APPALACHIAN POWER

AEP

BOUNDLESS ENERGY

POWER ENGINEERS, INC.
11 S. 12TH STREET
SUITE 315
RICHMOND, VA 23219 USA

January 30, 2020

Ms. Susan Adams
County Administrator
Appomattox County
P.O. Box 863
Appomattox, VA 24522

RE: Appalachian Power Company – Central Virginia Transmission Reliability Project: Albemarle, Amherst, Appomattox, Campbell and Nelson Counties and the City of Lynchburg, Virginia

Ms. Adams,

Appalachian Power Company is proposing the Central Virginia Transmission Reliability Project (the Project), which is comprised of several components. Appalachian Power Company contracted POWER Engineers, Inc. (POWER) to conduct siting studies for the Project's components and prepare the Certificate of Public Convenience and Necessity application for filing with the Virginia State Corporation Commission (SCC). On behalf of Appalachian Power Company, POWER is requesting your input on three phases: Joshua Falls – Gladstone, Shipman – Schuyler and Amherst – Reusens. The Project provides a new electrical source to the region, increases reliability to customers and supports the retirement of aging infrastructure in Albemarle, Amherst, Appomattox, Campbell and Nelson counties.

Joshua Falls – Gladstone consists of the following:

- Construct approximately 15 miles of new single-circuit 138 kilovolt (kV) transmission line between the Joshua Falls, Riverville and Gladstone substations (Amherst, Appomattox, Campbell and Nelson counties).
- Expand the Amherst and Riverville substations (Amherst and Nelson counties).
- Upgrade the Boxwood Substation (Amherst County).

Shipman – Schuyler consists of the following:

- Build the new James River 138 kV Substation and short new double-circuit 138 kV transmission line tap in Nelson County. The James River Substation will replace the existing Shipman 46 kV Substation, which will be retired.
- Build the new Soapstone 138 kV Substation and short new double-circuit 138 kV transmission line tap in Nelson County. The Soapstone Substation will replace the existing Schuyler 46 kV Substation.

Amherst – Reusens consists of the following:

- Rebuild approximately 12 miles of existing single-circuit 69 kV transmission line between the Amherst and Reusens substations (Amherst County and the City of Lynchburg).

The Joshua Falls – Gladstone and Shipman – Schuyler components support the future retirement of Appalachian Power's aging 46 and 69 kV transmission system (approximately 30 miles) upon completion of the Project. The Amherst – Reusens component is needed as a direct result of the

Project resulting in thermal violations. The Project will provide a new robust 138 kV source in the region and thus strengthen the local grid while reducing the likelihood of extended outages to customers.

Appalachian Power Company and POWER have identified preliminary study segments for the proposed Joshua Falls – Gladstone 138 kV transmission line and a study area for the proposed 138 kV substations and Amherst – Reusens rebuild. **Attachment 1** shows the preliminary study segments for the new 138 kV transmission line. **Attachment 2** shows the proposed 138 kV substations vicinities. **Attachment 3** shows the existing 69 kV transmission line to be rebuilt.

Appalachian Power Company is interested to know if your agency has any specific concerns about the above mentioned Project phases. We appreciate your input and your comments will be incorporated into the filing with the SCC. Please distribute this notification to staff members who may be involved with the phases for review and comment.

Should you have questions, please contact me via email at emily.larson@powereng.com or by phone at 609-570-2772. If you wish to speak with an Appalachian Power Company representative, please contact Scott Kennedy via email at skennedy@aep.com or by phone at 540-759-5608.

Sincerely,

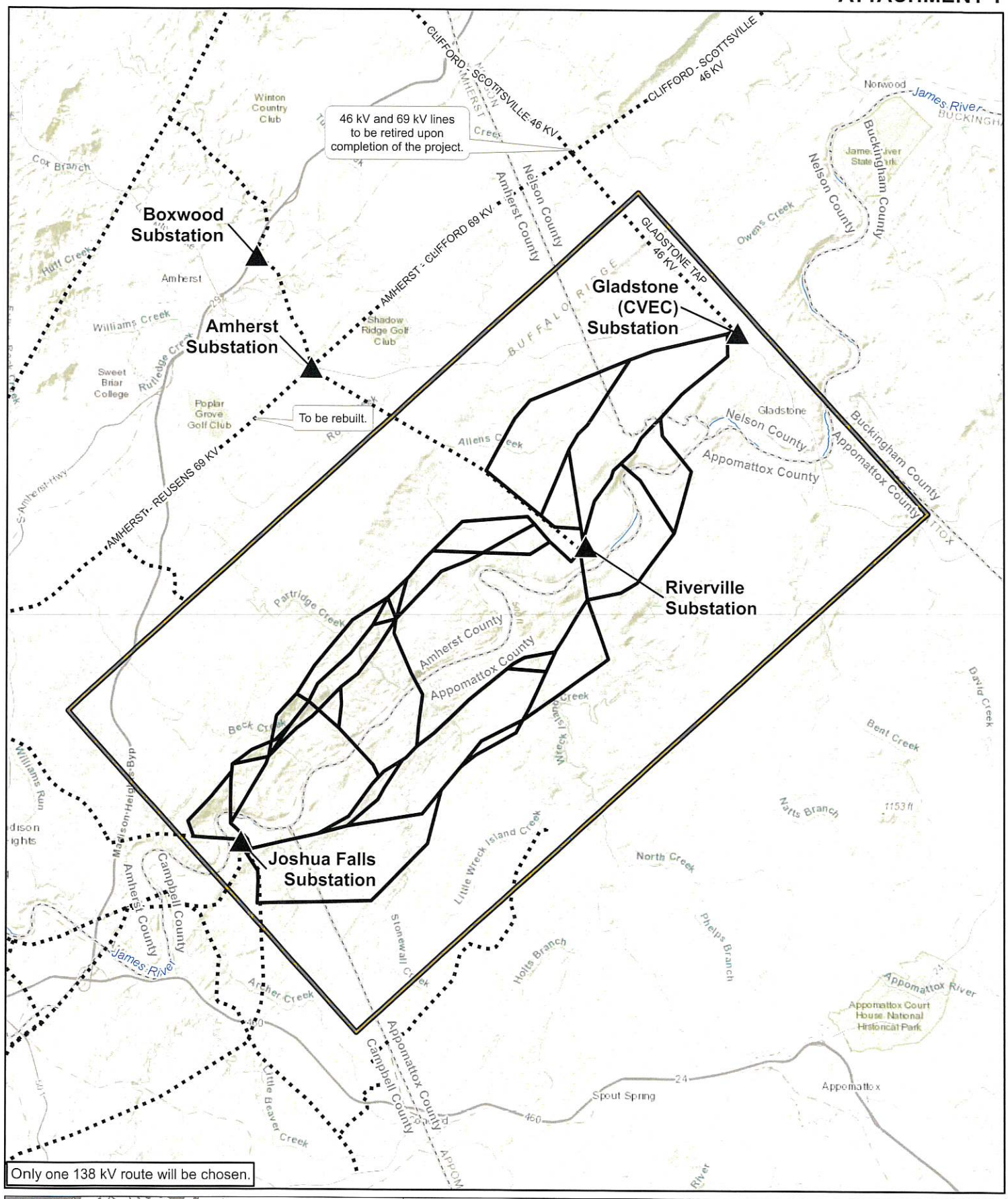
Emily Larson

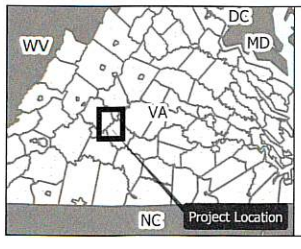
Emily Larson
POWER Engineers, Inc.

Enclosure(s): Attachment 1: Joshua Falls – Gladstone 138 kV Preliminary Study Segments Map
Attachment 2: Shipman – Schuyler 138 kV Substations Vicinities Map
Attachment 3: Amherst – Reusens 69 kV Transmission Line to be Rebuilt Map

ATTACHMENT 1

JOSHUA FALLS – GLADSTONE 138 KV PRELIMINARY STUDY SEGMENTS MAP





- Existing Substation
- 138 kV Preliminary Study Segments
- Existing Transmission Line
- County Boundary
- Project Study Area

0 1 2
Mile

Amherst, Appomattox, Campbell, and Nelson Counties Virginia

NAD 1983 HARN StatePlane Virginia South FIPS 4502 Feet
Foot US
Lambert Conformal Conic
North American 1983 HARN

Date:1/8/2020
Author: KK
Project: 153520, 153521

Central Virginia Transmission Reliability Project

Joshua Falls - Gladstone

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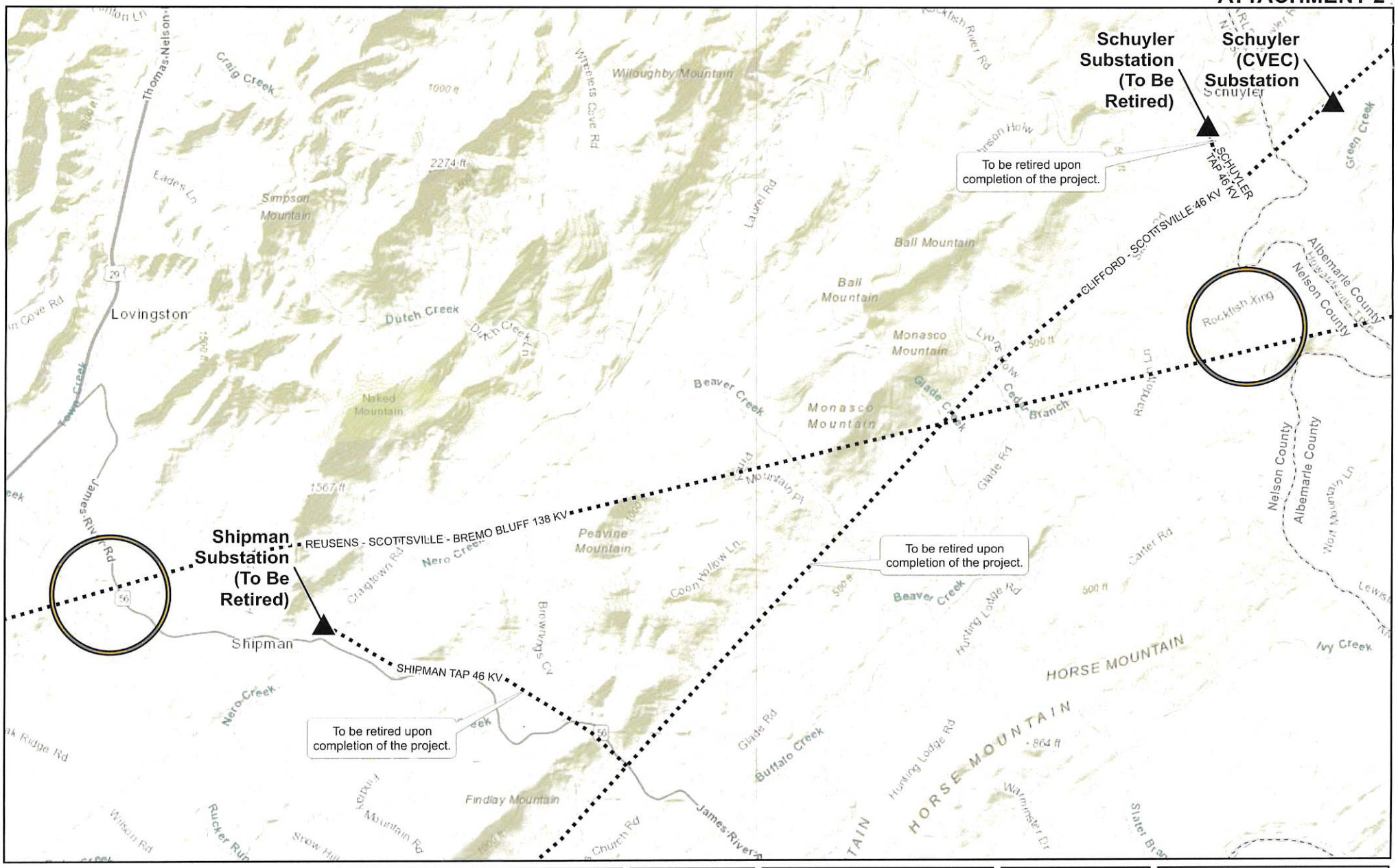
ATTACHMENT 2

SHIPMAN – SCHUYLER 138 KV SUBSTATIONS VICINITIES MAP

ATTACHMENT 2



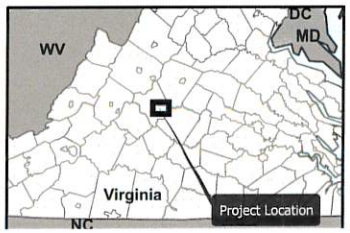
Existing Substation

Existing Transmission Line

Proposed 138 kV Substation Vicinity

County Boundary

0 0.5 1 Miles



Nelson County
Virginia

NAD 1983 HARN StatePlane Virginia South FIPS 4502 Feet
Lambert Conformal Conic
North American 1983 HARN

Date: 1/8/2020
Author: KK
Project: 149231, 149232

Central Virginia Transmission Reliability Project
Shipman - Schuyler

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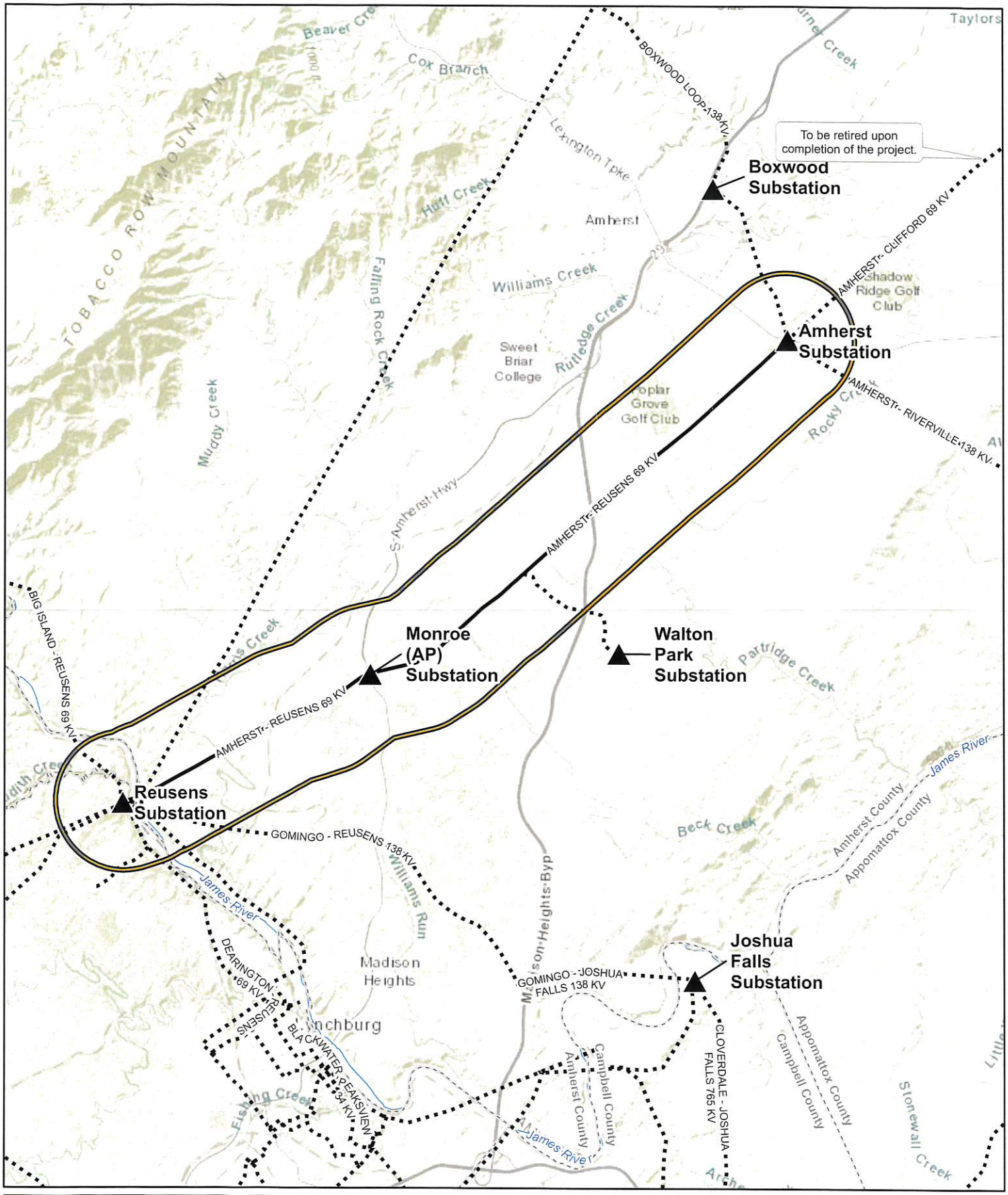
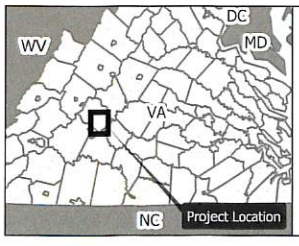
ATTACHMENT 3

AMHERST – REUSENS 69 KV TRANSMISSION LINE TO BE REBUILT MAP





Existing Substation
69 kV Transmission Line to be Rebuilt
Existing Transmission Line
City/County Boundary
Project Study Area

0 1 2
Mile

Amherst County & Lynchburg City
Virginia

NAD 1983 HARN StatePlane Virginia South FIPS 4502 Feet
Foot US
Lambert Conformal Conic
North American 1983 HARN

Date:1/8/2020
Author: KK
Project: 153520, 153521

Central Virginia Transmission Reliability Project

Amherst - Reusens

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