

# O42 Asset Condition Refurbishment Project

Open House

national**grid**



# Project Overview

## O42 Asset Condition Refurbishment Project

### Need

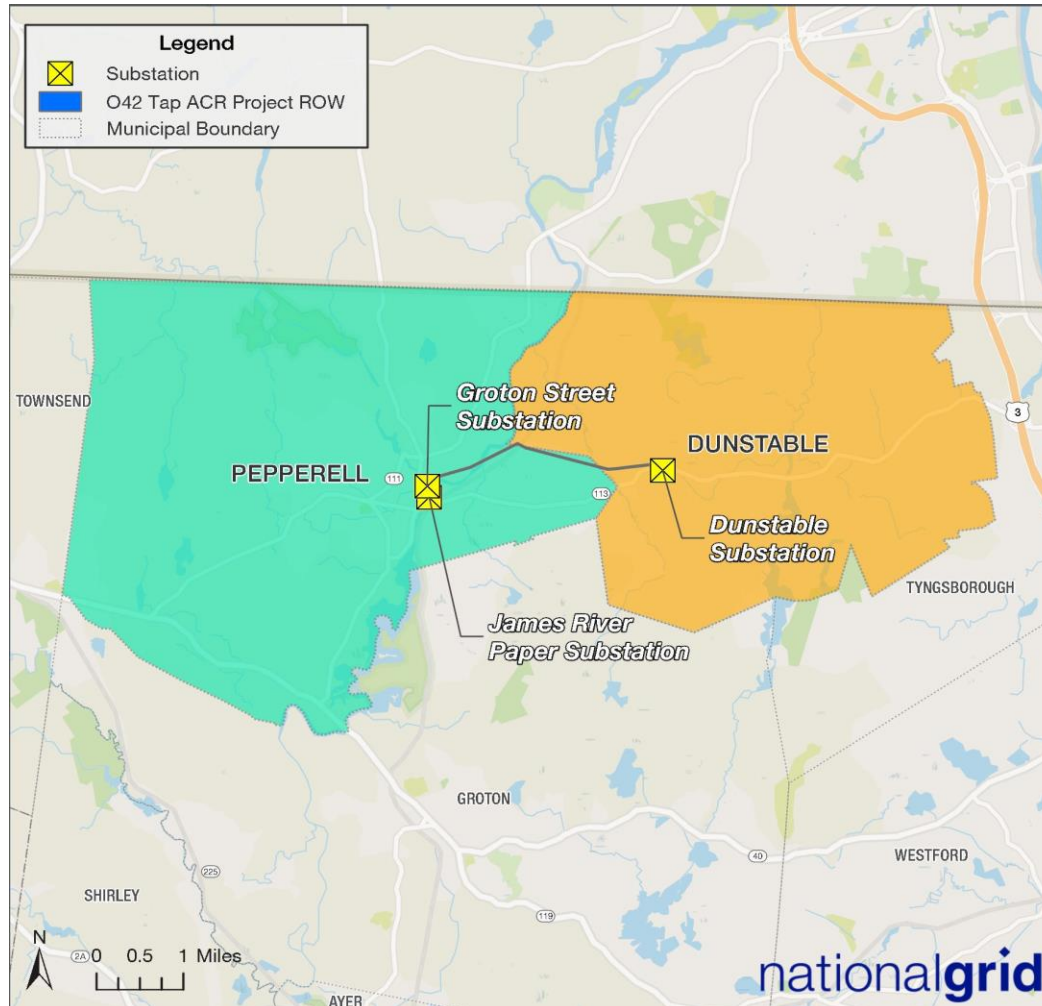
The project will address ongoing woodpecker damage throughout the structures of the transmission line and in the process, will upgrade the structures from 69kV (kilovolts) to 115kV. The line will remain in operation as 69kV until 115kV use is needed. To complete this upgrade, all existing structures will be replaced with steel poles, new wires, and an optical grounding wire (OPGW) will also be installed. The goal of these upgrades is to increase the reliability of the transmission line and install telecommunications between the James River Paper, Groton Street and Dunstable Substations.

### Scope

Complete upgrade of the transmission lines including:

- Replace all existing wood structures with engineered steel structures at 115kV design standard
- Reconductor 3.2 miles and replace shield wire with OPGW
- Install new grounding and signage for all structures to conform to current standards
- Access improvements as necessary, including vegetation management and tree removals

# Area Overview: O42



# Project in Pepperell

**Total Distance: 2.2 miles**

**Number of Structures:**

Existing: 55

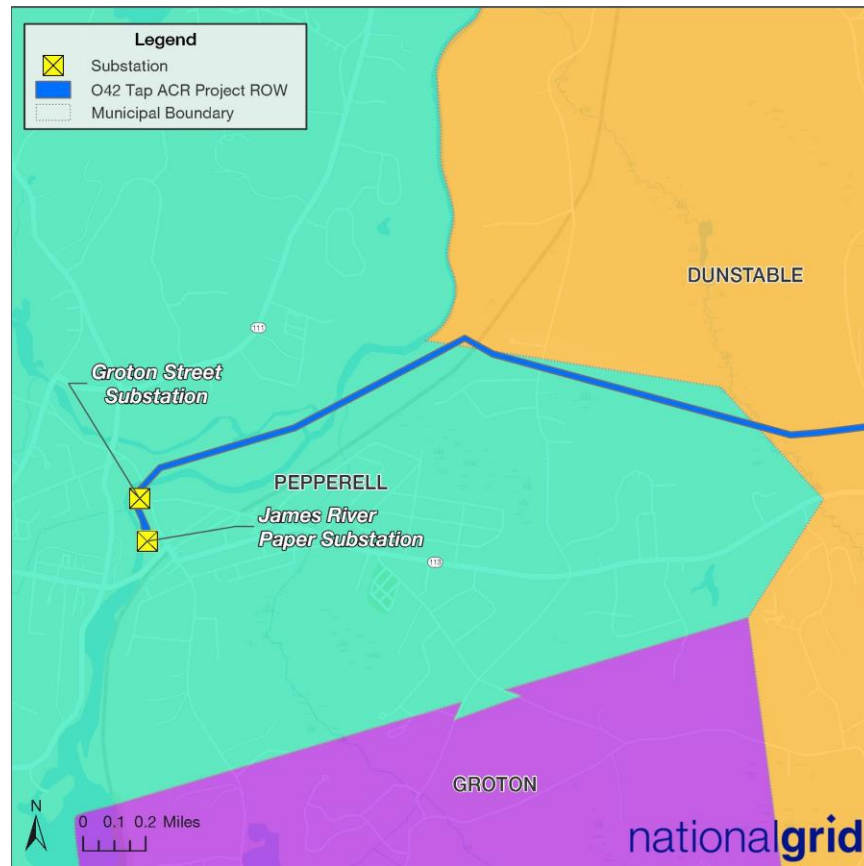
Proposed: 29

Net reduction: 26

**Structure Heights:**

Existing Average: 43ft

Proposed Average: 82ft





# Project in Dunstable

**Total Distance: .94 miles**

**Number of Structures:**

Existing: 24

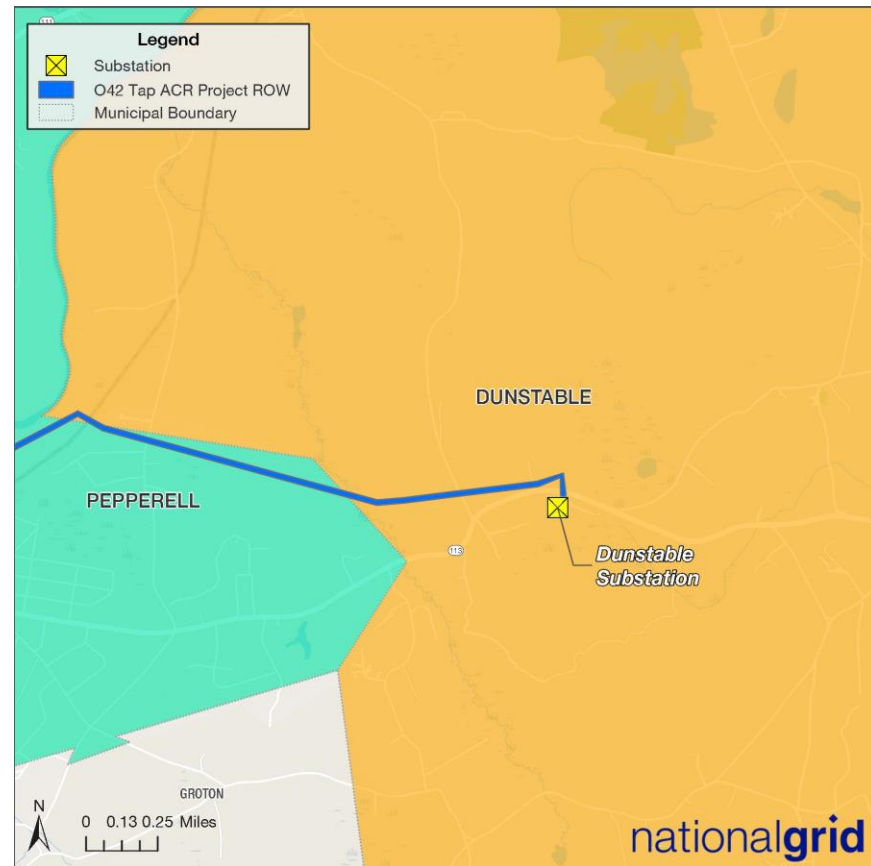
Proposed: 13

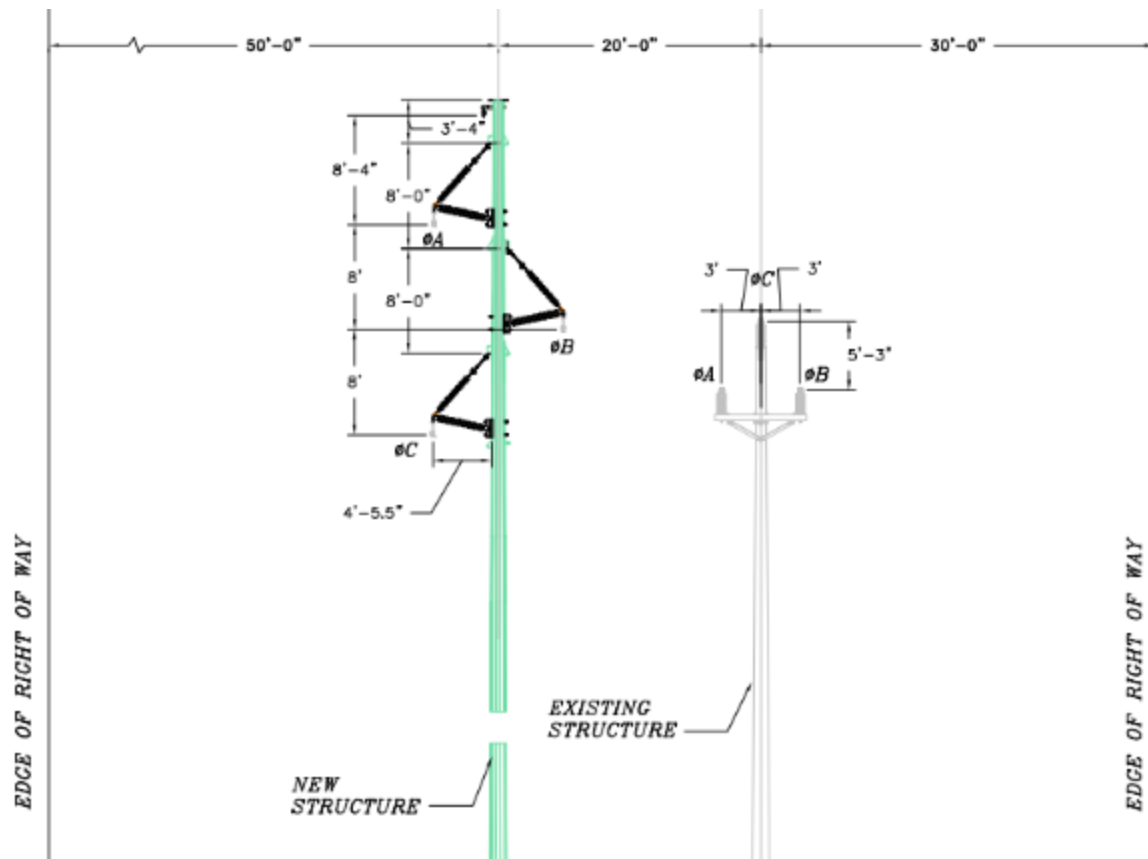
Net reduction: 11

**Structure Heights:**

Existing Average: 45ft

Proposed Average: 89ft





# Permitting Process

## Environmental Permitting (not all inclusive):

- MA Department of Environmental Protection (MA DEP) – 401 Water Quality Certificate
- MA DEP - Chapter 91 Waterways Maintenance Notification
- MA DEP - Wetlands Protection Act - Order of Conditions
- U.S. Army Corps of Engineers – Section 404 General Permit
- Massachusetts Natural Heritage and Endangered Species Program (NHESP) – MA Endangered Species Act (MESA) Determination
- U.S Environmental Protection Agency (USEPA) – Construction General Permit

## Local Permitting:

- Municipal Conservation Commissions - Wetlands Protection Act Order of Conditions
- Municipal and State Non-Environmental Permitting as required (e.g. DOT, DCR, Planning Board, etc.)

# Project Schedule

*\*Dates subject to change*



## **Stakeholder Outreach:** Winter 2022 - Ongoing

Mailed Notifications, Open Houses, Abutter meetings

## **Field Assessments:** Spring 2023 - Ongoing

Construction Reviews, Environmental Field Work, Land Survey, Access Reviews, Cultural Resource Testing, Soil Borings

## **Vegetation Management:**

Prior to Construction: Early Spring 2025

## **Permitting:** 2024 to 2025

Includes federal, state and local reviews

## **Construction and Restoration:**

Access Roads: April 2025

Line Construction: August 2025 – October 2026

Locations will be communicated prior to commencement



# Thank You

For more information, please visit or reach our Public Engagement team at:

Dedicated Project Hotline: (800) 674-9510 ext. 2

Email: [Info@O42project.com](mailto:Info@O42project.com)

Website: <https://www.nationalgridus.com/construction-projects/Community-Projects/O42-Transmission-Line-Project/>

