

# Subregional RTEP Committee – Western AMPT Supplemental Projects

April 14, 2022

# AMPT Projects in ATSI Transmission Zone: Supplemental Amherst, OH

**Need Number:** AMPT-2021-005

**Process Stage:** Submission of Supplemental Project for Inclusion in the Local Plan

**Previously Presented:**

Solution Meeting – 2/18/2022, Need Meeting – 11/19/2021

**Supplemental Project Driver(s):** Customer Service

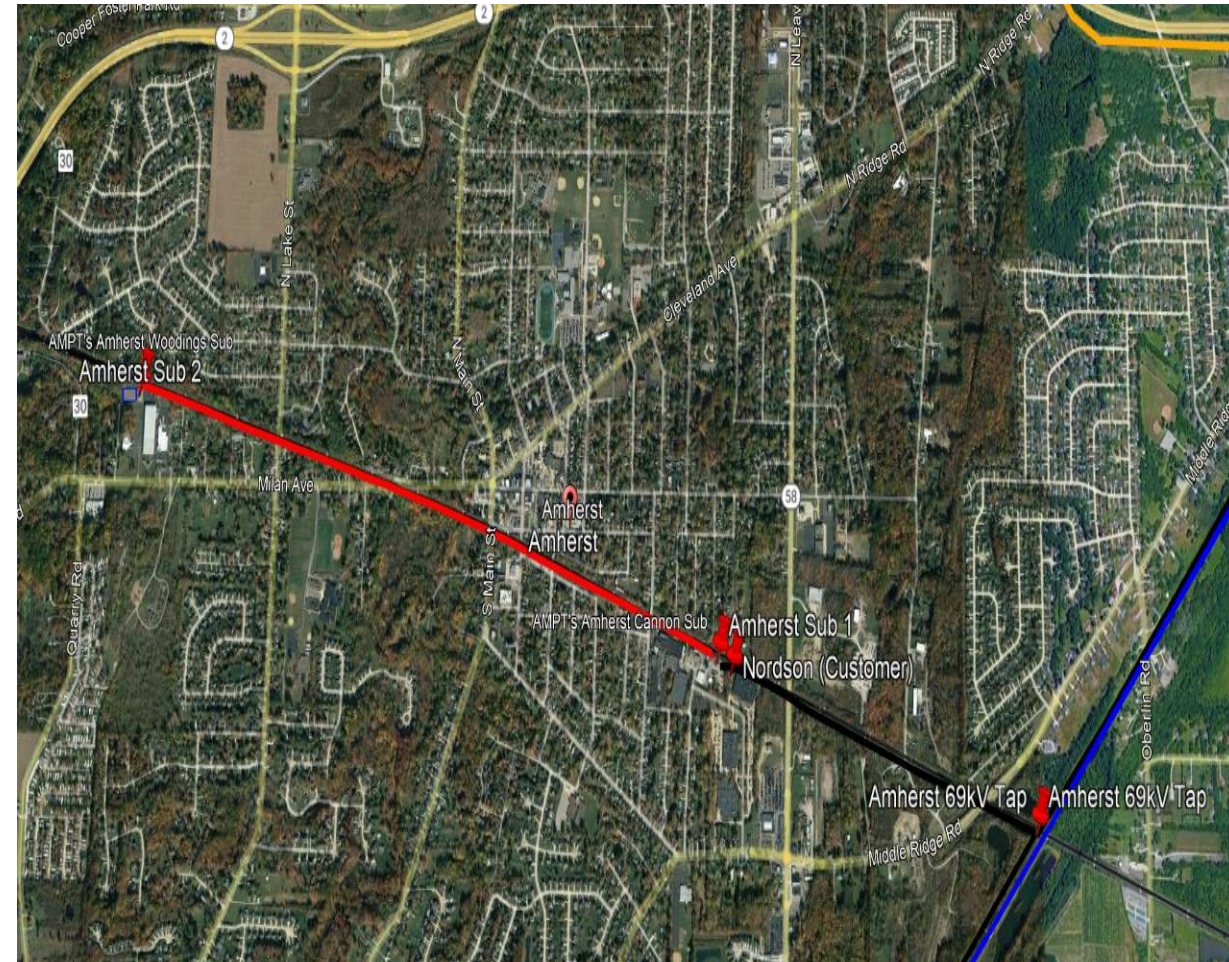
**Specific Assumption Reference(s):** AMPT Transmission Facilities Interconnection Requirements Document

**Problem Statement:**

AMPT's Amherst Tap is an approximately 1.85 mile segment of a 2.85 mile radial tap supplied from ATSI's Henrietta-Johnson 69 kV line. Two stations are served off the Tap – Woodings and Cannon.

The City of Amherst has requested a 2<sup>nd</sup> supply to support the load (approximately 28 MVA). The radial supply presents a single point of failure that jeopardizes reliability for the City.

AMPT's Transmission Facilities Interconnection Requirements specify looped facilities for loads exceeding 5 MVA or 35 MW-mile thresholds.



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**Proposed Solution:**

*AMPT Identified Scope*

- Construct a greenfield 138 kV double circuit line for approximately 0.4 miles using 954 54/7 kcmil ACSS conductor and tap into the existing Beaver-Black River (ATSI) 138 kV line. **(\$1.53 M)**
- At Woodings (Amherst Sub #2) 69/12 kV Substation - Expand the sub with the installation of three (3) 138 kV circuit breakers; Install one (1) 138/69/12kV 130 MVA transformer; upgrade the 69 kV bus to 2000A, install two (2) 69 kV circuit breakers **(\$8.8 M)**
- At Cannon (Sub #1) 69/12 kV Sub - Install one (1) 69 kV breaker towards Nordson; Replace 600A bus disc switch with one rated at 1200A **(\$0.92 M)**

*FE Identified Scope*

- Design/Construct Tap Structure(s) at tap location
- Replace relays at Black River substation
- Complete fiber connection at Beaver and Black River substation

**Alternatives Considered:**

Rebuild existing 69 kV line between Woodings and Cannon substation to 69 kV double circuit configuration.

- This option was not selected as a tower outage would still interrupt all the load in the area, temporary facilities would be required during construction, and limited additional ROW.

**Ancillary Benefits:**

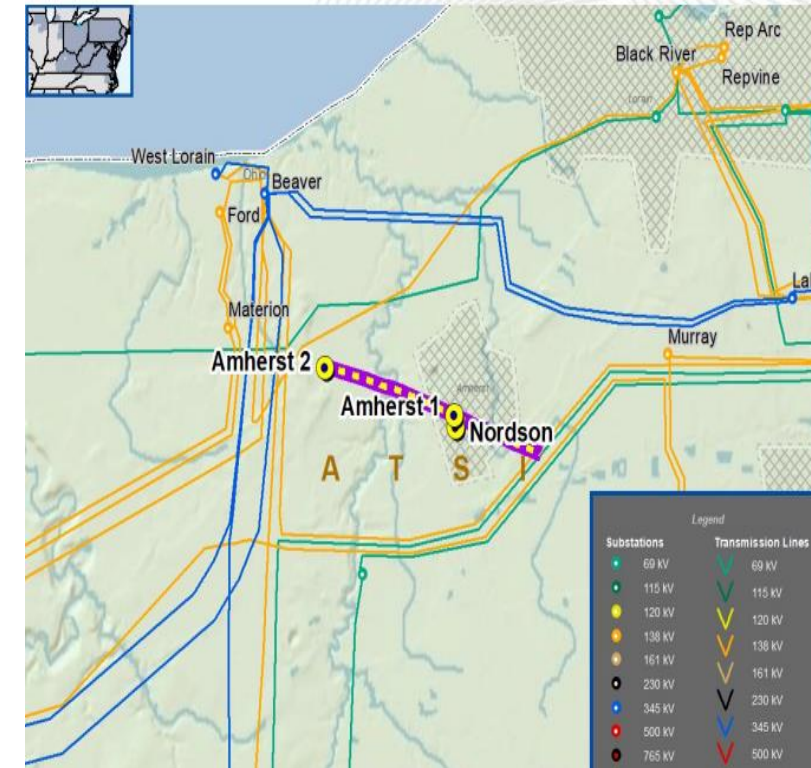
This project to be sequenced prior to FE's project to build the new Dewey 69 kV Substation (s1948). This project will accommodate that work to be completed without the need for temporary facilities.

**Total Estimated Transmission Cost: \$11.25 M**

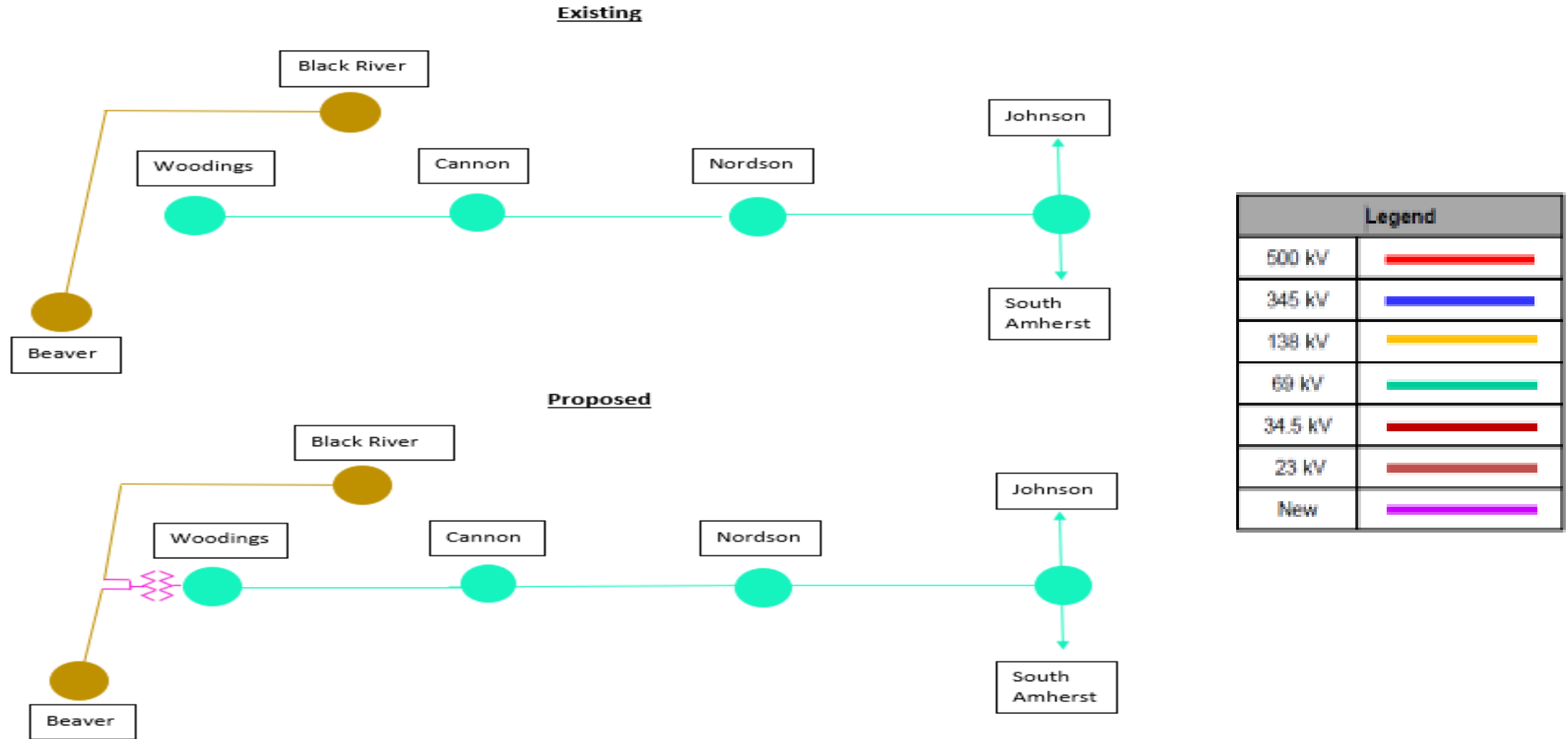
**Projected In-Service: 12/31/2023**

**Supplemental Project ID: s2671**

**Project Status: Engineering**



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# Revision History

4/14/2022 – V1 – Original version posted to pjm.com (s2671)