Area
-  Municipal Boundary
-  County Boundary
-  State Boundary



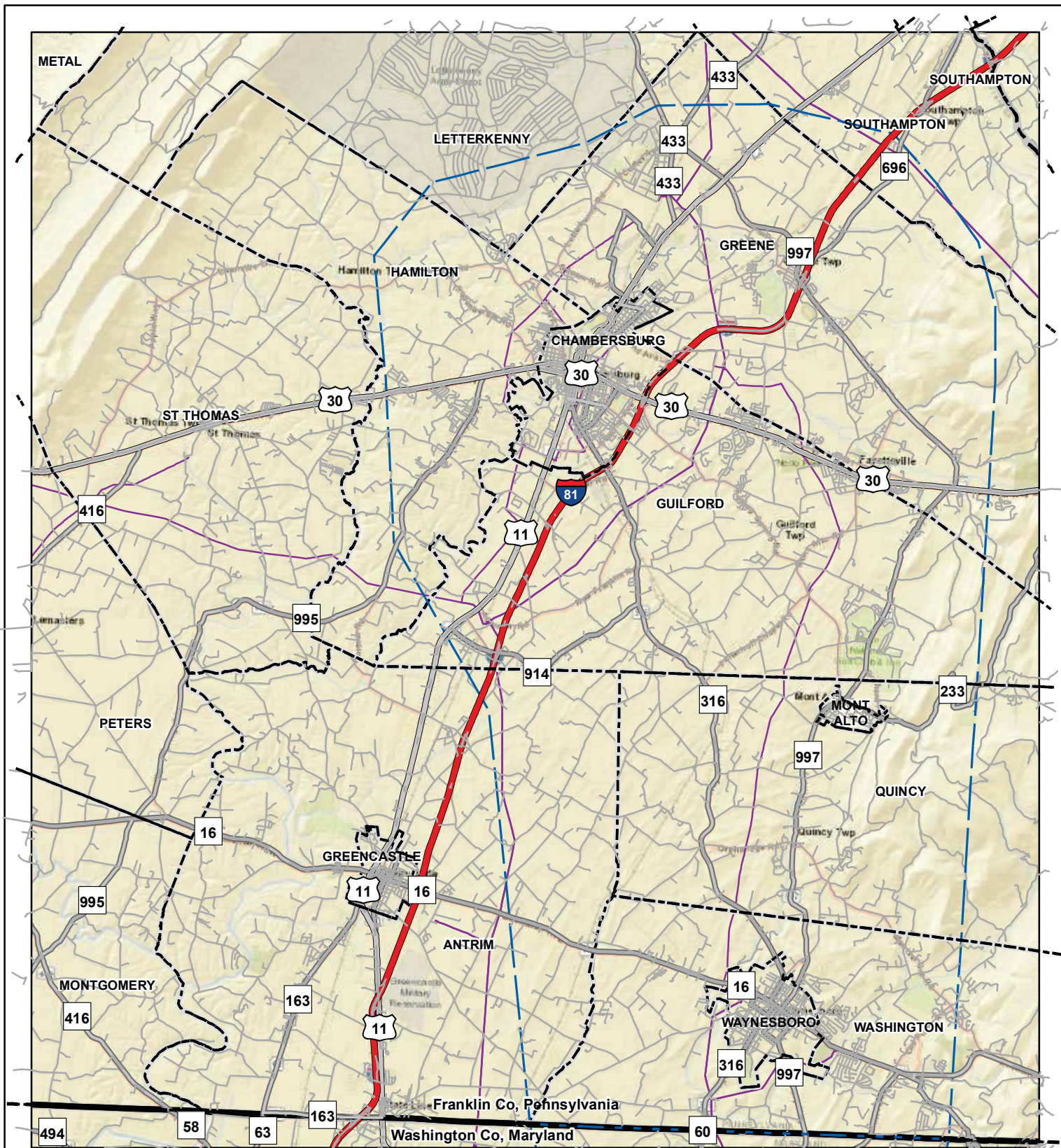
Coordinate System:
 NAD 1983 UTM Zone 18N
 Projection: Transverse Mercator
 Linear Unit: Meter

Data Sources:
 Platts Power Map Transmission Line (2011)
 USA Topo Maps (ESRI)



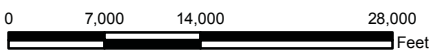
Job: 60529006
Prepared by: NB/BSF
Checked by: HB
Date: 1/30/2017

Independence Energy Connection - West
 Transource, LLC
 Focal Area - PA
 Draft Work Product



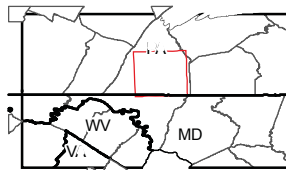
Legend

-  Existing Transmission Lines
-  Project Focal Area
-  Municipal Boundary
-  County Boundary
-  State Boundary



Coordinate System:
 NAD 1983 UTM Zone 18N
 Projection: Transverse Mercator
 Linear Unit: Meter

Data Sources:
 Platts Power Map Transmission Line (2011)
 USA Topo Maps (ESRI)



Job: 60529006

Prepared by: NB/BSF

Checked by: HB

Date: 1/30/2017

Independence Energy Connection - West
 Transource, LLC
 Focal Area - PA

Draft Work Product



Transource, LLC
8500 Smith Mill Road
New Albany, OH 43054
Tel: 614.933.2600 main

November 8, 2017

Hathaway Jones, Management Analyst
United States Department of Agriculture
Natural Resources Conservation Service
359 East Park Drive, Suite 2
Harrisburg, Pennsylvania 17111

**Subject: Transource Pennsylvania, LLC
Independence Energy Connection Project
Natural Resources Conservation Service Agricultural Easements
York and Franklin Counties, Pennsylvania**

Dear Ms. Hathaway,

Transource Pennsylvania, LLC (Transource PA) is proposing to build two new transmission lines and two new substations in Pennsylvania as part of the Independence Energy Connection Project (Project). Transource PA was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border (Transource Maryland, LLC, an affiliate, is responsible for the construction of related facilities in Maryland). Transource PA will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as the East Route and the West Route. The West Route is approximately 29 miles (24 miles in Pennsylvania) and begins at the proposed Rice Substation in Franklin County, Pennsylvania, and extends to the existing Ringgold Substation in Washington County, Maryland. The East Route is approximately 16 miles (13 in Pennsylvania) starting at the proposed Furnace Run Substation in York County, Pennsylvania, and extends to the existing Conastone Substation in Harford County, Maryland. Both transmission lines will require a 130 foot wide right-of-way (ROW) for both installation and operation. At this time, Transource PA has announced proposed routes for this Project after working through the siting process and completing public open houses.

Transource PA is formally requesting the Natural Resources Conservation Service's (NRCS) review of the proposed routes in Pennsylvania as it relates to Stewardship Lands Easements, including those under the Agricultural Conservation Easement Program (ACEP), formerly referred to as the Farm and Ranch Lands Protection Program (FRPP). Per past correspondence with NRCS, Transource PA is providing the following requested information including parcels identified along the ROW of the proposed routes, mapping, shapefiles of the routes, and a summary table of the identified parcels.

Transource PA would like to clarify that at this time the information used to identify the parcel boundaries and landowners is based on public county tax parcel data. Civil survey of property lines and deed title search is pending to finalize this information. With the public announcement of the proposed routes, landowners within the 130 foot ROW, based on county parcel data, and those within close proximity were notified via certified mailing. Until parcel data can be verified using field information, additional parcels within close proximity of the routes have also been included with the provided information. Final collection of field surveyed parcel lines may determine whether these parcels can be avoided.

Enclosed with this request, Transource PA is providing the agricultural easement deeds for those properties along the proposed routes identified as having NRCS easements. Those documents are provided herein for NRCS's information.

We appreciate your review and assistance with this request. Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: Proposed Route Aerial Maps
Shapefile of Proposed Routes w/Parcel Data
List of Notified Landowner with Parcel Data
Agricultural Easement Deeds

cc: Laurie Spears – Transource



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE

November 29, 2017

Ms. Laurie Spears
Transource®
Senior Siting Specialist
8500 Smith Mill Road
New Albany, OH 43054

Dear Ms. Spears:

RE: The Independent Energy Connection project and potential impacts to farmland.

It has come to my attention that Transource ® is developing the Independence Energy Connection (IEC) project, to include a new overhead electric transmission project. I understand that the project will be built in two segments, East and West, and will include land primarily in Franklin and York counties in Pennsylvania, land that is some of the richest and most productive agricultural land in the world. This is of concern to me as agriculture is a leading economic endeavor in Pennsylvania. The agriculture industry contributes over \$75 billion to our economy statewide. Products grown and processed here provide food for our nation, support jobs and a diverse economy.

In addition, Pennsylvania leads the nation in farmland preservation through the purchase of permanent agricultural conservation easements—and both York and Franklin counties have two of the most robust programs in the state with more than 58,807 acres preserved. In fact, over \$107 million in public funds have been invested in preserving farmland in these two counties alone.

Farm owners have given up the right to use their properties for other uses in support of maintaining a thriving agricultural industry in this region. Many are now questioning how the Independent Energy Connection project will impact their farming operations and why there are no additional protections or considerations for preserved farms. Since farmland is open and cleared it is often viewed as path of least resistance by comparison to other impacted resources. However, it cannot be overstated that farmland is valuable to both the farm owners whose livelihood depends on it and to the taxpayers who have made significant investments in preserving it.

In summary, as Transource® prepares to file with the Public Utility Commission later this year, I urge you to be mindful of agriculture and particularly preserved farms in planning and siting of this project. Please feel free to contact Doug Wolfgang, Director of Farmland Preservation, at (717) 783-3167 if there are questions or you would like further discussion.

Sincerely,

A handwritten signature in blue ink that reads "Russell C. Redding".

Russell C. Redding
Secretary

AGENCY EMAILS

Brewster, Heather

From: Bess, Damian A CIV USARMY USAMC (US) <damian.a.bess.civ@mail.mil>
Sent: Tuesday, May 16, 2017 6:11 PM
To: Brewster, Heather
Subject: RE: [Non-DoD Source] RE: meeting info for Letterkenny (UNCLASSIFIED)

CLASSIFICATION: UNCLASSIFIED

Heather

Thanks for your visit, it was very informative. If you wouldn't mind, please let me know when and where any public meetings are planned and what outlet you advertise it on so that we can keep track. We will be forwarding our boundary data to assist your planning.

Damian

-----Original Message-----

From: Brewster, Heather [<mailto:Heather.Brewster@aecom.com>]
Sent: Thursday, May 11, 2017 10:07 AM
To: Bess, Damian A CIV USARMY USAMC (US) <damian.a.bess.civ@mail.mil>
Subject: [Non-DoD Source] RE: meeting info for Letterkenny (UNCLASSIFIED)

All active links contained in this email were disabled. Please verify the identity of the sender, and confirm the authenticity of all links contained within the message prior to copying and pasting the address to a Web browser.

Thank you Damian. We will likely complete the form and go ahead and send it in via the provided email address.

Thank you ~Heather Brewster
610-832-8819

-----Original Message-----

From: Bess, Damian A CIV USARMY USAMC (US) [Caution-<mailto:damian.a.bess.civ@mail.mil>]
Sent: Thursday, May 11, 2017 10:02 AM
To: Brewster, Heather
Subject: meeting info for Letterkenny (UNCLASSIFIED)

CLASSIFICATION: UNCLASSIFIED

Heather

The public site below has directions to my office in bldg. 10. You and Barry should fill out the form attached and bring it with you for access or send it ahead to be ready. When you get here, I will meet you and escort you to get your visitor's pass. Just use my cell or work phone below to contact me when you arrive. If you want to send ahead, send it to usarmy.letterkenny.usamc.list.lett.drsk-access-apprv@mail.mil.

Caution-<http://www.letterkenny.army.mil/directions.html>

VR
Damian Bess
Director, Public Works
Letterkenny Army Depot
Chambersburg, PA 17202
Wk 717-267-9456
Wk Cell 717-331-9313

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

Brewster, Heather

From: Brubaker, Roy D (DCNR) <robrubaker@pa.gov>
Sent: Thursday, July 06, 2017 1:34 PM
To: Gribik, Jodie A
Cc: Brewster, Heather; Ewan, Keith D
Subject: FW: Transource Independence Energy Connection - Michaux State Forest
Attachments: 11x17_Michaux_IndexMap_West_060617.pdf; 11x17_AEP_Overview_West_060217.pdf; PA_PADCNr_Transource_20170131.pdf

Jodie,

I spoke with Heather by phone regarding this project and she may be calling you about setting up a meeting to discuss their route alternatives with the BOF. I believe Phil and Keith had been in contact with Dave and/or Bill regarding it. I will wait to hear from you on what next steps you will need our involvement in.

Thanks.

RB

From: NR, FD01
Sent: Thursday, July 06, 2017 10:22 AM
To: Brubaker, Roy D (DCNR) <robrubaker@pa.gov>
Subject: FW: Transource Independence Energy Connection - Michaux State Forest

Heather called this morning. I explained that our computers were down all day yesterday. She may call back later today as you were in a meeting when she called.

Thanks

Colleen DeLauter | Clerk Typist 1
PA Department of Conservation and Natural Resources
Bureau of Forestry, Michaux State Forest, District #1
10099 Lincoln Way East | Fayetteville, PA 17222
Phone: 717-352-2211 | Fax: 717-352-3007
E-mail: cdelauter@pa.gov

www.dcnr.state.pa.us

From: Brewster, Heather [<mailto:Heather.Brewster@aecom.com>]
Sent: Wednesday, July 05, 2017 3:51 PM
To: NR, FD01 <ra-fd01@pa.gov>
Subject: Transource Independence Energy Connection - Michaux State Forest

Mr. Brubaker,

I left a voicemail message regarding Transource LLC's Independence Energy Connection Project. This project entails a new 230kV transmission line project commencing north of Chambersburg, Franklin County PA and traveling south into Washington County, MD. We provided an introduction letter to PADCNr in January letting them know about the Project. We have currently identified several Study Segments and are considering them for their siting opportunities and constraints in order to identify 2-3 alternative

routes. Michaux State Forest sits along the eastern boundary of the Project Study Area. I have included the following figures for your information:

1. An Overview map of the West Project area that shows all the study segments we have identified to date
2. Corresponding index aerial map showing those areas of Michaux State Forest in proximity to our Study Segments shown in greater detail.
3. Index Map F4 shows the one Study Segment 302 that crosses Michaux State Forest south of the Greene and Guilford Twp line east of Bikle Road.

I would appreciate the opportunity to talk and if preferred have schedule a meeting to discuss the Project with Michaux State Forest. AECOM is aware of the Environmental Assessment process required when traversing any State Forests. If there is someone else I should be reaching out to regarding this matter please let me know. Transource will be attending a meeting with PADEP SC on June 19th to discuss the Project.

Thank you. ~Heather

Heather Brewster

Associate Vice President

AECOM Environment

☎ 610-832-8819 (direct line)

✉ heather.brewster@aecom.com

📱 215.869.4137 (mobile)

AECOM

625 West Ridge Pike, Conshohocken, Pennsylvania 19428

T 1-610-832-3500 F 1-610-832-3501

www.aecom.com



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Brewster, Heather

From: Gribik, Jodie A <jgribik@pa.gov>
Sent: Wednesday, July 26, 2017 3:07 PM
To: Brewster, Heather
Subject: RE: Independence Energy Connection Project Update - Michaux State Forest

Hello Heather –

I am back in my office! I just returned from field work for the end of the day today. I want to check out the info at the link you provided. Also, Roy has mentioned that his district has spoken to my staff regarding this, so I'm going to try and catch up with them this afternoon and then I will get in touch with you asap. Thank you very much for your patience!

Jodie

Jodie Gribik, Section Chief
DCNR Bureau of Forestry
Operations Section
400 Market Street, P.O. Box 8552
Harrisburg, PA 17105
Phone: 717.787.2014
E-mail: jgribik@pa.gov
www.dcnr.state.pa.us/forestry

From: Brewster, Heather [mailto:Heather.Brewster@aecom.com]
Sent: Tuesday, July 25, 2017 2:39 PM
To: Brubaker, Roy D (DCNR) <robrubaker@pa.gov>; Gribik, Jodie A <jgribik@pa.gov>
Cc: Ewan, Keith D <kewan@pa.gov>; Laurie M Spears <lmspears@aep.com>
Subject: Independence Energy Connection Project Update - Michaux State Forest

Jodie and Roy,

I want to follow-up regarding Transource's Independence Energy Connection Project. I will follow-up this email with a call to Jodie, as we have not been able to touch base and talk yet. Since talking with Roy, the Project has been further refined and 2 alternative routes are being considered. They can be reviewed at the project website, which is detailed below. At this time we are still considering an alternative that crosses the small area of Michaux State Forest, as discussed with Roy. Transource would like the opportunity to discuss this project further with the DCNR and setup a meeting. We will be having additional open houses the week of August 7th for the public to review and comment on these alternative routes. This information is all detailed below. If you click on the project aerial below or this link it will take you to the Project website and a viewer that shows the alternative routes. <http://www.transourceenergyprojects.com/IndependenceEnergyConnection/>.

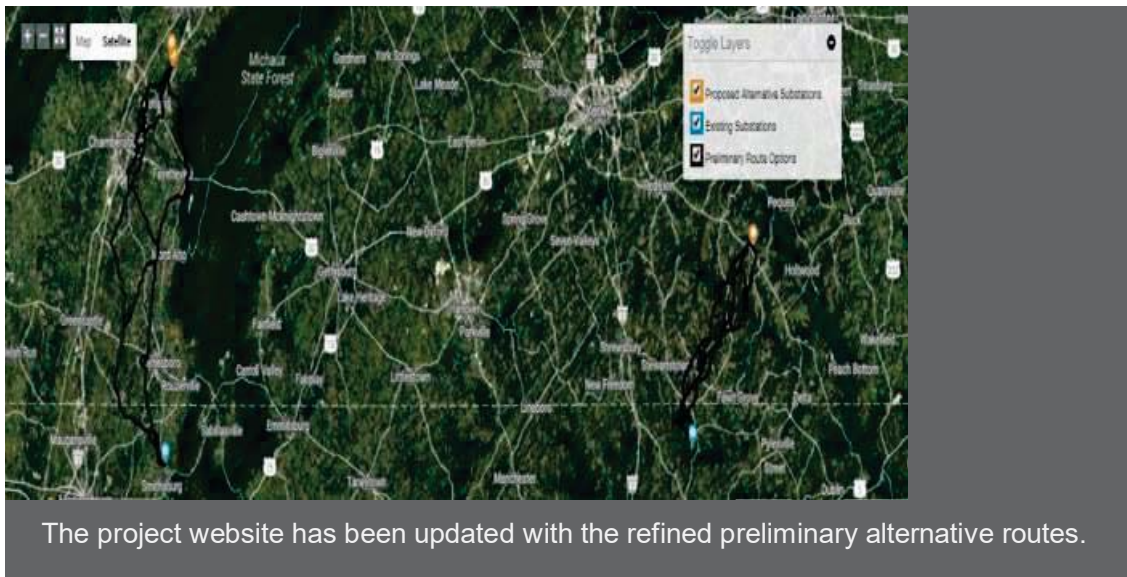
Thank you ~Heather Brewster
610-832-8819

[View this email in your browser](#)



Thank you for your interest in the Independence Energy Connection (IEC), a new overhead electric transmission line project being built by Transource Energy.

Beginning today, Transource is taking input on refined preliminary alternative routes. This is the second phase of public review before the company determines a proposed route to file with state regulators.



In June, the company presented study segments to the public and received comments. Many of the study segments initially presented have been removed to arrive at the preliminary alternative routes now being announced. The company continues to take comments online, by phone, mail and in person at the open houses in August.

The open houses are scheduled for:

- **Monday, August 7 from 6-9 p.m**
Smithsburg Middle School (Gym)
Smithsburg, Md.
- **Tuesday, August 8 from 6-9 p.m.**
Kauffman Ruritan Club and Community Center
Chambersburg, Pa.
- **Wednesday, August 9 from 6-9 p.m.**
Norrisville Elementary School (Gym)
White Hall, Md.
- **Thursday, August 10 from 6-9 p.m.**
Kennard-Dale High School (Cafeteria)
Fawn Grove, Pa.

NO FINAL ROUTE HAS BEEN DETERMINED

We appreciate your continued input
as we work to develop a proposed route
to file with state regulators.

Ways to Provide Input:

- IN PERSON:

Attend a local open house event

- BY PHONE:

1-800-440-4213

- ONLINE:

www.TranssourceEnergyProjects.info

- BY MAIL:

P.O. Box 573, Harrisburg, PA 17108-0573

- OR -

P.O. Box 192, White Hall, MD 21161-0192

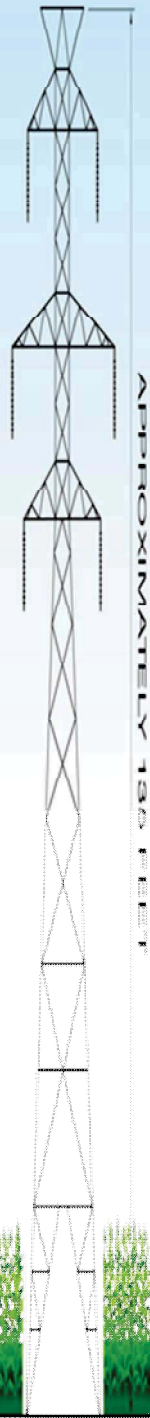
As with the first open houses, attendees can talk with Transource team members, learn about the project, review maps and provide input. There is no formal presentation, so attendees are welcome to come at any point throughout the evening.

The comments we receive play an active role in our decision-making process to determine a proposed route. Additionally, based on feedback, Transource is now considering the use of a steel monopole in addition to lattice structures.

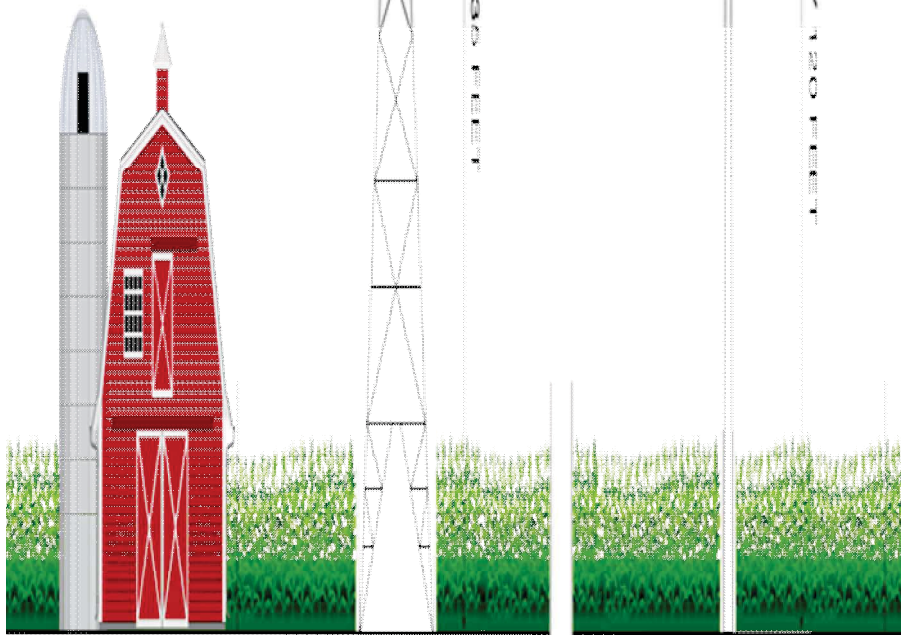
Proposed Structures Under Consideration

The rendering depicts a typical 230 kV double-circuit lattice tower and a typical 230 kV double-circuit steel monopole. Actual structure type, height and base width may vary and/or result in a combination of structure types along the line route. While the structure type may vary, the typical right-of-way is 130 feet wide for safe construction, operation and maintenance of the facilities.

230 kV Double-Circuit Lattice Tower



230 kV Double-Circuit Steel Monopole



30 FEET

APPROXIMATELY 6-10 FEET

Brewster, Heather

From: Plank, Christopher <cplank@pa.gov>
Sent: Thursday, September 21, 2017 7:04 AM
To: Mong, David E (DCNR); Brewster, Heather; lmspears@aep.com; Baker, Barry
Cc: Bowen, Rebecca; Brubaker, Roy D (DCNR)
Subject: RE: PA DCNR - TRANSOURCE - Independence Energy Connection Transmission Line - Project Overview Meeting (West)
Attachments: j-35-2016mo - 10314240919600966.pdf; SR Line NEBA Report 27 July 2012 _FINAL_PUBLIC Complete.pdf

Hello all,

Attached is the very recent (June 2017) PA Supreme Court Opinion regarding DCNR and the Commonwealth's obligation to act as "trustees" for the Commonwealth's natural resources. This opinion is in regards to Article 1 Section 27 of the Pennsylvania Constitution, otherwise known as the "Environmental Rights Amendment". The opinion underscores the Department's mandatory obligation to uphold this amendment, as well as the mandatory obligation to function as trustee for the environmental values of the State Forests.

Also attached is the Human Use and Ecological Impacts study that was performed for the Susquehanna-Roseland powerline crossing of the Delaware Water Gap National Recreation Area. The study was the basis for the \$66 mitigation fund established as compensation for crossing the public lands of the Delaware Water Gap.

(<http://www.poconorecord.com/article/20140513/news90/405130318>)

Both of these attachments were mentioned in our meeting yesterday.

Thank you for coming in to meet with us. We appreciate the information you were able to provide us on the project, and we hope that the information that we provided is helpful to you. We realize how terribly challenging the task of selecting a corridor can be. As Dave mentions below, please feel free to contact us at any time if we can be of any assistance.

Thanks again.
Chris

Christopher J. Plank | Assistant State Forester
Director of Forestry Services
Department of Conservation and Natural Resources
Bureau of Forestry
400 Market Street | Harrisburg, PA 17105
Phone: 717.787.6055 | Fax: 717.783.5009
E-mail: CPlank@pa.gov
<http://www.dcnr.state.pa.us/forestry/index.aspx>

From: Mong, David E (DCNR)
Sent: Wednesday, September 20, 2017 4:27 PM
To: Brewster, Heather <Heather.Brewster@aecom.com>; lmspears@aep.com; barry.baker@aecom.com

Cc: Bowen, Rebecca <rebbowen@pa.gov>; Plank, Christopher <cplank@pa.gov>; Brubaker, Roy D (DCNR) <robrubaker@pa.gov>

Subject: PA DCNR - TRANSOURCE - Independence Energy Connection Transmission Line - Project Overview Meeting (West)

Good Afternoon,

Attached is today's sign-in sheet for your records.

It was a pleasure in meeting you all in person today and good to converse with you once again Barry. We found it informative and I sensed that both parties gained in helping each other today with relative information and knowledge. Thank you for making the effort to reach out and meet with us in person; it seemed altogether fitting.

Please feel free to reach out to us at any time in the future and if we can be of help in any way.

David E. Mong, Forest Program Specialist - Right of Way Administration
Department of Conservation & Natural Resources
Bureau of Forestry/Central Office – Operations Section
400 Market Street, 6th Floor
Harrisburg, PA 17105
Office Phone: 717-783-7947
www.dcnr.state.pa.us

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Brewster, Heather

From: Jones, Hathaway - NRCS, Harrisburg, PA <Hathaway.Jones@pa.usda.gov>
Sent: Thursday, August 31, 2017 11:43 AM
To: Brewster, Heather
Subject: Easements impacted by transource pipeline map
Attachments: transource.pdf

Heather,

Attached is the map showing the proposed pipeline and USDA/NRCS easements impacted. We are also showing easements in the proximity/close to the proposed pipeline in case the route changes in future.

Sincerely,

Hathaway Jones

Management Analyst

USDA/NRCS

359 East Park Drive, Suite 2

Harrisburg, PA 17111

717-237-2210

USDA is an equal opportunity provider, employer, and lender

From: Dunn, Marcie - NRCS, Harrisburg, PA
Sent: Thursday, August 31, 2017 11:30 AM
To: Jones, Hathaway - NRCS, Harrisburg, PA <Hathaway.Jones@pa.usda.gov>
Subject: Easements impacted by transource pipeline map

Marcie Dunn

GIS Specialist

359 East Park Drive, Suite 2

Harrisburg, PA 17111-2747

USDA - NRCS

(717)237-2246

USDA is an equal opportunity provider, employer, and lender.

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MARYLAND

AGENCY CONSULTATION AND RESPONSES



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Shawn Garvin, Regional Administrator
 U.S. Environmental Protection Agency
 Region 3
 1650 Arch Street, Mail Code: 3RA00
 Philadelphia, Pennsylvania 19103-2029

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Mr. Garvin,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation for the Project activities occurring Pennsylvania and Maryland. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those counties, and within Pennsylvania those municipalities, that fall within the Project focal areas.

Independence Energy Connection West and East Projects Counties and Municipalities		
Pennsylvania		
West Route – Franklin County		East Route – York County
Letterkenny Township	Quincy Township	Chanceford Township
Southampton Township	Mont Alto Borough	East Hopewell Township
Greene Township	Antrim Township	Hopewell Township
Chambersburg Borough	Greencastle Borough	Fawn Township
Hamilton Township	Washington Township	Fawn Grove Borough
Guilford Township	Waynesboro Borough	Peach Bottom Township
Maryland		
West Route – Washington County		East Route – Harford County

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Transource will continue to provide updates to the EPA as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Joe DaVia, Chief, Maryland Section Northern
 U.S. Army Corps of Engineers
 Baltimore District
 Regulatory Branch
 10 South Howard Street
 Baltimore, Maryland 21201-1715

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Mr. DaVia,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Washington and Harford Counties, Maryland. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those counties that fall within the Project focal areas.

Independence Energy Connection West and East Projects Counties	
West Route – Washington County	East Route – Harford County

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a formal pre-application meeting request. Transource will continue to provide updates to the United States Army Corps of Engineers (USACE) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource

Brewster, Heather

From: Bole, Donald R CIV USARMY CELRP (US) <Donald.R.Bole@usace.army.mil>
Sent: Wednesday, May 03, 2017 6:12 PM
To: Brewster, Heather
Subject: Independence Energy Connection Transmission Line Project

Ms. Brewster,

We have received your request for potential issues and/or constraints for the siting of transmission lines proposed for the Independence Energy Connection Transmission Line Project, located in Washington and Howard Counties, Maryland. We request that you strongly consider keeping wetland and stream impacts within the MDSGP-5 thresholds. Generally, this is 2,000 lf of stream impact and 5,000 square feet of wetland impact; however, it depends on the activity type that your project falls under. If you exceed these thresholds, you will have to apply for an individual permit. To reduce stream and wetland impacts, you should consider bridges, steep side slopes, retaining walls and stream relocations opposed to filling/culverting. Also, consider using temporary construction road access bridges to span streams and wetlands. For any permanent roads, use of bridges to span streams and wetlands is preferred.

In addition, when considering alignments, please be aware of any ESA issues or historic/archeological sites. Based on your proposed footprint, part of your project may be within bog turtle habitat. As you are aware, we will need clearance for ESA and Section 106 of NHPA. Significant resources within the footprint of the project may significantly delay issuing a Department of the Army permit.

Also, it appears that part of your proposed project is within Pennsylvania. If you have impacts to jurisdictional streams and/or wetlands within Pennsylvania, you will need to coordinate with the Pennsylvania Section (State College). Wade Chandler is the Section Chief in Pennsylvania and his phone number is 814-235-0573.

If you have any additional questions, please don't hesitate to contact me. We strongly recommend a pre-application meeting with our office. If you want to have a pre-application meeting with our office before you finalize a route, we can be available.

Thanks,

Don

Donald R. Bole
U.S. Army Corps of Engineers
10 S. Howard Street
Baltimore, MD 21201
(410) 962-6079



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Genevieve LaRouche, Field Supervisor
 U.S. Fish & Wildlife Service
 Chesapeake Bay Field Office
 177 Admiral Cochrane Drive
 Annapolis, Maryland 21401

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Ms. LaRouche,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Franklin and York Counties, Pennsylvania. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those counties that fall within the Project focal areas.

Independence Energy Connection West and East Projects Counties	
West Route – Washington County	East Route – Harford County

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a project specific consultation for review. Transource will continue to provide updates to the United States Fish and Wildlife Service (USFWS) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Denise Keehner, Program Manager
 Maryland Department of Natural Resources
 Wildlife Heritage and Environmental Review Unit
 1800 Washington Boulevard
 Baltimore, Maryland 21230

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Ms. Keehner,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Washington and Harford Counties, Maryland. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those counties that fall within the Project focal areas.

Independence Energy Connection West and East Projects	
West Route – Washington County	East Route – Harford County

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a formal Environmental Review Request. Transource will continue to provide updates to the Maryland Department of Natural Resources (MDNR) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is written in a cursive style with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Louise Lawrence, Program Manager
 Maryland Department of Agriculture
 Office of Resource Conservation
 50 Harry S. Truman Parkway
 Annapolis, Maryland 21401

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Ms. Lawrence,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Washington and Harford Counties, Maryland. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those counties that fall within the Project focal areas.

Independence Energy Connection West and East Projects Counties	
West Route – Washington County	East Route – Harford County

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Transource will continue to provide updates to the Maryland Department of Agriculture (MDA) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Lynn Buhl, Director
 Maryland Department of the Environment
 Water Management Administration
 Director Office
 1800 Washington Boulevard
 Baltimore, Maryland 21230

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Ms. Buhl,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Washington and Harford Counties, Maryland. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those counties that fall within the Project focal areas.

Independence Energy Connection West and East Projects Counties	
West Route – Washington County	East Route – Harford County

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a pre-application meeting request. Transource will continue to provide updates to the Maryland Department of Environment (MDE) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

William Leahy, Executive Director
 Maryland Environmental Trust
 100 Community Place, 3rd Floor
 Crownsville, Maryland 21030-2023

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Mr. Leahy,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Washington and Harford Counties, Maryland. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those counties that fall within the Project focal areas.

Independence Energy Connection West and East Projects Counties	
West Route – Washington County	East Route – Harford County

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Transource will continue to provide updates to the Maryland Environmental Trust (MET) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Transource, LLC
 8500 Smith Mill Road
 New Albany, OH 43054
 Tel: 614.933.2600 main

January 31, 2017

Natalie Loukianoff, Preservation Officer
 Maryland Historical Trust
 100 Community Place, 3rd Floor
 Crownsville, Maryland 21030-2023

**Subject: Transource, LLC
 Independence Energy Connection Transmission Line Project**

Dear Ms. Loukianoff,

Transource Energy, LLC (Transource) is proposing to build two new transmission lines and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project (Project). Transource was awarded the Project by PJM in August of 2016 to address transmission congestion across the Pennsylvania and Maryland border. Transource will be seeking approval to construct the Project from the Pennsylvania Public Utilities Commission and the Maryland Public Service Commission. The Project is in the initial data gathering phase and Transource is seeking input from agencies to help assist in the siting of the new transmission lines.

The Project components include two new 230 kV double circuit overhead transmission lines and two new 500/230 kV substations. The two transmission lines are separated by approximately 50 miles and are designated as either the East Route or West Route. The West route is approximately 23 miles and begins at the proposed Rice Substation in Franklin County, Pennsylvania and extends to the existing Ringgold Substation in Washington County, Maryland. The East route is approximately 13 miles starting at the proposed Furnace Run Substation in York County, Pennsylvania and extends to the existing Conastone Substation in Harford County, Maryland.

Transource has retained AECOM to assist with the transmission line siting and state applications necessary for approval of the proposed Project. At this time, AECOM is requesting consultation specific to the Project activities occurring within Washington and Harford Counties, Maryland. The Project is in the preliminary siting stages and therefore focal areas have been identified for the purposes of this consultation. USGS and road maps depicting the approximate focal areas are included for reference. The table below identifies those counties that fall within the Project focal areas.

Independence Energy Connection West and East Projects Counties	
West Route – Washington County	East Route – Harford County

Transource and AECOM are looking to obtain information from your agency on potential issues and/or constraints within the identified focal areas that would need to be considered during the siting of the transmission lines. Any information that you could provide at this time, would be greatly appreciated. Once a formal route is selected, Transource will submit a formal project review request. Transource will continue to provide updates to the Maryland Historical Trust (MHT) as the Project progresses and more specific routes are identified. We appreciate your assistance as we work through this iterative process and will be looking to schedule a meeting with your agency to further discuss this Project in the coming months.

Please contact me at (610) 832-8819 if you have any questions or require additional information and please provide any response to my attention at the AECOM address provided below.

Yours sincerely,

A handwritten signature in blue ink that reads "Heather Brewster". The signature is fluid and cursive, with a long horizontal stroke at the end.

Heather Brewster
Project Manager
heather.brewster@aecom.com

AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Enclosures: USGS Based Focal Area Map
Road Based Focal Area Map

cc: Laurie Spears – Transource



Larry Hogan, Governor
Boyd Rutherford, Lt. Governor

Wendi W. Peters, Secretary
Ewing McDowell, Deputy Secretary

July 19, 2017

Ms. Heather Brewster
AECOM
625 West Ridge Pike, Suite E-100
Conshohocken, PA 19428

Re: MHT Pre-Application Review of Proposed Transource Transmission Lines and Substations
Independence Energy Connection Project – Harford and Washington Counties, Maryland

Dear Ms. Brewster:

Thank you for providing the Maryland Historical Trust (MHT) with preliminary information regarding the above-referenced undertaking. We understand that Transource Energy, LLC is proposing to build two new transmission lines (East Route and West Route) and two new substations in Pennsylvania and Maryland as part of the Independence Energy Connection Project. AECOM is working with Transource to gather preliminary siting information and to evaluate various transmission line route alternatives. As the proposed transmission lines will require a variety of federal and state permits and licenses from agencies such as the U.S. Army Corps of Engineers, the Maryland Department of the Environment, and the Maryland Department of Natural Resources, MHT staff are reviewing your submittal in accordance with Section 106 of the National Historic Preservation Act and the Maryland Historical Trust Act, §§ 5A-325 and 5A-326 of the State Finance and Procurement Article and would like to offer the following preliminary comments and recommendations.

Following our review of the two proposed focal areas identified in the initial project submittal, it is clear that the proposed transmission lines will pass through a number of locales containing inventoried historic properties, historic districts, and archeologically sensitive areas. MHT files indicate that literally dozens of archeological sites (both prehistoric and historic) and over 200 Maryland Inventory of Historic Properties sites are, in fact, located within the two focal areas that are outlined in your submittal. The East Focal Area contains one known archeological site and 66 properties that are included in the Maryland Inventory, while the West Focal Area contains 69 known archeological sites and 136 Maryland Inventory properties – including six that are listed on the National Register of Historic Properties.

Due to the presence of these historic properties, archeological and/or architectural studies may be necessary, depending upon the actual location of proposed route alignments and all potential impact areas. However, given the notably extensive nature of the current study areas, we are unable to provide specific recommendations at this time. We are therefore recommending that Transource and AECOM continue to coordinate with our office and send a cultural resources consultant to the MHT Library to conduct the necessary research and obtain all available information on the historic properties located within the proposed project's Area of Potential Effect. Our library is open to the public on Tuesdays, Wednesdays, and Thursdays by

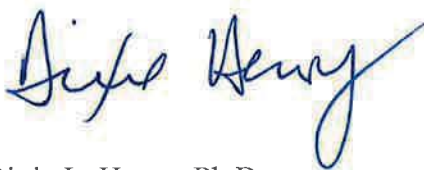
appointment only. To make an appointment, please contact Mary Louise de Sarran at 410-697-9546. Once this research has been completed, please submit the following information to our office for review:

- A detailed description of the proposed undertaking and its potential effects
- Transmission route maps for all alternatives being considered
- A clear delineation of the project's Area of Potential Effect (APE)
- A summary of the existing information on known and potential historic properties that may be affected by the undertaking
- Photographs (print or digital) of all structures that may be affected by the project

Upon our receipt of this information, we will continue our review of the undertaking and determine what architectural, historical, and archeological investigations will be necessary to identify and evaluate historic properties located within the project's APE. We would also recommend that AECOM and Transource contact the representatives from the Heart of the Civil War Heritage Area and involve them in this consultation, as a portion of this Heritage Area may be located within the West Focal Area. Elizabeth Scott Shatto is the Executive Director of the Heart of the Civil War Heritage Area, and she can be contacted at 301-600-4042.

We appreciate your effort to coordinate with our office early in the planning process, and we look forward to working with you to complete the historic preservation requirements for this undertaking. If you have any questions or require additional information, please do not hesitate to contact me at 410-697-9553 or dixie.henry@maryland.gov.

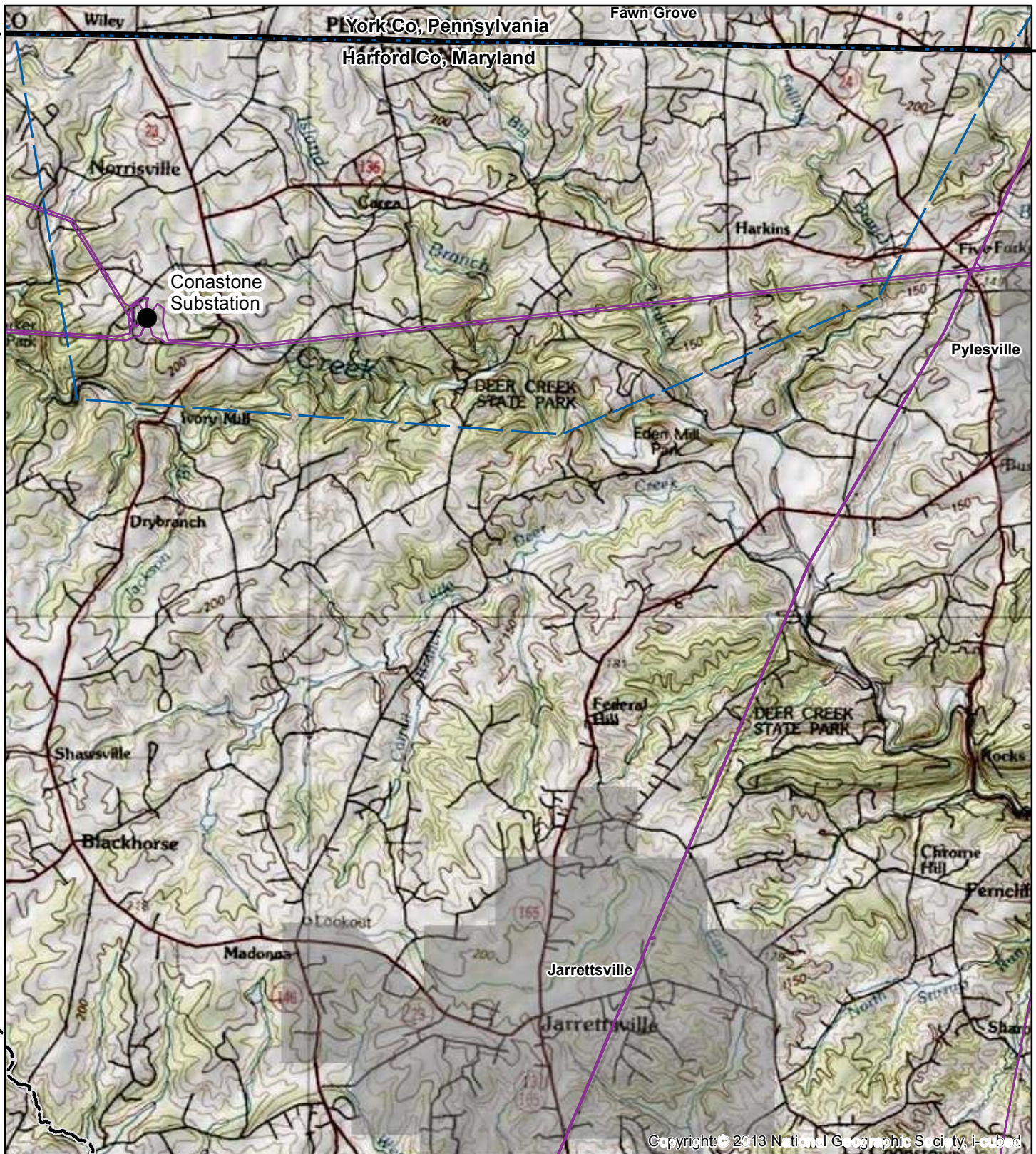
Sincerely,

A handwritten signature in blue ink that reads "Dixie Henry". The signature is written in a cursive style with a large, sweeping "D" and "H".

Dixie L. Henry, Ph.D.
Preservation Officer
Maryland Historical Trust

DLH/201700452/201700453

Cc: Joe DaVia (COE)
Steve Elinsky (COE)
Maria Teresi (COE)
Abbie Hopkins (COE)
Jeff Thompson (MDE)
Susan Gray (DNR)



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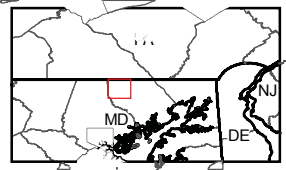
Legend

- Substation
- Existing Transmission Lines
- Project Focal Area
- County Boundary
- State Boundary



Coordinate System:
 NAD 1983 UTM Zone 18N
 Projection: Transverse Mercator
 Linear Unit: Meter

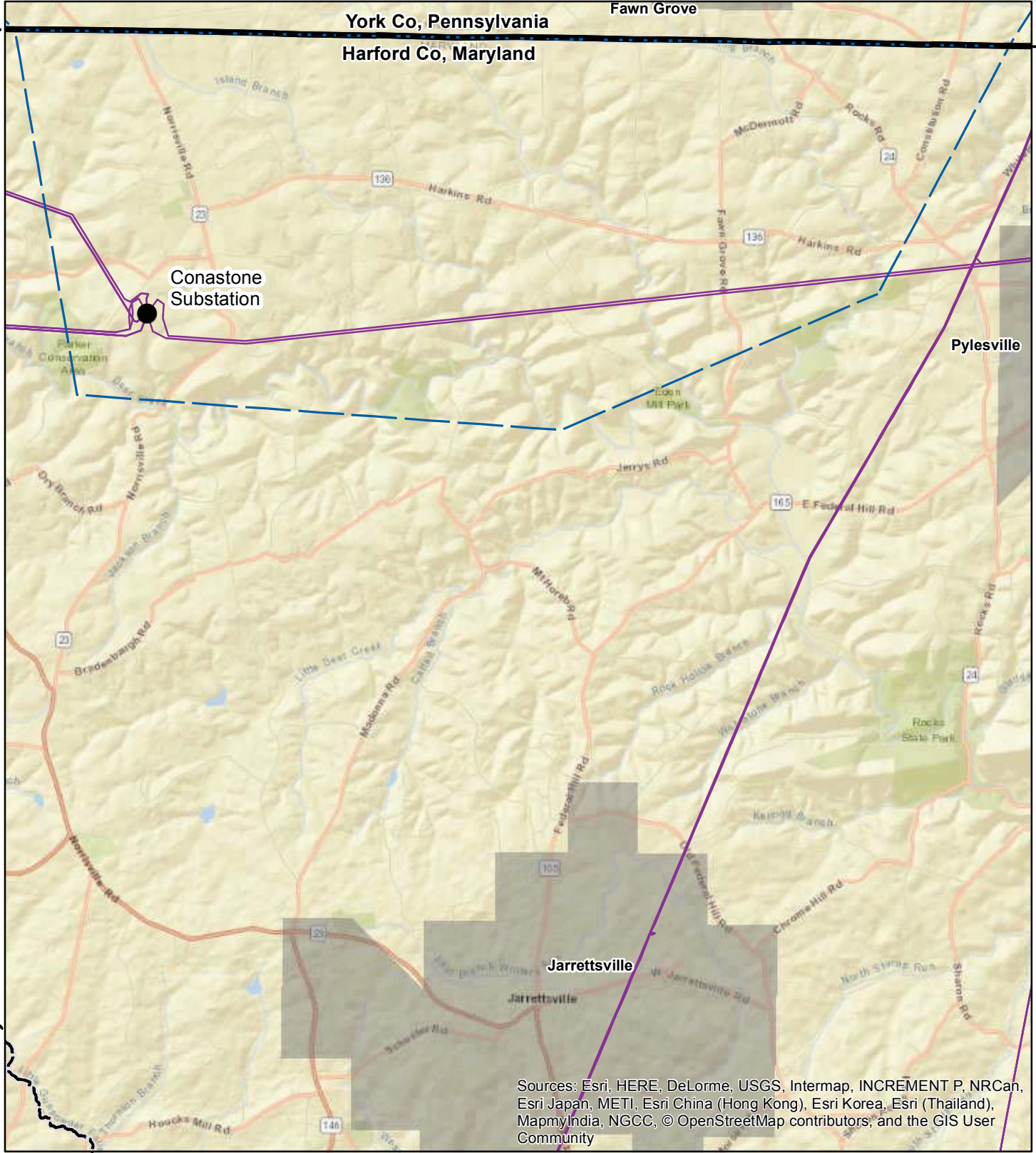
Data Sources:
 Platts Power Map Transmission Line (2011)
 USA Topo Maps (ESRI)



Job: 60528995
Prepared by: NB/BSF
Checked by: HB
Date: 1/27/2017

Independence Energy Connection - East
 Transource, LLC
 Focal Area - MD
 Draft Work Product

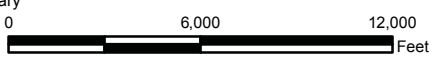
York Co, Pennsylvania
 Harford Co, Maryland



Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

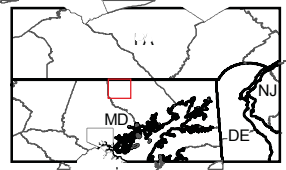
Legend

- Substation
- Existing Transmission Lines
- ▭ Project Focal Area
- ▭ County Boundary
- ▭ State Boundary



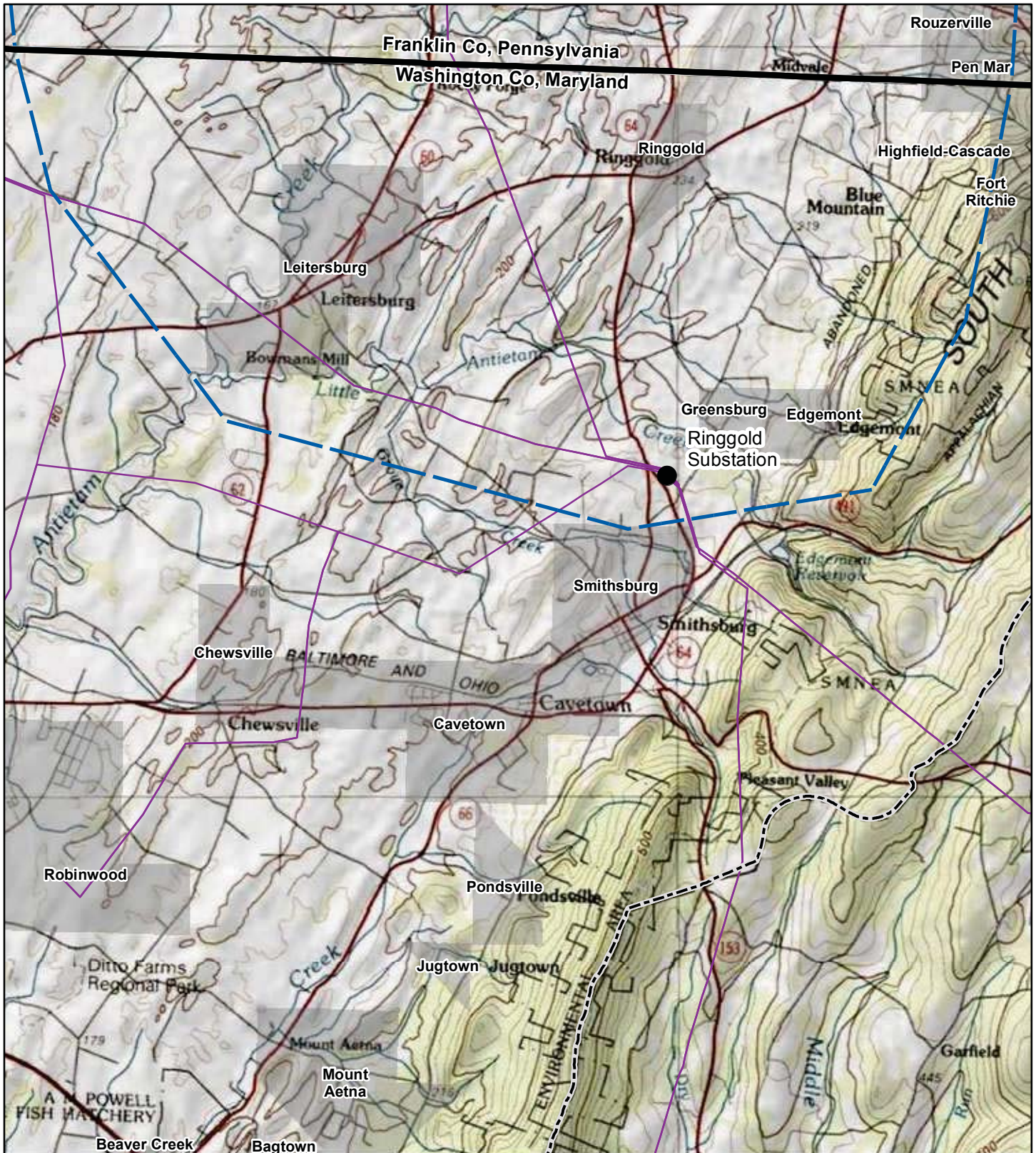
Coordinate System:
 NAD 1983 UTM Zone 18N
 Projection: Transverse Mercator
 Linear Unit: Meter

Data Sources:
 Platts Power Map Transmission Line (2011)
 USA Topo Maps (ESRI)



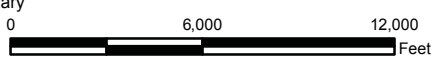
Job: 60528995
Prepared by: NB/BSF
Checked by: HB
Date: 1/27/2017

Independence Energy Connection - East
 Transource, LLC
 Focal Area - MD
 Draft Work Product



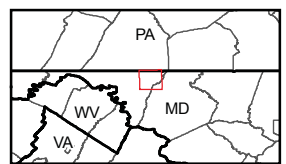
Legend

- Substation
- ▭ County Boundary
- Existing Transmission Lines
- ▭ State Boundary
- ▭ Project Focal Area



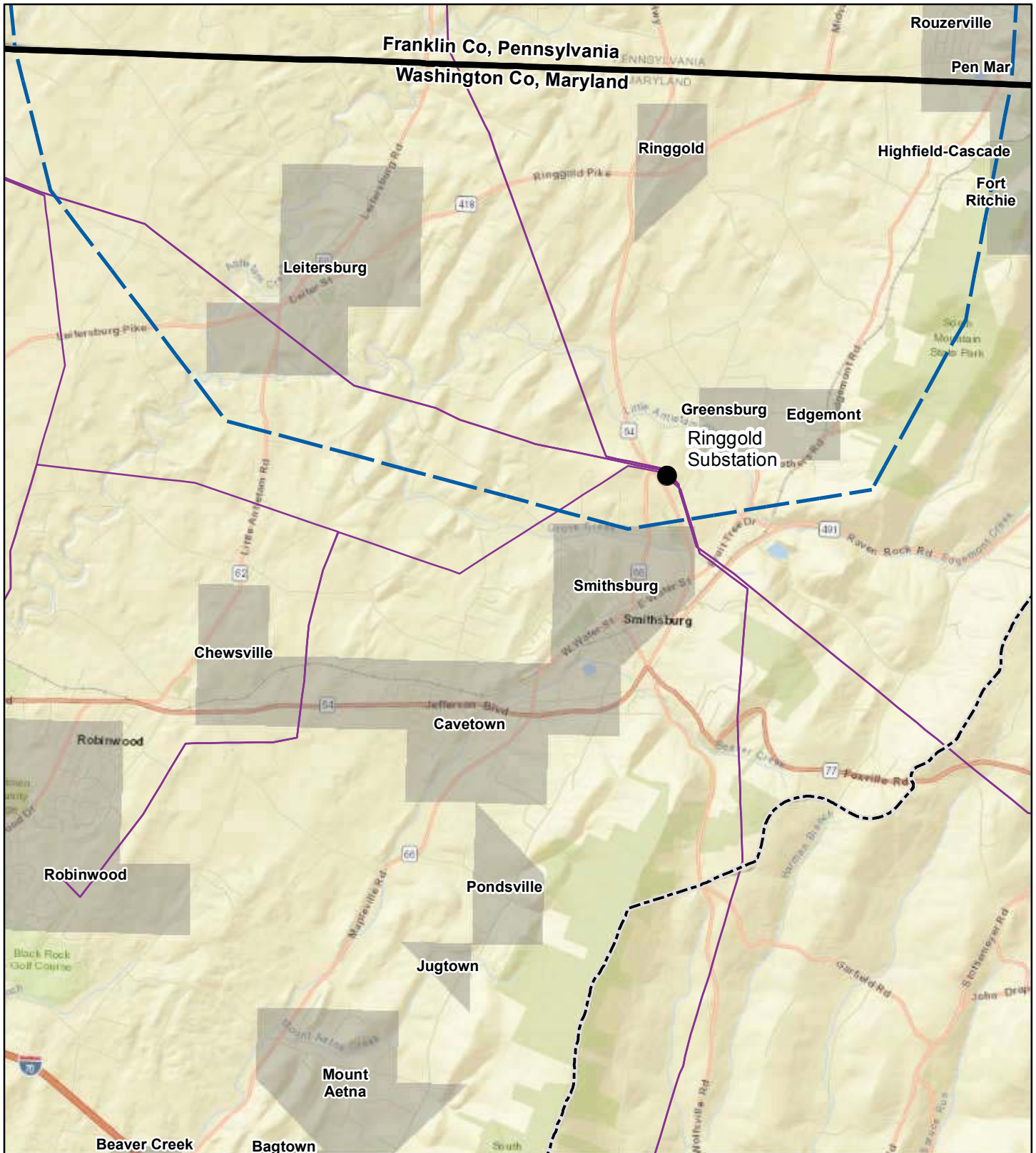
Coordinate System:
 NAD 1983 UTM Zone 18N
 Projection: Transverse Mercator
 Linear Unit: Meter

Data Sources:
 Platts Power Map Transmission Line (2011)
 USA Topo Maps (ESRI)



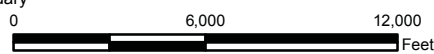
Job: 60528995
Prepared by: NB/BSF
Checked by: HB
Date: 1/30/2017

Independence Energy Connection - West
 Transource, LLC
 Focal Area - MD
 Draft Work Product



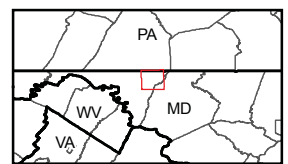
Legend

- Substation
- Existing Transmission Lines
- ▭ Project Focal Area
- ▭ County Boundary
- ▭ State Boundary



Coordinate System:
 NAD 1983 UTM Zone 18N
 Projection: Transverse Mercator
 Linear Unit: Meter

Data Sources:
 Platts Power Map Transmission Line (2011)
 USA Topo Maps (ESRI)



Job: 60528995
Prepared by: NB/BSF
Checked by: HB
Date: 1/30/2017

Independence Energy Connection - West
 Transource, LLC
 Focal Area - MD
 Draft Work Product

AGENCY EMAILS

From: Frederick Kelley -DNR-
To: [Laurie M Spears](#)
Subject: [EXTERNAL] Re: Transource Project
Date: Thursday, March 02, 2017 1:41:09 PM

This is an EXTERNAL email. STOP. THINK before you CLICK links or OPEN attachments.

Thanks Laurie,

I'll look to attend the March 10th at MDA; it'll be good to get back up to speed on the Transource Project.

I'll also keep tabs on the JE meetings; we usually receive notices of upcoming meeting agendas.

Thanks,
Fred

On Mon, Feb 27, 2017 at 4:53 PM, Laurie M Spears <lmspears@aep.com> wrote:

Fred,

I'm sorry we missed you at our last meeting a few weeks ago. I wanted to give you a heads up that we are meeting with the Maryland Department of Agriculture on March 10 at 9 am at their offices in Annapolis (address below). I believe that some people from DNR may also attend but I haven't received a final headcount. You are more than welcome to attend that meeting with us if you would like.

We are also on the schedule for March 29th for the MDE Joint Evaluation Meeting at the Fish and Wildlife office in Annapolis. You are welcome to attend that one as well. There is a chance we may get bumped to a different day due to the schedule but right now we are on for the 29th. We should have a better idea of our time slot as it gets closer to the date.

Please let me know if you'll be able to attend any of these meetings or if you have any questions!

Thanks!

MDA Headquarters Address:

50 Harry S Truman Parkway

Annapolis, MD 21401

Laurie Spears

Sr. Siting Specialist

AEP Transmission

8500 Smith Mill Rd

New Albany, OH 43054

Office [\(614\)-933-2625](tel:614-933-2625)

Cell [\(440\)-561-9202](tel:440-561-9202)

Audinet 8-290-2625

lspears@aep.com



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MD Logo.png



dnr.maryland.gov

Frederick S. Kelley

Power Plant Research Program
Department of Natural Resources

Tawes Building B-3
Annapolis, MD 21401

410-260-8672 (office)

410-260-8670 (fax)

frederick.kelley@maryland.gov

Visit us on the web at -

<http://dnr.maryland.gov/pprp>

[Click here](#) to complete a three question customer experience survey.

From: Frederick Kelley -DNR-
To: [Laurie M Spears](#)
Subject: [EXTERNAL] Re: Notification zone
Date: Friday, March 31, 2017 4:03:03 PM

This is an EXTERNAL email. STOP. THINK before you CLICK links or OPEN attachments.

Hi Laurie,

500 feet sounds fine to us for this first round of notice. Will Transource eventually host any sort of informational website about the project? That might be good for sharing updates about the project as it progresses.

Have a great weekend,
Fred

On Fri, Mar 31, 2017 at 12:55 PM Laurie M Spears <lmspears@aep.com> wrote:

Hi Fred,

In follow up to our discussion earlier this week, is 500 feet on either side of centerline (1,000 ft corridor) sufficient from your perspective for the first round of open houses? We are up to 304 parcels on the west side and 359 parcels

on the east side. Let me know your thoughts!

Thank You!

Laurie Spears

Sr. Siting Specialist

AEP Transmission

8500 Smith Mill Rd

New Albany, OH 43054

Office (614)-933-2625

Cell (440)-561-9202

Audinet 8-290-2625

lmspears@aep.com

From: [Laurie M Spears](#)
To: [Frederick Kelley \(frederick.kelley@maryland.gov\)](mailto:frederick.kelley@maryland.gov)
Subject: Transource Data
Date: Tuesday, May 02, 2017 11:38:00 AM

Fred,

I received a copy of the executed NDA and we are putting together the GIS files now. We plan to overnight you a CD with all the information and our study segments so you and your team can review. I am hoping to set up another in-person meeting with you before our open houses (June timeframe). Do you think that Thursday, May 18th would work for you and your team? I'm thinking a 2 hour meeting would probably be sufficient given the relatively short lengths in Maryland. Let me know your thoughts and if another date works better for your team.

Thank you!

Laurie Spears
Sr. Siting Specialist
AEP Transmission
8500 Smith Mill Rd
New Albany, OH 43054
Office (614)-933-2625
Cell (440)-561-9202
Audinet 8-290-2625
lmspears@aep.com



From: Frederick Kelley -DNR-
To: [Laurie M Spears](#)
Subject: Re: [EXTERNAL] Re: Transource Data
Date: Monday, May 08, 2017 10:51:44 AM

I'll look to get an invite out by the end of the day. Yes, data CD received and already under review by our integrators.

Thanks,
Fred

On Mon, May 8, 2017 at 8:24 AM, Laurie M Spears <lmspears@aep.com> wrote:

That works great for us! Thanks Fred!

Did you receive the shapefiles last week?

Laurie Spears

Sr. Siting Specialist

AEP Transmission

8500 Smith Mill Rd

New Albany, OH 43054

Office [\(614\)-933-2625](tel:6149332625)

Cell [\(440\)-561-9202](tel:4405619202)

Audinet 8-290-2625

lmspears@aep.com



From: Frederick Kelley -DNR- [mailto:frederick.kelley@maryland.gov]
Sent: Friday, May 05, 2017 5:02 PM
To: Laurie M Spears
Subject: Re: [EXTERNAL] Re: Transource Data

I think Monday works best for most folks on PPRPs end. How about 2PM? If so I'll send around an invite and follow up with logistics.

Thanks,

Fred

On Fri, May 5, 2017 at 2:47 PM, Laurie M Spears <lmspears@aep.com> wrote:

Hi Fred,

Would Monday the 22nd or Tuesday the 23rd work for you?

Laurie

From: Frederick Kelley -DNR- [mailto:frederick.kelley@maryland.gov]
Sent: Tuesday, May 02, 2017 3:30 PM
To: Laurie M Spears
Subject: [EXTERNAL] Re: Transource Data

This is an EXTERNAL email. STOP. THINK before you CLICK links or OPEN attachments.

Thanks, I'll look forward to receiving it.

18th is in a very busy week for us; how about the following week?

Fred

On Tue, May 2, 2017 at 11:38 AM, Laurie M Spears <lmspears@aep.com> wrote:

Fred,

I received a copy of the executed NDA and we are putting together the GIS files now. We plan to overnight you a CD with all the information and our study segments so you and your team can review. I am hoping to set up another in-person meeting with you before our open houses (June timeframe). Do you think that Thursday, May 18th would work for you and your team? I'm thinking a 2 hour meeting would probably be sufficient given the relatively short lengths in Maryland. Let me know your thoughts and if another date works better for your team.

Thank you!

Laurie Spears

Sr. Siting Specialist

AEP Transmission

8500 Smith Mill Rd

New Albany, OH 43054

Office [\(614\)-933-2625](tel:(614)933-2625)



Cell [\(440\)-561-9202](tel:(440)561-9202)

Audinet 8-290-2625

lmspears@aep.com





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  dnr.maryland.gov	<p>Frederick S. Kelley Power Plant Research Program Department of Natural Resources Tawes Building B-3 Annapolis, MD 21401 410-260-8672 (office) 410-260-8670 (fax) frederick.kelley@maryland.gov</p> <p>Visit us on the web at - http://dnr.maryland.gov/pprp</p>
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  dnr.maryland.gov	<p>Frederick S. Kelley Power Plant Research Program Department of Natural Resources Tawes Building B-3 Annapolis, MD 21401 410-260-8672 (office) 410-260-8670 (fax) frederick.kelley@maryland.gov</p> <p>Visit us on the web at - http://dnr.maryland.gov/pprp</p>
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Laurie - I have put a hold the downstairs conference room for July 14 at 1.

On Thu, Jun 22, 2017 at 10:10 AM, Carol West -MDA-
<carol.west@maryland.gov> wrote:

I will work on securing a conference room. Say 1?

On Thu, Jun 22, 2017 at 10:08 AM, Laurie M Spears <lmspears@aep.com>
wrote:

Carol,

The only day we would be able to get out there would be Friday the 14th. I agree Bill is important to have at that meeting. If we can reschedule to the 14th in the morning, I think that will work just fine.

Thanks!

Laurie Spears
Sr. Siting Specialist
AEP Transmission
8500 Smith Mill Rd
New Albany, OH 43054
Office [\(614\)-933-2625](tel:6149332625)
Cell [\(440\)-561-9202](tel:4405619202)
Audinet 8-290-2625
lmspears@aep.com



From: Carol West -MDA- [mailto:carol.west@maryland.gov]
Sent: Thursday, June 22, 2017 10:01 AM
To: Laurie M Spears
Subject: [EXTERNAL] Re: Transource Independence Energy Connection

This is an EXTERNAL email. STOP. THINK before you CLICK links or OPEN attachments.

Laurie - Bill Amoss, Harford County Program Administrator is on vacation the week of July 4 and is asking if we can reschedule to the following week. I would have no problem with that. He is an important player in this.

I am available on July 11 - 14 at any time.

On Mon, Jun 19, 2017 at 3:09 PM, Laurie M Spears <lmspears@aep.com> wrote:
Carol,

In follow up to our meeting on March 10, we are hoping to set up a time to meet with you and your team to give you an update on the Independence project. As you may recall, we are proposing to build two new transmission lines in Washington and Harford Counties. We held 6 open houses over the last two weeks in which we presented our study segments to the public to get feedback.

We are hoping to give you an update on those open houses and talk about next steps. Would you and your team be available July 6 or 7th to have a meeting? I would think an hour and a half would be sufficient. Let us know if a time works for you or if we need to find a different day.

Thanks and we look forward to meeting with you again!

Laurie Spears
Sr. Siting Specialist
AEP Transmission
8500 Smith Mill Rd
New Albany, OH 43054
Office [\(614\)-933-2625](tel:(614)933-2625)
Cell [\(440\)-561-9202](tel:(440)561-9202)
Audinet 8-290-2625
lmspears@aep.com



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Carol S. West

Executive Director, MALPF
Maryland Department of Agriculture
50 Harry S. Truman Parkway, Room 104
Annapolis, Maryland 21401

Office: [410-841-5860](tel:410-841-5860)
Fax: [410-841-5730](tel:410-841-5730)
<http://mda.maryland.gov/malpf>

Visit Our Website at: www.mda.maryland.gov

From: [Laurie M Spears](#)
To: [Frederick Kelley \(frederick.kelley@maryland.gov\)](mailto:frederick.kelley@maryland.gov)
Subject: Transource IEC Project
Date: Monday, June 19, 2017 2:58:00 PM

Hi Fred,

Thanks again for stopping by our open houses last week. I think they went really well and we have gotten some great input. One item did come up that I think we should look into a little further and I'm hoping you can help me coordinate. A few landowners around Conastone mentioned they were working with MD DNR and USFWS to preserve bog turtle habitat. I think it's pretty critical to understand what is being proposed and where before we go too much further in siting. Do you think you could help coordinate a meeting or at least point us to the right person so we can set up a call to discuss? If these areas are being put into conservation easements, that would be good to know. Let me know how you want to proceed.

Thanks!

Laurie Spears
Sr. Siting Specialist
AEP Transmission
8500 Smith Mill Rd
New Albany, OH 43054
Office (614)-933-2625
Cell (440)-561-9202
Audinet 8-290-2625
lmspears@aep.com



From: Kelly Neff -MDE-
To: [Elinsky, Stephen M CIV USARMY CENAB \(US\)](#)
Cc: [Laurie M Spears](#)
Subject: [EXTERNAL] Re: Transource Independence Project (UNCLASSIFIED)
Date: Thursday, July 13, 2017 9:20:53 AM

This is an EXTERNAL email. STOP. THINK before you CLICK links or OPEN attachments.

MDE did a large mitigation site using Nontidal Wetland Compensation Fund money on the Lynn Farm property.

Kelly P. Neff
Maryland Department of the Environment
Wetlands and Waterways Program
Mitigation and Technical Assistance Section, Chief
1800 Washington Blvd., Suite 430
Baltimore, MD 21230-1708
(Phone) 410-537-4018
(Fax) 410-537-3751
Kelly.Neff@Maryland.gov

On Wed, Jul 12, 2017 at 2:18 PM, Elinsky, Stephen M CIV USARMY CENAB (US) <Steve.Elinsky@usace.army.mil> wrote:

CLASSIFICATION: UNCLASSIFIED

Hi Laurie,

I'm unfamiliar with the site. However, I made a few calls and found out that MDE used the site for restorations and/or enhancements under their fee in lieu program. Kelly Neff from MDE who has been copied knows about the site and can answer your questions.

Thanks,

Steve

Steve Elinsky
Biologist
U.S. Army Corps of Engineers - Baltimore District
Regulatory Branch - Maryland Section Northern
[410.962.4503](tel:410.962.4503)

-----Original Message-----

From: Laurie M Spears [mailto:lmspears@aep.com]
Sent: Wednesday, July 12, 2017 1:05 PM
To: Elinsky, Stephen M CIV USARMY CENAB (US) <Steve.Elinsky@usace.army.mil>
Subject: [Non-DoD Source] Transource Independence Project

Hi Steve,

I wanted to follow up with you on a public comment we received at the open house. A landowner in Harford County stated they had an "old" wetland mitigation bank on their property (name is Jeffrey Lynn). Are you aware of any wetland mitigation banks in Harford County that we need to consider? This particular one is close to the MD/PA border. Any additional information that you have would be helpful!

Thanks!

Laurie Spears

Sr. Siting Specialist

AEP Transmission

8500 Smith Mill Rd

New Albany, OH 43054

Office [\(614\)-933-2625](tel:(614)933-2625)

Cell [\(440\)-561-9202](tel:(440)561-9202)

Audinet 8-290-2625

lmspears@aep.com <<mailto:lmspears@aep.com>>

CLASSIFICATION: UNCLASSIFIED

[Click here](#) to complete a three question customer experience survey.

Brewster, Heather

From: Carol West -MDA- <carol.west@maryland.gov>
Sent: Wednesday, August 23, 2017 9:52 AM
To: Brewster, Heather
Subject: Re: Transource IEC - Maryland Parcels with Ag Easements
Attachments: Transource IEC MD_ Agricultural Easements.xlsx

Heather - I was able to partially complete your chart. For the ones that I am not sure of, I reached out to the Harford and Washington County administrators. I have not heard back from the, so I am attaching my partially completed list. Hope this helps. If I get anything back from the administrators, I will forward it to you.

On Thu, Aug 17, 2017 at 3:42 PM, Brewster, Heather <Heather.Brewster@aecom.com> wrote:

Carol,

Just checking in to see how your progress is going assisting us with pulling the preservation deeds for the properties we provided to you. Any update is appreciated and if you have any questions or require anything from us, please just let me now. Thank you in advance.

Thank you ~Heather Brewster

[610-832-8819](tel:610-832-8819)

From: Brewster, Heather
Sent: Thursday, August 03, 2017 3:38 PM
To: 'carol.west@maryland.gov'
Cc: Laurie M Spears
Subject: Transource IEC - Maryland Parcels with Ag Easements

Carol,

Per my voicemail yesterday, on behalf of Laurie Spears/ Transource and their Independence Energy Connection Project, I am providing the attached list of parcels containing an Agricultural Easement in Washington and Harford Counties. At the last meeting held with Maryland Dept. of Agriculture, it was indicated you would be able to assist with pulling the easements for these parcels. With those easements in hand we can start identifying any easement language specific to limitations etc..for these parcels. If there is any additional information you would like to assist you in this effort, please just let me know.

Thank you. ~Heather

Heather Brewster

Associate Vice President

AECOM Environment

☎ [610-832-8819](tel:610-832-8819) (direct line)

✉ heather.brewster@aecom.com

📱 [215.869.4137](tel:215.869.4137) (mobile)

AECOM

625 West Ridge Pike, Conshohocken, Pennsylvania 19428

T [1-610-832-3500](tel:1-610-832-3500) F [1-610-832-3501](tel:1-610-832-3501)

www.aecom.com



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Carol S. West

Executive Director, MALPF
Maryland Department of Agriculture
50 Harry S. Truman Parkway, Room
104
Annapolis, Maryland 21401

Office: [410-841-5860](tel:410-841-5860)

Fax: [410-841-5730](tel:410-841-5730)

Brewster, Heather

From: Davis, Tiffany - NRCS, Annapolis, MD <Tiffany.Davis@md.usda.gov>
Sent: Wednesday, September 06, 2017 11:05 AM
To: Brewster, Heather
Cc: Byam, Jackie - NRCS, Annapolis, MD; Esbensen, Gretchen - NRCS, Annapolis, MD; Jones, Hathaway - NRCS, Harrisburg, PA
Subject: RE: Transource - PA NRCS - Shapefiles for Review

Heather,

The Maryland GIS Specialist has reported both projects are all clear of FRPP in Maryland.

M. Tiffany Davis
Farm Bill Program Specialist (Easements)
339 Busch's Frontage Rd, Suite 301
Annapolis, MD 21409
Natural Resources Conservation Service
United States Department of Agriculture
<http://www.md.nrcs.usda.gov>
Desk Telephone 443-482-2960
Cell Telephone 443-477-1227

Stay Connected with USDA



From: Brewster, Heather [mailto:Heather.Brewster@aecom.com]
Sent: Tuesday, September 05, 2017 2:35 PM
To: Davis, Tiffany - NRCS, Annapolis, MD <Tiffany.Davis@md.usda.gov>
Subject: RE: Transource - PA NRCS - Shapefiles for Review

Tiffany,

Reaching out to see if you can be of any assistance with review of the shapefiles I provided last week for Non-Stewardship properties in Washington and Harford Counties. We checked the NRCS webviewer for Stewardship properties and avoided the one in Washington County. If you have any questions let me know and we appreciate any assistance.

Thank you ~Heather Brewster
610-832-8819

From: Brewster, Heather
Sent: Thursday, August 31, 2017 12:00 PM
To: Davis, Tiffany - NRCS, Annapolis, MD
Subject: RE: Transource - PA NRCS - Shapefiles for Review

Tiffany,

I have been working with Hathaway regarding PA NRCS easements. Transource would like NRCS MD to review their current Study Segments for the Independence Energy Connection electric transmission line project. We have researched the NRCS viewer for the Stewardship lands and are aware of those locations. However, we do want to get input for the additional data from 1996-2016 Non-

Stewardship easements. The attached shapefiles provide our Study Segments along with a 1,000 foot buffer that we would appreciate NRCS review on.

Next week we will be in the process of making some final decisions in regards to routing. Any information from NRCS would be greatly appreciated. If you have any questions about the attached information please let me know.

Thank you ~Heather Brewster
610-832-8819

From: Jones, Hathaway - NRCS, Harrisburg, PA [<mailto:Hathaway.Jones@pa.usda.gov>]
Sent: Thursday, August 31, 2017 11:35 AM
To: Brewster, Heather
Cc: Davis, Tiffany - NRCS, Annapolis, MD
Subject: RE: Transource - PA NRCS - Shapefiles for Review

Our review only covers easements in PA. You'll want to talk to Tiffany Davis – cc'd above.

Thanks.

Sincerely,

Hathaway Jones

Management Analyst

USDA/NRCS

359 East Park Drive, Suite 2

Harrisburg, PA 17111

717-237-2210

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From: Brewster, Heather [<mailto:Heather.Brewster@aecom.com>]
Sent: Thursday, August 31, 2017 10:48 AM
To: Jones, Hathaway - NRCS, Harrisburg, PA <Hathaway.Jones@pa.usda.gov>
Subject: RE: Transource - PA NRCS - Shapefiles for Review

Hathaway,

Does your review only cover PA? If so, who in MD do I touch base with for a similar review?

Thank you ~Heather Brewster
610-832-8819

From: Jones, Hathaway - NRCS, Harrisburg, PA [<mailto:Hathaway.Jones@pa.usda.gov>]
Sent: Thursday, August 31, 2017 8:46 AM
To: Brewster, Heather
Cc: Laurie M Spears
Subject: RE: Transource - PA NRCS - Shapefiles for Review

Heather,

Good morning. The GIS staff has mapped the shape files of the pipeline.

The proposed pipeline intersects 16 federal agricultural land preservation easements.

Sincerely,

Hathaway Jones

Management Analyst

USDA/NRCS

359 East Park Drive, Suite 2

Harrisburg, PA 17111

717-237-2210

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From: Brewster, Heather [<mailto:Heather.Brewster@aecom.com>]

Sent: Tuesday, August 29, 2017 11:12 AM

To: Jones, Hathaway - NRCS, Harrisburg, PA <Hathaway.Jones@pa.usda.gov>

Cc: Laurie M Spears <lmspears@aep.com>

Subject: Transource - PA NRCS - Shapefiles for Review

Hathaway,

Transource would like to go ahead and provide NRCS their current Study Segment shapefiles for review, without requesting a Non-disclosure. We have researched the viewer at the link below. However, we do want to get input for the additional data from 1996-2016 that you reference below. The attached shapefiles provide our Study Segments along with a 1,000 foot buffer that we would appreciate NRCS review on.

Next week we will be in the process of making some final decisions in regards to routing. Any information from NRCS would be greatly appreciated. If you have any questions about the attached information please let me know.

Thank you ~Heather Brewster

610-832-8819

From: Jones, Hathaway - NRCS, Harrisburg, PA [<mailto:Hathaway.Jones@pa.usda.gov>]

Sent: Monday, August 21, 2017 8:06 AM

To: Brewster, Heather

Subject: PA NRCS - Gas pipeline shape files and non-disclosure agreement for FOIA?

Heather,

I received the email below from our FOIA administrator. NRCS would likely not be able to sign a non-disclosure agreement.

You can view NRCS easements on the National Easements Database at this

link: <http://nrcs.maps.arcgis.com/apps/webappviewer/index.html?id=60cb4564f7b4461ca9a61fa224c066ba>

You can zoom in to specific locations in Pennsylvania to determine where easements are located.

HOWEVER – this map shows only what NRCS calls ‘stewardship lands’. Therefore the map only includes ag easements acquired between 2006 and 2008. NRCS has many, many ag easements acquired from 1996 – 2016 that are NOT stewardship and that do not show up on the map.

That being said, you will be able to see our wetland easements clearly from the database. These easements are very restrictive and will not allow a ROW installation.

Thanks much.

Sincerely,

Hathaway Jones

Management Analyst

USDA/NRCS

359 East Park Drive, Suite 2

Harrisburg, PA 17111

717-237-2210

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From: Kling, Andrew - NRCS, Harrisburg, PA

Sent: Thursday, August 17, 2017 2:25 PM

To: Jones, Hathaway - NRCS, Harrisburg, PA <Hathaway.Jones@pa.usda.gov>; Smith, Shozette - NRCS, Harrisburg, PA <Shozette.Smith@pa.usda.gov>

Subject: RE: Gas pipeline shape files and non-disclosure agreement for FOIA?

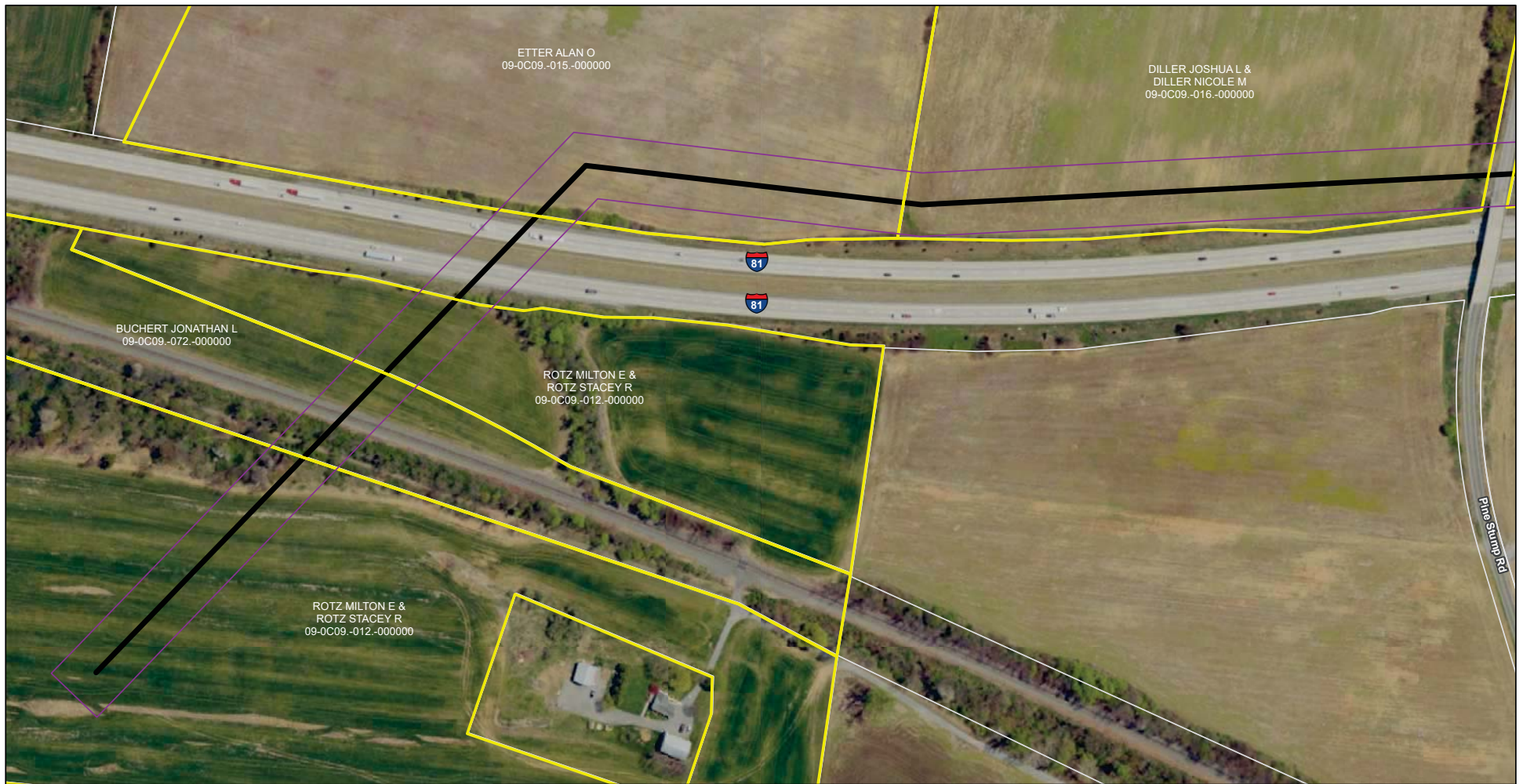
It is our policy now to direct companies asking for easement locations to go to the national site that shows all of the NRCS easements.

As far as a non-disclosure agreement, I would doubt that we would sign it as we have regulation about what we can and can't disclose, FOIA included.

Andy

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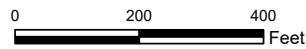
Appendix C: Aerial Mapbook



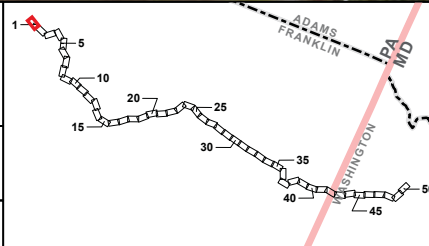
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 1**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026

DILLER JOSHUA L &
DILLER NICOLE M
09-0C09-016-000000

DILLER ROGER L &
DILLER JOYCE E
09-0C09-017-000000

KAUFFMAN AARON L
09-0C14-001-000000

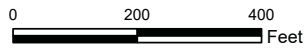
Pine Stump Rd



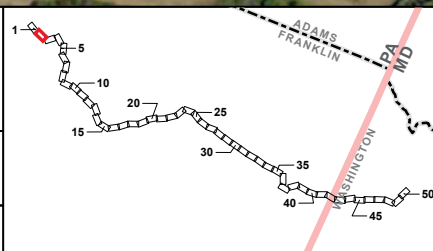
- Legend**
- Proposed Route C
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COORDINATE SYSTEM:
NAD 1983 UTM Zone 18 North
Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
Transmission Line Project
Aerial Mapbook
Map Extent 2**

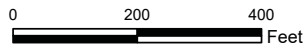
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



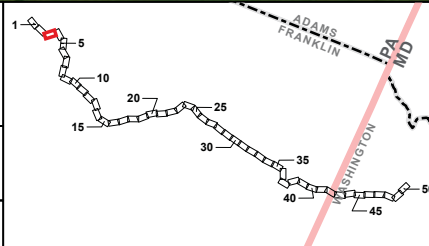
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
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 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 3**

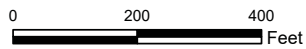
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



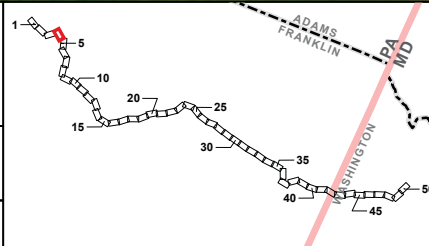
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
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 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 4**

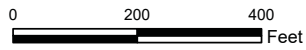
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



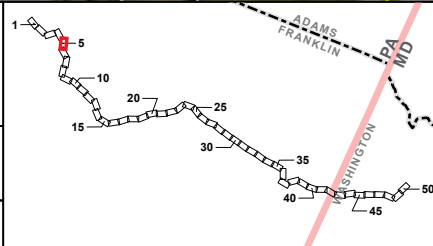
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
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 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 5**

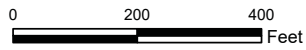
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



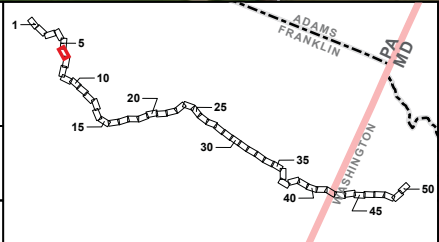
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
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 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 6**

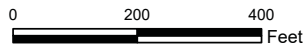
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



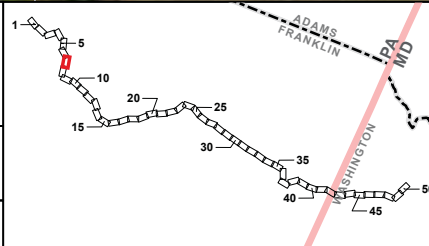
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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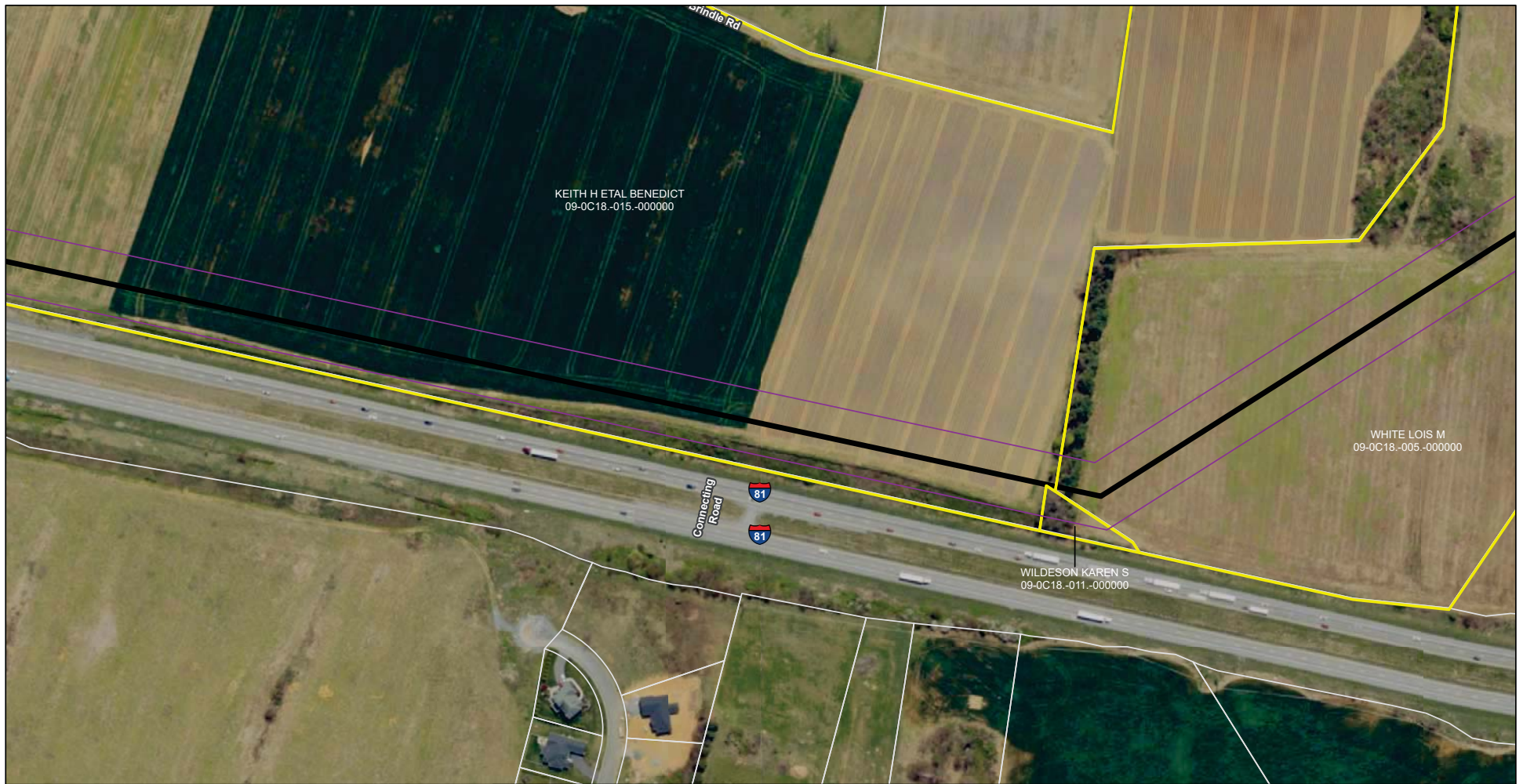


COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 7**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



KEITH H ETAL BENEDICT
09-0C18-.015-.000000

WHITE LOIS M
09-0C18-.005-.000000

WILDESON KAREN S
09-0C18-.011-.000000

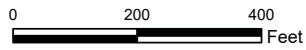
Connecting Road



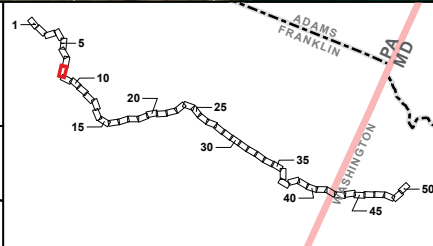
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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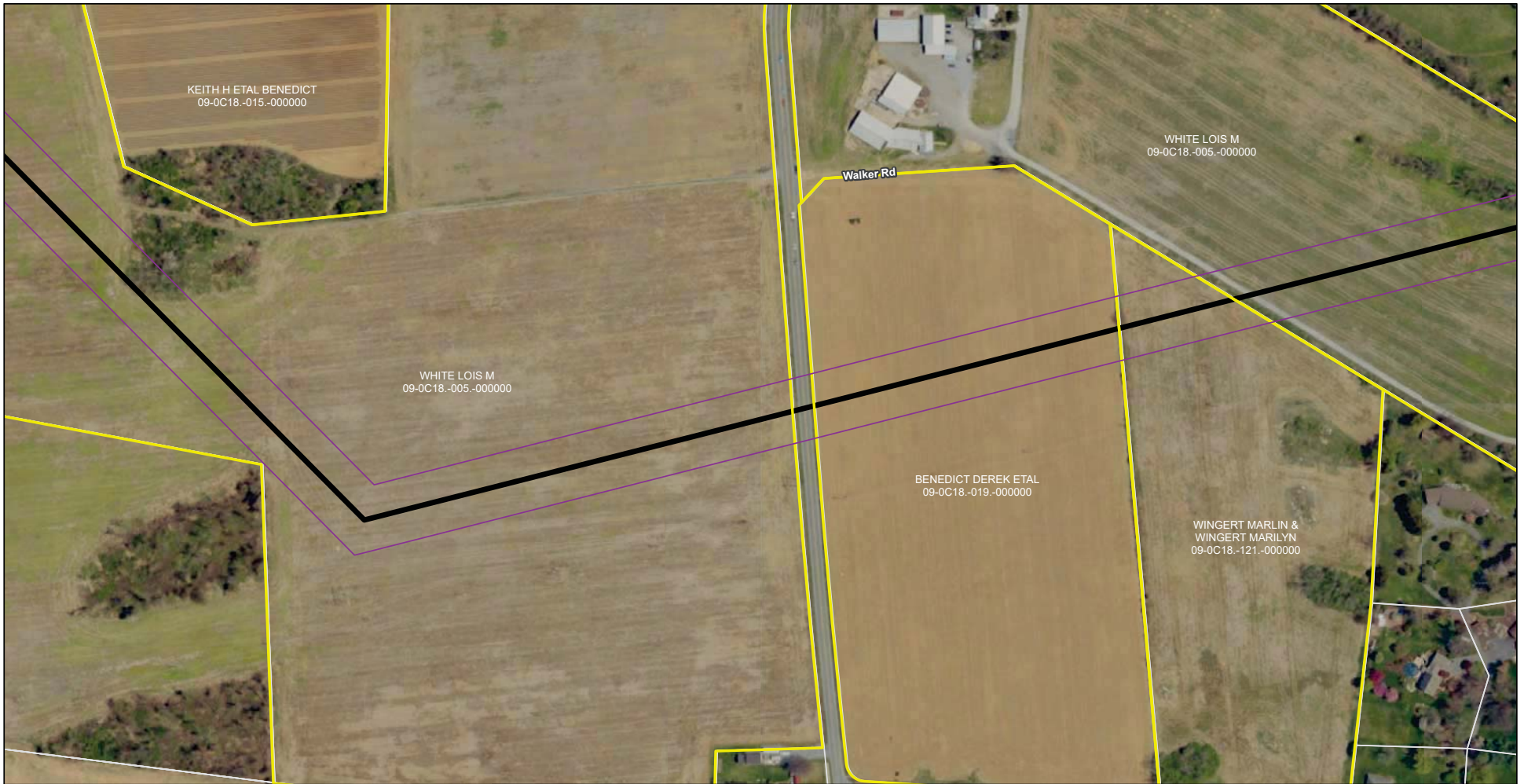


COORDINATE SYSTEM:
NAD 1983 UTM Zone 18 North
Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
Transmission Line Project
Aerial Mapbook
Map Extent 8**

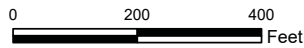
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



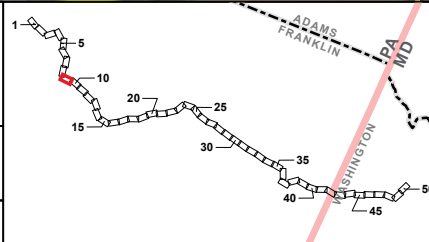
- Legend**
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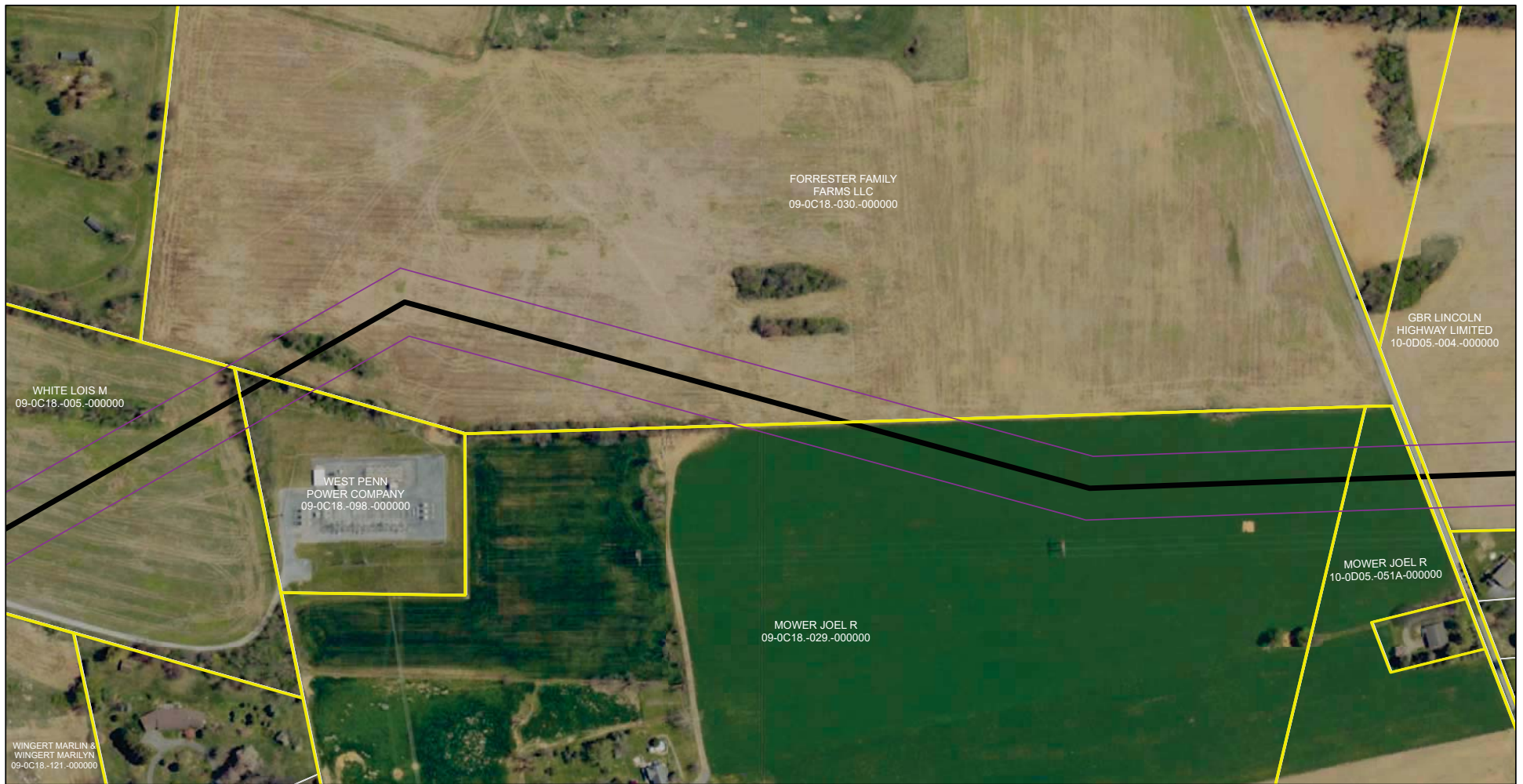


COORDINATE SYSTEM:
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**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 9**

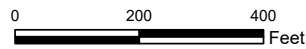
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



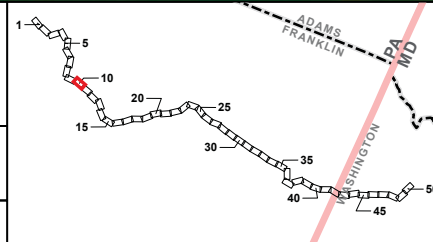
- Legend**
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**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 10**

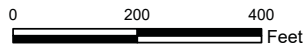
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



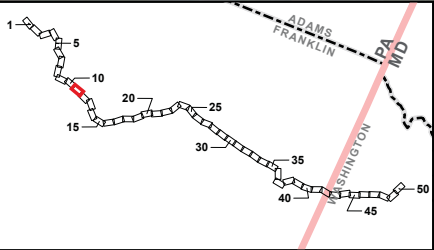
- Legend**
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**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 11**

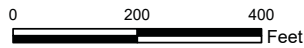
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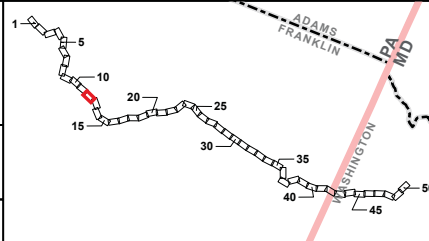
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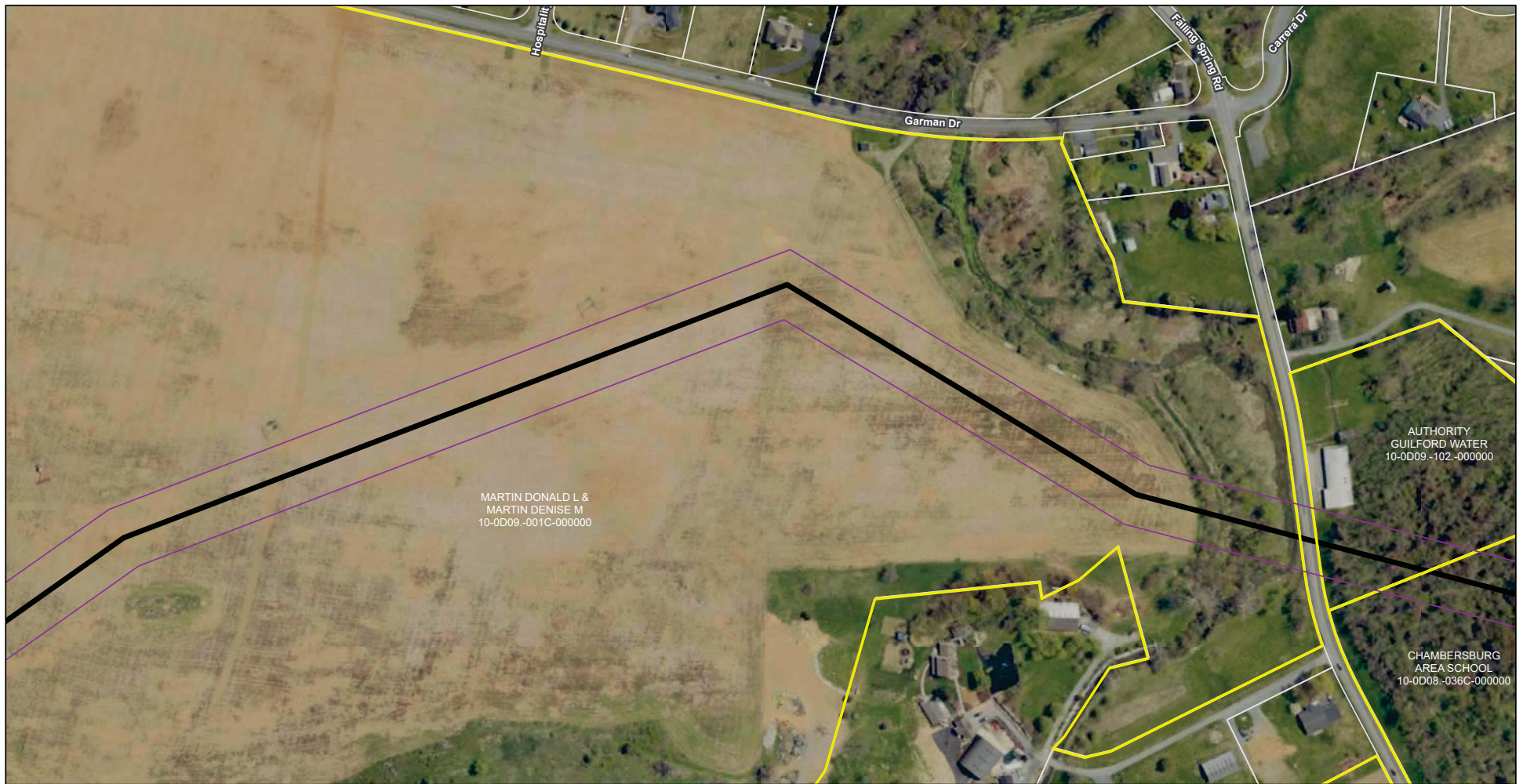


COORDINATE SYSTEM:
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**Rice - Ringgold 230 kV
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 Aerial Mapbook
 Map Extent 12**

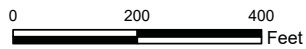
Prepared By: MWC	Checked By: HB
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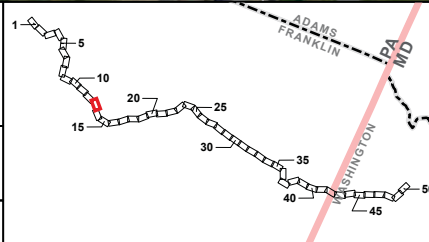
- Legend**
- Proposed Route C
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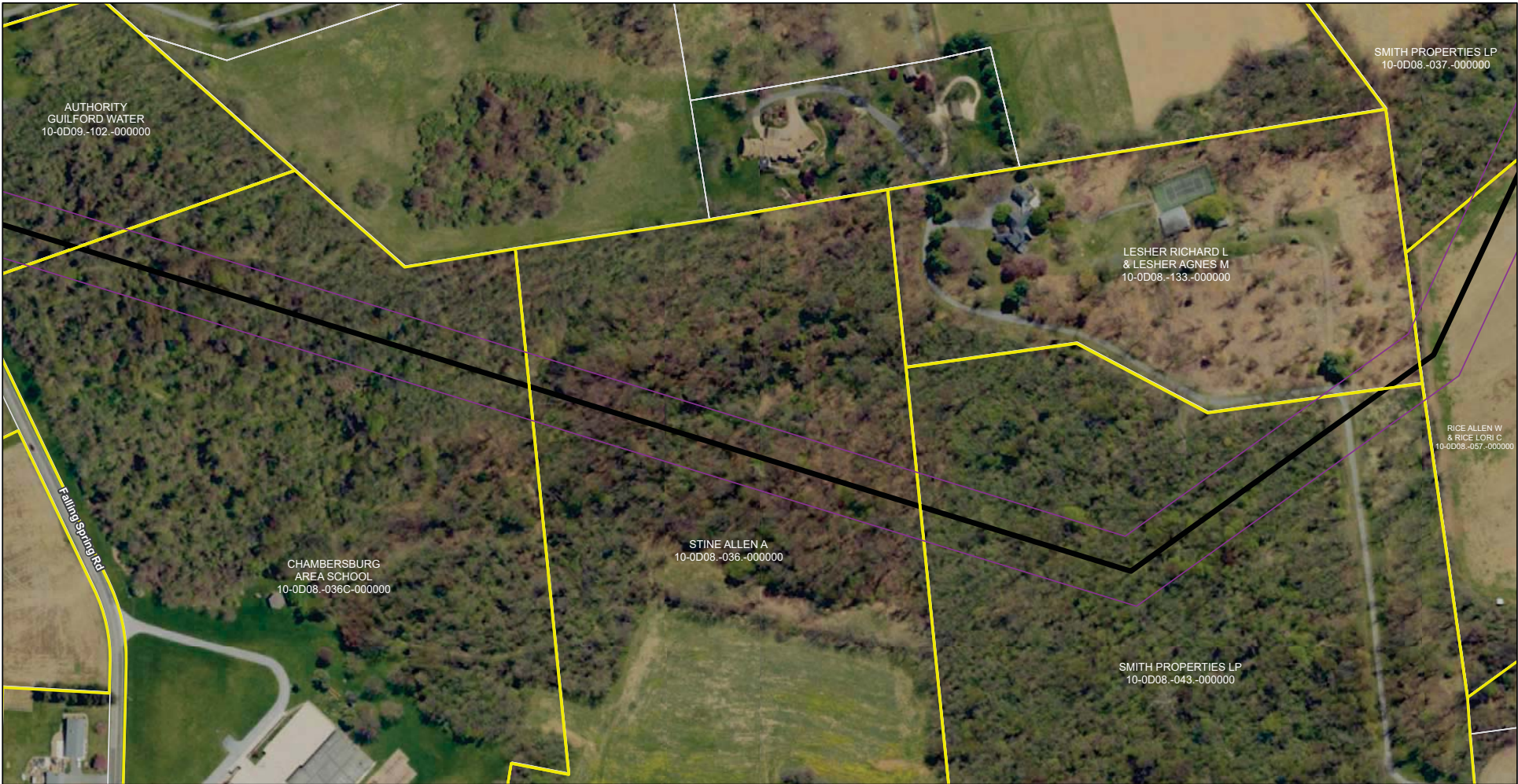


COORDINATE SYSTEM:
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**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 13**

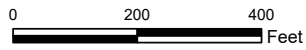
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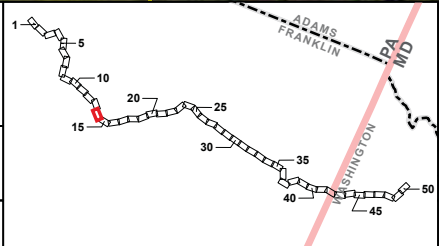
- Legend**
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 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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- REFERENCES:**
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 - NAIP Basemap MD (2023)
 - Franklin County GIS Office (2025)
 - Washington County GIS Office (2025)

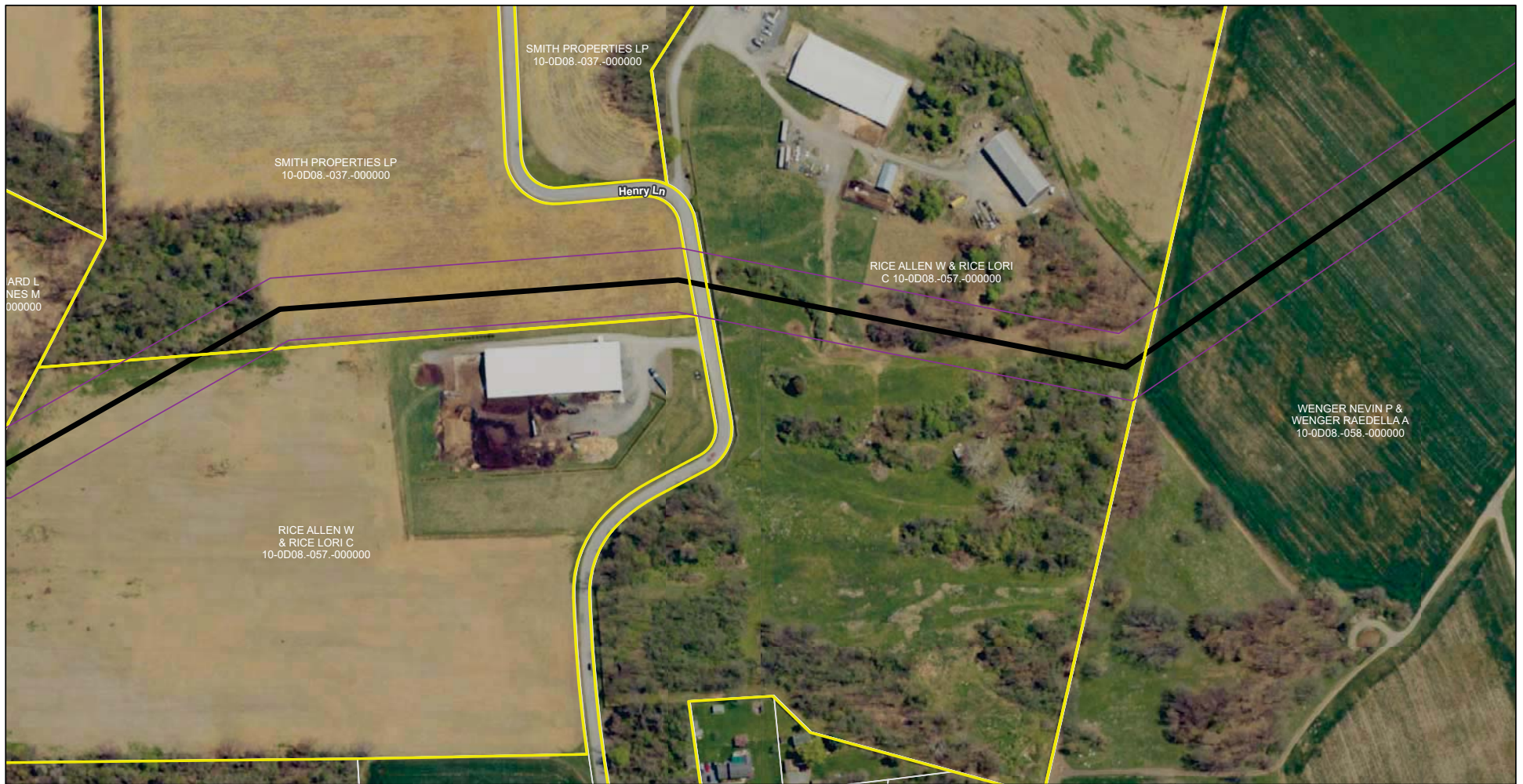


COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 14**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



<p>Legend</p> <ul style="list-style-type: none"> Proposed Route C Proposed Route C ROW Parcels Crossed by Proposed ROW Parcel Boundary 	<p>Disclaimer: The images and data on this figure are provided by Transource, LLC for information purposes only and represent only approximate locations and distances since final detailed survey and related field work have not yet been completed. Transource LLC. makes no warranty with respect to the accuracy of the images or information reflected on this figure. The property lines shown on this figure are based on tax parcel data obtained from the County and does not constitute legal description of any of the applicable land parcels.</p>	<p>REFERENCES:</p> <ul style="list-style-type: none"> NAIP Basemap PA (2022) NAIP Basemap MD (2023) Franklin County GIS Office (2025) Washington County GIS Office (2025) 		<p>Rice - Ringgold 230 kV Transmission Line Project Aerial Mapbook Map Extent 15</p> <table border="1" style="width: 100%;"> <tr> <td>Prepared By: MWC</td> <td>Checked By: HB</td> </tr> <tr> <td>Job: 60528995</td> <td>Date: May 02, 2026</td> </tr> </table>	Prepared By: MWC	Checked By: HB	Job: 60528995	Date: May 02, 2026
Prepared By: MWC	Checked By: HB							
Job: 60528995	Date: May 02, 2026							
<p>0 200 400 Feet</p>								
<p>COORDINATE SYSTEM: NAD 1983 UTM Zone 18 North Projection: Transverse Mercator; Units: Meter</p>								



RICE ALLEN W
& RICE LORI C
10-0D08-.057-.000000

Springview Dr

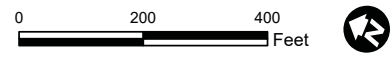
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WENGER RAEDELLA A
10-0D08-.058-.000000

WILLIS M LESHAR
PARTNERSHIP
10-0D14-.019-.000000

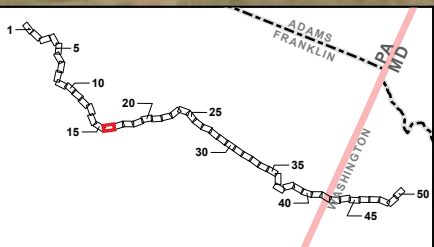
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
NAD 1983 UTM Zone 18 North
Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
Transmission Line Project
Aerial Mapbook
Map Extent 16**

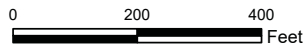
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



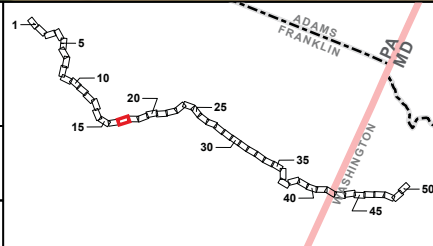
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 17**

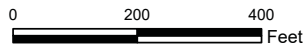
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



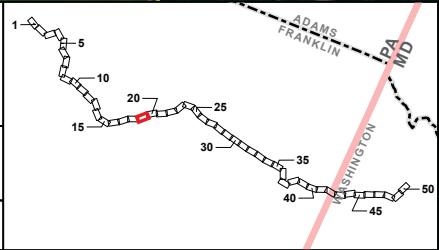
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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 - Washington County GIS Office (2025)

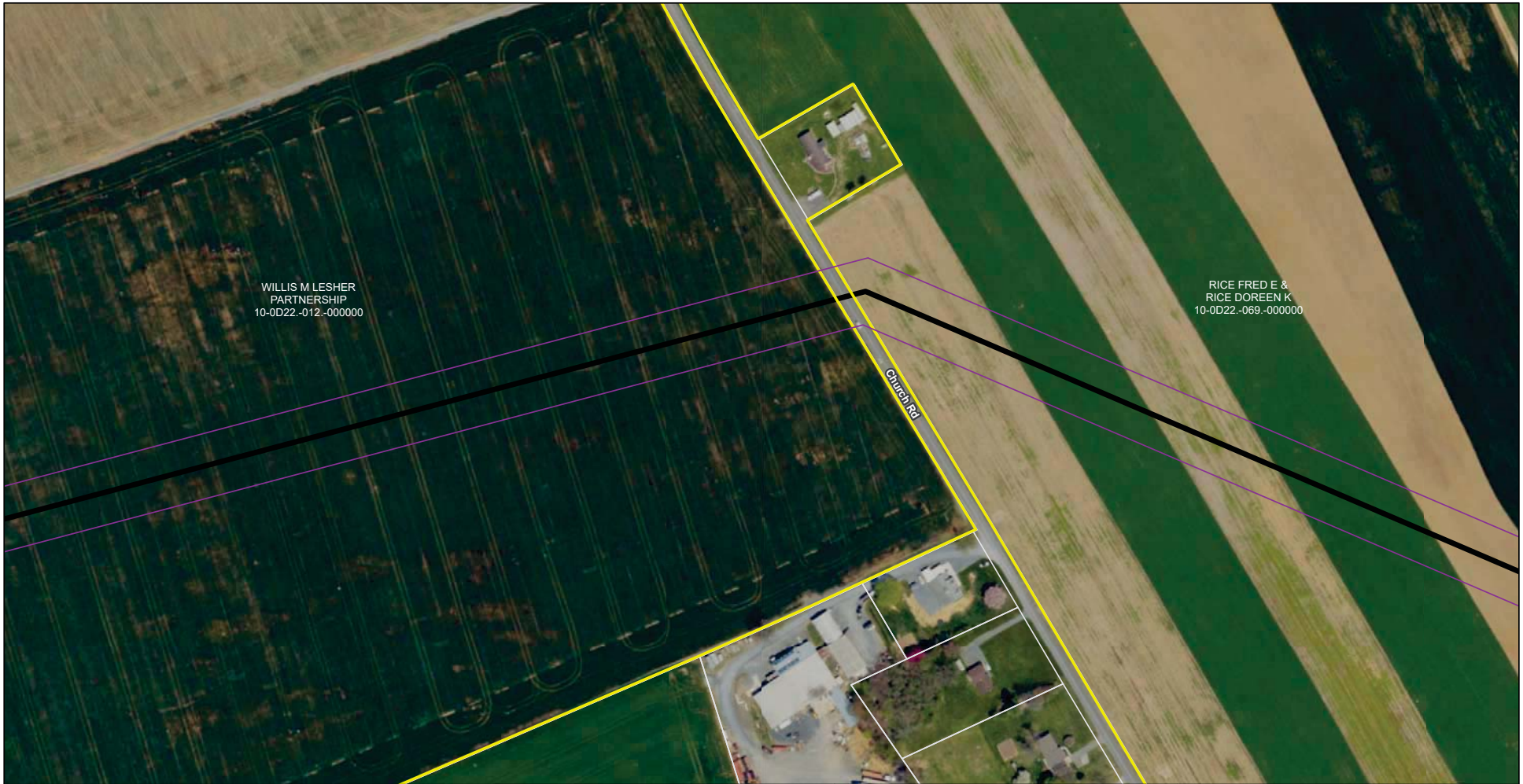


COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 19**

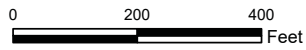
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



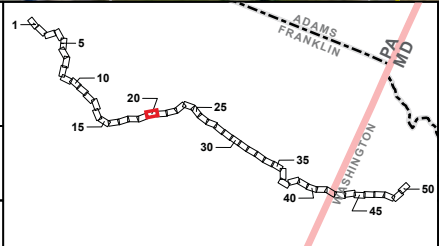
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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 - Washington County GIS Office (2025)



COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 20**





Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



CORDELL ROY M &
CORDELL EMMA L
10-0D22-.056-.000000

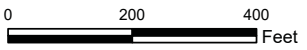
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RICE DOREEN K
10-0D22-.069-.000000

WILLIS M LESHER
PARTNERSHIP
10-0D22-.024-.000000

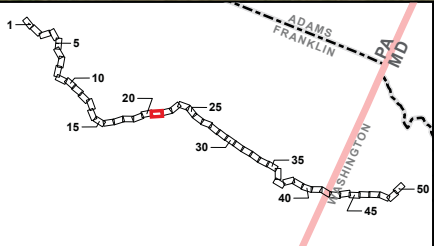
- Legend**
-  Proposed Route C
 -  Proposed Route C ROW
 -  Parcels Crossed by Proposed ROW
 -  Parcel Boundary

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COORDINATE SYSTEM:
NAD 1983 UTM Zone 18 North
Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
Transmission Line Project
Aerial Mapbook
Map Extent 21**

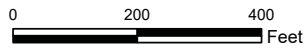
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



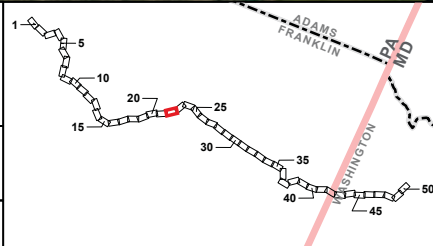
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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 - Washington County GIS Office (2025)

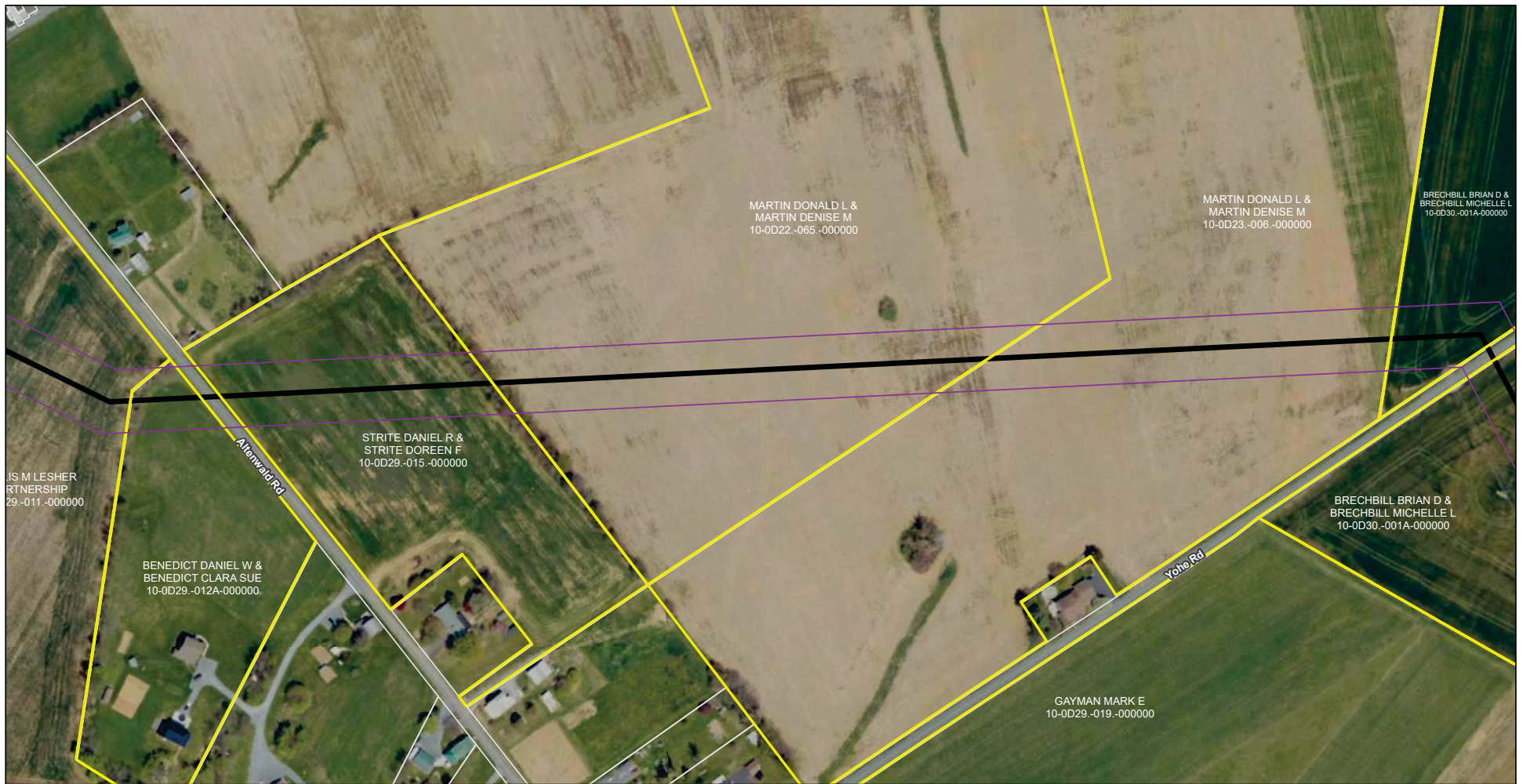


COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 22**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



Legend

- Proposed Route C
- Proposed Route C ROW
- Parcels Crossed by Proposed ROW
- Parcel Boundary

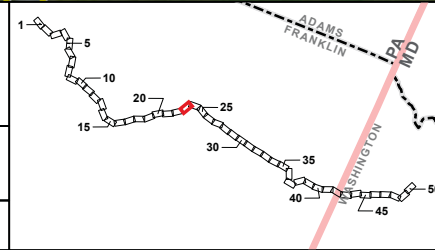
Disclaimer: The images and data on this figure are provided by Transource, LLC for information purposes only and represent only approximate locations and distances since final detailed survey and related field work have not yet been completed. Transource LLC makes no warranty with respect to the accuracy of the images or information reflected on this figure. The property lines shown on this figure are based on tax parcel data obtained from the County and does not constitute legal description of any of the applicable land parcels.

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- Washington County GIS Office (2025)

0 200 400
 _____ Feet

COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 23**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



<p>Legend</p> <ul style="list-style-type: none"> Proposed Route C Proposed Route C ROW Parcels Crossed by Proposed ROW Parcel Boundary 	<p>Disclaimer: The images and data on this figure are provided by Transource, LLC for information purposes only and represent only approximate locations and distances since final detailed survey and related field work have not yet been completed. Transource LLC. makes no warranty with respect to the accuracy of the images or information reflected on this figure. The property lines shown on this figure are based on tax parcel data obtained from the County and does not constitute legal description of any of the applicable land parcels.</p>	<p>REFERENCES:</p> <ul style="list-style-type: none"> NAIP Basemap PA (2022) NAIP Basemap MD (2023) Franklin County GIS Office (2025) Washington County GIS Office (2025) 	
<p>COORDINATE SYSTEM: NAD 1983 UTM Zone 18 North Projection: Transverse Mercator; Units: Meter</p>		<p>Rice - Ringgold 230 kV Transmission Line Project Aerial Mapbook Map Extent 24</p>	
		<p>Prepared By: MWC</p>	<p>Checked By: HB</p>
		<p>Job: 60528995</p>	<p>Date: May 02, 2026</p>



BAKER JONATHAN P &
BAKER ROSALIE M
19-0L03.-002A-000000

EBY MAHLON R
& EBY DEBRA S
19-0L08.-001.-000000

GAYMAN MARK E &
GAYMAN SALLY A
19-0L02.-041.-000000

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STRITE DOREEN F
19-0L02.-040.-000000

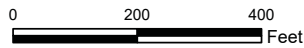
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19-0L02.-042.-000000

Stanney Hill Rd

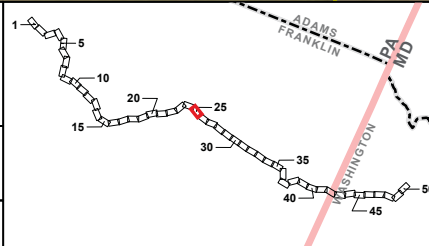
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
NAD 1983 UTM Zone 18 North
Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
Transmission Line Project
Aerial Mapbook
Map Extent 25**

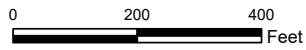
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



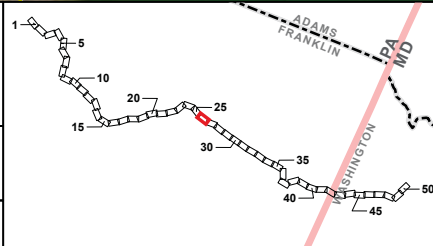
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 26**

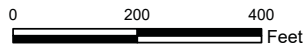
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



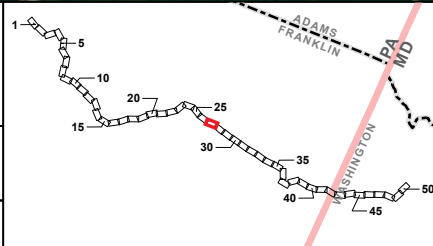
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 27**

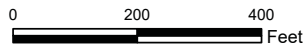
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



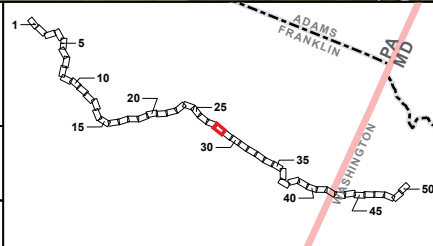
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
NAD 1983 UTM Zone 18 North
Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
Transmission Line Project
Aerial Mapbook
Map Extent 28**

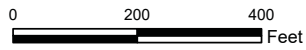
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



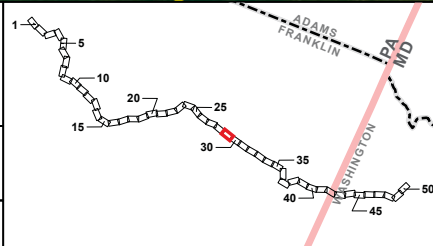
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 29**

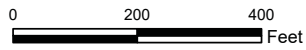
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



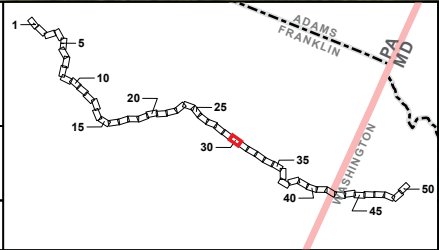
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 30**

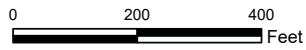
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



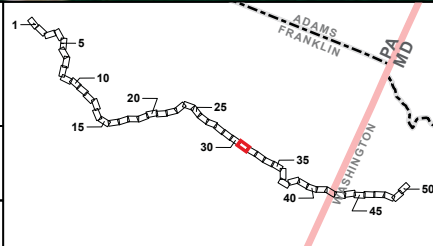
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 31**

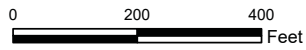
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



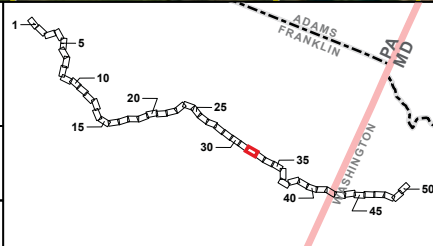
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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 - NAIP Basemap MD (2023)
 - Franklin County GIS Office (2025)
 - Washington County GIS Office (2025)



COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 32**

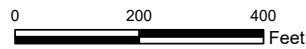
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



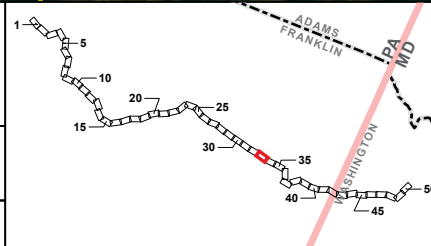
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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 - Washington County GIS Office (2025)



COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 33**

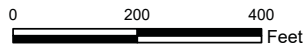
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



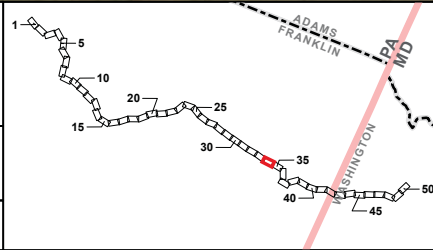
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 34**

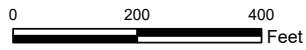
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



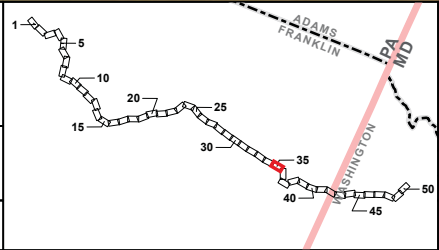
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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REFERENCES:
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 NAIP Basemap MD (2023)
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 Washington County GIS Office (2025)



COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 35**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



Legend

- Proposed Route C
- Proposed Route C ROW
- Parcels Crossed by Proposed ROW
- Parcel Boundary

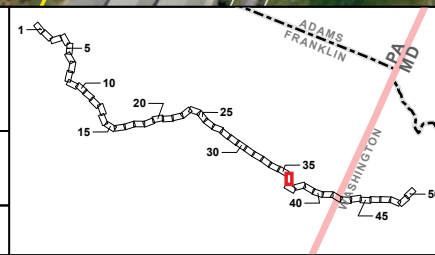
Disclaimer: The images and data on this figure are provided by Transource, LLC for information purposes only and represent only approximate locations and distances since final detailed survey and related field work have not yet been completed. Transource LLC makes no warranty with respect to the accuracy of the images or information reflected on this figure. The property lines shown on this figure are based on tax parcel data obtained from the County and does not constitute legal description of any of the applicable land parcels.

REFERENCES:

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- NAIP Basemap MD (2023)
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- Washington County GIS Office (2025)

0 200 400 Feet

COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 36**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



<p>Legend</p> <ul style="list-style-type: none"> Proposed Route C Proposed Route C ROW Parcels Crossed by Proposed ROW Parcel Boundary 	<p>Disclaimer: The images and data on this figure are provided by Transource, LLC for information purposes only and represent only approximate locations and distances since final detailed survey and related field work have not yet been completed. Transource LLC. makes no warranty with respect to the accuracy of the images or information reflected on this figure. The property lines shown on this figure are based on tax parcel data obtained from the County and does not constitute legal description of any of the applicable land parcels.</p>	<p>REFERENCES:</p> <ul style="list-style-type: none"> NAIP Basemap PA (2022) NAIP Basemap MD (2023) Franklin County GIS Office (2025) Washington County GIS Office (2025) 		<p>Rice - Ringgold 230 kV Transmission Line Project Aerial Mapbook Map Extent 37</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Prepared By: MWC</td> <td style="width: 50%; padding: 2px;">Checked By: HB</td> </tr> <tr> <td style="padding: 2px;">Job: 60528995</td> <td style="padding: 2px;">Date: May 02, 2026</td> </tr> </table>	Prepared By: MWC	Checked By: HB	Job: 60528995	Date: May 02, 2026
Prepared By: MWC	Checked By: HB							
Job: 60528995	Date: May 02, 2026							
<p>0 200 400 Feet</p>								
<p>COORDINATE SYSTEM: NAD 1983 UTM Zone 18 North Projection: Transverse Mercator; Units: Meter</p>								



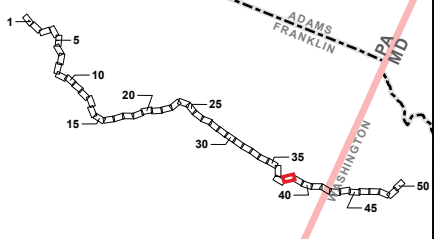
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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 - Washington County GIS Office (2025)



COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 38**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



Legend

- Proposed Route C
- Proposed Route C ROW
- Parcels Crossed by Proposed ROW
- Parcel Boundary

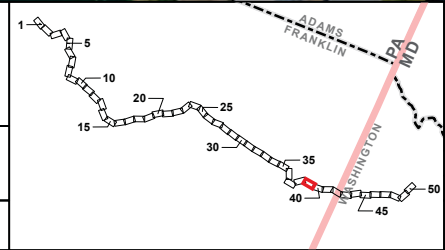
Disclaimer: The images and data on this figure are provided by Transource, LLC for information purposes only and represent only approximate locations and distances since final detailed survey and related field work have not yet been completed. Transource LLC makes no warranty with respect to the accuracy of the images or information reflected on this figure. The property lines shown on this figure are based on tax parcel data obtained from the County and does not constitute legal description of any of the applicable land parcels.

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- Washington County GIS Office (2025)

0 200 400 Feet

COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 39**

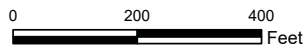
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



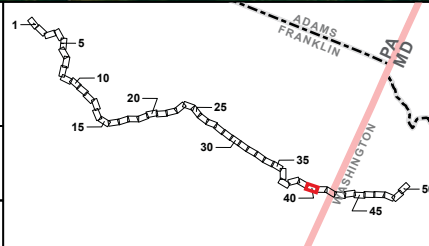
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 40**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



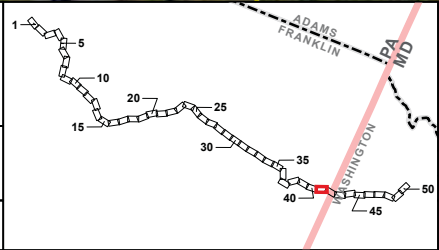
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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 - Washington County GIS Office (2025)



COORDINATE SYSTEM:
NAD 1983 UTM Zone 18 North
Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
Transmission Line Project
Aerial Mapbook
Map Extent 41**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



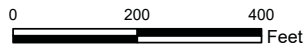
<p>Legend</p> <ul style="list-style-type: none"> Proposed Route C Proposed Route C ROW Parcels Crossed by Proposed ROW Parcel Boundary 	<p>Disclaimer: The images and data on this figure are provided by Transource, LLC for information purposes only and represent only approximate locations and distances since final detailed survey and related field work have not yet been completed. Transource LLC. makes no warranty with respect to the accuracy of the images or information reflected on this figure. The property lines shown on this figure are based on tax parcel data obtained from the County and does not constitute legal description of any of the applicable land parcels.</p>	<p>REFERENCES:</p> <ul style="list-style-type: none"> NAIP Basemap PA (2022) NAIP Basemap MD (2023) Franklin County GIS Office (2025) Washington County GIS Office (2025) 		<p>Rice - Ringgold 230 kV Transmission Line Project Aerial Mapbook Map Extent 42</p> <table border="1" style="width: 100%;"> <tr> <td>Prepared By: MWC</td> <td>Checked By: HB</td> </tr> <tr> <td>Job: 60528995</td> <td>Date: May 02, 2026</td> </tr> </table>	Prepared By: MWC	Checked By: HB	Job: 60528995	Date: May 02, 2026
Prepared By: MWC	Checked By: HB							
Job: 60528995	Date: May 02, 2026							
<p>0 200 400 Feet </p>		<p>COORDINATE SYSTEM: NAD 1983 UTM Zone 18 North Projection: Transverse Mercator; Units: Meter</p>						



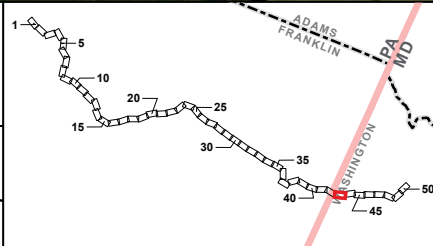
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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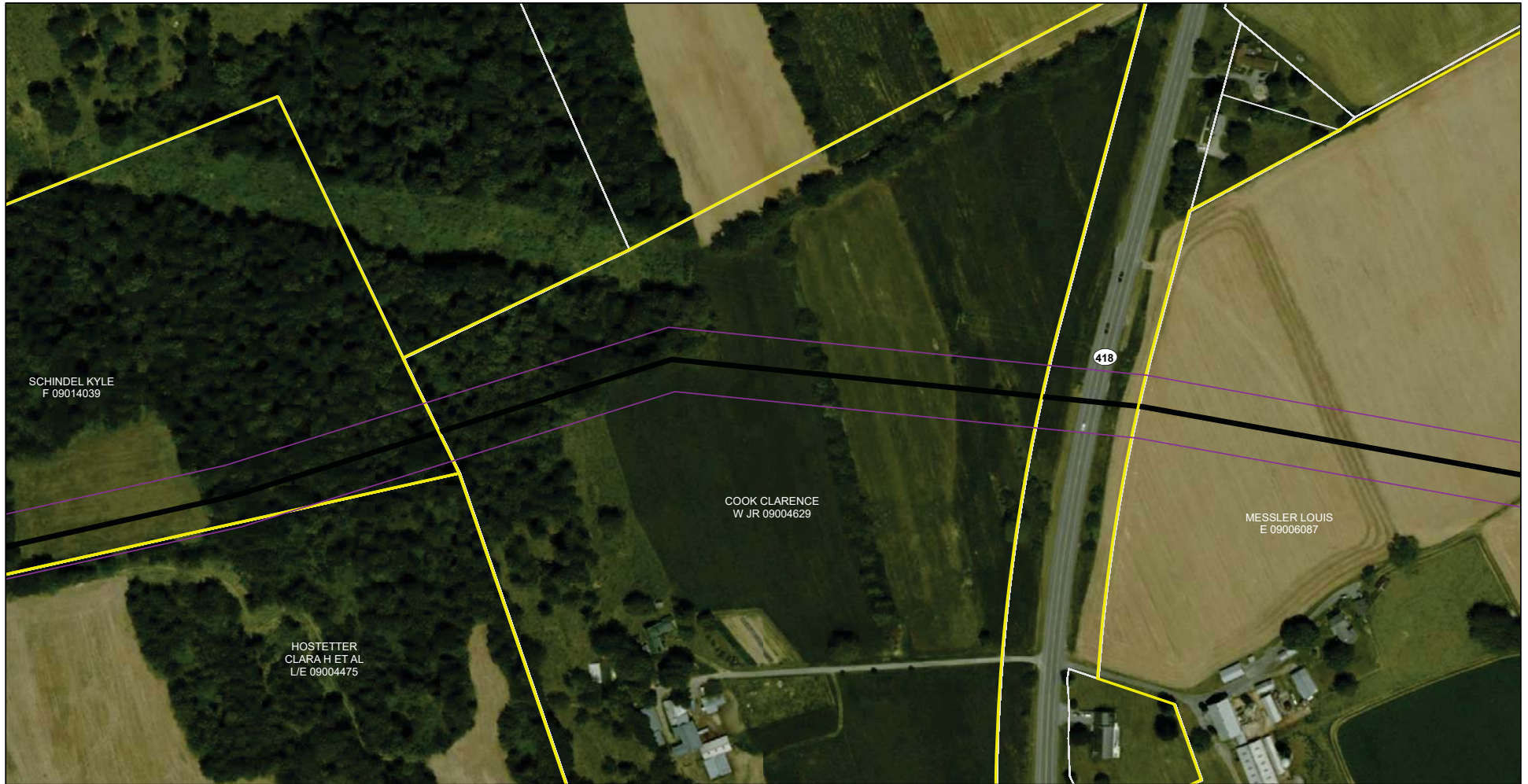


COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 43**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



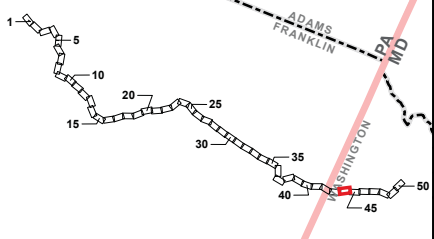
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 44**

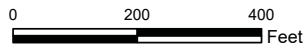
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



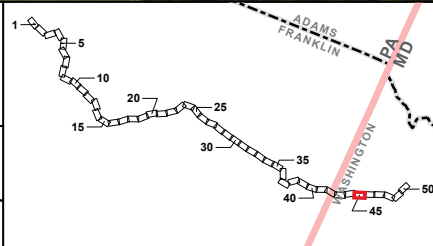
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 45**

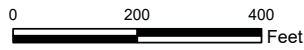
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



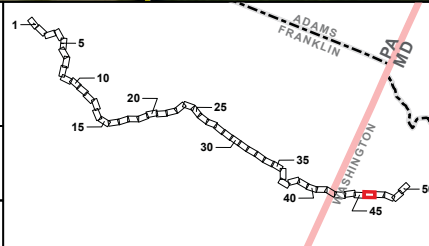
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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 - Washington County GIS Office (2025)

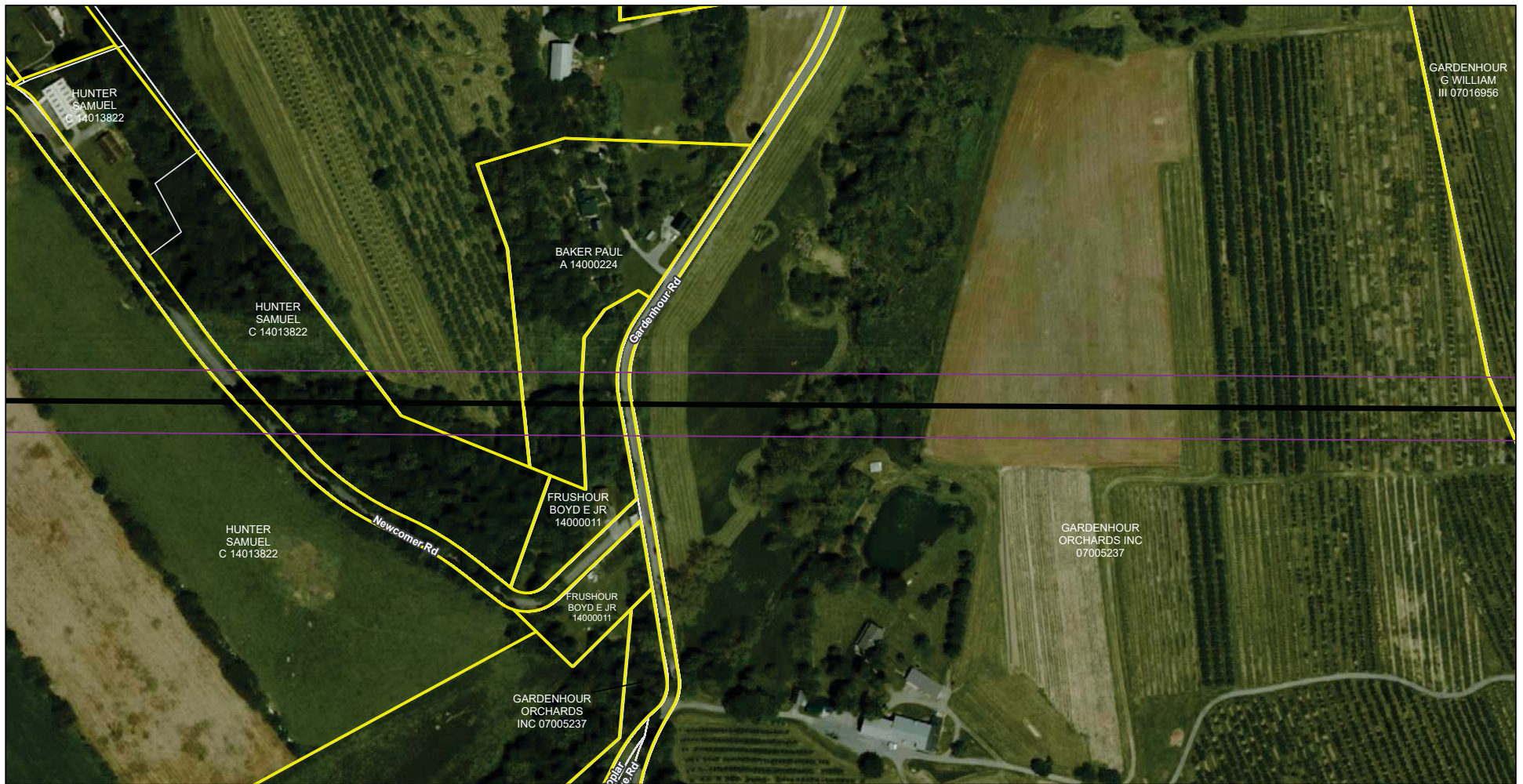


COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 46**

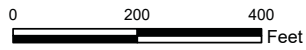
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



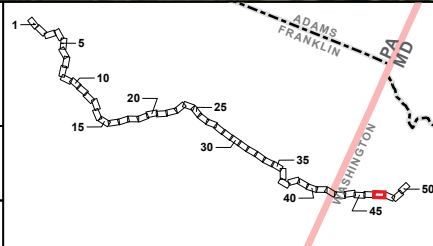
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 47**

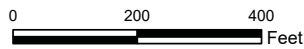
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



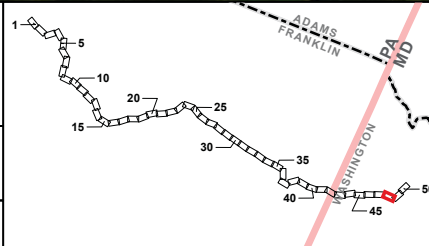
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 48**

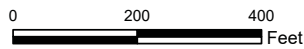
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



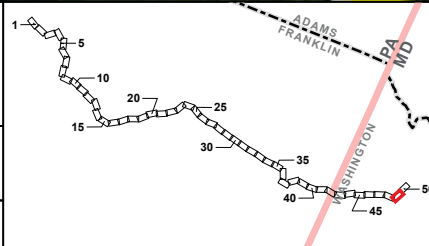
- Legend**
- Proposed Route C
 - Proposed Route C ROW
 - Parcels Crossed by Proposed ROW
 - Parcel Boundary

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COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 49**

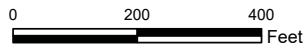
Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026



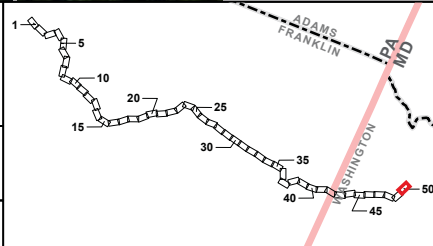
- Legend**
-  Proposed Route C
 -  Proposed Route C ROW
 -  Parcels Crossed by Proposed ROW
 -  Parcel Boundary

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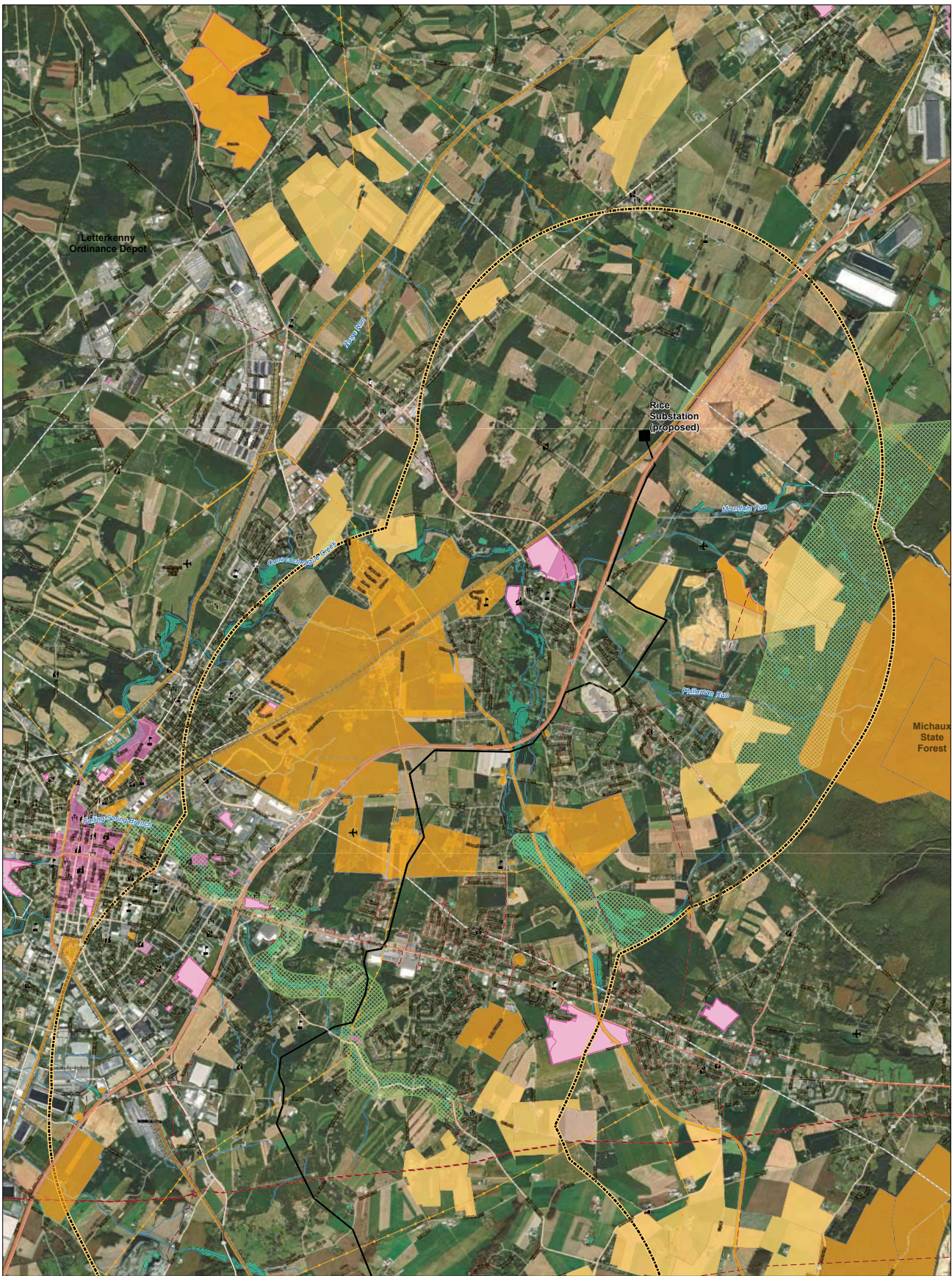
COORDINATE SYSTEM:
 NAD 1983 UTM Zone 18 North
 Projection: Transverse Mercator; Units: Meter



**Rice - Ringgold 230 kV
 Transmission Line Project
 Aerial Mapbook
 Map Extent 50**

Prepared By: MWC	Checked By: HB
Job: 60528995	Date: May 02, 2026

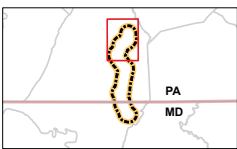
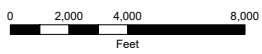
Appendix D: Proposed Route 2 Mile Overview Drawing (Figure 16)



Legend

- ✈ Airports
- ✈ Churches
- ✈ Cemeteries
- Proposed Route C
- 2 Mile Buffer
- Existing Transmission Line
- Less than 100 kV
- 115kV - 230 kV
- Greater than 345kV
- Gas Pipeline
- Railroad
- Stream
- NHP Listed Above Ground Resource
- NHP Eligible Above Ground Resource
- NHP Listed Historic District
- NHP Eligible Historic District
- USDA Agricultural Conservation Easement
- State Agricultural Preservation
- National Park
- Federal Land
- State Land
- Local Park
- PA Core Habitat of Biological Diversity Area
- Wetland

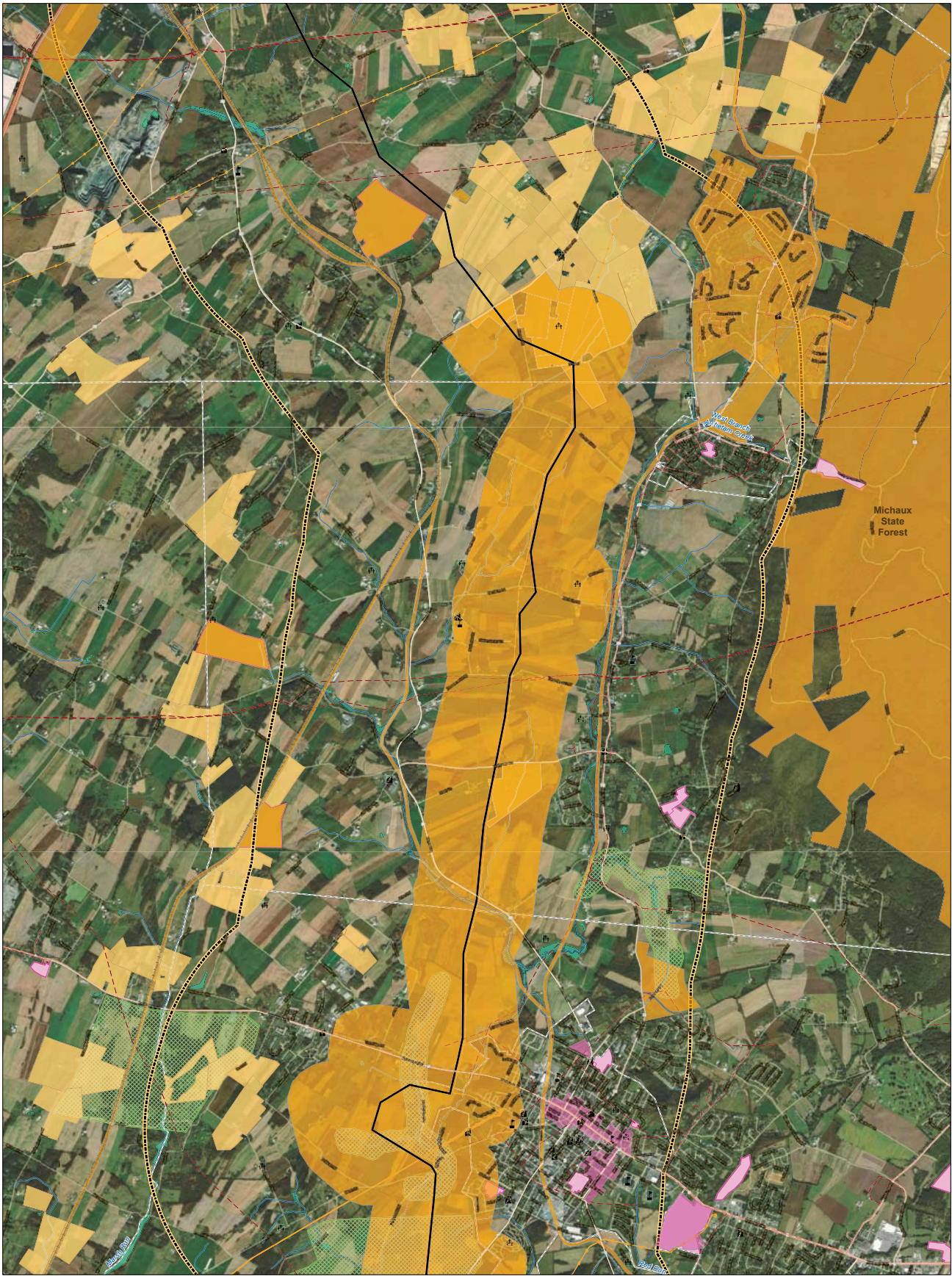
Disclaimer: Due to the sensitivity of archeological resources, their location is considered proprietary and is not included in this figure.



**Rice - Ringgold 230kV
Transmission Line Project
Transource, LLC**

Job: 60528995
Prepared by: MWC
Checked by: HB
Date: 5/1/2026

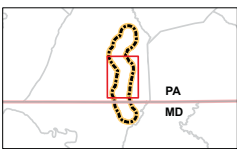
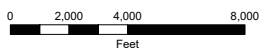
**Figure 16
Page 1 of 3
Proposed Route - 2 Mile Overview of Sensitive Features**

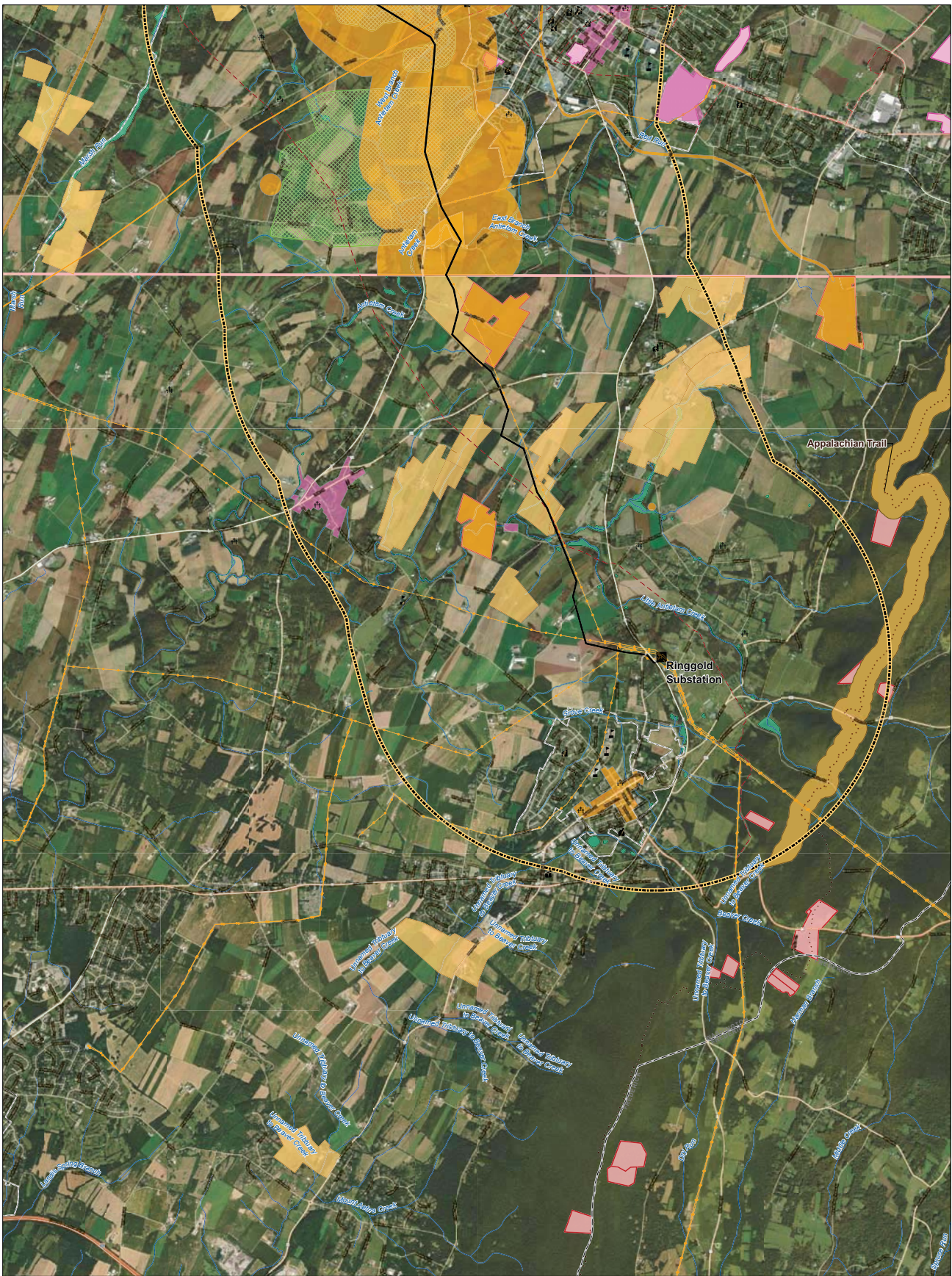


Legend

- ✈ Airports
- ✈ Schodes
- ⛪ Churches
- ⛪ Cemeteries
- Proposed Route C
- 2 Mile Buffer
- Existing Transmission Line
- Less than 100 kV
- 115kV - 230 kV
- Greater than 345kV
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- Stream
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- NHP Eligible Above Ground Resource
- NHP Listed Historic District
- NHP Eligible Historic District
- USDA Agricultural Conservation Easement
- State Agricultural Preservation
- National Park
- Federal Land
- State Land
- Local Park
- PK Core Habitat of Biological Diversity Area
- Wetland

Disclaimer: Due to the sensitivity of archeological resources, their location is considered proprietary and is not included in this figure.

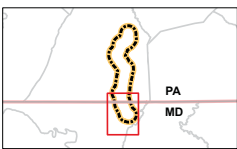
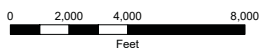




Legend

- Airports
- Schools
- Churches
- Cemeteries
- Proposed Route C
- 2 Mile Buffer
- Existing Transmission Line
- Less than 100 kV
- 115kV - 230 kV
- Greater than 345kV
- Gas Pipeline
- Railroad
- Stream
- NHP Listed Above Ground Resource
- NHP Eligible Above Ground Resource
- NRHP Listed Historic District
- NRHP Eligible Historic District
- USDA Agricultural Conservation Easement
- State Agricultural Preservation
- National Park
- Federal Land
- State Land
- Local Park
- PK Core Habitat of Biological Diversity Area
- Wetland

Disclaimer: Due to the sensitivity of archeological resources, their location is considered proprietary and is not included in this figure.



**Rice - Ringgold 230kV
Transmission Line Project
Transource, LLC**

Job: 60528995
Prepared by: MWC
Checked by: HB
Date: 5/1/2026

**Figure 16
Page 3 of 3
Proposed Route - 2 Mile Overview of Sensitive Features**

ATTACHMENT 5

ATTACHMENT 5

ENGINEERING DESCRIPTION AND SAFETY PRACTICES

TRANSOURCE



ATTACHMENT 5
ENGINEERING DESCRIPTION AND SAFETY PRACTICES

1.0 INTRODUCTION

Transource Pennsylvania, LLC ("Transource PA") proposes to construct the Pennsylvania portion of the 9A West Project ("9A West Project") in Franklin County, Pennsylvania. This Attachment provides an engineering description of the transmission line associated with the 9A West Project.

2.0 PROPOSED LINE DESIGN

The 9A West Project involves the construction of the new Rice-Ringgold 230 kV Transmission Line that will extend approximately 29 miles, connecting the existing Ringgold Substation located near Smithsburg, Washington County, Maryland, and the new Rice Substation to be located in Franklin County, Pennsylvania. The Pennsylvania portion of the 9A West Project is approximately 24.2 miles as further described in Attachment 4.

The new transmission line associated with the 9A West Project will be designed as a double-circuit 230 kV transmission line. The 230 kV double-circuit design will utilize twelve power conductors, with two conductors being used for each of the six phase positions, and two overhead ground wires. The power conductors will be 795 kcmil¹ 26/7 Aluminum Conductor Steel Supported ("ACSS") "Drake" conductors in each of the six (6) phase conductor positions. The overhead ground wires will provide lightning protection and in some cases communication between circuit breakers that remove the line from service should a fault on the line be detected.

The Pennsylvania portion of the 9A West Project will require the install of approximately 155 steel structures with an average height of 130 feet. The average span length will be approximately 800 feet.

¹ A kcmil is a thousand circular mils. A circular mil is the cross-sectional area of a wire one mil in diameter, where 1 kcmil = 0.5067 mm².

The Pennsylvania portion of the new 9A West Project will consist of a combination of tubular steel monopole and multi-pole structures. The tubular steel monopole structures will be used at tangent and light-angle locations. The tubular steel multi-pole structures will be used at medium-angle locations and most of the heavy-angle and deadend locations. The foundation systems will be comprised of drill-shafts.

Diagram 5.1 depicts the typical structures that will be used for the 9A West Project.

3.0 DESIGN CRITERIA AND SAFETY PRACTICES

The 9A West Project will be designed according to all National Electrical Safety Code ("NESC") standards. The NESC is a set of rules to safeguard people during the installation, operation, and maintenance of electric power lines. The NESC contains the basic provisions considered necessary for the safety of employees and the public. Although it is not intended as a design specification, its provisions establish minimum design requirements. Transource PA has developed design specifications and safety rules which meet or surpass all requirements specified by the NESC and the PJM Minimum Design Standards.

The NESC includes loading requirements and clearances for the design, construction, and operation of power lines. The "loads" on conductors and supporting structures are the mechanical forces that develop from the weight of the conductors, the weight of ice on the conductors, plus wind pressure on the conductors and supporting structures. Loading requirements are the loads on the conductors and structures that are anticipated assuming certain ice and wind conditions. Loading requirements contain a combination of strength factors and load factors. These factors account for unknown or unanticipated contingencies in both material variability and structural loading. The clearances and loading requirements contained in the NESC are designed to maintain public safety.

The 9A West Project will be designed to meet or surpass the NESC clearances and loading requirements. For example, the relative order of grades of construction for conductors and supporting structures is B, C, and N; Grade B being the highest. According to the NESC standards, construction Grades B, C, or N may be used for transmission lines (except at crossings of rail road tracks and limited access highways where Grade B construction is specified). Transource PA will design its transmission lines for the 9A West Project as Grade B construction. The use of Grade B design and construction specifies enhancements such as larger-minimum crossarm dimensions and increased safety factors.

In addition to the above considerations, Transource PA utilizes additional loading conditions to account for enhanced structural performance, which results in increased safety performance. A heavy ice loading, including 1 1/4" radial ice is included in the design considerations. The design also accounts for longitudinal loading cases, including both a broken phase condition, and an iced/bare wire condition. The longitudinal cases are used by Transource PA to mitigate the possibility for cascading failures. Use of these additional load cases means Transource PA's lines are designed to operate safely and reliably during inclement weather even more severe than assumed by the NESC.

Engineering Clearance Design Criteria and Parameters

The transmission lines for the Project are designed with more clearance to the ground and underlying objects than required by the NESC. The following table contains examples of Transource and NESC clearance comparisons for 230kV lines.

230kV Design Clearance Comparison

<u>Surface Underneath Conductors</u>	<u>Vertical Clearance to Ground</u>	
	NESC Standard	<u>Transource Min. Design</u>
1. Roads, streets, alleys	22.5'	24.5' ²
2. Other land traversed by vehicles (such as cultivated field, forest, etc.)	22.5'	24.5'
3. Spaces accessible to pedestrians only	18.5'	20.5' ³
4. Railroad tracks	30.5'	32.5' ⁴

Steel Structure Safety Considerations

All steel structures installed on the 9A West Project will be labeled with Danger Signs to discourage public tampering. Additionally, the maintenance climbing systems for the tubular structures will be designed to start at a height well out of reach, typically 12' above ground line. Further, the maintenance climbing systems will be a clipped ladder system known as a McGregor Ladders. The structures will be installed with the ladder clips, but the ladders will not be installed unless needed for future maintenance activities. After maintenance activities are complete, the ladders will be removed. These considerations render the structures virtually unclimbable, and further enhance the safe operation of the line.

Relay Protection Systems

A relay protection system is used to protect the public safety and welfare as well as associated equipment and the transmission system. Relay protection will be installed for all 9A West Project transmission lines to automatically de-energize the line in the unlikely event that the line or supporting structure fails and the line contacts the ground.

² In areas where line is designed to accommodate oversized vehicles and equipment (greater than 14'), this clearance is increased by the difference between the known vehicle/equipment heights and 14'.

³ To ensure safe clearance is accounted for in future land use changes, this clearance is not used for new construction. Minimum clearance design clearance to all surfaces is per item 1.

⁴ Coordination during railroad permitting processes may require increasing this clearance depending on rail use.

Periodic Maintenance Program on All Transmission Lines

To ensure continued public safety and integrity of service, a periodic maintenance and inspection program will be implemented for every transmission line. The program will be administered through the use of helicopter patrols, with supplemental foot and structure climbing patrols. A number of helicopter patrols will be performed on all lines annually. During the patrols, the two-man helicopter crew flies parallel, to the left, and above the line so that the observer can look for signs of line damage or deterioration and observe clearances between vegetation and conductors. The observations are included in a report that is forwarded to the appropriate department for corrective action.

Foot and structure climbing patrol programs for a transmission line begin approximately three to five years after the line is energized, unless a helicopter patrol reports a need for earlier action. The frequency of foot patrols varies from once every year to once every several years depending on line type and age.

An assigned foot patroller checks right-of-way conditions, including access roads, bridges, pole washouts, tower footers, vegetation height and clearance to conductors, pole and tower deterioration and, with the use of binoculars, insulators, and condition of hardware. Identified problems are included in a report that is forwarded to the appropriate department for corrective action.

A scheduled line outage is required to perform an overhead patrol because of "hands-on" inspection of hardware. Overhead patrols are conducted on a schedule determined by line age, operating record, and observed general condition. The necessary repairs are also done during the inspection outage.

9A West Project Construction Safety

Safety will be of highest importance during all aspects of the 9A West Project. The construction specifications prepared for the 9A West Project will incorporate AEP experience regarding safety. The 9A West Project will be constructed according to well-defined procedures that utilize standard construction practices to perform all work safely and in compliance with Occupational Safety

and Health Administration ("OSHA") Rules and Regulations, while keeping environmental impact to a minimum. Transource will have dedicated safety personnel on the project, and each contractor will be required to have an adequate safety program in place, monitored by a full-time on-site safety representative.

All work will be done in accordance with NESC, OSHA and any applicable state or federal requirements.

4.0 ELECTRIC AND MAGNETIC FIELD MANAGEMENT

Transource PA applies its magnetic field policies and practices to new transmission line projects. Transource PA does not believe that the current scientific evidence demonstrates that magnetic fields cause any adverse health effects or pose a health or safety danger to the public. Nevertheless, Transource PA has determined, as a matter of policy, to design its new transmission lines to reduce the potential for exposure to magnetic fields when that can be done at low or no cost and consistent with functional requirements. Transource PA's Electric and Magnetic Field Policies and Practices are detailed in Attachment 11.

5.0 RIGHT OF WAY REQUIREMENTS

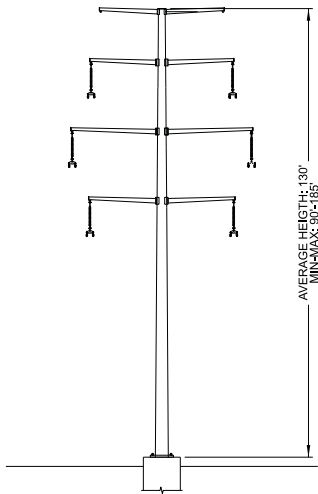
Transource PA's standard right-of-way width for a double circuit 230 kV transmission line is 130 feet, 65 feet either side of the proposed centerline of the transmission line. The right-of-way is determined by the structure type, design tensions, span length, and conductor "blowout" (the distance the wires are moved by a crosswind). The right-of-way for the 9A West Project is planned to be approximately one hundred and thirty feet ("130'") but may vary in certain areas in order to accommodate environmental, engineering, and constructability issues, as well as ensure compliance with the NESC clearances.

Diagram 5.1

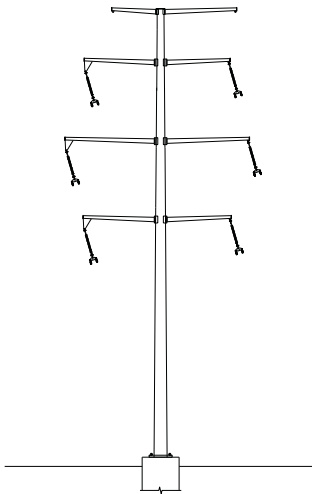
Typical Structures Used for the 9A West Project

ATTACHMENT 5.1

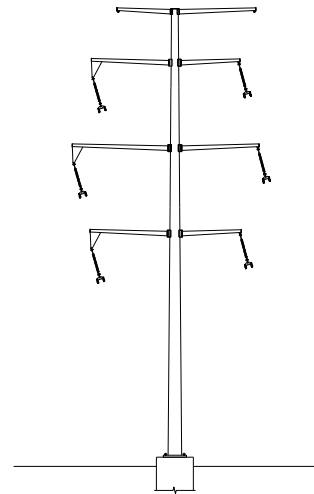
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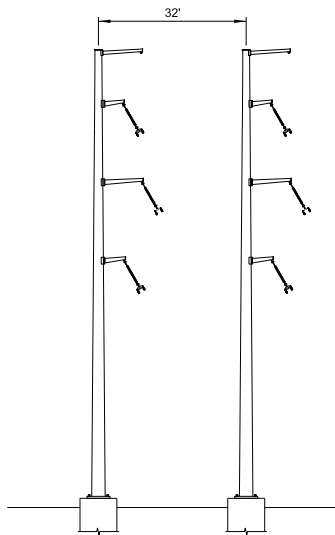
TANGENT (0°-2°)



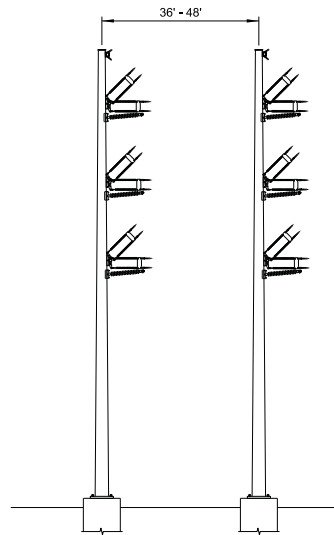
LIGHT ANGLE (2°-6°)



MEDIUM ANGLE (6°-15°)



HEAVY ANGLE (15°-30°)



DEADEND (30°-105°)

Scale for Microfilm

Inches

no.	date	by	ckd	description
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9A WEST PROJECT
ATTACHMENT 4
DIAGRAM 4.1



date	11/20/19	designed	G.BROWN	detailed	R. STIMATZE	checked	J. CLOUSE
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9A WEST PROJECT
STRUCTURE FAMILY



project	92486	client	TRANSOURCE
drawing	STRUCTURE FAMILY	rev.	1
sheet	1	of	1
file	A	sheets	

ATTACHMENT 6

9A West
Attachment 6
Landowner List

Mapbook Page	Parcel	County	State	Owner Name	Mailing Address
14, 13	10-0D09.-102.-000000	Franklin	PA	AUTHORITY GUILFORD WATER	
25, 24	19-0L03.-002A-000000	Franklin	PA	BAKER JONATHAN P & BAKER ROSALIE M	9380 FIVE FORKS RD WAYNESBORO PA 17268
23	10-0D29.-012A-000000	Franklin	PA	BENEDICT DANIEL W & BENEDICT CLARA SUE	4574 ALTENWALD RD WAYNESBORO PA 17268
9	09-0C18.-019.-000000	Franklin	PA	BENEDICT DEREK ETAL	1883 RAGGED EDGE RD CHAMBERSBURG PA 17202
18	10-0D15.-009.-000000	Franklin	PA	BENEDICT IVAN H & BENEDICT RUBY E	3307 COLLEGE DRIVE CHAMBERSBURG PA 17202-9395
29, 30	19-0L12.-010.-000000	Franklin	PA	BIESECKER ROY B & BIESECKER SUSAN L	8410 WAYNE HIGHWAY WAYNESBORO PA 17268
30	19-0L12.-015.-000000	Franklin	PA	BIESECKER ROY B & BIESECKER SUSAN L	8410 WAYNE HIGHWAY WAYNESBORO PA 17268
30, 31	19-0L12.-050B-000000	Franklin	PA	BIESECKER ROY B & BIESECKER SUSAN L	8410 WAYNE HIGHWAY WAYNESBORO PA 17268
23, 24	10-0D30.-001A-000000	Franklin	PA	BRECHBILL BRIAN D & BRECHBILL MICHELLE L	3820 FETTERHOFF CHAPEL RD CHAMBERSBURG PA 17202
41	23-0Q17.-004C-000000	Franklin	PA	BRUCE I JR NEIBERT	14819 WAYNE HIGHWAY WAYNESBORO PA 17268
1	09-0C09.-072.-000000	Franklin	PA	BUCHERT JONATHAN L	217 E BETHESDA RD BARLESON TX 76028
6	09-0C18.-070A-000000	Franklin	PA	BYERS FRED J	1863 COLDSMITH ROAD SHIPPENSBURG PA 17257
41	23-0Q17.-004B-000000	Franklin	PA	CARR ANDREW L & CARR SHERRIE R	14808 WAYNE HIGHWAY WAYNESBORO PA 17268
13	10-0D05.-044.-000000	Franklin	PA	CENTERS LOWE'S HOME	1000 LOWES BLVD MOORESVILLE NC 28117
14	10-0D08.-036C-000000	Franklin	PA	CHAMBERSBURG AREA SCHOOL	511 SOUTH SIXTH STREET CHAMBERSBURG PA 17201
22	10-0D22.-056.-000000	Franklin	PA	CORDELL ROY M & CORDELL EMMA L	4690 FETTERHOFF CHAPEL ROAD CHAMBERSBURG PA 17202
39	23-0Q11.-018.-000000	Franklin	PA	DANIEL J & ESHLEMAN ELAINE J	13868 NORTH HOOVERS MILL ROAD WAYNESBORO PA 17268
39	23-0Q11.-018A-000000	Franklin	PA	DANIEL J & ESHLEMAN ELAINE J	13868 NORTH HOOVERS MILL ROAD WAYNESBORO PA 17268
30, 31, 32	19-0L12.-051.-000000	Franklin	PA	DC FARMS LLC	13689 DREAM HIGHWAY NEWBURG PA 17240
1, 2	09-0C09.-016.-000000	Franklin	PA	DILLER JOSHUA L & DILLER NICOLE M	4913 OLDE SCOTLAND ROAD SHIPPENSBURG PA 17257
2, 3	09-0C09.-017.-000000	Franklin	PA	DILLER ROGER L & DILLER JOYCE E	5505 OLDE SCOTLAND RD SHIPPENSBURG PA 17257
25, 26	19-0L08.-001.-000000	Franklin	PA	EBY MAHLON R & EBY DEBRA S	6685 ANTHONY HIGHWAY WAYNESBORO PA 17268
40	23-0Q17.-002.-000000	Franklin	PA	ESHLEMAN MERLIN D & ESHLEMAN RENEE	14089 NORTH HOOVERS MILL ROAD WAYNESBORO PA 17268
5, 6	09-0C14.-116.-000000	Franklin	PA	ETAL CHAMBERSBURG MALL REALTY LLC	150 GREAT NECK ROAD GREAT NECK NY 11021
5	09-0C14.-137.-000000	Franklin	PA	ETAL CHAMBERSBURG MALL REALTY LLC	150 GREAT NECK ROAD GREAT NECK NY 11021
5, 6	09-0C18.-069A-000000	Franklin	PA	ETAL CHAMBERSBURG MALL REALTY LLC	150 GREAT NECK ROAD GREAT NECK NY 11021
5, 6	09-0C19.-001.-000000	Franklin	PA	ETAL CHAMBERSBURG MALL REALTY LLC	150 GREAT NECK ROAD STE 304 GREAT NECK NY 11021
1	09-0C09.-015.-000000	Franklin	PA	ETTER ALAN O	3670 WHITE CHURCH RD CHAMBERSBURG PA 17202
41	23-0Q17.-084.-000000	Franklin	PA	FAHRNEY LESLIE D	915 PARK ST WAYNESBORO PA 17268
3, 4	09-0C14.-006B-000000	Franklin	PA	FARMS FORRESTER II	3162 WHITE CHURCH ROAD CHAMBERSBURG PA 17202
10	09-0C18.-030.-000000	Franklin	PA	FORRESTER FAMILY FARMS LLC	3162 WHITE CHURCH ROAD CHAMBERSBURG PA 17202
41	23-0Q17.-004E-000000	Franklin	PA	FOX MARY ANN	6977 IRON BRIDGE ROAD WAYNESBORO PA 17268
17, 18	10-0D15.-003.-000000	Franklin	PA	GARBER ROGER A & GARBER MARGARET L	2815 NEWCOMER ROAD CHAMBERSBURG PA 17202
4, 5	09-0C14.-016.-000000	Franklin	PA	GAYMAN KEVIN L & GAYMAN FAYE I	11132 TANYARD HILL RD ORRSTOWN PA 17244
5	09-0C14.-017A-000000	Franklin	PA	GAYMAN KEVIN L & GAYMAN FAYE I	11132 TANYARD HILL RD ORRSTOWN PA 17244
4	09-0C14.-019B-000000	Franklin	PA	GAYMAN KEVIN L & GAYMAN FAYE I	11132 TANYARD HILL RD ORRSTOWN PA 17244
23, 24	10-0D29.-019.-000000	Franklin	PA	GAYMAN MARK E	11742 GEHR RD WAYNESBORO PA 17268
24, 25	19-0L02.-042.-000000	Franklin	PA	GAYMAN MARK E	11742 GEHR RD WAYNESBORO PA 17268
24, 25	19-0L02.-041.-000000	Franklin	PA	GAYMAN MARK E & GAYMAN SALLY A	5460 STAMEY HILL ROAD WAYNESBORO PA 17268
10, 11, 12	10-0D05.-004.-000000	Franklin	PA	GBR LINCOLN HIGHWAY LIMITED	150 WHITE PLAINS ROAD TARRYTOWN NY 10591
12	10-0D05.-004.-AB0000	Franklin	PA	GBR LINCOLN HIGHWAY LIMITED	150 WHITE PLAINS ROAD TARRYTOWN NY 10591
27	19-0L07.-092.-000000	Franklin	PA	HESS HARLAN D & HESS CARRIE E	8200 HELMAN ROAD WAYNESBORO PA 17268
34, 35, 36	23-0Q06.-023.-000000	Franklin	PA	HORST ALBERT L & HORST BRENDA K	5967 TICK RIDGE RD WAYNESBORO PA 17268
19	10-0D15.-037.-000000	Franklin	PA	HORST IVAN D & HORST ELLEN M	2637 SOLLENBERGER DRIVE CHAMBERSBURG PA 17202
43, 44	10-0D15.-038.-000000	Franklin	PA	HOSTETTER JASON M & HOSTETTER ROSALIE J	2048 GUILFORD STATION ROAD CHAMBERSBURG PA 17202
4	09-0C14.-019.-000000	Franklin	PA	IESI PA BLUE RIDGE LANDFILL	PO BOX 399 SCOTLAND PA 17254
41	23-0Q17.-072.-000000	Franklin	PA	JACK E ETAL MARTIN	12574 POLKTOWN ROAD WAYNESBORO PA 17268

9A West
Attachment 6
Landowner List

Mapbook Page	Parcel	County	State	Owner Name	Mailing Address
34, 35	23-0Q06-.021-.000000	Franklin	PA	JOHN E N BLAIR	11611 PRICES CHURCH RD WAYNESBORO PA 17268
42	23-0Q17-.016-.000000	Franklin	PA	JONES SAMUEL A & JONES MANDY L	7583 LYONS ROAD WAYNESBORO PA 17268
2, 3	09-0C14-.001-.000000	Franklin	PA	KAUFFMAN AARON L	4220 OLDE SCOTLAND ROAD CHAMBERSBURG PA 17202
3	09-0C14-.006-.000000	Franklin	PA	KAUFFMAN AARON L	4220 OLDE SCOTLAND ROAD CHAMBERSBURG PA 17202
7, 8, 9	09-0C18-.015-.000000	Franklin	PA	KEITH H ETAL BENEDICT	3865 HENRY RD CHAMBERSBURG PA 17202
7	09-0C18-.063-.000000	Franklin	PA	LEMMA & O'CONNOR INVESTORS LLC	3272 ST ANDREWS DR CHAMBERSBURG PA 17202
14, 15	10-0D08-.133-.000000	Franklin	PA	LESHER RICHARD L & LESHER AGNES M	1126 CIDER PRESS ROAD CHAMBERSBURG PA 17202
32, 33	19-0L17-.019A-000000	Franklin	PA	LONG DANIEL S	6405 NUNNERY ROAD WAYNESBORO PA 17268
33, 34	23-0Q02-.016-.000000	Franklin	PA	LONG DANIEL S	6405 NUNNERY ROAD WAYNESBORO PA 17268
36, 37	23-0Q06-.016-.000000	Franklin	PA	MARTIN DENVER N & MARTIN KATRINA J	6973 NUNNERY ROAD WAYNESBORO PA 17268
12, 13	10-0D09-.001C-000000	Franklin	PA	MARTIN DONALD L & MARTIN DENISE M	1946 NEWCOMER RD CHAMBERSBURG PA 17202
17, 18	10-0D15-.011-.000000	Franklin	PA	MARTIN DONALD L & MARTIN DENISE M	1946 NEWCOMER ROAD CHAMBERSBURG PA 17202
23	10-0D22-.065-.000000	Franklin	PA	MARTIN DONALD L & MARTIN DENISE M	1946 NEWCOMER ROAD CHAMBERSBURG PA 17202
23, 24	10-0D23-.006-.000000	Franklin	PA	MARTIN DONALD L & MARTIN DENISE M	1946 NEWCOMER ROAD CHAMBERSBURG PA 17202
38	23-0Q11-.003-.000000	Franklin	PA	MARTIN JACK E & MARTIN EMILY L	12574 POLKTOWN ROAD WAYNESBORO PA 17268
37, 38	23-0Q11-.003B-000000	Franklin	PA	MARTIN JACK E & MARTIN EMILY L	12574 POLKTOWN ROAD WAYNESBORO PA 17268
40, 41	23-0Q17-.003-.000000	Franklin	PA	MARTIN LAVERNE & MARTIN ELLEN	14578 WAYNE HIGHWAY WAYNESBORO PA 17268
28, 29	19-0L07-.053-.000000	Franklin	PA	MARTIN MARLIN L & MARTIN CARRIE R	8686 PLEASANT RIDGE ROAD HARRISONVILLE PA 17228
31, 32	19-0L12-.049-.000000	Franklin	PA	MARTIN ROY S & MARTIN REGINA F	4913 SHADY LANE WAYNESBORO PA 17268
27, 28	19-0L07-.054-.000000	Franklin	PA	MARTIN STEPHEN L & MARTIN ESTHER N	6000 MANHEIM RD WAYNESBORO PA 17268
31, 32	19-0L17-.016A-000000	Franklin	PA	MELLOTT CHARLES W	9702 WAYNE HIGHWAY WAYNESBORO PA 17268
27	19-0L07-.038-.000000	Franklin	PA	MEYER RODNEY A	5413 MANHEIM ROAD WAYNESBORO PA 17268
42	23-0Q17-.035C-000000	Franklin	PA	MILLER MYRON J & MILLER FERN L	9180 GOODS DAM ROAD WAYNESBORO PA 17268
1	09-0C09-.012-.000000	Franklin	PA	MILTON E & STACEY R ROTZ (Rice Substation Site)	0 PINE STUMP ROAD CHAMBERSBURG PA 17202
27	19-0L07-.050C-000000	Franklin	PA	MORGAN ROBERT T & MORGAN JUDITH A	5516 MANHEIM ROAD WAYNESBORO PA 17268
10	09-0C18-.029-.000000	Franklin	PA	MOWER JOEL R	683 MOWER ROAD CHAMBERSBURG PA 17202-8154
10, 11	10-0D05-.051A-000000	Franklin	PA	MOWER JOEL R	683 MOWER ROAD CHAMBERSBURG PA 17202
17	10-0D15-.002-.000000	Franklin	PA	NITTERHOUSE COLBY S & NITTERHOUSE LEAH A	2479 NEWCOMER RD CHAMBERSBURG PA 17202
39	23-0Q11-.019-.000000	Franklin	PA	NORMAN J & DILLER BONNA J	20660 MILLERS CHURCH ROAD HAGERSTOWN MD 21742
29, 30	19-0L12-.053-.EX0000	Franklin	PA	ORPHANAGE BRETHERN UNITED	ORPHANAGE ROAD WAYNESBORO PA 17268
38	23-0Q11-.017-.000000	Franklin	PA	OWLS CLUB INCORPORATED	87 WEST MAIN STREET WAYNESBORO PA 17268
12	10-0D05-.044A-000000	Franklin	PA	PATRIOT FEDERAL CREDIT UNION	800 WAYNE AVENUE CHAMBERSBURG PA 17201
6, 7	09-0C18-.060A-000000	Franklin	PA	REIFF ELAM H & REIFF MARY Z	275 GOODHART RD SHIPPENSBURG PA 17257
14, 15, 16	10-0D08-.057-.000000	Franklin	PA	RICE ALLEN W & RICE LORI C	1430 HENRY LANE CHAMBERSBURG PA 17202
20, 21	10-0D22-.069-.000000	Franklin	PA	RICE FRED E & RICE DOREEN K	3210 CHURCH RD CHAMBERSBURG PA 17202
6	09-0C18-.068-.000000	Franklin	PA	ROTZ EDWARD & ROTZ MARLIN	205 MT UNION RD FAYETTEVILLE PA 17222
26, 27	19-0L07-.038A-000000	Franklin	PA	RUDOLPH JOHN V & RUDOLPH EUNICE JR	7270 BUTTERMILK ROAD WAYNESBORO PA 17268
27	19-0L07-.047A-000000	Franklin	PA	RUDOLPH LAMAR V & RUDOLPH EDNA F	5401 MANHEIM RD WAYNESBORO PA 17268
42	23-0Q17-.034-.000000	Franklin	PA	SCHINDEL KYLE F & SCHINDEL KELLY A	22032 ROCKY FORGE ROAD HAGERSTOWN MD 21740
15	10-0D08-.037-.000000	Franklin	PA	SMITH PROPERTIES LP	PO BOX 2013 CHAMBERSBURG PA 17202
14	10-0D08-.043-.000000	Franklin	PA	SMITH PROPERTIES LP	PO BOX 2013 CHAMBERSBURG PA 17201
28, 29	19-0L12-.010A-000000	Franklin	PA	STEIGER JOHN A & STEIGER ALLISON E	5465 HESS BENEDICT ROAD WAYNESBORO PA 17268
14	10-0D08-.036-.000000	Franklin	PA	STINE ALLEN A	867 CIDER PRESS ROAD CHAMBERSBURG PA 17202
37	23-0Q11-.002-.000000	Franklin	PA	STONER RONALD P & STONER DORIS M	12477 COLD SPRINGS RD WAYNESBORO PA 17268
23	10-0D29-.015-.000000	Franklin	PA	STRITE DANIEL R & STRITE DOREEN F	6032 BUTTERMILK RD WAYNESBORO PA 17268
25, 26	19-0L02-.040-.000000	Franklin	PA	STRITE DANIEL R & STRITE DOREEN F	6032 BUTTERMILK ROAD WAYNESBORO PA 17268
26	19-0L07-.036-.000000	Franklin	PA	STRITE DANIEL R & STRITE DOREEN F	6032 BUTTERMILK ROAD WAYNESBORO PA 17268

9A West
Attachment 6
Landowner List

Mapbook Page	Parcel	County	State	Owner Name	Mailing Address
41, 42	23-0Q17.-019.-000000	Franklin	PA	TIJANI TUNDE T	503 BROOKVIEW DRIVE GREENCASTLE PA 17225
36	23-0Q06.-026.-000000	Franklin	PA	TRADEMARK DEVELOPMENT CORP	9932 MENTZER GAP ROAD WAYNESBORO PA 17268
38	23-0Q11.-057.-000000	Franklin	PA	WEAGLEY JOSEPH N	6413 MARSH ROAD WAYNESBORO PA 17268
15, 16	10-0D08.-058.-000000	Franklin	PA	WENGER NEVIN P & WENGER RADELLA A	2249 NEWCOMER ROAD CHAMBERSBURG PA 17202
10	09-0C18.-098.-000000	Franklin	PA	WEST PENN POWER COMPANY (First Energy)	
8, 9, 10	09-0C18.-005.-000000	Franklin	PA	WHITE LOIS M	1406 WALKER ROAD CHAMBERSBURG PA 17202
8	09-0C18.-011.-000000	Franklin	PA	WILDESON KAREN S	2778 MONT ALTO ROAD CHAMBERSBURG PA 17202
16, 17	10-0D14.-019.-000000	Franklin	PA	WILLIS M LESHER PARTNERSHIP	1153 SWAMP FOX ROAD CHAMBERSBURG PA 17202
19, 20	10-0D22.-012.-000000	Franklin	PA	WILLIS M LESHER PARTNERSHIP	1153 SWAMP FOX ROAD CHAMBERSBURG PA 17202
21, 22	10-0D22.-024.-000000	Franklin	PA	WILLIS M LESHER PARTNERSHIP	1153 SWAMP FOX ROAD CHAMBERSBURG PA 17202
22, 23	10-0D29.-011.-000000	Franklin	PA	WILLIS M LESHER PARTNERSHIP	1153 SWAMP FOX ROAD CHAMBERSBURG PA 17202
9, 10	09-0C18.-121.-000000	Franklin	PA	WINGERT MARLIN & WINGERT MARILYN	1550 WALKER ROAD CHAMBERSBURG PA 17202
36	26-5A00.-004B-000000	Franklin	PA	ZAIGER JANE M	10329 WAYNE HIGHWAY WAYNESBORO PA 17268
41	23-0Q17.-043.-000000	Franklin	PA	ZEIGLER GERALD L & ZEIGLER JENNIFER S	14924 WAYNE HWY WAYNESBORO PA 17268
47	14000224	Washington	MD	BAKER PAUL A	22622 GARDENHOUR RD SMITHSBURG MD 21783
49, 50	07015593	Washington	MD	BROCROFT KENNELS LTD	12936 BRADBURY AVE SMITHSBURG MD 21783
44	09004629	Washington	MD	COOK CLARENCE W JR	22236 RINGGOLD PIKE HAGERSTOWN MD 21742
47	14000011	Washington	MD	FRUSHOUR BOYD E JR	22614 GARDENHOUR RD SMITHSBURG MD 21783
47, 48	07016956	Washington	MD	GARDENHOUR G WILLIAM III	22511 GARDENHOUR RD SMITHSBURG MD 21783
47, 48	07005237	Washington	MD	GARDENHOUR ORCHARDS INC	PO BOX 275 SMITHSBURG MD 21783
49	07001576	Washington	MD	GROVE RICHARD LEE	13001 ROWE RD SMITHSBURG MD 21783
45, 46	09005323	Washington	MD	HOSSETTER LEROY M	22001 GROVE RD HAGERSTOWN MD 21742
46, 47	14013822	Washington	MD	HUNTER SAMUEL C	13651 NEWCOMER RD HAGERSTOWN MD 21742
50	07000812	Washington	MD	MACE JAMES P	12908 BIKLE RD SMITHSBURG MD 21783
47	14006052	Washington	MD	MARTIN JOHN S &	22632 GARDENHOUR RD SMITHSBURG MD 21783
44, 45	09006087	Washington	MD	MESSLER LOUIS E	22235 RINGGOLD PIKE HAGERSTOWN MD 21742
45, 46	14006974	Washington	MD	NEWCOMER RICHARD A	13811 POPLAR GROVE RD HAGERSTOWN MD 21742
45, 46	14006982	Washington	MD	NEWCOMER RICHARD A	13811 POPLAR GROVE RD HAGERSTOWN MD 21742
50	07024967	Washington	MD	POTOMAC EDISON CO (First Energy)	TAX DEPT 800 CABIN HILL DR GREENSBURG PA 15601
50	07024975	Washington	MD	POTOMAC EDISON CO (First Energy)	TAX DEPT 800 CABIN HILL DR GREENSBURG PA 15601
42, 43	09011072	Washington	MD	SCHINDEL KYLE F	22032 ROCKY FORGE RD HAGERSTOWN MD 21742
43, 44	09014039	Washington	MD	SCHINDEL KYLE F	22032 ROCKY FORGE RD HAGERSTOWN MD 21742
48, 49	07015429	Washington	MD	STRITE FAMILY ENTERPRISES	21640 LEITERSBRG SMITHSBRG RD HAGERSTOWN MD 21742
48, 49	07019521	Washington	MD	STRITE FAMILY ENTERPRISES	21640 LEITERSBRG SMITHSBRG RD HAGERSTOWN MD 21742
49	07003080	Washington	MD	WINTERS ANNE C	2934 HAMAKER LANE SMITHSBURG MD 21783

ATTACHMENT 7

9A WEST PROJECT
ATTACHMENT 7
PRELIMINARY PERMIT MATRIX

Permit Jurisdiction	Status	Name of Permit, Approval, Review, License Type	Office/Agency Issuing Permit/ Approval/ Review	Review, Approval or Permit	Notes (When required)	Application Requirements	Estimated Application Submittal Date	Actual Application Submittal Date	Estimated Permit Issuance Date	Actual Permit Issuance Date
Federal										
Federal	Complete	Consultations under Section 7 of the Endangered Species Act PA - Pennsylvania Natural Diversity Inventory (PNDI) Coordination Review	U.S. Fish and Wildlife Service (USFWS), Northeast Region (State College, PA, and Chesapeake Bay, MD field office)	Concurrence	Requires agency consultation if Section 404 permit required or if there is potential to impact federally listed species or their habitat. For PA, required through the PNDI process, USFWS will be contacted to provide information on threatened and endangered (T&E) species that may be within the project area.	- PNDI Results - Habitat Assessment - Species Specific Habitat Report - Potential impacts	NA	2/25/2027	10/31/2018	7/8/2025
Federal	In Progress	Consultations under Section 7 of the Endangered Species Act MD - Standalone consultation		Concurrence	Requires agency consultation if Section 404 permit required or if there is potential to impact federally listed species or their habitat. Can be completed initially by conducting a USFWS Information for Planning and Conservation (IPaC) review online or via letter to the USFWS Field Office at Chesapeake Bay, MD.	- PNDI Results - Habitat Assessment - Species Specific Habitat Report - Potential impacts	6/1/2026	TBD	7/10/2026	TBD
Federal	Complete	FAA Notification (FAA Form 7460-1)	Federal Aviation Administration (FAA)	Notice of Proposed Construction	Must notify the FAA if structures will exceed 200 feet in height or if the structures are located within the distance to height ratio from the nearest point of the nearest FAA designated airport runway, including temporary use of cranes.	- Structure Heights and Elevations - Structure locations - Completion of Form 7460-1 (for each notice requirement)	NA	1/15/2025	NA	2/12/2025
Pennsylvania - State										
State	In Progress	Certificate of Public Convenience and Necessity (CPCN)	Pennsylvania Public Utility Commission (PAPUC)	Certificate	CPCN is authorized through the PAPUC in keeping with the requirements of 52 Pa. Code 57.72 for the siting and licensing of electric transmission lines.	- Routing Study - PUC Application & Exhibits - Waivers/Exemption requests	5/15/2026	TBD	10/16/2026	TBD
State	Not Started	PADEP JPA or GPs Wetlands and Water Obstructions (Chapter 105)	PADEP Bureau of Waterways Engineering and Wetlands (Southwest Regional Office)	Permit	PADEP permits are required for activities in, along, or across watercourses, floodways, or bodies of water (incl. wetlands). At this time, it is hoped that General Permits and waivers may be applicable for this project, to avoid a Joint Permit Application, but this will depend on final pole locations and access road impacts.	- Chp 105 App. or JPA - Wetland Delineation - Temporary and Permanent Wetland/Stream Impact Summary - Mitigation Evaluation	4/27/2027	TBD	9/26/2027	TBD
State	Not Started	Floodplain Permit (Chapter 106)	PADEP Bureau of Waterways Engineering and Wetlands (Southwest Regional Office)	Permit	PADEP floodplain permits are required for activities in, along, or across watercourses, floodways, or bodies of water (incl. wetlands).	- Chp 105/106 App. - Permanent/Temp. Floodplain Assessment - Location and Plan figures	4/27/2027	TBD	9/26/2027	TBD
State	Not Started	NPDES Permit and Post-Construction Stormwater Review (Chapter 102)	PADEP Bureau of Waterways Engineering and Wetlands (Southwest Regional Office)	Notice/Permit	A permit and Erosion and Sediment (E&S) Control Plan are required when construction activities will include earth disturbances greater than or equal to one acre. An E&S Control Plan and Individual NPDES Permit will be required for the project. The process will require a review by the local County Conservation District (CCD) and approval by PADEP.	- Notice of Intent (NOI)/App. - Stormwater Mgmt Study - Stormwater calculations - E&S Control plan text and detailed figures	11/20/2026	TBD	7/26/2027	TBD
State	Complete	Submerged Lands License Agreement (SLLA)	PADEP Bureau of Waterways Engineering and Wetlands (Southwest Regional Office)	License/ Agreement	Projects that cross over/under a state-designated navigable waterway requires a SLLA with the PA DEP.	- SLLA Form/App. - Location figure - Plan and Profiles Figure	NA	6/9/2020	NA	12/28/2020
State	Complete	Pennsylvania Natural Diversity Inventory (PNDI) Review - Pennsylvania Fish and Boat Commission (PFBC)	Pennsylvania Fish and Boat Commission (PFBC)	Concurrence	As required through the PNDI process, PFBC may need to be contacted to provide information on threatened and endangered (T&E) species that may be within the project area.	- PNDI Results - Habitat Assessment - Species Specific Habitat Report - Potential impacts	NA	2/25/2025	NA	4/23/2026
State	Complete	Pennsylvania Natural Diversity Inventory (PNDI) Review - Pennsylvania Game Commission (PGC)	Pennsylvania Game Commission (PGC)	Concurrence	As required through the PNDI process, PGC will be contacted to provide information on T&E species that may be within the project area.	- PNDI Results - Habitat Assessment - Species Specific Habitat Report - Potential impacts	NA	2/25/2025	NA	2/26/2025
State	Complete	Pennsylvania Natural Diversity Inventory (PNDI) Review - Pennsylvania Department of Conservation and Natural Resources (DCNR)	Pennsylvania Department of Conservation and Natural Resources (DCNR)	Concurrence	As required through the PNDI process, DCNR will be contacted to provide information on T&E species that may be within the project area.	- PNDI Results - Habitat Assessment - Species Specific Habitat Report - Potential impacts	NA	2/25/2025	NA	2/26/2025

9A WEST PROJECT
ATTACHMENT 7
PRELIMINARY PERMIT MATRIX

Permit Jurisdiction	Status	Name of Permit, Approval, Review, License Type	Office/Agency Issuing Permit/ Approval/ Review	Review, Approval or Permit	Notes (When required)	Application Requirements	Estimated Application Submittal Date	Actual Application Submittal Date	Estimated Permit Issuance Date	Actual Permit Issuance Date
State	Complete	Cultural Resources Consultation under Section 106 of the NHPA or State Law PHMC Cultural Resources Consultation	Pennsylvania Historical and Museum Commission (PHMC)	Clearance	A PHMC review of the potential cultural resources in the project area will be required due to the level of earth disturbance and potential for Section 106 NHPA compliance. PHMC and Transource entered into a Memo Of Understanding (MOU).	- Background review - Field Survey - Background and Field Survey Report - Summary of Historic Properties Affected - Photos and Figures	NA	Various	NA	Archaeological Clearance 1/30/2019 MOU extension 4/5/2024
State	Not Started	PennDOT I-81 Highway Occupancy Permit (HOP) Permits	Pennsylvania Department of Transportation (PennDOT)	Permit	May require coordination with PennDOT for state roadways. Nonlimited access roadways may not require crossing permits.	- Applications - Location Figures - Plan and Profile figures - Online Submittal/Reg. Certification	12/11/2026	TBD	2/3/2027	TBD
Pennsylvania - Local										
Local	Not Started	Chapter 102 E&S Plan	Franklin County Conservation District (CCD)	Notice/Permit and Approval	An approved E&S Plan and an individual NPDES Permit (instead of a General Permit) are required for this project due to high quality or exceptional value waters being crossed by the project.	- Notice of Intent (NOI)/App. - Stormwater Mgmt Study - Stormwater calculations - E&S Control plan text and detailed figures	11/20/2026	TBD	7/26/2027	TBD
Maryland - State										
State	In Progress	Certificate of Public Convenience and Necessity (CPCN)	Maryland Power Plant Research Program (PPRP) (Maryland Department of Natural Resources – MD DNR)	Review/ Approval/ Authorization	CPCN must be obtained from the Maryland Public Service Commission (PSC). The Power Plant Siting Act of 1971, augmented by the Electric Utility Industry Restructuring Act of 1999, provides for a consolidated review of CPCN applications in Maryland.	- Routing Study - CPCN Application & Exhibits - Waivers/Exemption requests	NA	NA	NA	6/30/2020
State	Not Started	NPDES General Permit for Stormwater Associated with Construction Activity	MDE	Notice/ Permit	File Notice of Intent (NOI). Must first submit an erosion and sediment control plan to the appropriate approval authority (e.g., the local soil conservation district). Required for soil disturbance of one acre or more. Coverage under this General Permit should be pursued unless MDE advises an individual permit is necessary. (Also, citizens can review the NOI during the public notification period and request that an individual permit be required.)	- Notice of Intent (NOI)/App. - Stormwater Mgmt Study - Stormwater calculations - E&S Control plan text and detailed figures	7/26/2027	TBD	9/26/2027	TBD
State	Complete	Consultation for Cultural Resources - Section 106 of the NHPA or State Law	Maryland Department of Planning, Maryland Historical Trust (MDSHPO)	Clearance	Serves as the SHPO in Maryland. Required for any activity that receives federal funding or approval, or requires a federal permit or license.	- Background review - Field Survey - Background and Field Survey Report - Summary of Historic Properties Affected - Photos and Figures	NA	Various	NA	7/27/2018 1/22/2020 for realignment
State	Complete	Maryland Natural Heritage Program Consultation for State-Listed Species	MD DNR, Wildlife and Heritage Section	Concurrence	Environmental review for rare, threatened and endangered species, unique natural communities, and other significant natural resources.	- Request Letter - Habitat Assessment - Species Specific Habitat Report - Potential impacts	NA	12/18/20218	NA	1/8/2019
State	Complete	Highway Occupancy Permits (HOP)	Maryland State Highway Administration (MSHA)	Permit	Coordination with the MSHA will be required for access, lane closure, utility, and other permits needed that may impact Maryland roadways. Most public roadways in Maryland are either State or County owned/maintained.	- Applications - Location Figures - Plan and Profile figures	NA	8/9/2025	NA	8/12/2025
State	Not Started	Highway Access Permits (HAP)	MSHA	Permit	Coordination with the MSHA will be required for access off of a state highway.	- Applications - Location Figures - Access Plans	2/1/2019	TBD	5/1/2019	TBD
Maryland - Local										
Local	In Progress	Erosion/Sediment Control and Stormwater Management Plan Approval	Washington County Soil Conservation Districts (SCD)	Review/ Approval	Plans must meet state soil erosion and sediment control standards and specifications.	- SWP3/E&S Control plan text and figures	NA	Various	NA	Approved, 4/6/2021 pending PE signature and purchase of forest mitigation credits.

9A WEST PROJECT
 ATTACHMENT 7
 PRELIMINARY PERMIT MATRIX

Permit Jurisdiction	Status	Name of Permit, Approval, Review, License Type	Office/Agency Issuing Permit/ Approval/ Review	Review, Approval or Permit	Notes (When required)	Application Requirements	Estimated Application Submittal Date	Actual Application Submittal Date	Estimated Permit Issuance Date	Actual Permit Issuance Date
State	In Progress	Development of a Forest Stand Delineation and Forest Conservation Plan	Washington County Planning and Zoning	Review/ Approval	Reviewed and approved with the Soil Erosion and Sedimentation Plan.	- Request Letter/Agreement - Forest Impact Summary -Forest Mitigation Plan	NA	Various	NA	Approved 4/6/2021, pending purchase of forest mitigation credits and plat.

ATTACHMENT 8

ATTACHMENT 8
LIST OF GOVERNMENTAL AGENCIES, MUNICIPALITIES AND OTHER PUBLIC
ENTITIES RECEIVING THE APPLICATION

RECIPIENTS OF FULL SITING APPLICATION

State Agencies

Pennsylvania Department of Environmental Protection
P.O. Box 2063
Market Street State Office Building
Harrisburg, PA 17105-2063
Attn: Office of Field Operations

Office of Consumer Advocate
555 Walnut Street
5th Floor, Forum Place
Harrisburg, PA 17101-1925

Bureau of Investigation and Enforcement
Pennsylvania Public Utility Commission
P.O. Box 3265
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17105-3265

Office of Small Business Advocate
Forum Place
555 Walnut Street, 1st Floor
Harrisburg, PA 17101

Pennsylvania Department of Transportation
Secretary
Room 1200
Transportation and Safety Building
Harrisburg, Pennsylvania 17120

Pennsylvania Historical & Museum Commission
Chairman
300 North Street
Harrisburg, PA 17120

County Agencies

Franklin County Planning Department
272 North Second Street
Chambersburg, PA 17201
Contact: Quentin Clapper, Planning Director

Municipalities

Greene Township
1145 Garver Lane
Chambersburg, PA 17202
Contact: Todd E. Burns, Chairman

Guilford Township
115 Spring Valley Road
Chambersburg, PA 17202
Contact: Don Clapper, Chairman

Quincy Township
7575 Mentzer Gap Road
Waynesboro, PA 17268
Contact: Alan Peck, Supervisor

Borough of Waynesboro
55 E. Main Street
Waynesboro, PA 17268
Contact: Jason Stains, Borough Manager

Washington Township
11798 Buchanan Trail East
Waynesboro, PA 17268
Contact: Scott Stine, Chairman

Public Utilities

West Penn Power Company
341 White Pond Drive
Akron, OH 44320

Potomac Edison Co.
341 White Pond Drive
Akron, OH 44320

Pennsylvania Electric Company (PENELC)
341 White Pond Drive
Akron, OH 44320

Rockies Express Pipeline, LLC
4200 West 115th Street
Suite 350
Leawood, KS 66211

Texas Eastern Transmission, L.P.
5400 Westheimer Court
Houston, TX 77056

Columbia Gas Transmission Corp.
700 Louisiana Street
Houston, TX 77002

Dominion Energy
5000 Dominion Boulevard
Glen Allen, VA 23060

NOTICE OF FILING RECIPIENTS

Federal Agencies

U.S. Army Corps of Engineers
Baltimore District-(Pennsylvania Section)
Regulatory Branch
1631 South Atherton Street
Suite 101
State College, PA 16801-6260
Contact: Wade Chandler, Chief Pennsylvania Section

U.S. Fish and Wildlife Service
PA Field Office Northeast Region
110 Radnor Road, Suite 101
State College, PA 16801
Contact: Jodie Mamuscia, Field Office Supervisor

U.S. Environmental Protection Agency – Region 3
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2029
Contact: Amy Van Blarcom-Lackey, Regional Administrator

State Agencies

Pennsylvania Department of Transportation
Keystone Building
400 North Street., Fifth Floor
Harrisburg PA 17120
Contact: Mike Carroll, Secretary of Transportation

Pennsylvania Department of Conservation and Natural Resources
400 Market Street, 6th floor
Rachel Carson State Office Building
Harrisburg, PA 17105
Contact: Seth Cassell, State Forester

Pennsylvania Department of Environmental Protection
Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, PA 17110
Contact: Robert DiGilaro, Regional Director

Pennsylvania Fish and Boat Commission
1601 Elmerton Avenue
Harrisburg, PA 17106
Contact: Timothy D. Schaeffer, Executive Director

Pennsylvania Game Commission
8627 William Penn Highway
Southcentral Region
Huntingdon, PA 16652
Contact: Seth Mesoras, Director

Pennsylvania Department of Agriculture
2301 North Cameron Street
Region 6, Room 403
Harrisburg, PA 17110
Contact: Russell Redding, Secretary of Agriculture

Pennsylvania Historical & Museum Commission
400 North Street, 2nd floor
Commonwealth Keystone Building
Harrisburg, PA 17120
Contact: Andrea L. MacDonald, Bureau Director

Landowners

Milton E. Rotz
Stacey R. Rotz
0 Pine Stump Road
Chambersburg, PA 17202

Jonathan L. Buchert
217 E. Bethesda Road
Barleson, TX 76028

Alan O. Etter
3670 White Church Road
Chambersburg, PA 17202

Joshua L. Diller
Nicole M. Diller
4913 Olde Scotland Road
Shippensburg, PA 17257

Roger L. Diller
Joyce E. Diller
5505 Olde Scotland Road
Shippensburg, PA 17257

Aaron Kauffman
4220 Olde Scotland Road
Chambersburg, PA 17202

Forrester Farms II
3162 White Church Road
Chambersburg, PA 17202

IESI PA Blue Ridge Landfill
P.O. Box 399
Scotland, PA 17254

Kevin L. Gayman
Faye I. Gayman
11132 Tanyard Hill Road
Orrstown, PA 17244

Chambersburg Mall Realty LLC, et al
150 Great Neck Road
Great Neck, NY 11021

Edward Rotz
Marlin Rotz
205 Mt. Union Road
Fayetteville, PA 17222

Fred J. Byers
1863 Coldsmith Road
Shippensburg, PA 17257

Elam H. Reiff
Mary Z. Reiff
275 Goodhart Road
Shippensburg, PA 17257

Lemma & O'Connor Investors LLC
3272 St. Andrews Drive
Chambersburg, PA 17202

Keith H. Benedict, et al
3865 Henry Road
Chambersburg, PA 17202

Karen S. Wildeson
2778 Mont Alto Road
Chambersburg, PA 17202

Lois M. White
1406 Walker Road
Chambersburg, PA 17202

Derek Benedict et al
1883 Ragged Edge Rd
Chambersburg, PA 17202

Marlin Wingert
Marilyn Wingert
1550 Walker Road
Chambersburg, PA 17202

Joel R. Mower
683 Mower Road
Chambersburg, PA 17202

Forrester Family Farms LLC
3162 White Church Road
Chambersburg, PA 17202

GBR Lincoln Highway Limited
150 White Plains Road
Tarrytown, NY 10591

Patriot Federal Credit Union
800 Wayne Avenue
Chambersburg, PA 17202

Lowe's Home Centers
1000 Lowes Boulevard
 Mooresville, NC 28117

Donald L. Martin
Denise M. Martin
1946 Newcomer Road
Chambersburg, PA 17202

Guilford Water Authority
115 Spring Valley Road
Chambersburg, PA 17202

Chambersburg Area School District
511 South Sixth Street
Chambersburg, PA 17201

Allen A. Stine
867 Cider Press Road
Chambersburg, PA 17202

Smith Properties
P.O. Box 2013
Chambersburg, PA 17202

Richard L. Leshner
Agnes M. Leshner
1126 Cider Press Road
Chambersburg, PA 17202

Allen W. Rice
Lori C. Rice
1430 Henry Lane
Chambersburg, PA 17202

Nevin P. Wenger
Raedella A. Wenger
2249 Newcomer Road
Chambersburg, PA 17202

Willis M. Leshner Partnership
1153 Swamp Fox Road
Chambersburg, PA 17202

Colby S. Nitterhouse
Leah A. Nitterhouse
2479 Newcomer Road
Chambersburg, PA 17202

Roger A. Garber
Margaret L. Garber
2815 Newcomer Road
Chambersburg, PA 17202

Donald L. Martin
Denise M. Martin
1946 Newcomer Road
Chambersburg, PA 17202

Ivan H. Benedict
Ruby E. Benedict
3307 College Drive
Chambersburg, PA 17202

Ivan D. Horst
Ellen M. Horst
2637 Sollenberger Drive
Chambersburg, PA 17202

Jason M. Hostetter
Rosalie J. Hostetter
2048 Guilford Station Rd
Chambersburg, PA 17202

Fred E. Rice
Doreen K. Rice
3210 Church Road
Chambersburg, PA 17202

Roy M. Cordell
Emma L. Cordell
4690 Fetterhoff Chapel Rd
Chambersburg, PA 17202

Daniel W. Benedict
Clara Sue Benedict
4574 Altenwald Road
Waynesboro, PA 17268

Daniel R. Strite
Doreen F. Strite
6032 Buttermilk Road
Waynesboro, PA 17268

Donald L. Martin
Denise M. Martin
1946 Newcomer Road
Chambersburg, PA 17202

Brian D. Brechbill
Michelle L. Brechbill
3820 Fetterhoff Chapel Rd
Chambersburg, PA 17202

Mark E. Gayman
11742 Gehr Road
Waynesboro, PA 17268

Jonathan P. Baker
Rosalie M. Baker
9380 Five Forks Road
Waynesboro, PA 17268

Mark E. Gayman
Sally A. Gayman
5460 Stamy Hill Road
Waynesboro, PA 17268

Mahlon R. Eby
Debra S. Eby
6685 Anthony Highway
Waynesboro, PA 17268

John V. Rudolph
Eunie Rudolph, Jr.
7270 Buttermilk Road
Waynesboro, PA 17268

Rodney A. Meyer
5413 Manheim Road
Waynesboro, PA 17268

Lamar V. Rudolph
Edna F. Rudolph
5401 Manheim Road
Waynesboro, PA 17268

Harlan D. Hess
Carrie E. Hess
8200 Helman Road
Waynesboro, PA 17268

Robert T. Morgan
Judith A. Morgan
5516 Manheim Road
Waynesboro, PA 17268

Stephen L. Martin
Esther N. Martin
6000 Manheim Road
Waynesboro, PA 17268

Marlin L. Martin
Carrie R. Martin
8686 Pleasant Ridge Road
Harrisonville, PA 17228

John A. Steiger
Allison F. Steiger
5465 Hess Benedict Road
Waynesboro, PA 17268

Roy B. Biesecker
Susan L. Biesecker
8410 Wayne Highway
Waynesboro, PA 17268

Brethren United Orphanage
6596 Orphanage Road
Waynesboro, PA 17268

Roy S. Martin
Regina F. Martin
4913 Shady Lane
Waynesboro, PA 17268

DC Farms LLC
13689 Dream Highway
Newburg, PA 17240

Charles W. Mellott
9702 Wayne Highway
Waynesboro, PA 17268

Daniel S. Long
6405 Nunnery Road
Waynesboro, PA 17268

Albert L. Horst
Brenda K. Horst
5967 Tick Ridge Rd
Waynesboro, PA 17268

John E.N. Blair
11611 Prices Church Road
Waynesboro, PA 17268

Trademark Development Corp.
9932 Mentzer Gap Road
Waynesboro, PA 17268

Jane M. Zaiger
10329 Wayne Highway
Waynesboro, PA 17268

Denver N. Martin
Katrina J. Martin
6973 Nunnery Road
Waynesboro, PA 17268

Ronald P. Stoner
Doris M. Stoner
12477 Cold Springs Rd.
Waynesboro, PA 17268

Jack E. Martin
Emily L. Martin
12574 Polktown Road
Waynesboro, PA 17268

Joseph N. Weagley
6413 Marsh Road
Waynesboro, PA 17268

Owls Club Incorporated
87 West Main Street
Waynesboro, PA 17268

Daniel J. Eshleman
Elaine J. Eshleman
13868 N. Hoovers Mill Rd
Waynesboro, PA 17268

Norman J. Diller
Bonna J. Diller
20660 Millers Church Rd
Hagerstown, MD 21742

Merlin D. Eshleman
Renee Eshleman
14089 N. Hoovers Mill Rd
Waynesboro, PA 17268

Laverne Martin
Ellen Martin
14578 Wayne Highway
Waynesboro, PA 17268

Leslie Fahrney
915 Park Street
Waynesboro, PA 17268

Mary Ann Fox
6977 Iron Bridge Road
Waynesboro, PA 17268

Jack F. Martin et al
12574 Polktown Road
Waynesboro, PA 17268

Bruce I. Neibert Jr.
14819 Wayne Highway
Waynesboro, PA 17268

Andrew L. Carr
Sherri R. Carr
14808 Wayne Highway
Waynesboro, PA 17268

Gerald L. Zeigler
Jennifer S. Zeigler
14924 Wayne Hwy
Waynesboro, PA 17268

Tunde T. Tijani
503 Brookview Drive
Greencastle, PA 17225

Samuel A. Jones
Mandy L. Jones
7583 Lyons Road
Waynesboro, PA 17268

Kyle E. Schindel
Kelly A. Schindel
22032 Rocky Forge Road
Hagerstown, MD 21740

Myron J. Miller
Fern L. Miller
9180 Goods Dam Road
Waynesboro, PA 17268

Clarence W. Cook Jr.
22236 Ringgold Pike
Hagerstown, MD 21742

Louise E. Messler
22235 Ringgold Pike
Hagerstown, MD 21742

Leroy M. Hostetter
22001 Grove Road
Hagerstown, MD 21742

Richard A. Newcomer
13811 Poplar Grove Road
Hagerstown, MD 21742

Samuel C. Hunter
13651 Newcomer Road
Hagerstown, MD 21742

John S. Martin
22632 Gardenhour Road
Smithsburg, MD 21783

Paul A. Baker
22622 Gardenhour Road
Smithsburg, MD 21783

Boyd E. Frushour Jr.
22614 Gardenhour Road
Smithsburg, MD 21783

Gardenhour Orchards Inc.
P.O. Box 275
Smithsburg, MD 21783

William G. Gardenhour III
22511 Gardenhour Road
Smithsburg, MD 21783

Strite Family Enterprises
21640 Leitersburg Smithsburg Rd
Hagerstown, MD 21742

Richard Lee Grove
13001 Rowe Road
Smithsburg, MD 21783

Anne C. Winters
2934 Hamaker Lane
Smithsburg, MD 21783

Brocroft Kennels LTD
12936 Bradbury Ave
Smithsburg, MD 21783

Potomac Edison Co (First Energy)
Tax Dept
800 Cabin Hill Dr
Greensburg, PA 15601

James P. Mace
12908 Bikle Road
Smithsburg, MD 21783

ATTACHMENT 9

ATTACHMENT 9
LIST OF GOVERNMENTAL AGENCIES, MUNICIPALITIES AND OTHER PUBLIC
ENTITIES CONTACTED

Federal Agencies

U.S. Army Corps of Engineers
Baltimore District-(Pennsylvania Section)
Regulatory Branch
1631 South Atherton Street
Suite 102
State College, PA 16801
Contact: Wade Chandlers, Chief PA Section

US Fish and Wildlife Service
PA Field Office Northeast Region
110 Radnor Rd
Suite 101
State College, PA 16801
Contact: Lora Lattanzi, Project Leader

U.S. Environmental Protection Agency – Region 3
1650 Arch Street
Mail Code: 3RA00
Philadelphia, PA 19103
Contact: Shawn Garvin, Regional Administrator

U.S. Department of Agriculture
National Resource Conservation Service
359 East Park Drive, Suite 2
Harrisburg, PA 17111
Contact: Hathaway Jones, Management Analyst

State Agencies

Pennsylvania Department of Conservation and Natural Resources
400 Market Street, 6th floor
Rachel Carson State Office Building
Harrisburg, PA 17105
Contact: Ellen Shultzabarger, Division Chief

Pennsylvania Department of Environmental Protection
Southcentral Regional Office
909 Elmerton Ave.
Harrisburg, PA 17110
Contact: Joseph Adams, Regional Director
Pennsylvania Fish and Boat Commission

1601 Elmerton Ave.
Harrisburg, PA 17106
Contact: John Arway, Executive Director

Pennsylvania Game Commission
8627 William Penn Highway
Southcentral Region
Huntingdon, PA 16652
Contact: Bradley J. Meyers, Director

Pennsylvania Department of Agriculture
2301 North Cameron Street
Suite G-6
Harrisburg, PA 17110
Contact: Daniel Naylor, Supervisor; Douglas M. Wolfgang, Director

Pennsylvania Historical & Museum Commission
400 North Street, 2nd floor
Commonwealth Keystone Building
Harrisburg, PA 17120
Contact: Andrea L. MacDonald

County/Municipal Agencies

Franklin County Planning Department
218 North Second Street
Chambersburg, PA 17201
Contact: Phil Tarquino, Director;

Southampton Township
705 Municipal Drive
Shippensburg, PA 17257
Contact: Maria Misner, Planning & GIS; Greg Richardson, Supervisor; Paul Witter, Chairman

Greene Township
1145 Garver Lane
Scotland, PA 17254
Contact: Todd Burns, Township Supervisor; Dan Bachman, Zoning Officer; Gregory Lambert, Township Engineer; Shawn Corwell, Township Supervisor

Guilford Township
115 Spring Valley Road
Chambersburg, PA 17202
Contact: Don Clapper, Chairman/Board of Supervisors; Wayne Statler, Zoning Officer

Quincy Township
7575 Mentzer Gap Rd.
Waynesboro, PA 17268
Contact: Kerry Brumbaugh, Chairman; Travis Schooley

Washington Township
13013 Welty Rd.
Waynesboro, PA 17268
Contact: Michael Christopher, Township Manager; Jeff Geesamen, Assistant Township Manager

Waynesboro Borough
5 E. Main Street
Waynesboro, PA 17268
Contact: Jason Stains, Borough Manager; Dan Sheffler, Code Enforcement Officer

Chambersburg Area School District
435 Stanley Avenue
Chambersburg, PA 17201
Contact: Matthew Varner, Director of Facilities

Elected Officials

Senator Richard Alloway via Chad Reichard, Chief of Staff
33rd District
Harrisburg Office
172 Main Capitol
Harrisburg, PA 17120

Senator Doug Mastriano
33rd District
Harrisburg Office
170 Main Capitol
Harrisburg, PA 17120

State Representative Rich Irvin
81st District
209 Ryan Office Building
PO Box 202081
Harrisburg, PA 17120

State Representative Paul Schemel
90th District
Room 121B, East Wing
PO Box 202090
Harrisburg PA 17120-2090

State Representative Chad Reichard
90th District
B-16 Main Capitol
PO Box 202090
Harrisburg PA 17120-2090

State Representative Stan Saylor via Chad Weaver, Chief of Staff
94th District
Capitol Office
245 Main Capitol Building
Harrisburg, PA 17120

Franklin County Commissioner Dean Horst
272 North Second Street
Chambersburg, PA 17201

State Representative Robert Kaufmann
89th District
Rm 312 Main Capitol
PO Box 202089
Harrisburg, PA 17120-2089

State Senator Scott Wagner via Jon Hopcraft, Chief of Staff
28th District
Senate Box 203028
Harrisburg, PA 17120

State Representative Kristin Phillips-Hill
93rd District
Room 123B, East Wing
PO Box 202093
Harrisburg PA 17120-2093

U.S. Rep. Scott Perry via Rob Reilly, Deputy Chief of Staff
4th District
2209 East Market Street
York, PA 17402

U.S. Rep. Bill Shuster via Nancy Bull, Constituent Services
9th District
100 Lincoln Way East, Suite B
Chambersburg, PA 17201

ATTACHMENT 10

Attachment 10
Transource Pennsylvania

EXAMINATION

A complete copy of the Application for the 9A West Project is available for examination during ordinary business hours at the following locations:

Alexander Hamilton Memorial Free Library

45 E Main Street

Waynesboro, PA 17268

Mont Alto Campus Library (Penn State Library)

1 Campus Drive

Mont Alto, PA 17237

Coyle Free Library

102 North Main Street

Chambersburg, PA 17201

ATTACHMENT 11

ATTACHMENT 11
ELECTRIC AND MAGNETIC FIELDS POLICY AND PRACTICES

Electric and Magnetic Fields Policy and Practices
of Transource Pennsylvania and Transource Maryland

Introduction

Electric and magnetic fields (EMF) are everywhere. Virtually all human beings in industrialized countries are exposed to them most of the time. Electric and magnetic fields are produced by household wiring and appliances, cell phones, and by all other electric equipment.

One of the many sources of electric and magnetic fields are the electric lines needed to power today's modern society. In order to meet their customers' needs by providing service that is reliable, economical, and as safe as possible, Transource Pennsylvania and Transource Maryland foster communication with customers and employees regarding EMF, keep well-informed about worldwide scientific studies and developments related to EMF, and participate in EMF research through their relationship with American Electric Power and Great Plains Energy affiliates, and their membership and engagement in industry associations.

Measures for Mitigating EMF Impacts

Transource Pennsylvania and Transource Maryland employ a variety of standards and practices to mitigate the EMF impact of their transmission facilities, and to address public concerns about EMF produced by power lines. These practices can be classified into three general categories – informational, technical and line siting – all reflecting the principles of precautionary measures and prudent avoidance, which are applied when the associated costs are low or negligible.

a. Informational

The informational practices include communicating with customers, employees, and the general public regarding EMF, following closely the EMF scientific developments, and participating in and sponsoring EMF research. In this regard, Transource Pennsylvania and

Transource Maryland (through their affiliate American Electric Power Service Corporation) are members of the Electric Power Research Institute (EPRI), a non-profit organization that, among other activities and areas of research, sponsors studies to enhance the understanding of EMF health effects, as well as methods to mitigate the EMF impact of electric transmission facilities.

These informational practices focus on enhancing public understanding about EMF. For example, and depending on specific circumstances, public information about EMF may highlight the fact that EMF exist not only near electric utility lines but also around electrical wiring in homes and electric appliances, sometimes with considerably greater personal exposures. Furthermore, they explain that electric and magnetic fields decrease, at certain points dramatically, the greater the distance between the source and the point where the field's strength is measured (commonly in kilovolts per meter (kV/m) for electric fields and gauss, or milligauss (mG), for magnetic fields). A greater understanding of the fact that in typical transmission lines both electric and magnetic field levels drop sharply from the centerline to the edge of the right-of-way (ROW), and continue to drop with distance, is helpful and reassuring information for customers, the general public, and employees, as is knowledge that a specific line's field levels are well within the limits specified in industry standards, such as The Institute of Electrical and Electronics Engineers (IEEE) Standard C95.6TM-2002 (R2007), which sets the safety levels with respect to human exposure to electromagnetic fields.

Finally, the companies conduct EMF measurements on a case-by-case basis, free of charge, upon request from property owners who are directly-affected by existing facilities, and have concerns about the EMF health effects or impact on medical devices.

b. Technical

Transource Pennsylvania and Transource Maryland EMF mitigation practices in the technical category are based on the companies' engagement in EMF scientific developments and research, as well as their compliance with applicable industry standards such as IEEE Std C95.6 and the National Electrical Safety Code (NESC) Rule 232C.

The companies' line design practices take into consideration their facilities' electric and magnetic fields, and their compliance with these standards. In situations where further mitigation measures are determined to be appropriate based on a case-by-case review and evaluation, practical means for reducing ground-level EMF exposures or concerns regarding such exposures include direct communication and educational meetings, field measurements, using particular conductor configurations and/or phase arrangements (such as a compact and/or delta configuration of line conductors, or arranging the phases of a double-circuit line to achieve most EMF cancellation), increasing conductor ground clearances beyond those based on industry standards, and reducing electric fields by employing various screening techniques, depending on the particular circumstances.

c. Line Siting

In siting new lines, the route selection process considers proximity to residences, schools, daycares, hospitals, and other community facilities. Consideration of these features in the route development and selection process ultimately supports the identification of a route that has the least overall impact on land use in the area. At the same time, consideration of the proximity of the line to these features also inherently reduces potential EMF exposure.

In summary, the companies strive to employ precautionary measures to achieve the prudent avoidance of electromagnetic fields effect, employing, where appropriate or as necessary, mitigation practices with low or negligible additional costs.

ATTACHMENT 12



Transmission Field Services – Transmission Forestry

Transmission Vegetation Management Program (TVMP)

Effective Date: 7/31/2025

Supersedes TVMD-0001 Rev. 22

Description: Describes how AEP Transmission ensures compliance with the North American Electric Reliability Corporation Reliability Standard FAC-003-5

Note: Printed copies of this document are uncontrolled and may be obsolete. This document has been prepared by, and is the property of, American Electric Power Company, Inc., is intended for AEP use only, is not to be used for any purpose detrimental to AEP's interest, and is not to be furnished to, or copied or reproduced by, parties not affiliated with the AEP System without the express written consent of AEP, and is to be returned upon request.

Content Owner: Ben Bradburn	© 2006–2025 American Electric Power Company, Inc.	Rev. 23	TVMD-0001
			Page 1 of 27

Document Control

Preparation

Prepared By	Title	Signature	Date
Emmett W. Albertson	Trans Sys Forestry Coord Sr, Transmission Forestry	 Signed by: AED2E873868441C...	6/23/2025 1:41 PM EDT
Ben Bradburn	Trans Sys Forestry Coord Staff, Transmission Forestry	 DocuSigned by: FC7559A0528E4C3...	11:09 AM EDT
David W. Daniels	Engineer Prin, NERC And OT Cyber Engineering	 DocuSigned by: 5C29661CD3014C2...	6/23/2025 9:18 AM PDT
Travis A. Dickmeyer	Utility Forester, Transmission Forestry	 Signed by: 7ACD94A3D9FF41E...	6/23/2025 1:18 PM EDT
Erik J. Fletcher	Trans Sys Forestry Coord Sr, Transmission Forestry	 DocuSigned by: 264C54DE41994A3...	6/23/2025 11:22 AM EDT
Connor W. Grooms	Engineer, Trans Line Eng PJM Central	 Signed by: C2DF9A9F5889489...	6/23/2025 1:11 PM EDT
Richard L. Karber	Trans Sys Forestry Coord Staff, Transmission Forestry	 DocuSigned by: C79F60D537BB44A...	6/23/2025 11:40 AM EDT
Edward C. Kusel	NERC Compliance Spec, EDS Compliance And Process	 Signed by: 0D804EA23D2C4A9...	6/23/2025 11:42 AM EDT
Colby G. Norgaard	Utility Forester Sr, Transmission Forestry	 Signed by: 740E8E9AE5E6416...	6/23/2025 1:30 PM EDT
Benjamin L. Thorp III	Trans Sys Forestry Coord Staff, Transmission Forestry	 DocuSigned by: 68B80FF091864DD...	6/23/2025 1:20 PM EDT
Emily G. Walker	Utility Forester Assc, Transmission Forestry	 Signed by: B1587253C07C450...	6/26/2025 7:46 AM EDT

Review

Reviewed By	Title	Signature	Date
Orlando De La Garza	Transmission Forestry Mgr, Transmission Forestry	 DocuSigned by: 5A8735EB5009460...	10:19 PM EDT



Reviewed By	Title	Signature	Date
Terry A. Fuller	Engineer Staff, Gen New Project Development	Signed by: <i>Terry Fuller</i> 27B67ADBC22F44B...	7/1/2025 8:56 AM EDT

Approval

Approved By	Title	Signature	Date
David R. Ball	SVP Transmission System Operations, AEP Transmission Admin	Signed by: <i>David R Ball</i> 6B3D6D95BDDA4F8...	7/1/2025 1:24 PM EDT
Brian L. Ellis	Dir Trans Systems Ops Engineering, Trans Operation Reliability	DocuSigned by: <i>Brian Ellis</i> 4F22686D27894FA...	7/17/2025 12:57 PM EDT
Matt Miller	Dir Gen Engineering, VP Eng Services	DocuSigned by: <i>Matt Miller</i> 80302E248EDB499...	7/1/2025 9:30 AM EDT
Kevin B. Patton	Dir Vegetation Mgmt TFS, Transmission Forestry	DocuSigned by: <i>Kevin B Patton</i> 2558195B5BA84DF...	7/1/2025 8:58 AM EDT
Archie D. Pugh	VP Trans Field Services, Trans Field Services East	DocuSigned by: <i>Archie Pugh</i> DA98617C68CB40E...	7/6/2025 6:48 AM EDT
Matthew S. Veith	Mng Dir Trans System Ops Engineeri, Trans Operation Reliability	Signed by: <i>Matthew S Veith</i> F70DC187C9DF408...	7/16/2025 10:07 AM EDT

Implementation

Effective Date	7/31/2025
Review Frequency (Years)	1
Retention Period (Years)	5
Option to Build Class	N/A
Audience	Line Engineering, Line Stds, Generation, TFS, Forestry

Review Cycle

Version	Description	Review Cycle	Retention Period	Review Date
1	Reviewed with Changes to Ver. 0.	Annual	3 Yrs	1/16/2006
2	Reviewed with Changes to Ver. 1 and 2.	Annual	3 Yrs	3/12/2007
5	Reviewed with Changes to Ver. 3, 4, and 5.	Annual	3 Yrs	5/6/2008
8	Reviewed with Changes to Ver. 6.	Annual	5 Yrs	5/26/2009
9	Reviewed with Changes to Ver. 8.	Annual	5 Yrs	7/27/2010
10	Reviewed with Changes to Ver. 9.	Annual	5 Yrs	7/21/2011
11	Reviewed with Changes to Ver. 10.	Annual	5 Yrs	7/12/2012
12	Reviewed with Changes to Ver. 11.	Annual	5 Yrs	7/15/2013
13	Reviewed with Changes to Ver. 12.	Annual	5 Yrs	7/18/2014
14	Reviewed with Changes to Ver. 13.	Annual	5 Yrs	7/17/2015
15	Reviewed with Changes to Ver. 14.	Annual	5 Yrs	7/8/2016
16	Reviewed with Changes to Ver. 15.	Annual	5 Yrs	7/21/2017
17	Reviewed with Changes to Ver. 16.	Annual	5 Yrs	7/25/2019
18	Reviewed with Changes to Ver. 17.	Annual	5 Yrs	7/27/2020
19	Reviewed with Changes to Ver. 18.	Annual	5 Yrs	7/21/2021
20	Reviewed with Changes to Ver. 19.	Annual	5 Yrs	8/31/2022
21	Reviewed with Changes to Ver. 20.	Annual	5 Yrs	7/31/2023
22	Reviewed with Changes to Ver. 21.	Annual	5 Yrs	7/31/2024
23	Reviewed with Changes to Ver. 22.	Annual	5 Yrs	7/31/2025

Revision History

Version	Description	Prepared By	Reviewed By	Approved By	Effective Date
1	Added Appendixes A and B.	H.R. Jones, Principal Engineer	-	J.E. Schechter, Mgr., Trans. Line Asset Engineering	1/16/2006
2	Added Appendix C.	H.R. Jones, Principal Engineer	-	J.E. Schechter, Mgr., Trans. Line Asset Engineering	10/2/2006
3	Added Revision History.	H.R. Jones, Principal Engineer	-	J.E. Schechter, Mgr., Trans. Line Asset Engineering	3/12/2007
3	Revised Appendix C from Version 2. Clarified video text associated with aerial patrols, page 8.	H.R. Jones, Principal Engineer	-	J.E. Schechter, Mgr., Trans. Line Asset Engineering	3/22/2007
4	Revised Maintenance Clearances in Table I, page 11. Removed Appendix A from Revision 0 and inserted a new Appendix A. Removed Appendix B from Revision 0 and renamed Appendix C from Revision 0 to Appendix B.	H.R. Jones, Principal Engineer	-	J.E. Schechter, Mgr., Trans. Line Asset Engineering	11/9/2007
5	Revised Maintenance Clearances text page 10. Revised Appendix B.	H.R. Jones, Principal Engineer	-	J.E. Schechter, Mgr., Trans. Line Asset Engineering	5/6/2008
6	Added third level of review/approval. Added Internal Mailing list. Added Standard mapped to TVMP. Revised Contents and page numbers. Revised Maintenance Clearances, pages 13 and 14. Revised Imminent Threat, pages 10 and 11. Revised Appendix A. Added new Appendix C. Added new Appendix D. Added hyperlinks.	S. J. Reaves, Forestry Program Coordinator I	J.E. Schechter, Mgr., Trans. Line Asset Engineering	D.R. Boezio, Dir., Trans. Asset Engineering	6/15/2009

Version	Description	Prepared By	Reviewed By	Approved By	Effective Date
8	Revised Version History. Revised Personnel Qualifications, Appendix D. Included References on Contents Page. Revised Subject Matter Experts (SMEs).	S.J. Reaves, Forestry Program Coordinator I	J.E. Schechter, Mgr., Trans. Line Asset Engineering	D.R. Boezio, Dir., Transmission Asset Engineering	7/31/2009
9	Revised Reviewer and Approval List. Revised TVMP Internal Mailing List. Changed Landowner and Community Relations section to Land Owner Relationships and Environmental Sustainability. Revised Subject Matter Experts (SMEs). Revised Personnel Directly Involved.	D.K. Killingsworth, Engineer I	J.E. Momme, Dir., Trans. Line Projects Engineering	D.J. Recker, Managing Dir., Trans. Projects Engineering	7/30/2010
10	Reformatted Document to match Transmission Forum Model TVMP.	D.K. Killingsworth, Engineer I	J.E. Momme, Dir. Trans. Line Projects Engineering	D.J. Recker, Managing Dir. Trans. Projects Engineering	7/30/2011
11	Revised Reviewer and Approval List. Revised TVMP Internal Mailing List. Changed Land Owner Relationships and Environmental Sustainability to Land Owner Relationships and revised. Revised Subject Matter Experts (SMEs). Revised Personnel Directly Involved. Removed Appendix C. Revised Personnel Qualifications. Revised New Construction Clearing. Added Document Team.	K.B. Patton, Utility Forester II	J.E. Momme, Dir., Trans. Line Projects Engineering	D.J. Recker, Managing Dir., Trans. Projects Engineering	7/31/2012

Version	Description	Prepared By	Reviewed By	Approved By	Effective Date
12	Revised Document Team. Revised Subject Matter Experts (SMEs). Revised Appendix A Imminent Threat Communication and Procedures. Revised Appendix B Imminent Threat Communication. Revised Appendix C TVMP Internal Mailing List. Revised Forestry Patrol Procedures. Revised Imminent Threat Report Form.	K.B. Patton, System Forestry Coordinator	J.E. Momme, Dir., Trans. Line Projects Engineering	D.J. Recker, Managing Dir., Trans. Projects Engineering	7/30/2013
13	Revised Document Team. Revised Signature page. Updated References. Revised entire document to align with changes to NERC Standard FAC-003-3. Revised Personnel Directly Involved. Moved Right-of-Way Clearance Guidelines to Appendix A. Updated Appendix C: Subject Matter Experts. Revised Appendix D TVMP Internal Mailing List.	Lynn Hayward, Lead Engineer	J.E. Momme, Dir., Trans. Line Projects Engineering	J.E. Momme, Dir., Trans. Line Projects Engineering	7/31/2014
14	Revised Document Team. Updated References. Removed Imminent Threat Procedure. Updated MVCD distances.	Lynn Hayward, Senior Engineer	J.E. Momme, Dir., Trans. Line Projects Engineering	J.E. Momme, Dir., Trans. Line Projects Engineering	7/31/2015
15	Revised Document Team. Updated MVCD distances per new FAC-003-4 Standard. Minor wording changes. Updated Distribution List.	Lynn Hayward, Senior Engineer	J.E. Momme, Dir., Trans. Line Projects Engineering	J.E. Momme, Dir., Trans. Line Projects Engineering	7/31/2016
16	Updated Document Team. Minor wording changes. Updated Distribution List.	Lynn Hayward, Senior Engineer	J.E. Momme, Dir., Trans. Line Projects Engineering	J.E. Momme, Dir., Trans. Line Projects Engineering	7/31/2017

Version	Description	Prepared By	Reviewed By	Approved By	Effective Date
17	Return to an annual review cycle. Addition of LiDAR and valley span methodology	John Booze, Senior Engineer	K. Patton, Mgr., Transmission Forestry	J.E. Momme, Dir., Trans. Line Projects Engineering Walter A. Sherry, Dir., Trans Forestry & TFS Perf Mgmt	7/31/2019
18	Updated Document Team. Minor wording changes. Updated Distribution List.	John Booze, Engineer Senior	K. Patton, Mgr., Transmission Forestry	J.E. Momme, Dir., Trans. Line Projects Engineering Walter A. Sherry, Dir., Trans Forestry & TFS Perf Mgmt	7/31/2020
19	Updated Document Team. Minor updated to inspection language. Updated Distribution List	John Booze, Engineer Senior	K. Patton, Mgr., Transmission Forestry	J.E. Momme, Dir., Trans. Line Projects Engineering Walter A. Sherry, Dir., Trans Forestry & TFS Perf Mgmt	7/31/2021
20	Updated Document Team and Referenced Documents. Updated language for consistency. Updated Distribution List.	Alexandra Huey, Engineer Senior	Benjamin Bradburn, Supervisor, Region Forestry, Transmission Forestry	J.E. Momme, Dir., Trans. Line Projects Engineering Kevin Patton, Dir., Vegetation Management	8/31/2022
21	Updated Document Team and Referenced Documents. Updated language for consistency. Incorporated changes to comply with FAC- 003-5. Updated Distribution List.	Alexandra Huey, Engineer Senior	Orlando DeLa Garza, Transmission Forestry Mgr, Transmission Forestry	Scott Dimpfl, Dir., Trans. Line Engineering Kevin Patton, Dir., Vegetation Management	7/31/2023
22	Updated Document Team and Referenced Documents. Updated language for consistency. Updated Distribution List.	Richard L. Karber, Supervisor	Orlando DeLa Garza, Transmission Forestry Mgr, Transmission Forestry	Scott Dimpfl, Dir., Trans. Line Engineering Kevin Patton, Dir., Vegetation Management	7/31/2024



Version	Description	Prepared By	Reviewed By	Approved By	Effective Date
23	Updated Reviewers and Approvers. Updated Referenced Documents. Replaced LiDAR with Remote Sensing verbiage. Updated Appendix B: Subject Matter Experts. Updated Appendix C: TVMP Internal Distribution List.	Ben Bradburn, Forestry Coord Staff	Orlando De La Garza, Transmission Forestry Mgr, Transmission Forestry	David R. Ball, SVP Transmission System Operations Brian L. Ellis, Dir Trans Systems Ops Engineering Matt Miller, Dir Gen Engineering Kevin B. Patton, Dir Vegetation Mgmt TFS Archie D. Pugh, VP Trans Field Services Darren A. Shepard, VP Energy Delivery Engineering	7/31/2025

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1.0 References

AEP Transmission Vegetation Management Documents are located in the [Published TVMD Documents](#) library. Tree Care Industry Association documents can be obtained from the [Tree Care Industry Association](#).

Title	Date	Revision
<i>AEP Forestry: Vegetation Management Goals, Procedures & Guidelines for Distribution and Transmission Line Clearance Operations</i>	2022	6
AEP A Safe & Reliable Right-of-Way	2023	N/A
AEP TVMD-0003 <i>Vegetation Inspection and Patrol Practices</i>	2024	5
AEP TVMD-0009 <i>Imminent Threat Communication and Procedures</i>	2025	9
AEP TVMD-0011 <i>Vegetation Management Guideline for Maximum Conductor Sag and Blowout</i>	2023	3
AEP TVMD-0014 <i>Risk Assessment and Procedures</i>	2025	8
NERC FAC-003-5 Transmission Vegetation Management	2023	5
TCIA <i>Tree, Shrub, and Other Woody Plant Management - Standard Practices, Part 1 – Pruning</i>	2014	ANSI A300 (Part 1) – 2008 (R2014)
TCIA <i>Tree, Shrub, and Other Woody Plant Management - Standard Practices, Part 7 – Integrated Vegetation Management (IVM), a. Electric Utility Rights-of-way</i>	2012	ANSI A300 (Part 7) – 2012
TCIA <i>The American National Standard for Arboriculture Operations – Safety Requirements</i>	2017	ANSI Z133.1-2017

2.0 The Transmission Vegetation Management Program

2.1 Scope

The American Electric Power (AEP) Transmission Vegetation Management Program (TVMP) has been developed and implemented to ensure compliance with the North American Electric Reliability Corporation (NERC) Reliability Standard FAC-003-5. This program is intended to maintain a reliable electric transmission system by using a defense-in-depth strategy to manage vegetation located on transmission rights-of-way (ROW) and minimize encroachments from vegetation located adjacent to the ROW, thus preventing the risk of those vegetation-related outages that could lead to Cascading.



This program applies to AEP's transmission and generation Facilities as defined in FAC-003-5. Facilities referred to as FAC-003 applicable are:

- Transmission lines operated at 200 kV and above ($\geq 200\text{kV}$);
- Other lower-voltage transmission or generation lines operated below 200kV that if lost or degraded could result in instances of instability, Cascading, or uncontrolled separation that may adversely impact reliability and that have been identified by the Planning Coordinator or Transmission Planner, per its Planning Assessment of the Near-Term Transmission Planning Horizon;
- Each overhead transmission line identified above, located outside the fenced area of the switchyard, station or substation, and any portion of the span of the transmission line that is crossing the substation fence;
- Overhead generation lines that extend greater than one mile beyond the fenced area of the generating station switchyard to the point of interconnection with a Transmission Facility or that do not have a clear line of sight and are operated at 200 kV and above ($\geq 200\text{kV}$).

AEP's Transmission Forestry Operations group manages and executes the program for vegetation along FAC-003 applicable transmission and generation rights-of-way in portions of eleven states. This is accomplished through the implementation and oversight of a comprehensive, systematic vegetation management program.

2.2 Vegetation Management Objectives

The TVMP is an integral part of providing for the safe, reliable operation of the AEP transmission system. The key measure of success is zero reportable vegetation-related outages on FAC-003 applicable Facilities.

For FAC-003 applicable Facilities, AEP's intent is to clear the ROW to the maximum appropriate width by removing all woody-stemmed vegetation within the ROW¹ and potential hazard trees.

AEP conducts inspections (aerial and targeted ground inspections) and develops annual vegetation management work plans to ensure the program objective is achieved in the most efficient, environmentally sound, and economical manner practicable.

AEP strives to manage its ROW in accordance with its Safety and Health Philosophy: "No aspect of operations is more important than the health and safety of people. Our customers' needs are met in harmony with environmental protection."

Additional considerations include:

- Minimizing adverse environmental impacts.
- Complying with laws and regulations.
- Achieving cost efficiency.
- Maintaining a positive relationship with landowners and the public.

¹Upon completion of vegetation maintenance.

2.3 Terms and Definitions

Cascading: “The uncontrolled successive loss of System Elements triggered by an incident at any location. Cascading results in widespread electric service interruption that cannot be restrained from sequentially spreading beyond an area predetermined by studies.”²

Facility: “A set of electrical equipment that operates as a single Bulk Electric System Element (e.g., a line, a generator, a shunt compensator, transformer, etc.).”²

Hazard tree: A structurally unsound tree that could strike a target (such as electric facilities) when it fails.³

Inspector: Individual assigned with the responsibility of evaluating vegetation clearances inside and adjacent to the Transmission ROW.

Maximum Sag: The conductor’s greatest sag when the line is at maximum operating temperature (MOT), which reduces the distance from conductor to ground.

Minimum Vegetation Clearance Distance (MVCD): “The calculated minimum distance stated in feet (meters) to prevent flash-over between conductors and vegetation, for various altitudes and operating voltages.”²

Near-Term Transmission Planning Horizon: “The transmission planning period that covers Year One through five.”²

Remediation: The evaluation of a point of interest, and if necessary, taking action to resolve the identified vegetative issues.

Right-of-Way (ROW): “The corridor of land under a transmission line(s) needed to operate the line(s). The width of the corridor is established by engineering or construction standards as documented in either construction documents, pre-2007 vegetation maintenance records, or by the blowout standard in effect when the line was built. The ROW width in no case exceeds the applicable Transmission Owner’s or applicable Generator Owner’s legal rights but may be less based on the aforementioned criteria.”²

Sustained Outage: “The deenergized condition of a transmission line resulting from a fault or disturbance following an unsuccessful automatic reclosing sequence and/or unsuccessful manual reclosing procedure.”²

Vegetation Inspection: “The systematic examination of vegetation conditions on a ROW and those vegetation conditions under the applicable Transmission Owner’s or applicable Generator Owner’s control that are likely to pose a hazard to the line(s) prior to the next planned maintenance or inspection. This may be combined with a general line inspection.”²

WECC Transfer Path: The transmission paths monitored by the WECC (Western Electric Coordinating Council) regional Reliability coordinators. Note: AEP does not operate in the WECC region.

²North American Electric Reliability Corporation, *Glossary of Terms Used in NERC Reliability Standards* (Atlanta, GA: North American Electric Reliability Corporation, 2021), accessed July 5, 2024, http://www.nerc.com/pa/Stand/Glossary%20of%20Terms/Glossary_of_Terms.pdf.

³Tree Care Industry Association, ANSI A300 (Part 7) – 2012, *Tree, Shrub, and Other Woody Plant Management - Standard Practices*, Part 7 – Integrated Vegetation Management (IVM), a. Electric Utility Rights-of-way, 58.

3.0 FAC-003-5 Requirements

3.1 Requirement 1 (Manage Vegetation to Prevent Encroachments into the MVCD on All Applicable FAC-003 Lines)

AEP maintains records of sustained outages from all causes. All outages determined to be caused by vegetation are investigated by appointed AEP employees, and information is obtained specific to the line designation, voltage, date and time of the disturbance, species, location relative to the line, NERC outage category, and duration of the outage if it was sustained. Sustained transmission line outages that are determined to have been caused by vegetation are reported to the Regional Entities or their designees. The supporting document AEP uses to identify vegetation outage information is a periodic report generated from an internal AEP system. The report lists vegetation-related outages by Regional Entities. The report lists the names of circuits where outages occurred; operated voltages; the date, time, and duration of the outage; and a description of the cause of the outage.

AEP conducts biannual vegetation inspections of all applicable Facilities. During these inspections, AEP inspects the vegetation-to-conductor clearances and identifies vegetation on and along transmission ROWs that could pose a reliability risk to the Facility. Aerial inspections, except where the Federal Aviation Administration (FAA) or other ordinance prohibits flight, cover substantial portions of the transmission system to identify areas where remediation may be needed to prevent vegetation from interfering with circuit operation. Ground inspections are used to supplement aerial inspections and where aerial inspections are restricted.

A confirmed encroachment into the MVCD as identified in NERC Standard FAC-003-5 Minimum Vegetation Clearance Distances (MVCD) (see [Table 2](#)) observed in real time during the inspection, is reported to the Transmission Forestry Manager. The Vegetation Imminent Threat Incident Report and supporting documentation are submitted to the Manager. These events are reported to the Regional Entity in accordance with NERC policy.

3.2 Requirement 2 (Reserved for Future Use)

3.3 Requirement 3 (Maintenance Strategy)

For FAC-003 applicable Facilities, AEP's fundamental strategy is to clear the ROW to the maximum appropriate width by removing all woody-stemmed vegetation within the ROW⁴ and potential hazard trees.

AEP considers conductor location and movement, the MVCD, and vegetation growth between maintenance activities when developing its maintenance plan. Maintenance does not occur on a rigid "cycle" basis; rather, the maintenance technique and schedule are driven by the condition of the vegetation observed during biannual inspections. Vegetation-to-conductor distances are based on completed work meeting or exceeding the clearance distances in Column B of [Table 2](#).

⁴Upon completion of vegetation maintenance.

AEP Transmission Forestry's goal is to convert the vegetative cover types on its transmission ROW to low growing grass-forbs-herb covers that inhibit the germination, establishment, and growth of most incompatible vegetative species.

The AEP transmission vegetation management program emphasizes tree removal to promote long-term vegetation control and to minimize future maintenance expenditures. Additionally, AEP foresters and contractor personnel inspect for hazard trees during scheduled maintenance. Hazard trees are addressed on a case-by-case basis by the responsible forester.

Manual clearing is employed where the terrain is too steep or rough for mechanized equipment, where the vegetation is too tall for herbicide applications and aerial application is not possible, or where the immediate removal of vegetation is necessary. Contract employees use chainsaws to selectively remove vegetation from the ROW.

Mechanical clearing may be employed where terrain and access allow and where the vegetation is not too large for mechanical equipment to handle, where the vegetation is too tall for herbicide applications, where aerial application is not possible, or where the immediate removal of vegetation is necessary.

When tree removal or clearing is not practical or obtainable, tree pruning may be employed. AEP Transmission Forestry may use tree growth regulators (TGRs) to reduce the frequency and amount that trees must be pruned.

Mechanical pruning operations employ a variety of boom-mounted saws on vehicles capable of traversing the ROW. Access, terrain, and tree heights influence the type of equipment used. When applicable, ROW may be maintained with an aerial saw. These rights-of-way possess one or more of the following characteristics: steep, mountainous terrain; limited access; or prohibitive costs to prune by conventional means.

Manual and mechanical clearing without follow-up herbicide applications do not control the root systems of incompatible vegetation and could increase the future maintenance requirements in the areas where it is employed. Aerial, high-volume foliar, low-volume foliar, ultra-low-volume foliar, cut stubble, stump, basal, and granular applications may be employed. United States EPA-registered herbicides are applied by licensed pesticide application businesses contracted by AEP.

3.4 Requirement 4 (Vegetation Condition That is Likely to Cause a Fault at any Moment)

A vegetation condition that is likely to cause a fault at any moment is considered an imminent threat to the reliable operation of a FAC-003 applicable Facility. An imminent threat must be mitigated within 24 hours of confirmation by AEP Transmission Forestry. This condition may be characterized by either vegetation or hazard trees approaching or threatening to approach the MVCD. For locations found during inspections, routine work, or other observations, where a potential imminent threat condition is confirmed



by AEP Transmission Forestry, an immediate notification⁵ to the local dispatching authority is required. This will allow for mitigating actions, such as removal of the vegetation, temporary reduction in circuit rating, or switching the circuit out of service, until the imminent threat is relieved.

Refer to TVMD-0009 *Imminent Threat Communication and Procedures*.

3.5 Requirement 5 (Vegetation Constraint May Lead to an Encroachment Into the MVCD)

Restrictions may include refusals by property owners to access or perform work, orders to stop work by local authorities, restrictions by federal and/or state agencies, or legal injunctions. The maintenance strategy in section 3.3 defines the expected extent of clearing. If the clearance specifications cannot be achieved at the time of scheduled maintenance, AEP shall implement corrective action. This corrective action may include more-frequent maintenance or more-frequent inspections to monitor the risk to the system. Corrective actions are documented in AEP's restriction log.

3.6 Requirement 6 (Annual Inspections)

3.6.1 Vegetation Inspections

Aerial inspections are conducted to identify areas of the transmission system where remediation may be needed to prevent vegetation from interfering with circuit operation except where the FAA or other ordinance prohibits flight. Ground inspections are used to supplement aerial inspections and where aerial inspections are restricted. Aerial and ground inspections aid in the development of the vegetation maintenance work plan.

3.6.2 Forestry Inspection Procedures

3.6.2.1 Inspection of the AEP Transmission System

AEP shall perform biannual inspections on 100% of all FAC-003 applicable Facilities. Inspections provide Transmission Foresters a view of ROW conditions and the effectiveness of the vegetation management program.

3.6.2.2 Inspection Schedule

Inspection schedules are summarized in [Table 1](#).

⁵ NOPR RM-12-4-000, page 50, #85 (10/18/2012)—NERC explains that the obligation to notify without intentional delay generally "can be understood to include an immediate (within 1 hour of observation) communication notwithstanding a safety issue to personnel, other immediate priority maintenance functions to ensure reliability or system stability, or communication equipment failures that precludes immediate communication."

Table 1: Inspection Schedule

	Fall Inspection	Spring Inspection
Inspection	Aug 15–Nov 15	By May 21 In areas at higher elevation or with later vegetation emergence, this date may be extended to June 4.
Remediation	A1 Condition: addressed within 24 hours of confirmation.	A1 Condition: addressed within 24 hours of confirmation.
	P1 Condition: complete by March 1 of the following year.	P1 Condition: complete by May 30. In areas at higher elevation or with later vegetation emergence, this date may be extended to June 14.

3.6.2.3 Remote Sensing

Remote sensing will be conducted on approximately one-quarter of the FAC-003 applicable system annually. Remote sensing data will be used as a preventative control by providing a digital verification of aerial and ground inspection results and methodology.

3.6.3 Exceptions

Aerial inspections may be interrupted by force majeure, such as severe storms or floods. If patrols are interrupted, the time extension to complete the inspection shall not exceed the duration of the time AEP was prevented from performing the vegetation inspection.

3.7 Requirement 7 (Annual Work Plan)

AEP shall complete 100% of its annual vegetation work plan miles on FAC-003 applicable Facilities to ensure no vegetation encroachments occur within the MVCD. Modifications to the work plan in response to changing conditions or to findings from vegetation inspections may be made (provided they do not allow encroachment of vegetation into the MVCD) and must be documented. The work plan starts on January 1 and ends on December 31.

AEP has a process for documenting the vegetation management activities to ensure the following:

- Scheduled work is properly identified and listed in the work plan.
- Adjustments to the work plan are properly noted and recorded. This plan may be modified for the following reasons:
 - Change in expected growth rate/environmental factors
 - Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner
 - Rescheduling work between growing seasons



- Crew or contractor availability/Mutual assistance agreements
 - Identified unanticipated high priority work
 - Weather conditions/Accessibility
 - Permitting delays
 - Land ownership changes/Change in land use by the landowner
 - Emerging technologies
- Maintenance methods employed are noted for each type of work on each project listed in the work plan.
 - Work quality inspections are performed, and work completed meets company specifications.

4.0 Appendix A: ROW Clearance Guidelines

When performing maintenance, the objective for locations on spans with less than 100 feet vertical clearance at maximum sag from conductor to ground is removal of all woody-stemmed vegetation to the appropriate width⁶, leaving the cleared area of the ROW populated with grasses and herbaceous growth. Specific land use areas, such as orchards and road screens, may require special conditions or modifications to the standard clearances as shown in [Table 2](#). In locations where AEP has a restriction from the stated clearances, additional inspections and maintenance activities will be performed as needed. For these areas, when maintenance activities have been completed, it is important to evaluate the final clearance, taking into consideration the maximum sag and movement of the conductor.

Some terrain in the AEP footprint contains long spans and/or valley spans. A long span is greater than 1,500 feet from structure to structure. A valley span goes from ridge/hilltop to ridge/hilltop where the vertical distance between conductor and ground is greater than 100 feet anywhere within the span. The risk profile for a long span could include an embedded knoll, ridge, or side slope. For these spans, vegetation is managed to meet the clearances of [Table 2](#). If trees below the 100-foot clearance boundary at their mature height will violate clearance requirements, they shall be removed.

Table 2: Transmission Line Clearance Guidelines at Conductor Maximum Sag and Movement

Column A	Column B	Column C	Column D	Reference ANSI	Reference MVCD ⁷
Nominal Voltage (kV phase to phase)	AEP Desired Clearance Between Conductor and Vegetation	AEP Trigger Distance Between Conductor and Vegetation for P1 Conditions	AEP Trigger Distance Between Conductor and Vegetation for A1 Conditions	ANSI Minimum Approach Distances for Qualified Line Clearance Personal	Over Sea Level up to 5,000 ft.
765kV	45'	30'	16'	27'04"	12'05"
500kV	45'	30'	15'	19'00"	7'07"
345kV	30'	15'	10'	13'02"	4'08"
230kV	30'	15'	10'	7'11"	4'05"

⁶Upon completion of vegetation maintenance.

⁷The distances in this Table are the minimums required by FAC-003-5 Industry Advisory Minimum Vegetation Clearance Distances (MVCD) updated August 12, 2015, to prevent Flash-over; however, prudent vegetation maintenance practices dictate that substantially greater distances will be achieved at the time of vegetation maintenance.



Column A	Column B	Column C	Column D		Reference ANSI	Reference MVCD ⁷
Nominal Voltage (kV phase to phase)	AEP Desired Clearance Between Conductor and Vegetation	AEP Trigger Distance Between Conductor and Vegetation for P1 Conditions	AEP Trigger Distance Between Conductor and Vegetation for A1 Conditions		ANSI Minimum Approach Distances for Qualified Line Clearance Personal	Over Sea Level up to 5,000 ft.
161kV ⁸	25'	10'	5'		6'00"	3'00"
138kV ⁸	25'	10'	5'		5'02"	2'06"
115kV ⁸	25'	10'	5'		4'06"	2'01"
88kV ⁸	25'	10'	5'		4'06"	1'08"
69kV ⁸	25'	10'	5'		4'02"	1'02"

⁸Such lines are applicable to this standard only if Planning Coordinator or Transmission Planner has determined such per its Planning Assessment of the Near-Term Transmission Planning Horizon.

5.0 Appendix B: Subject Matter Experts

FAC-003-5 Requirement	Description	Content Owner	SMEs	Reviewers
R1.–M1.	Manage vegetation to prevent encroachments into MVCD on all FAC-003 applicable lines	Richard L. Karber Trans Sys Forestry Coord Staff, Transmission Forestry 260-897-8090 rlkarber@aep.com	Connor W. Grooms Engineer, Trans Line Eng PJM Central 614-271-5013 cwgrooms@aep.com David W. Daniels Engineer Prin, NERC And OT Cyber Engineering 614-716-2191 dwdaniels2@aep.com	Orlando De La Garza Transmission Forestry Mgr, Transmission Forestry 325-657-2749 odelagarza@aep.com Kevin Patton Dir Vegetation Mgmt TFS, Transmission Forestry 614-933-2308 kbpattson@aep.com
R2.–M2.	(Reserved for Future Use)			
R3.–M3.	Documented maintenance strategies	Richard L. Karber Trans Sys Forestry Coord Staff, Transmission Forestry 260-897-8090 rlkarber@aep.com	Todd C. McMillan Engineer Staff, TransLineEngrg DesignStandards 540-759-5561 tcmcmillan@aep.com Connor W. Grooms Engineer, Trans Line Eng PJM Central 614-271-5013 cwgrooms@aep.com David W. Daniels Engineer Prin, NERC And OT Cyber Engineering 614-716-2191 dwdaniels2@aep.com	Terry A. Fuller Engineer Staff, New Project Development 614-716-1462 tafuller@aep.com Randy L. Calhoun Gen NERC & OT Cyber Compl Mgr, VP Eng Services 614-716-2194 rlcalhoun@aep.com Brian L. Ellis Dir Trans Systems Ops Engineering, Trans Operation Reliability 540-759-5534 blellis@aep.com
R4.–M4.	Notify the control center holding switching authority of a confirmed vegetation condition	Benjamin L. Thorp III Trans Sys Forestry Coord Staff, Transmission Forestry 956-267-2567 blthorp@aep.com	Connor W. Grooms Engineer, Trans Line Eng PJM Central 614-271-5013 cwgrooms@aep.com David W. Daniels Engineer Prin, NERC And OT Cyber Engineering 614-716-2191 dwdaniels2@aep.com	



FAC-003-5 Requirement	Description	Content Owner	SMEs	Reviewers
R5.–M5.	Constrained from performing vegetation work	Benjamin L. Thorp III Trans Sys Forestry Coord Staff, Transmission Forestry 956-267-2567 blthorp@aep.com	Connor W. Grooms Engineer, Trans Line Eng PJM Central 614-271-5013 cwgrooms@aep.com David W. Daniels Engineer Prin, NERC And OT Cyber Engineering 614-716-2191 dwdaniels2@aep.com	
R6.–M6.	Complete inspections on 100% of FAC-003 applicable transmission lines	Benjamin L. Thorp III Trans Sys Forestry Coord Staff, Transmission Forestry 956-267-2567 blthorp@aep.com	Connor W. Grooms Engineer, Trans Line Eng PJM Central 614-271-5013 cwgrooms@aep.com David W. Daniels Engineer Prin, NERC And OT Cyber Engineering 614-716-2191 dwdaniels2@aep.com	
R7.–M7.	Complete 100% of annual plan	Benjamin L. Thorp III Trans Sys Forestry Coord Staff, Transmission Forestry 956-267-2567 blthorp@aep.com	Connor W. Grooms Engineer, Trans Line Eng PJM Central 614-271-5013 cwgrooms@aep.com David W. Daniels Engineer Prin, NERC And OT Cyber Engineering 614-716-2191 dwdaniels2@aep.com	

6.0 Appendix C: TVMP Internal Distribution List

Role definitions: A—Accountable; C—Consult; I—Informed; R—Responsible; S—Support

Name/Email Group	Department	Title	Role
Ball, David R.	AEP Transmission Admin	SVP Transmission System Operations	A
Pugh, Archie D.	Trans Field Services East	VP Trans Field Services	A
Wooldridge, Steven J.	AEP Transmission Admin	VP Trans Field Services	A
Robinson, Kevin S. (Shawn)	AEP Transmission Admin	SVP Transmission Project Solutions	A
Patton, Kevin B.	Transmission Forestry	Dir Vegetation Mgmt TFS	A
Ellis, Brian L.	Trans Operation Reliability	Dir Trans Systems Ops Engineering	A
Gabbard, Stacey D.	Customer Operations & Support	VP Customer Operations	A
Dimpfl, Scott S.	Transmission Line Engrg Admin	Dir Trans Engineering Services	S
Miller, Mathew J.	VP Eng Services	Dir Gen Engineering	I
Globeck, Stephen J.	NERC And Regulatory Issues Mgmt	NERC Compliance Mgr	R
Patterson, Aubrey F.	EDS Compliance & Process	ED NERC Compliance Mgr	R
Unternaer, Brenda L.	Transmission Right of Way	Trans Right of Way Mgr	I
Messner, Leah	Transmission Right of Way	Trans Right of Way Mgr	I
Baxter, Robert W.	Transmission Right of Way	Trans Right Of Way Supv	I
Curiel, Nicolas	Transmission Right of Way	Trans Right Of Way Supv	I
Bergeret, Rene J.	Transmission Right of Way	Trans Right Of Way Supv	I
Brown, Deborah L.	Transmission Right of Way	Trans Right Of Way Supv	I
Cline, Erica	Transmission Right of Way	Trans Right Of Way Supv	I
Wellman, Amanda J.	Transmission Right of Way	Trans Right Of Way Supv	I
Smith, Matthew J.	Transmission Right of Way	Trans Right of Way Agent Lead	I
Hannah, Eddie D.	TFS Line East	Director Transmission Field Services	I
Calhoun, Randy L.	VP Eng Services	Gen NERC & OT Cyber Compl Mgr	C



Role definitions: A—Accountable; C—Consult; I—Informed; R—Responsible; S—Support

Name/Email Group	Department	Title	Role
Fuller, Terry A.	New Project Development	Engineer Staff	A
Daniels, David W.	NERC And OT Cyber Engineering	Engineer Prin	R
Murphy, Timothy S.	Day Ahead Operations	Real Time Mkt Ops Mgr	I
Long, Christopher B.	Env Systems & Field Services	Dir Environmental	I
Blake, Frank E.	Environmental Services	Dir Environmental	I
Toole, Aimee R.	Env Programs & Reporting Svcs	Dir Environmental	I
Hale, Michael M.	TFS TS T-Line	Coordinator Prin	I
Martin, Amanda M.	TFS TS T-Line	TFS T-Line Tech Svcs Mgr	I
Kuhns, Kara B.	TFS TS T-Line	Engineer Sr	I
Evans, Jeremy A.	TFS TS T-Line	Engineer Sr	I
Macias, Michael M.	Electric Transmission Texas	Dir Operations ETT	I
Lorcher, Eryn M.	Electric Transmission Texas	Engineer Staff	I
Davis, Craig E.	Cust Sol Ctr Network Services	Dir Customer Care	A
De La Garza, Orlando	Transmission Forestry	Transmission Forestry Mgr	R
Bradburn, Benjamin N.	Transmission Forestry	Trans Sys Forestry Coord Staff	R
Thorp, Benjamin L.	Transmission Forestry	Trans Sys Forestry Coord Staff	R
Karber, Richard L.	Transmission Forestry	Trans Sys Forestry Coord Staff	R
Transmission Forestry Group	Trans Foresters and Forestry Management	Group Mailing List	R
Browning, David L.	Transmission Dispatch	Mng Dir Real Time Response	R
Lopez, Linda L.	Transmission Dispatch	Dir Energy Delivery System Ops	R
McAuley, Rosalyn N.	Transmission Dispatch	Dir Energy Delivery System Ops	R
Martin, Brian R.	Trans Dispatch Roanoke	Eng Del System Ops Mgr	R
Martin, Matthew C.	Roanoke Dist Dispatch	Dist Dispatching Mgr	R
Miller, Eric A.	AEP Ohio Distr Dispatch Admin	Dist Dispatching Mgr	R



Role definitions: A—Accountable; C—Consult; I—Informed; R—Responsible; S—Support

Name/Email Group	Department	Title	Role
Wilson, Jarrod M.	Ft Wayne Distrib Dispatch	Dist Dispatching Mgr	R
Parker, Matthew L.	SWEPCO Distrib Dispatch	Dist Dispatching Mgr	R
Uresti, Adrian D.	C Christi Distrib Dispatch	Dist Dispatching Mgr	R
Albertson, Emmett W.	Transmission Forestry	Trans Sys Forestry Coord Sr	R
McMillan, Todd C.	TransLineEngrg DesignStandards	Engineer Staff	R
Grooms, Connor W.	Trans Line Eng PJM Central	Engineer	R
Coon, Chad M.	Trans Line Eng PJM Central	Engineer	R
Guinn, Jared A.	Trans Line Eng SPP	Engineer	R
Ahmed, Mohammed	Trans Line Eng SPP	Trans Line Engrg Mgr	S
Overduyn, Rebecca M.	Trans Line Eng SPP	Trans Line Engrg Mgr	S
Grawe, Robert V.	Trans Station Engrg Admin	Trans Line Engrg Mgr	S
Earnest, Katherine P.	Trans Line Eng PJM East	Trans Line Engrg Mgr	S
TE_TLE All	Transmission Line Project Engineering	Group Mailing List	S
TE_TLE Standards	Transmission Line Standards Engineering	Group Mailing List	S
Transmission Projects—PMs	Transmission Project Mgt. & Control	Group Mailing List	S
Veith, Matthew S.	Trans Operation Reliability	Mng Dir Trans System Ops Engineeri	S
Sauriol, Dennis R.	Trans Operation Reliability	Mng Dir Real Time Reliability	S
Beasley, Ashley N.	Transmission Projects	Mng Dir Project Solutions	S
Hannah, Eddie D.	TFS Line East	Director Transmission Field Services	S
Stevens, Mary J.	TFS P&C East	Dir TFS	S
Doan, Brandon A.	Trans Operation Reliability	Dir Trans Systems Ops Engineering	S
Trevino, Gerardo	ED Engineering Services Admin	Dir Trans Engineering Services	S
Cantu, Adrian	Trans Construction Mgmt Admin	Mng Dir Energy Del Constr Mgmt	S



Role definitions: A—Accountable; C—Consult; I—Informed; R—Responsible; S—Support

Name/Email Group	Department	Title	Role
Horne, Matthew J.	Trans Constr Mgt Gah PJM AP	Trans Construction Mgr	S
Mau, Dawn M.	Trans Construction Mgmt Gah PJM Ohio	Trans Construction Mgr	S
	Trans Constr Mgmt Gah PJM Ohio	Trans Construction Mgr	S

ATTACHMENT 13

9A West Project
Attachment 13
Agency Coordination

DATE/TIME	COMMUNICATION TYPE	STATE	COUNTY	MUNICIPALITY / OFFICE	CONTACT	TRANSOURCE ATTENDEES	CONSULTANT ATTENDEES	STATE / COUNTY / LOCAL ATTENDEES
January 12, 2017	Meeting	Maryland	State	PPRP	Susan Gray	Peggy Simmons, Laurie Spears, Tim Gaul	Barry Baker (AECOM)	Susan Gray, Fred Kellex, Shawn Seaman, Steve Talson
January 31, 2017	Letter	Maryland	Federal	USACE - Baltimore District MD Northern Section	Joe DaVia - Chief	N/A	N/A	N/A
January 31, 2017	Letter	Pennsylvania	Federal	USACE - Baltimore District	Wade Chandler - Chief	N/A	N/A	N/A
January 31, 2017	Letter	Maryland	Federal	USFWS - Chesapeake Field Office	Genevieve LaRouche	N/A	N/A	N/A
January 31, 2017	Letter	Pennsylvania	Federal	USFWS - Pennsylvania Field Office	Lora Lattanzi	N/A	N/A	N/A
January 31, 2017	Letter	Both	Federal	EPA Region 3	Shawn Garvin - Regional Administrator	N/A	N/A	N/A
January 31, 2017	Letter	Pennsylvania	State	PA Department of Environmental Protection	Joseph Adams - Regional Director	N/A	N/A	N/A
January 31, 2017	Letter	Pennsylvania	State	PA Fish and Boat Commission	John Arway - Executive Director	N/A	N/A	N/A
January 31, 2017	Letter	Pennsylvania	State	PA Game Commission	Bradely Meyers - Director	N/A	N/A	N/A
January 31, 2017	Letter	Pennsylvania	State	PA Department of Conservation and Natural Resources	Ellen Schultzabarger - Division Chief	N/A	N/A	N/A
January 31, 2017	Letter	Pennsylvania	State	PA Historical & Museum Commission	Andra MacDonald - Bureau Director	N/A	N/A	N/A
January 31, 2017	Letter	Pennsylvania	State	PA Department of Agriculture	Doug Wolfgang - Supervisor	N/A	N/A	N/A
January 31, 2017	Letter	Maryland	State	Maryland Department of the Environment	Lynn Buhl - Director	N/A	N/A	N/A
January 31, 2017	Letter	Maryland	State	Maryland Department of Natural Resources	Denise Keehner - Program Manager	N/A	N/A	N/A
January 31, 2017	Letter	Maryland	State	Maryland Historical Trust	Natalie Loukianoff - Preservation Officer	N/A	N/A	N/A
January 31, 2017	Letter	Maryland	State	Maryland Environmental Trust	William Leahy - Executive Director	N/A	N/A	N/A
January 31, 2017	Letter	Maryland	State	Maryland Department of Agriculture	Louise Lawrence - Program Manager	N/A	N/A	N/A
February 6, 2017	Meeting	Maryland	Washington	State Senator	Senator Andrew Serafini	Todd Burns	Rick Abbruzzese, Mary Urban	Senator Andrew Serafini
February 7, 2017	Meeting	Pennsylvania	Franklin	State Senator	Sen. Richard Alloway	Todd Burns & Laurie Spears	Steve Kratz, Dennis Walsh, Margaret Durkin	Sen. Richard Alloway
February 7, 2017	Meeting	Pennsylvania	Franklin	State Representative	Rep. Paul Schemel	Todd Burns & Laurie Spears	Steve Kratz, Dennis Walsh, Margaret Durkin	Rep. Paul Schemel
February 7, 2017	Email Correspondence	Maryland	State	PPRP	Fred Kelly	Laurie Spears	N/A	Email regarding
February 8, 2017	Meeting	Pennsylvania	Franklin	Southampton Township	Maria Misner	Spears	Chris Getman	Maria Misner, Paul Witter
February 8, 2017	Meeting	Pennsylvania	Franklin	Greene Township		Spears	Chris Getman	
February 9, 2017	Conference Call	Pennsylvania	Franklin	State Representative	Rep. Rob Kaufmann	Todd Burns & Laurie Spears	Steve Kratz, Dennis Walsh, Margaret Durkin	Rep. Rob Kaufmann
January 12, 2017	Meeting	Maryland	State	PPRP	Susan Gray	Peggy Simmons, Laurie Spears, Tim Gaul	Barry Baker (AECOM)	Susan Gray, Fred Kellex, Shawn Seaman, Steve Talson

9A West Project
Attachment 13
Agency Coordination

DATE/TIME	COMMUNICATION TYPE	STATE	COUNTY	MUNICIPALITY / OFFICE	CONTACT	TRANSOURCE ATTENDEES	CONSULTANT ATTENDEES	STATE / COUNTY / LOCAL ATTENDEES
February 13, 2017	Conference Call	Pennsylvania	Franklin	Franklin County Planning Office	Phil Tarquino, County Planning Director	Todd Burns & Laurie Spears	Steve Kratz	Phil Tarquino
March 2, 2017	Email Correspondence	Maryland	State	PPRP	Fred Kelly	Laurie Spears	N/A	Email regarding MDE Joint Evaluation Meeting.
March 8, 2017	Meeting	Maryland	Washington	Washington County	Rob Slocum, Director of Engineering & Construction Management	Laurie Spears	Mary Urban, Barry Baker & Dave Yezuita (AECOM)	Rob Slocum
March 8, 2017	Meeting	Pennsylvania	Franklin	Franklin County Planning Office	Phil Tarquino, County Planning Director	Laurie Spears	Baker & Dave Yezuita (AECOM)	Phil Tarquino, Rochelle Barvinchack, Elizabeth Grant
March 10, 2017	Meeting	Maryland	State	Department of Agriculture	Carrol West	Laurie Spears & Tim Gaul	Barry Baker (AECOM)	
March 29, 2017	Meeting	Maryland	Federal/State	MDE Joint Evaluation Meeting	Jonathan Stewart	Peggy Simmons, Laurie Spears & Tim Gaul	Baker & Dave Yezuita (AECOM)	See sign-in sheet over 17 people in attendance from agencies
March 31, 2017	Email Correspondence	Maryland	State	PPRP	Fred Kelly	Laurie Spears	N/A	Email regarding open house landowner notification distance.
April 5, 2017	Meeting	Pennsylvania	Franklin	Rep. Paul Schemel	Rep. Schemel	N/A	Margaret Durkin (BRAVO)	Rep. Schemel
April 10, 2017	Meeting	Pennsylvania	State	PA Department of Agriculture	Doug Wolfgang, Farmland Preservation, Bureau Director	Laurie Spears	Barry Baker & Dave Yezuita(AECOM)	Doug Wolfgang
April 11, 2017	Meeting	Pennsylvania	Franklin	Franklin County Planning Office	Phil Tarquino, County Planning Director	Laurie Spears	Chris Getman, Abby Foster, Barry Baker (AECOM)	Phil Tarquino, Rochelle Barvinchack, Elizabeth Grant
May 2, 2017	Email Correspondence	Maryland	State	PPRP	Fred Kelly	Laurie Spears	N/A	Email regarding May meeting coordination.
May 4, 2017	Meeting	Pennsylvania	Franklin	Southampton Township	Maria Misner, Township Planner	Laurie Spears, Todd Burns	Abby Foster, Barry Baker (AECOM)	Maria Misner (planner), Township Supervisor, Zoning Officer
May 4, 2017	Meeting	Pennsylvania	Franklin	Hamilton Township & Chambersburg Borough	Deb Hollenshead, Secretary/Treasurer and Ron Pezon, Chambersburg Electric Superintendent, Jamia Wright, Chambersburg secretary	Laurie Spears, Todd Burns	Abby Foster, Barry Baker (AECOM)	Deb Hollenshead, Secretary/Treasurer; Randall Negley, Supervisor; Mike Kessinger, Supervisor; Ron Pezon, Chambersburg Electric Superintendent; Jeff Heverley, Chambersburg Electric Assistant; Bill Rudy
May 4, 2017	Meeting	Pennsylvania	Franklin	Guilford Township	Wayne Statler	Laurie Spears, Todd Burns	Abby Foster, Barry Baker (AECOM)	Wayne Statler, Zoning and Don Clapper, Supervisor
May 4, 2017	Meeting	Pennsylvania	Franklin	Greene Township	Gina	Laurie Spears, Todd Burns	Abby Foster, Barry Baker (AECOM)	Todd Burns, Chairman; Sean Corwell, Supervisor; Dan Bachman, Zoning Officer; Greg Lambert, Township Engineer; Travis Brookens, Vice-Chair
May 4, 2017	Meeting	Pennsylvania	Franklin	Antrim Township	Silvia House	Laurie Spears, Todd Burns	Abby Foster, Barry Baker (AECOM)	Sylvia House, Zoning Officer/Code Enforcement; Fred Young, Supervisor
May 4, 2017	Meeting	Pennsylvania	Franklin	Quincy Township	Kerry Brumbaugh, Supervisor, Bob Gunder, Supervisor and Travis Schooley	Laurie Spears, Todd Burns	Abby Foster, Barry Baker (AECOM)	Kerry Brumbaugh, Supervisor, Travis Schooley

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DATE/TIME	COMMUNICATION TYPE	STATE	COUNTY	MUNICIPALITY / OFFICE	CONTACT	TRANSOURCE ATTENDEES	CONSULTANT ATTENDEES	STATE / COUNTY / LOCAL ATTENDEES
May 4, 2017	Meeting	Pennsylvania	Franklin	Washington Township	Michael Christopher, Township Manager	Laurie Spears, Todd Burns	Abby Foster, Barry Baker (AECOM)	Michael Christopher, Township Manager; Jeff Geesamen, Assistant Township Manager
May 16, 2017	Meeting	Pennsylvania	Franklin	Federal - Letterkenny	Damian Bess		Barry Baker & Heather Brewster (AECOM)	Bill Tarman - DPW Deputy, Bill Boehmer - Energy Manager, Douglas Warnock - Chief Environmental Management Division, Damian Bess - DPW Director, Scott Yeager - DPW Planning Engineering, Kelly Barnes - DPW Planning Engineering, Walt Findley - DPW Planning Engineering, Jim Coccagna - Chief, Engineering and Planning Division
May 17, 2017	Email Correspondence	Pennsylvania	Franklin	Federal - Letterkenny	Damian Bess		Heather Brewster (AECOM)	
May 22, 2017	Meeting	Maryland	State	PPRP	Don Strebel	Laurie Spears & Tim Gaul	Barry Baker (AECOM)	Don Strebel, Ginny Rogers, Fred Kelly, Connie Faustini, Susan Gray, Kevin (?),
June 19, 2017	Email Correspondence	Maryland	State	PPRP	Fred Kelly	Laurie Spears	N/A	Email regarding information tied to bog turtles in the area of Conastone Substation.
June 22, 2017	Email Correspondence	Maryland	State	PPRP	Fred Kelly	Laurie Spears	N/A	Email regarding coordination of July meeting.
July 6, 2017	Email Correspondence	Pennsylvania	Franklin	PA DCNR - Bureau of Forestry	Roy Brubaker		Heather Brewster (AECOM)	
July 13, 2017	Email Correspondence	Maryland	State	MDE	Kelly Neff	Laurie Spears	N/A	Email requesting information about wetland mitigation site in project area.
July 14, 2017	Meeting	Maryland	State	Department of Agriculture	Carol West	Laurie Spears	Barry Baker (AECOM)	
July 18, 2017	Meeting	Maryland	Washington	County Commissioners			Rick Abburzese	County Commissioners
July 25, 2017	Meeting	Maryland	State	PPRP	Don Strebel Fred Kelley	Laurie Spears Rachel Anderson	Dave Yezuita (AECOM) Rob Everard (BurnsMac)	Don Strebel, Ginny Rogers, Fred Kelly, Lori Byrne
July 6, 2017	Email Correspondence	Pennsylvania	Franklin	PA DCNR - Bureau of Forestry	Jodi Gribik		Heather Brewster (AECOM)	
July 26, 2017	Meeting	Maryland	Federal/State	MDE Joint Evaluation Meeting	Jonathan Stewart	Laurie Spears Rachel Anderson	Dave Yezuita (AECOM) Rob Everard (BurnsMac)	Amanda Sigillito, Jonathan Stewart, April Field, Andy May, David Walbeck, Lou Parnes, Denise Kechner, Greg Golden, Don Strebel, Dixie Henry, Joseph DaVia, Steve Elinsky, Trevor Clark, Tamene Dilnesahr
August 8, 2017	Meeting at open house	Pennsylvania	Franklin	Franklin County Planning Commission, Franklin	Katie Hess	Laurie Spears, Barry Baker	Abby Foster (Bravo)	Katie Hess, Elizabeth Grant, Janet Pollard
August 16, 2017	Call	Pennsylvania	Franklin	Quincy Township	Kerry Brumbaugh and Travis Schooley		Abby Foster (Bravo)	Travis Schooley and Kerry Brumbaugh
August 17, 2017	Meeting	Pennsylvania	Franklin	State Representative Kauffman			Abby Foster (Bravo)	Rep. Kauffman
August 17, 2017	Meeting	Pennsylvania	Franklin	Congressman Shuster	Nancy Bull, Deputy District Director		Abby Foster (Bravo)	Rep. Rob Kaufmann
August 17, 2017	Meeting	Pennsylvania	Franklin	Franklin County Chamber of Commerce	Doug Harmon, Membership Director		Abby Foster (Bravo)	Nancy Bull, Deputy District Director
August 23, 2017	Email Correspondence	Maryland	Washington	Maryland Dept of Agriculture	Carol West		Heather Brewster (AECOM)	

9A West Project
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DATE/TIME	COMMUNICATION TYPE	STATE	COUNTY	MUNICIPALITY / OFFICE	CONTACT	TRANSOURCE ATTENDEES	CONSULTANT ATTENDEES	STATE / COUNTY / LOCAL ATTENDEES
August 30, 2017	Call	Pennsylvania	Franklin	State Senator Eichelberger	Kathleen Gunnell, Legislative Aide		Abby Foster (Bravo)	Kathleen Gunnell, Legislative Aide
August 31, 2017	Email Correspondence	Pennsylvania	Franklin	USDA NRCS - PA	Hathaway Jones		Heather Brewster (AECOM)	
September 6, 2017	Email Correspondence	Maryland	Washington	USDA NRCS - MD	Tiffany Davis		Heather Brewster (AECOM)	
September 7, 2017	Call	Pennsylvania	Franklin	State Senator Alloway	Stacy Gregson, Field Representative		Abby Foster (Bravo)	Stacy Gregson, Field Representative
September 20, 2017	Call	Pennsylvania	Franklin	Franklin County Planning Commission	Phil Tarquino, County Planning Director		Abby Foster (Bravo)	Phil Tarquino
September 20, 2017	Meeting	Pennsylvania	Franklin	State Representative Alloway	Chad Reichard		Abby Foster (Bravo)	Chad Reichard
September 20, 2017	Meeting	Pennsylvania	State	PADCNR Bureau of Forestry - Michaux State Forest	Chris Plank	Laurie Spears	Barry Baker (AECOM) Heather Brewster (AECOM)	Chris Plank, Dave Mong, Roy Brubaker, Rebecca Bowen
September 20, 2017	Email Correspondence	Pennsylvania	Franklin	PADCNR Bureau of Forestry - Michaux State Forest	Chris Plank		Heather Brewster (AECOM)	
September 21, 2017	Open House	Maryland	Washington	Delegate Wivell			Abby Foster (Bravo)	Delegate Wivell (FE Open House)
September 25, 2017	Meeting	Pennsylvania	Franklin	State Representative Paul Schemel	Representative Schemel		Abby Foster, Dennis Walsh, Margaret Durkin (Bravo)	
September 25, 2017	Call	Pennsylvania	Pennsylvania	US Senator Casey	Brooke Souder, Constituent Services		Abby Foster (Bravo)	Brooke Souder
September 28, 2017	Call	Maryland	State	Senator Jennings/Delegate Szeliga		N/A	Rick Abbruzzese (KOFA) Mary Urban (KOFA)	
September 29, 2017	Meeting	Maryland	State	PPRP	Don Strebel Fred Kelley	Laurie Spears	Barry Baker (AECOM) Dave Yezuita (AECOM)	Don Strebel, Ginny Rogers, Fred Kelly, Lori Byrne
October 17, 2017	Call	Pennsylvania	Franklin	Senator Alloway	Jeremy Shoemaker		Abby Foster (Bravo)	Jeremy Shoemaker, COS
October 24, 2017	Meeting Field Review of East Proposed Route	Maryland	State	PPRP	Don Strebel Fred Kelley		Barry Baker (AECOM) Dave Yezuita (AECOM) Rob Everard (BurnsMac)	
November 1, 2017	Letter	Pennsylvania	State	Congress of the United States - House of Representative	Congressman Scott Perry	N/A	N/A	Letter from Congressman Perry regarding the Project.
November 8, 2017	Letter	Pennsylvania	State	USDA NRCS	Hathaway Jones	N/A	N/A	Consultation request for review of West and East proposed routes related to agriculture easements.
November 29, 2017	Letter	Pennsylvania	State	PA Dept Agricultural	Russell Redding	N/A	N/A	Letter from PA Dept Agri regarding the Project and potential impacts to farmland.

9A West Project
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Agency Coordination

DATE/TIME	COMMUNICATION TYPE	STATE	COUNTY	MUNICIPALITY / OFFICE	CONTACT	TRANSOURCE ATTENDEES	CONSULTANT ATTENDEES	STATE / COUNTY / LOCAL ATTENDEES
February 20, 2026	Meeting	Pennsylvania	State	State Senator	Sen. Doug Mastriano	Joe Demaree, Virginia Limmiatis	DelRosso, Elizabeth Rosentel, Carey Sullivan	Rep. Rich Irwin, Rep. Rob Kaufmann, Rep. Chad Reichard, Franklin County Commissioner Dean Horst
February 24, 2026	Meeting	Pennsylvania	State	State Senator	Sen. Doug Mastriano	Joe Demaree, Virginia Limmiatis	DelRosso, Elizabeth Rosentel, Carey Sullivan	Rep. Rich Irwin, Rep. Rob Kaufmann, Rep. Chad Reichard, Franklin County Commissioner Dean Horst
March 3, 2026	Meeting	Pennsylvania	Franklin	County	Commissioner Dean Horst	Joe Demaree, Virginia Limmiatis	DelRosso, Elizabeth Rosentel, Carey Sullivan	Commissioner Dean Horst
March 31, 2026	Meeting	Pennsylvania	Franklin	Chambersburg Area School District	Matthew Varner, Director of Facilities	Joe Demaree		Matthew Varner, Director of Facilities
May 20, 2026	Meeting	Pennsylvania	Franklin	Public Utility Commission	Pre-Filing Meeting with Interested PUC Staff	Transource Staff		

ATTACHMENT 14

APPENDIX A



[insert date]

IMPORTANT INFORMATION ABOUT YOUR PROPERTY

[name and address of property owner]

Subject: Rice-Ringgold "9A West" Project – Pennsylvania Public Utility Commission Required Landowner Notice

Dear [insert name],

You are receiving this letter from Transource Pennsylvania, LLC ("Transource") because public records indicate that you own real property along an overhead electric transmission line route being proposed for the construction of a new aerial high voltage electric transmission line(s) and related substation and facilities (the Rice-Ringgold "9A West Project").

Transource intends to file shortly an application with the Pennsylvania Public Utility Commission ("PaPUC") requesting a new certificate of public convenience ("CPC") to provide electric transmission-only service in portions of Franklin County, Pennsylvania in connection with the 9A West Project. It is unknown at this time if Transource's request at the PaPUC will be granted or approved. Transource currently holds a CPC as a Pennsylvania public utility to provide electric transmission-only service in Peach Bottom Township, York County Pennsylvania.

Transource is providing you this letter and the attached notice (described further below) as if it were an existing public utility in portions of Franklin County, Pennsylvania to ensure you are fully informed of your rights and key information about the 9A West Project for your protection and in accordance with applicable PaPUC regulations.

PJM Interconnection, LLC ("PJM"), the regional transmission organization responsible for managing the high voltage electric grid for the District of Columbia and 13 states, including Pennsylvania and Maryland, has determined and reconfirmed that the 9A West Project is needed to relieve electrical network congestion and, by doing so, to improve market efficiency. PJM has selected Transource to construct a new 29-mile high voltage double-circuit 230 kilovolt ("kV") electric transmission line and related electric substation connecting a new Rice Substation in Franklin County, Pennsylvania to the existing FirstEnergy Ringgold Substation in Washington County, Maryland as part of the 9A West Project. The 9A West Project supports PJM's directives. Construction is anticipated to begin upon the receipt of all necessary regulatory approvals, including those from the PaPUC.

The PaPUC's regulations require certificated public utilities to issue a 15-day landowner notification prior to the start of the right-of-way acquisition process. In the near future, a representative from Transource's Real Estate Department and/or a Transource-authorized agent will be contacting you about acquiring temporary and/or permanent easement interests or other property rights needed for the safe construction, operation, access to and maintenance of the 9A West Project.

Since you are a landowner along the preferred 9A West Project route, please review the enclosed required notices with information about Land Agent Practices, Right-of-Way Maintenance Practices, Eminent Domain Power and Code of Conduct for Right-Of-Way Representatives.

Transource is requesting permission to enter on your land to conduct all necessary field investigations and confirm the viability of the proposed route for construction of the 9A West Project. The activities planned for your property include, among other things, a field survey, soil borings and a variety of environmental, cultural and species related studies. Please review, complete and sign the attached Access Permit - Survey Permission form, and return it in the enclosed self-addressed envelope or by email within 15 days of the date of this letter.

I appreciate your time and hope to hear from you soon.

Thank you,

Abby Abbondanza

Abby Abbondanza

Right-of-Way Agent

Western Land Services, representing Transource Pennsylvania, LLC

1000 Noble Energy Drive, Suite 210

Canonsburg, PA 15317

Phone: (724) 602-1198

Email: abby15301@gmail.com

Enclosures

APPENDIX B

NOTICE

LAND AGENT PRACTICES

PJM Interconnection, LLC (“PJM”), the regional transmission organization responsible for managing the high voltage electric grid for the District of Columbia and 13 states, including Pennsylvania and Maryland, has determined that the 9A West Project is needed to relieve electrical network congestion and, by doing so, to improve market efficiency. PJM has selected Transource to construct a new high voltage double-circuit 230 kilovolt (“kV”) electric transmission line and a related electric substation in Pennsylvania as part of the 9A West Project. The 9A West Project is in support of these directives from PJM. Work on the Project will begin upon the receipt of all necessary regulatory approvals, including those from the PaPUC.

Transource requires temporary and permanent easements on and across your property to access and site aerial electric transmission lines and related substation equipment and facilities across your property in connection with the Project. Since a field survey and detailed engineering have not yet been completed for your property, the physical dimensions and precise location of the proposed new aerial electric transmission line, substation and related equipment and facilities to be sited and constructed cannot be precisely determined at this time.

Since the Project construction could affect your property, a representative from Transource will contact you in the near future to discuss Transource's plans as they may affect your property.

Transource is providing you the following contact information, as if it were a public utility in portions of Franklin County, Pennsylvania and was required to do so by the Pennsylvania Public Utility Commission, for concerns you might have at any time regarding the practices of the land agents acting on behalf of Transource in connection with the proposed siting and construction of the 9A West Project.

Pennsylvania Public Utility Commission Bureau of Consumer Services
400 North Street
Keystone Bldg.
Harrisburg PA 17120
1-800-692-7380

Darryl A. Lawrence
Consumer Advocate Pennsylvania Office of Consumer Advocate
555 Walnut Street
5th Floor Forum Place Harrisburg, PA 17101-1923
Phone: 717-783-5048 or toll free 800-684-6560 (PA only)
Fax: 717-783-7152
Email: consumer@paoca.org

APPENDIX C

Notice

Right-Of-Way Maintenance Practices

Transource® Pennsylvania, LLC (“Transource”) is providing you the following information, as if it were a public utility in portions of Franklin County and was otherwise required to do so by the Pennsylvania Public Utility Commission, on the RIGHT-OF-WAY MAINTENANCE PRACTICES for overhead electric transmission lines to be constructed as part of the 9A West Project.

The methods currently used by Transource will be made available to you for your inspection upon request. If you wish further information concerning right-of-way maintenance methods, you may contact the person named in the cover letter. You may discuss with this person, either before or during negotiation of the right-of-way agreement, these methods and any other questions you may have about right-of-way maintenance.

Once Transource has constructed an electric transmission line on a right-of-way across your land, it must maintain the right-of-way free of tall-growing trees and brush which might impair the reliability of electric service, the safety of the line, and access to the line or its towers. Transource or its contractors may remove and control tall-growing trees and brush by several methods: hand cutting of trees, limbs, and brush; mechanical cutting with chain saws or motorized cutting machines; and application of herbicide. Transource must confine its maintenance activities to the approved right-of-way across your land, except where tall-growing trees or brush or their root systems grow into the right-of-way from adjoining land and constitute a threat to the electric transmission line and its structures.

If you believe that the maintenance method(s) used by Transource would raise problems with your use of your land adjacent to the right-of-way, it is your responsibility as the landowner to bring this to the attention of Transource before you sign the right-of-way agreement.

Transource has the responsibility to maintain its rights-of-way, and regular maintenance must occur. Although you as the landowner cannot determine whether maintenance will occur, your right-of-way agreement may specify certain conditions on the performance of the maintenance program which are important to you. These conditions can be part of the negotiations between you and Transource for your land since a right-of-way agreement is a legal contract between the landowner and Transource. It is important for you to also understand that the maintenance methods used by Transource may change over time as the costs of maintenance or the methods of performing maintenance change. You may want to specify in your right-of-way agreement that Transource inform you of changes in its maintenance methods or in the maintenance schedule for your land.

The provisions of the right-of-way agreement are enforceable in the local Court of Common Pleas. The right-of-way agreement cannot be enforced by the Pennsylvania Public Utility Commission. Any claims for damage resulting from improper maintenance of the right-of-way must be settled with Transource or its contractors, or addressed in the local Court of Common Pleas at your own expense. The Pennsylvania Public Utility Commission cannot award damages for violations of the right-of-way agreement.

APPENDIX D

NOTICE

EMINENT DOMAIN POWER

Transource® Pennsylvania, LLC (“Transource”) is providing you the following information as if it were a public utility in portions of Franklin County, Pennsylvania and was required to do so by the Pennsylvania Public Utility Commission:

PJM Interconnection, LLC (“PJM”), the regional transmission organization responsible for managing the high voltage electric grid for the District of Columbia and 13 states, including Pennsylvania and Maryland, has determined that there is a need to construct a new transmission line project. PJM has selected Transource to construct a new high voltage double-circuit 230 kilovolt (“kV”) electric transmission line and a related electric substation in Pennsylvania as part of the 9A West Project. The 9A West Project is in support of these directives from PJM. Work on the Project will begin upon the receipt of all necessary regulatory approvals, including those from the PaPUC.

Transource requires temporary and permanent easements on and across your property to access and site aerial electric transmission lines and related substation equipment and facilities across your property in connection with the Project. Since a field survey and detailed engineering have not yet been completed, the physical dimensions and precise location of the proposed new aerial electric transmission lines and related substation equipment and facilities to be sited and constructed cannot be precisely determined at this time.

Since the routes of the proposed and new interconnecting electric transmission lines and related substation equipment and facilities for the Project presently under consideration could affect your property, a representative of Transource will contact you in the near future to discuss Transource's plans as they may affect your property. To better prepare you for these discussions and to avoid possible misunderstandings, we want to take this opportunity to inform you of your legal rights and the legal rights and duties of Transource with regard to this Project. You have the right to have legal counsel represent you in these negotiations. You do not have to sign any agreement without the advice of counsel. If you do not know an attorney, you may contact your local bar association.

MUST YOU ACCEPT AN OFFER MADE BY TRANSOURCE FOR YOUR PROPERTY?

No. You may refuse to accept it. However, Transource, if it is granted a Certificate of Public Convenience (“CPC”) from the Pennsylvania Public Utility Commission to commence the provision of electric transmission-only service as a public utility in portions of Franklin County, Pennsylvania, will have the power to take property by eminent domain, subject to the approval of the Pennsylvania Public Utility Commission, for the construction of transmission lines if Transource is unable to negotiate an agreement to buy a right-of-way. If your property is condemned, you must be paid “just compensation.” “Just compensation” has been defined by the courts in Pennsylvania as the difference between the fair market value of your property before condemnation, unaffected by the condemnation, and the fair market value of your remaining property after condemnation, as affected by the condemnation.

CAN TRANSOURCE CONDEMN YOUR HOUSE?

No. Transource cannot condemn your house or a reasonable "curtilage" around your house. Generally, curtilage includes the land or buildings within 300 feet of your house which are used for your domestic purposes. However, the 300- foot limit does not automatically extend beyond the homeowner's property line.

DO YOU HAVE A RIGHT TO A PUBLIC HEARING IF TRANSOURCE SEEKS TO CONDEMN YOUR PROPERTY?

Yes. If Transource ever seeks to have your property condemned, after and if it is ever granted a CPC from the Pennsylvania Public Utility Commission to commence the provision of electric transmission-only service as a public utility in portions of Franklin County, Pennsylvania, it must first apply to the Pennsylvania Public Utility Commission for a certificate finding the condemnation to be necessary or proper for the service, accommodation, convenience, or safety of the public. The Pennsylvania Public Utility Commission will then hold a public hearing. As the landowner whose property may be condemned, you are a party to the proceeding and may retain counsel, present evidence, and/or testify yourself in opposition to the application for a certification. If you wish to testify at the public hearing, you should make your intention known by letter to Secretary, Pennsylvania Public Utility Commission, 400 North Street, Harrisburg, Pennsylvania 17120.

If and after Transource is ever granted a CPC from the Pennsylvania Public Utility Commission to commence the provision of electric transmission-only service as a public utility in portions of Franklin County, Pennsylvania and the Pennsylvania Public Utility Commission approves Transource 's application for a certificate finding the condemnation is in the public interest, then Transource may proceed before the local Court of Common Pleas to condemn your land. If the Pennsylvania Public Utility Commission denies Transource 's application, it cannot condemn your land. If you retain an attorney to represent you before the Commission, you must do so at your own expense.

The Pennsylvania Public Utility Commission will not decide how much money you should receive if your land is condemned. The only issue the Pennsylvania Public Utility Commission will decide is whether the condemnation serves the public interest. If and after Transource is ever granted a CPC from the Pennsylvania Public Utility Commission to commence the provision of electric transmission-only service in portions of Franklin County, Pennsylvania and the Pennsylvania Public Utility Commission approves Transource 's application for condemnation, the amount of money to which you are entitled will be determined by a local Board of View or the Court of Common Pleas. However, you may at any time make an agreement with Transource as to the amount of damages you are to be paid.

APPENDIX E



Code of Conduct Principles for Employees, Right-of-Way Agents and Subcontractor Employees

Transource® Pennsylvania, LLC (Transource) is dedicated to Code of Conduct principles that respect communities, landowners and the environment when building facilities necessary to deliver reliable electric service to our customers.

Our Code of Conduct applies to all communications and interactions with property owners by all employees, right-of-way agents and subcontractor employees representing Transource and its projects during negotiation of right-of-way and the performance of surveying, environmental assessments and the other activities for the Project on property not owned by Transource.

All representatives of the Project are instructed and expected to follow the Transource Code of Conduct principles as outlined in this document and have received Transource Customer Relations Training specifically created for right-of-way agents.

Code of Conduct Principle I:

All communications for the Project must be based in factual information and made in good faith and adhere to the following standards:

- Do provide maps and documents necessary to keep landowners properly informed.
- Be truthful. Do not make false or misleading statements, or purposely or intentionally misrepresent any fact.
- Be responsive. If you don't know the answer to a question from a property owner confirm that you will investigate the question and provide a timely answer. Follow-up in a timely manner on all commitments to provide additional information.
- Do not send written communication suggesting an agreement when, in fact, an agreement hasn't been reached.
- If information provided is later determined to be incorrect, the Project representative will follow-up with the landowner in a timely manner and provide corrected information.
- Do provide the landowner with appropriate additional contact information if necessary.

Code of Conduct Principle II:

All communications and interactions with property owners and occupants of property must be respectful and reflect fair dealing practices, including:



- Project representatives must promptly identify themselves by showing a company or contractor-issued photo I.D. badge and have it displayed at all times while working on the project.
- Project representatives will promptly identify themselves when contacting a landowner by telephone.
- Project representatives do not engage in behavior that may be considered harassing, coercive, manipulative, intimidating, or causes undue pressure.
- All communications by a property owner, whether in person, by telephone or in writing, in which the property owner indicates that he or she does not want to negotiate or does not want to give permission for surveying or other work on his or her property must be respected and politely accepted without argument. Unless specifically authorized by the Land Acquisition Manager, do not contact the property owner again regarding negotiations or requests for permission.
- When asked to leave a property, promptly leave and do not return unless specifically authorized by the Transource.
- Do obtain written permission from the property owner and tenants to enter property for purposes of surveying or conducting environmental assessments or other activities. Clearly explain to the property owner the scope of work to be conducted based on the permission given. Attempt to notify the occupant of the property each time you enter the property based on this permission. If verbal permission is granted, the agent should record the time and date of the discussion for future reference.
- Do not represent that a relative, neighbor and/or friend supports or opposes the project, even if it's true.
- Do not suggest that any person should be ashamed of or embarrassed by his or her opposition to the Project or that such opposition is inappropriate.
- Do not argue with property owners about the merits of the Project.
- Do not suggest that an offer is "take it or leave it."
- Do not threaten to call law enforcement officers or obtain court orders.
- Do not threaten the use of eminent domain.
- Avoid discussing a property owner's failure to note an existing easement when



- purchasing the property and other comments about the property owner's acquisition of the property.
- Do not give the property owner any legal advice. Instead advise they contact an attorney about any legal matters.
- If threatened, promptly and politely leave the property and report the issue to the Land Acquisition Manager.

Code of Conduct Principle III:

All communications and interactions with property owners and occupants of property must respect the privacy of property owners and other persons, as follows:

- Do not discuss your negotiations or interactions with other property owners or other persons.
- Do not ask relatives, neighbors and/or friends to influence the property owner or any other person.
- Avoid discussions of personal matters about the property owner, others and yourself.

Transource operates with the highest standards of reliability, safety and federal and state compliance. We work with property owners, state regulators, local officials and agencies, customers and communities to ensure a mutually respectful and beneficial outcome.

APPENDIX F



ACCESS PERMIT - SURVEY PERMISSION

9A WEST PROJECT

I/We ("Property Owner of Record") hereby give(s) Transource® Pennsylvania, LLC ("Transource"), its affiliates, agents, employees, contractors and to the appropriate federal, state and local agencies, archeologists, biologists, and/or environmental scientists, permission to enter upon my/our premises identified by property location and/tax parcel ID below ("Property") to conduct civil, environmental, cultural resource surveys, soundings, drillings, appraisals, examination and all other surveys and tests (including the right to drill holes for testing soil and bedrock) on the Property (collectively, the "Survey") deemed necessary by Transource to identify, evaluate or take other action in connection with the proposed electric transmission line route for the Bramah Substation Project.

The Property Owner of Record acknowledges that Transource has the right to trim or cut vegetation on or at the Property necessary for Survey purposes. Transource agrees to timely pay the Property Owner of Record the prevailing market price for standing timber for any marketable trees cut down on the Property in the course of such Survey. Transource will be responsible for any damage done to the Property in the course of the Survey and further agrees to indemnify and hold harmless the Property Owner of Record against all liability to third persons caused by negligent acts or omissions of Transource's employees or representatives while on the Property.

Property Location/Tax Parcel ID: _____

Date: _____

Property Owner of Record: _____

(Signature)

(Signature)

(Name)

(Name)

Mailing Address: _____
(Address) (City) (State) (ZIP)

(Preferred Contact Number)

(Alternate Number/Method of Contact)

(E-Mail Address)



SPECIAL CONDITIONS FORM

Property Owner(s): _____
(Print Name) (Print Name)

Property Address: _____
(Address) (City) (State) (ZIP)

ROW Information Checklist

Please identify items which are present on, under or across this property.

- Water Wells/Septic Systems
- Springs, Creeks, Marsh, Bog, Wetland
- Septic/Sewer Lines
- Sprinklers/Irrigation Systems
- Drainage Tiles
- Wells – Water, Gas, Petroleum
- Water Line(s)
- Pipelines – Gas, Oil, Petroleum, Steam
- Buried Cables – Electrical
- Buried Cables – Communication, Alarm, Signal
- Invisible Pet Fence
- Electrical Fence
- Livestock, Animals
- Planted Crops
- Mining
- Residences
- Property Corner Markers
- Cemetery, Burial Grounds
- Access Roads
- Cultural or Historical
- _____
- _____

COMMENTS:

Empty box for comments

ATTACHMENT 15

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of Transource Pennsylvania, LLC :
filed Pursuant to 52 Pa. Code Chapter 57, :
Subchapter G, for Approval of the Siting and : Docket No. A-2026-_____
Construction of the 230 kV Transmission Line :
Associated with the 9A West Project in Portions :
of Franklin County, Pennsylvania :

NOTICE OF FILING

Transource Pennsylvania, LLC (“Transource PA”) hereby submits Notice that the above-captioned Application was filed with the Pennsylvania Public Utility Commission (“Commission”) on May 21, 2026. The purpose of the Application is to seek Commission approval of the siting and construction of the Pennsylvania portion of the Rice-Ringgold 230 kV Transmission Line in portions of Franklin County, Pennsylvania. Pursuant to 52 Pa. Code § 57.74(c), you are receiving this Notice because you are the record owner of property within the proposed right-of-way, or represent a Federal, state or local entity identified under 52 Pa. Code § 57.74(c). You are not required to appear or participate in this matter, but you may request Commission permission to intervene.

OVERVIEW OF THE PROJECT

The proposed Rice-Ringgold 230 kV Transmission Line is part of the 9A West Project (“Project”) approved by PJM Interconnection, L.L.C. (“PJM”) to alleviate electrical network congestion constraints in Pennsylvania, Maryland, West Virginia, and Virginia.¹

¹ Congestion occurs on transmission facilities when there is heavy use of the transmission system in a specific area. When congestion occurs, typically lower-priced energy is prevented from flowing freely to a specific area on the grid because heavy

The Project approved by PJM involves, among other things, the construction of one new overhead double-circuit 230 kV interstate transmission lines: (1) the Rice-Ringgold 230 kV Transmission Line or the 9A West Project.

Transource PA is obligated to construct the Pennsylvania portion of the 230 kV transmission line associated with the 9A West Project. Through the above-captioned Application, Transource PA seeks Commission approval of the siting and construction of the Pennsylvania portion of the 230 kV line associated with the 9A West Project.

Subject to the Commission's approval, construction of the 9A West is scheduled to begin as soon as practicable following Commission approval to meet an in-service date of January 19, 2029.

ROUTE FOR THE 9A WEST PROJECT

Transource PA undertook a detailed siting analysis of feasible alternatives for the 9A West Project. The goal of the siting analysis was to determine the most suitable route for a new 230 kV transmission line to connect the existing Ringgold Substation located near Smithsburg, Washington County, Maryland to the new Rice Substation to be located in Franklin County, Pennsylvania.

The feasible Alternative Routes were compared and a Proposed Route was selected based upon a detailed analysis and balance of human/built concerns, environmental impacts, and engineering and constructability considerations. Based on this detailed evaluation process, Transource PA selected "Alternative Route C" as the Proposed Route for the 9A West Project because it was the overall best alternative to minimize potential impacts of the transmission line.

electricity use is causing parts of the grid to operate near its limits. As a result, congestion generally raises the pricing for electricity in congested areas.

The Proposed Route extends approximately 27.9 miles (approximately 23.5 miles in Pennsylvania and approximately 4.4 miles in Maryland). A general description of the Proposed Route is provided below:

- Proposed Route exits the Rice Substation from the southeast corner and spans 0.2 miles east over the active Norfolk Southern railroad and to the east side of I-81, where it turns to the south to parallel I-81 for 1.1 miles to SR 696. Along this stretch the route crosses Pine Stump Road, Mountain Run (CWF), and is within 0.5 miles of the Rocktop Airport that is located to the east past SR 696.
- Proposed Route turns sharply east to cross SR 696 perpendicularly and travels approximately 0.6 mile to the east-southeast through an agricultural field before turning sharply to the southwest.
- Travelling southwest for 0.7 miles, the Proposed Route crosses Phillaman Run (CWF) and then crosses Black Gap Road (SR 997) in a perpendicular fashion. The Proposed Route traverses for 0.6 miles around the perimeter of the Chambersburg Mall, generally following the outer edge of the parking lot on the northern and eastern sides of the mall, and then heading west to parallel with I-81 again.
- After reaching the eastern side of I-81, the Proposed Route turns sharply south and parallels the interstate for approximately 1.4 miles and at this location I-81 and the route generally travel in a western direction. Along this section, the Proposed Route traverses the edge of agricultural fields and crosses an unnamed stream (CWF) and the Conococheague Creek (CWF).
- Proposed Route turns sharply to the southwest and travels 0.4 miles until it reaches the existing FE Letterkenny-Grand Point 138 kV transmission line. The route stays to the east of this system and parallels it south for approximately 1.6 miles toward U.S. Route 30, spanning along agricultural fields, around the Grand Point Substation, and over Walker Road. The Lost Acres Airport is located approximately 0.6 miles west of the route.
- Prior to crossing commercial building-lined U.S. Route 30, the Proposed Route first crosses over to the west side of the transmission line, which is now the FE Grand Point-Allegheny Energy 138 kV line and then spans the highway. The route turns sharply west and then south for 0.5 miles spanning across a parking lot and bypassing around a commercial building. After going around the building, the route again parallels the FE Grand Point-Allegheny Energy 138 kV line for 0.5 mile.
- Proposed Route deviates from the transmission line corridor for 1.1 mile to bypass around homes along the line. Along this section, the route extends to the southwest and spans Falling Spring Branch (HQ-CWF) stream, crosses Falling Spring Road, and traverses through a forested area where homes are present to the east. Within the forest,

the route turns south, travels across an agricultural field and spans the FE Grand Point-Allegheny Energy 138 kV line near Henry Lane.

- After crossing this road, the Proposed Route extends to the southeast for approximately 4.6 miles over agricultural fields to Yohe Road, where it intersects with the FE Fayetteville-West Waynesboro 138 kV transmission line. This section involves crossing two unnamed WWF streams, one CWF stream, several local roadways, and the FE Fayetteville-Allegheny 69 kV line.
- As the Proposed Route crosses Yohe Road, it also spans to the east side of the FE Fayetteville-West Waynesboro 138 kV transmission line and then turns sharply to the south to parallel this existing line for approximately 1.7 miles; an unnamed CWF stream is crossed in this section, as is Stamey Hill Road.
- A 0.6 mile deviation from the colocation is required in the vicinity of the Manheim Road crossing due residential development that has built up adjacent to the transmission line, and the route then parallels the existing line for 0.5 miles on the eastern side.
- At Hess Benedict Road, the Proposed Route crosses over to the west side of the FE Fayetteville-West Waynesboro 138 kV transmission line to avoid agricultural and residential structures. The route parallels the line for another 3.7 miles, traversing agricultural fields, crossing Orphanage Road, Wayne Highway (SR 316), and Buchanan Trail East (SR 16), as well as an unnamed CWF stream.
- After crossing SR 16 and spanning the FE Antrim-West Waynesboro 69 kV lines, the Proposed Route turns sharply to the west and parallels this line for approximately 0.4 miles. This stretch includes a crossing of Cold Springs Road and an unnamed CWF stream.
- Turning to the south and then east, the Proposed Route extends for 1.2 miles to Marsh Road. The route traverses an agricultural field to avoid agricultural and residential structures, and crosses an unnamed CWF stream, the FE Reid-West Waynesboro 69 kV line, and the FE Ringgold-West Waynesboro 138 kV line.
- After crossing Marsh Road and an unnamed CWF stream, the Proposed Route turns sharply south to parallel the east side of the FE Ringgold-West Waynesboro 138 kV line for 2.1 miles. The Proposed Route crosses agricultural fields, Hagerstown Road (SR 316), the FE West Waynesboro-East Waynesboro 138 kV line, and the West Branch Antietam Creek (CWF) along this stretch. The route extends away from the transmission line corridor to avoid residential structures near the southern end of this section prior to crossing Lyons Road.
- Spanning to the west side of the FE Ringgold-West Waynesboro 138 kV line, the Proposed Route turns south and crosses the Pennsylvania/Maryland state line. The route generally parallels the transmission line for approximately 2.6 miles until it intersects with Gardenhour Road. Some deviations are required along this stretch to

avoid agricultural operations and structures. The route in this section crosses Rocky Forge Road, Ringgold Pike (SR 418), Poplar Grove Road, and Newcomer Road, as well as numerous crossings of various tributaries to Little Antietam Creek.

- Proposed Route crosses Gardenhour Road paralleling the existing transmission line for 0.4 miles and traverses through an orchard.
- Proposed Route extends out for 0.6 miles to the southwest from the transmission line to bypasses around residential structures along Rowe Road and traverses agricultural lands before spanning over to the south side of the FE Reid-Ringgold 138 kV transmission line.
- Proposed Route turns east for 0.7 miles and extends into the southeastern corner of the Ringgold Substation, spanning the FE Ringgold-East Hagerstown 138 kV transmission line and Smithsburg Pike (MD 64) along the alignment.

The right-of-way for the 9A West Project is 130 feet in width, but may vary in certain areas in order to accommodate environmental, engineering, and constructability issues, as well as ensure compliance with required clearances. There are a total of 102 different owners (85 in Pennsylvania) of 129 deeded properties (108 in Pennsylvania) along the route selected for the proposed 9A West Project. Transource PA will continue to negotiate with all affected landowners in an effort to reach a reasonable and mutually acceptable right-of-way agreement and, thereby, avoid the need to condemn rights-of-way across the properties traversed by the 9A West Project.

MAP

A map showing the transmission line route recommended by Transource for the 9A West Project is enclosed.

EXAMINATION

A complete copy of the Application for the 9A West Project is available for examination during ordinary business hours at the following locations:

Alexander Hamilton Memorial Free Library
45 E Main Street
Waynesboro, PA 17268

Mont Alto Campus Library (Penn State Library)
1 Campus Drive
Mont Alto, PA 17237

Coyle Free Library
102 North Main Street
Chambersburg, PA 17201

PARTICIPATION


You are not required to appear or participate in this matter, but you may request Commission permission to intervene. To intervene as a formal party to this proceeding, you should file a petition to intervene with the Secretary of the Pennsylvania Public Utility Commission at P.O. Box 3265 Harrisburg, Pennsylvania 17105-3265. The petition to intervene should state your alleged right or interest to participate in the formal proceeding, the grounds of the proposed intervention, and your position regarding the issues in the formal proceeding. A copy of the petition to intervene should be served on the undersigned counsel for Transource PA.

QUESTIONS

In the event you have any questions concerning the proposed 9A West Project but do not wish to participate as a formal party to the proceeding, you can obtain additional information by: 1) going to the 9A West Project website at <https://transourceenergyprojects.com/rice-ringgold/>, 2) emailing your questions to Outreach@TransourcePA-MD.com or 3) calling 717-229-7043.

Respectfully submitted,

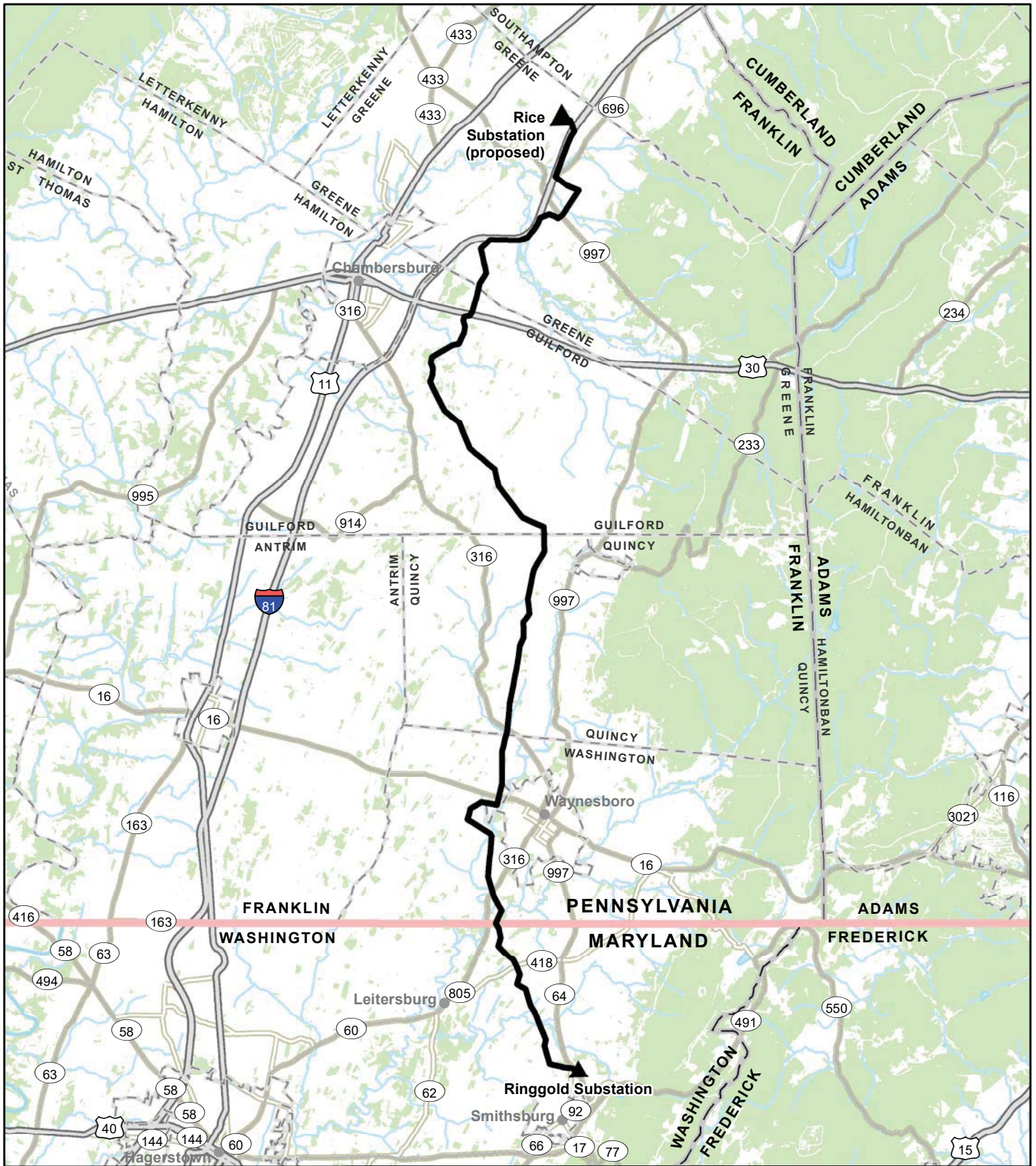
Jessica A. Cano (FL ID. No. 37372)
American Electric Power Service
Corporation
1 Riverside Plaza, 29th Floor
Columbus, OH 43215
Phone: 614-716-2921
Fax: 614-716-1613
E-mail: jacano@aep.com









John F. Povilaitis (PA ID No. 28944)
Alan M. Seltzer (PA ID No. 27890)
409 N. Second Street, Suite 500
Harrisburg, PA 17101
Phone: (717) 237-4800
Fax: (717) 233-0852
Email: john.povilaitis@bipc.com
E-mail: alan.seltzer@bipc.com

Date: May 21, 2026

Attorneys for Transource Pennsylvania, LLC



-  Substation
-  Alternative Route C (Proposed Route)
-  Highway
-  Road
-  Stream
-  Forest Cover

Data Sources: Transource (2026),
Rextag Electric Transmission (2021),
NLCD Forest Cover (2024)

Coordinate System:
UTM Zone 18N
NAD 83



May 11, 2026

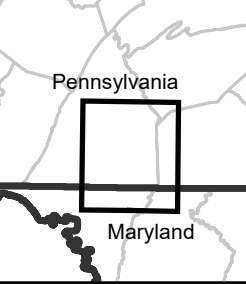


Figure 1
Proposed Route


Rice - Ringgold 230 kV
Transmission Line Project



VERIFICATION

I, Evan K. Dean, Managing Director, Transmission Joint Ventures Governance and Operations, hereby state that the facts set forth above are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: May 21, 2026

By: 
Evan K. Dean, Managing Director
Transmission Joint Ventures Governance
and Operations

**BEFORE THE
PENNSYLVANIA PUBLIC UTILTY COMMISSION**

Application of Transource Pennsylvania, LLC filed :
Pursuant to 52 Pa. Code Chapter 57, Subchapter G, :
for Approval of the Siting and Construction of the : Docket No. A-2026-_____
230 kV Transmission Line Associated with the 9A :
West Project in Portions of Franklin County, :
Pennsylvania :
: :
: :
: :

NOTICE OF FILING CERTIFICATE OF SERVICE

I hereby certify and affirm that I have this day served a copy of the Notice of Filing for the Application of Transource Pennsylvania, LLC filed Pursuant to 52 Pa. Code Chapter 57, Subchapter G, for Approval of the Siting and Construction of the 230 kV Transmission Line Associated with the 9A West Project in Portions of Franklin County, Pennsylvania on the following persons in the manner specified in accordance with the requirements of 52 Pa. Code §1.54:

Via Certified Mail, Return Receipt Requested:

U.S. Army Corps of Engineers
Baltimore District-(Pennsylvania Section)
Regulatory Branch
1631 South Atherton Street
Suite 101
State College, PA 16801-6260
Contact: Wade Chandler, Chief
Pennsylvania Section

U.S. Fish and Wildlife Service
PA Field Office Northeast Region
110 Radnor Road, Suite 101
State College, PA 16801
Contact: Jodie Mamuschia, Field Office
Supervisor

U.S. Environmental Protection Agency –
Region 3
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2029
Contact: Amy Van Blarcom-Lackey,
Regional Administrator

Pennsylvania Department of Transportation
Keystone Building
400 North Street., Fifth Floor
Harrisburg PA 17120
Contact: Mike Carroll, Secretary of
Transportation

Pennsylvania Department of Conservation
and Natural Resources
400 Market Street, 6th floor
Rachel Carson State Office Building
Harrisburg, PA 17105
Contact: Seth Cassell, State Forester

Pennsylvania Department of Environmental
Protection
Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, PA 17110
Contact: Robert DiGilarmo, Regional
Director

Pennsylvania Fish and Boat Commission
1601 Elmerton Avenue
Harrisburg, PA 17106
Contact: Timothy D. Schaeffer, Executive
Director

Pennsylvania Game Commission
8627 William Penn Highway
Southcentral Region
Huntingdon, PA 16652
Contact: Seth Mesoras, Director

Pennsylvania Department of Agriculture
2301 North Cameron Street
Region 6, Room 403
Harrisburg, PA 17110
Contact: Russell Redding, Secretary of
Agriculture

Pennsylvania Historical & Museum
Commission
400 North Street, 2nd floor
Commonwealth Keystone Building
Harrisburg, PA 17120
Contact: Andrea L. MacDonald, Bureau
Director

Milton E. Rotz
Stacey R. Rotz
0 Pine Stump Road
Chambersburg, PA 17202

Jonathan L. Buchert
217 E. Bethesda Road
Barleson, TX 76028

Alan O. Etter
3670 White Church Road
Chambersburg, PA 17202

Joshua L. Diller
Nicole M. Diller
4913 Olde Scotland Road
Shippensburg, PA 17257

Roger L. Diller
Joyce E. Diller
5505 Olde Scotland Road
Shippensburg, PA 17257

Aaron Kauffman
4220 Olde Scotland Road
Chambersburg, PA 17202

Forrester Farms II
3162 White Church Road
Chambersburg, PA 17202

IESI PA Blue Ridge Landfill
P.O. Box 399
Scotland, PA 17254

Kevin L. Gayman
Faye I. Gayman
11132 Tanyard Hill Road
Orrstown, PA 17244

Chambersburg Mall Realty LLC, et al
150 Great Neck Road
Great Neck, NY 11021

Edward Rotz
Marlin Rotz
205 Mt. Union Road
Fayetteville, PA 17222

Fred J. Byers
1863 Coldsmith Road
Shippensburg, PA 17257

Elam H. Reiff
Mary Z. Reiff
275 Goodhart Road
Shippensburg, PA 17257

Lemma & O'Connor Investors LLC
3272 St. Andrews Drive
Chambersburg, PA 17202

Keith H. Benedict, et al
3865 Henry Road
Chambersburg, PA 17202

Karen S. Wildeson
2778 Mont Alto Road
Chambersburg, PA 17202

Lois M. White
1406 Walker Road
Chambersburg, PA 17202

Derek Benedict et al
1883 Ragged Edge Rd
Chambersburg, PA 17202

Marlin Wingert
Marilyn Wingert
1550 Walker Road
Chambersburg, PA 17202

Joel R. Mower
683 Mower Road
Chambersburg, PA 17202

Forrester Family Farms LLC
3162 White Church Road
Chambersburg, PA 17202

GBR Lincoln Highway Limited
150 White Plains Road
Tarrytown, NY 10591

Patriot Federal Credit Union
800 Wayne Avenue
Chambersburg, PA 17202

Lowe's Home Centers
1000 Lowes Boulevard
 Mooresville, NC 28117

Donald L. Martin
Denise M. Martin
1946 Newcomer Road
Chambersburg, PA 17202

Guilford Water Authority
115 Spring Valley Road
Chambersburg, PA 17202

Chambersburg Area School District
511 South Sixth Street
Chambersburg, PA 17201

Allen A. Stine
867 Cider Press Road
Chambersburg, PA 17202

Smith Properties
P.O. Box 2013
Chambersburg, PA 17202

Richard L. Leshar
Agnes M. Leshar
1126 Cider Press Road
Chambersburg, PA 17202

Allen W. Rice
Lori C. Rice
1430 Henry Lane
Chambersburg, PA 17202

Nevin P. Wenger
Raedella A. Wenger
2249 Newcomer Road
Chambersburg, PA 17202

Willis M. Leshar Partnership
1153 Swamp Fox Road
Chambersburg, PA 17202

Colby S. Nitterhouse
Leah A. Nitterhouse
2479 Newcomer Road
Chambersburg, PA 17202

Roger A. Garber
Margaret L. Garber
2815 Newcomer Road
Chambersburg, PA 17202

Donald L. Martin
Denise M. Martin
1946 Newcomer Road
Chambersburg, PA 17202

Ivan H. Benedict
Ruby E. Benedict
3307 College Drive
Chambersburg, PA 17202

Ivan D. Horst
Ellen M. Horst
2637 Sollenberger Drive
Chambersburg, PA 17202

Jason M. Hostetter
Rosalie J. Hostetter
2048 Guilford Station Rd
Chambersburg, PA 17202

Fred E. Rice
Doreen K. Rice
3210 Church Road
Chambersburg, PA 17202

Roy M. Cordell
Emma L. Cordell
4690 Fetterhoff Chapel Rd
Chambersburg, PA 17202

Daniel W. Benedict
Clara Sue Benedict
4574 Altenwald Road
Waynesboro, PA 17268

Daniel R. Strite
Doreen F. Strite
6032 Buttermilk Road
Waynesboro, PA 17268

Donald L. Martin
Denise M. Martin
1946 Newcomer Road
Chambersburg, PA 17202

Brian D. Brechbill
Michelle L. Brechbill
3820 Fetterhoff Chapel Rd
Chambersburg, PA 17202

Mark E. Gayman
11742 Gehr Road
Waynesboro, PA 17268

Jonathan P. Baker
Rosalie M. Baker
9380 Five Forks Road
Waynesboro, PA 17268

Mark E. Gayman
Sally A. Gayman
5460 Stamy Hill Road
Waynesboro, PA 17268

Mahlon R. Eby
Debra S. Eby
6685 Anthony Highway
Waynesboro, PA 17268

John V. Rudolph
Eunie Rudolph, Jr.
7270 Buttermilk Road
Waynesboro, PA 17268

Rodney A. Meyer
5413 Manheim Road
Waynesboro, PA 17268

Lamar V. Rudolph
Edna F. Rudolph
5401 Manheim Road
Waynesboro, PA 17268

Harlan D. Hess
Carrie E. Hess
8200 Helman Road
Waynesboro, PA 17268

Robert T. Morgan
Judith A. Morgan
5516 Manheim Road
Waynesboro, PA 17268

Stephen L. Martin
Esther N. Martin
6000 Manheim Road
Waynesboro, PA 17268

Marlin L. Martin
Carrie R. Martin
8686 Pleasant Ridge Road
Harrisonville, PA 17228

John A. Steiger
Allison F. Steiger
5465 Hess Benedict Road
Waynesboro, PA 17268

Roy B. Biesecker
Susan L. Biesecker
8410 Wayne Highway
Waynesboro, PA 17268

Brethren United Orphanage
6596 Orphanage Road
Waynesboro, PA 17268

Roy S. Martin
Regina F. Martin
4913 Shady Lane
Waynesboro, PA 17268

DC Farms LLC
13689 Dream Highway
Newburg, PA 17240

Charles W. Mellott
9702 Wayne Highway
Waynesboro, PA 17268

Daniel S. Long
6405 Nunnery Road
Waynesboro, PA 17268

Albert L. Horst
Brenda K. Horst
5967 Tick Ridge Rd
Waynesboro, PA 17268

John E.N. Blair
11611 Prices Church Road
Waynesboro, PA 17268

Trademark Development Corp.
9932 Mentzer Gap Road
Waynesboro, PA 17268

Jane M. Zaiger
10329 Wayne Highway
Waynesboro, PA 17268

Denver N. Martin
Katrina J. Martin
6973 Nunnery Road
Waynesboro, PA 17268

Ronald P. Stoner
Doris M. Stoner
12477 Cold Springs Rd.
Waynesboro, PA 17268

Jack E. Martin
Emily L. Martin
12574 Polktown Road
Waynesboro, PA 17268

Joseph N. Weagley
6413 Marsh Road
Waynesboro, PA 17268

Owls Club Incorporated
87 West Main Street
Waynesboro, PA 17268

Daniel J. Eshleman
Elaine J. Eshleman
13868 N. Hoovers Mill Rd
Waynesboro, PA 17268

Norman J. Diller
Bonna J. Diller
20660 Millers Church Rd
Hagerstown, MD 21742

Merlin D. Eshleman
Renee Eshleman
14089 N. Hoovers Mill Rd
Waynesboro, PA 17268

Laverne Martin
Ellen Martin
14578 Wayne Highway
Waynesboro, PA 17268

Leslie Fahrney
915 Park Street
Waynesboro, PA 17268

Mary Ann Fox
6977 Iron Bridge Road
Waynesboro, PA 17268

Jack F. Martin et al
12574 Polktown Road
Waynesboro, PA 17268

Bruce I. Neibert Jr.
14819 Wayne Highway
Waynesboro, PA 17268

Andrew L. Carr
Sherri R. Carr
14808 Wayne Highway
Waynesboro, PA 17268

Gerald L. Zeigler
Jennifer S. Zeigler
14924 Wayne Hwy
Waynesboro, PA 17268

Tunde T. Tijani
503 Brookview Drive
Greencastle, PA 17225

Samuel A. Jones
Mandy L. Jones
7583 Lyons Road
Waynesboro, PA 17268

Kyle E. Schindel
Kelly A. Schindel
22032 Rocky Forge Road
Hagerstown, MD 21740

Myron J. Miller
Fern L. Miller
9180 Goods Dam Road
Waynesboro, PA 17268

Clarence W. Cook Jr.
22236 Ringgold Pike
Hagerstown, MD 21742

Louise E. Messler
22235 Ringgold Pike
Hagerstown, MD 21742

Leroy M. Hostetter
22001 Grove Road
Hagerstown, MD 21742

Richard A. Newcomer
13811 Poplar Grove Road
Hagerstown, MD 21742

Samuel C. Hunter
13651 Newcomer Road
Hagerstown, MD 21742

John S. Martin
22632 Gardenhour Road
Smithsburg, MD 21783

Paul A. Baker
22622 Gardenhour Road
Smithsburg, MD 21783

Boyd E. Frushour Jr.
22614 Gardenhour Road
Smithsburg, MD 21783

Gardenhour Orchards Inc.
P.O. Box 275
Smithsburg, MD 21783

Anne C. Winters
2934 Hamaker Lane
Smithsburg, MD 21783

William G. Gardenhour III
22511 Gardenhour Road
Smithsburg, MD 21783

Brocroft Kennels LTD
12936 Bradbury Ave
Smithsburg, MD 21783

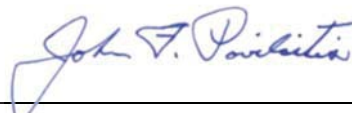
Strite Family Enterprises
21640 Leitersburg Smithsburg Rd
Hagerstown, MD 21742

Potomac Edison Co (First Energy)
Tax Dept
800 Cabin Hill Dr
Greensburg, PA 15601

Richard Lee Grove
13001 Rowe Road
Smithsburg, MD 21783

James P. Mace
12908 Bikle Road
Smithsburg, MD 21783

Date: May 21, 2026



John F. Povilaitis
Buchanan Ingersoll & Rooney PC
400 North 2nd Street
Harrisburg, PA 17101
(717) 237-4825
John.povilaitis@bipc.com