

# **Tysons – (future) Spring Hill**

## *230 kV Underground Transmission Line Project*

**Summer 2020**

# Outline

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- Project Need
- Scope of Work
- Community Engagement
- Timeline

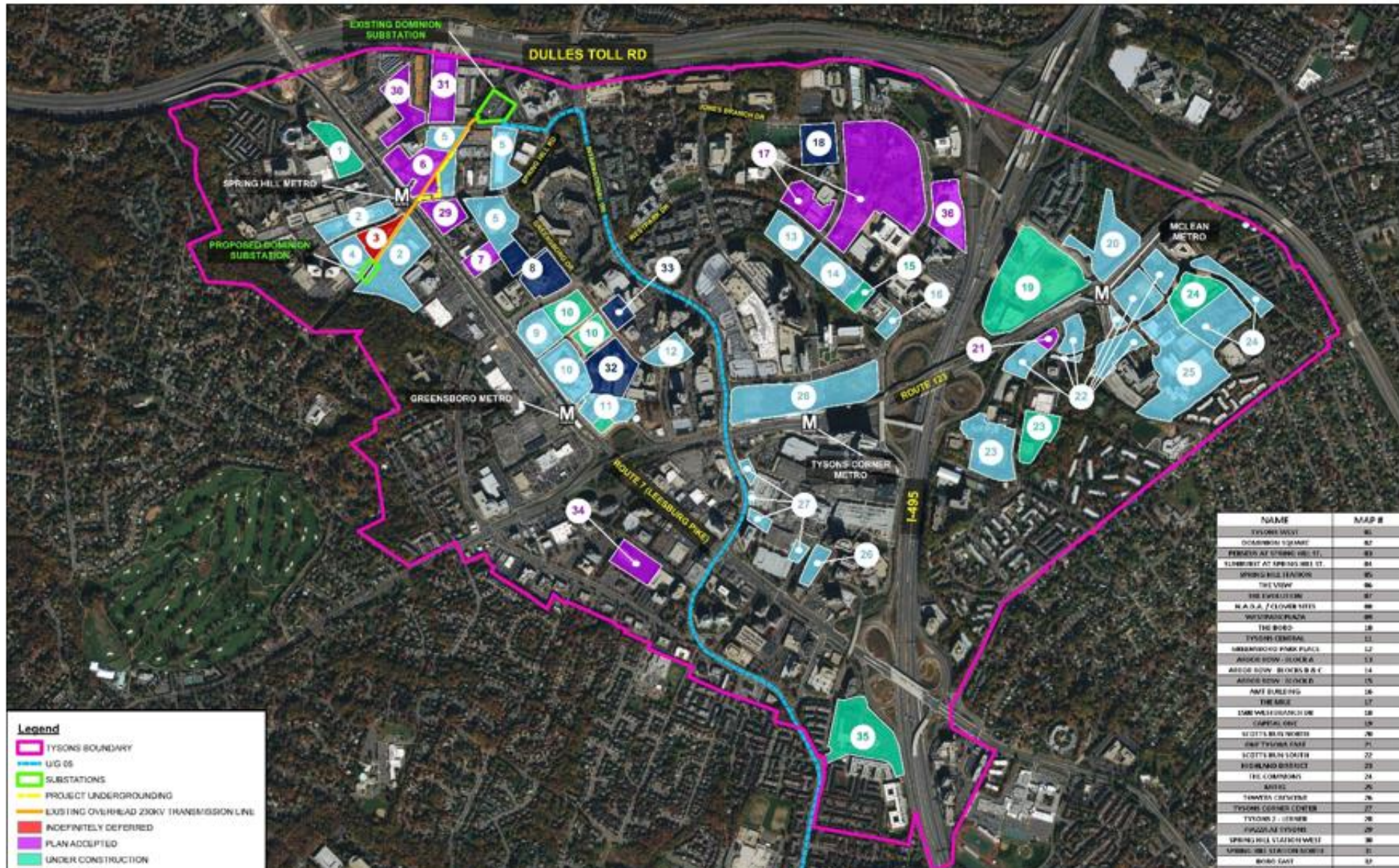


Gensler



# Pending and Approved Zoning Applications

## Total Square Footage: 60 Million+



# Project Drivers

- Undergrounding helps achieve Fairfax County's Comprehensive Plan's economic development goals
  - “Locate transmission and distribution lines underground, whenever possible.” [Fairfax County Policy Plan, Public Facilities, Objective 42.c., 2017]
- Addresses existing overhead lines conflict with planned grid of streets
- Resolves potential conflicts with the above-ground Silver Line Metro
- Aligns with planned parks and open spaces

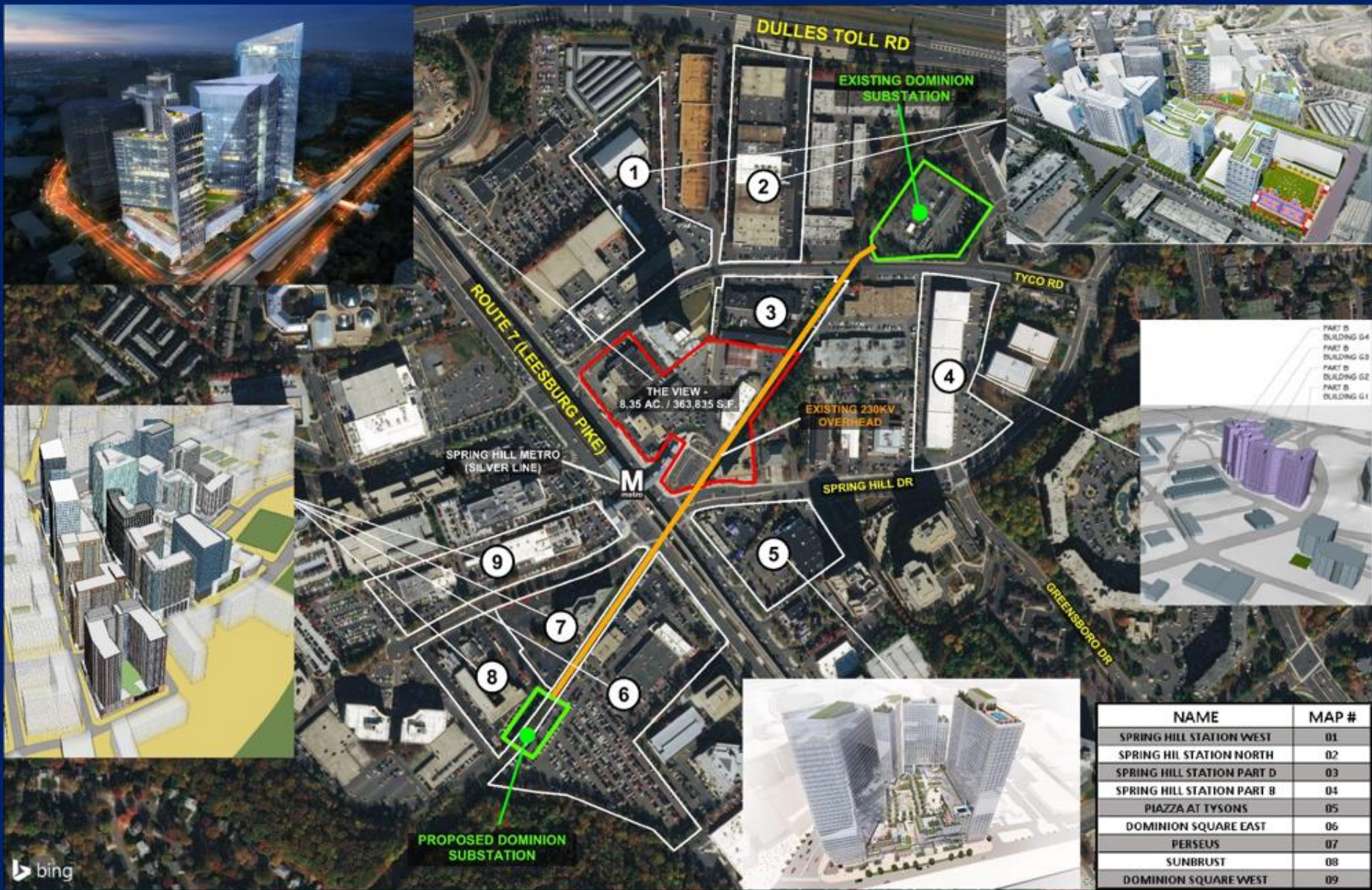


# Area Projections

- By 2050, Dominion Energy projects that Tysons growth will generate demand for an additional 738 MVA requiring substantial additional infrastructure [Fairfax County Comprehensive Plan, Tysons Urban Center]
- Dominion Energy's existing Tysons distribution at the Tyco Road Substation will generally serve the portion of Tysons north of Leesburg Pike & west of Route 123 [Fairfax County Comprehensive Plan, Tysons Urban Center pg. 96]
- A second distribution substation (future Spring Hill), adjacent to Dominion Energy's existing high voltage transmission line will generally serve the south side of Leesburg Pike, west of I495. [Fairfax County Comprehensive Plan, Tysons Urban Center pg. 96]









# HB/SB 576 Undergrounding ET Lines – Pilot

Specifies that one of the two projects that may be included in the pilot program for the undergrounding of electric transmission lines shall be **for the relocation or conversion of an existing 230-kilovolt overhead line to an underground line**. The measure provides that such a project may be approved if the estimated additional cost of placing the line, in whole or in part, underground **does not exceed \$40 million or, if greater than \$40 million, does not exceed 2.5 times the costs of placing the same line overhead**, which costs are borne by all of the utility's ratepayers through a rate adjustment clause [and]... if its primary need is related to the **economic development priorities and the comprehensive plan of the governing body of the locality** in which at least a portion of line will be placed... to further understanding of the benefits of undergrounding existing electric transmission lines to promote economic development.



# Tysons to Future Spring Hill Transmission Line: Existing Overhead Line Poles 2, 3 & 10 – 40+ Years Old

ATTACHMENT I.B.5.a

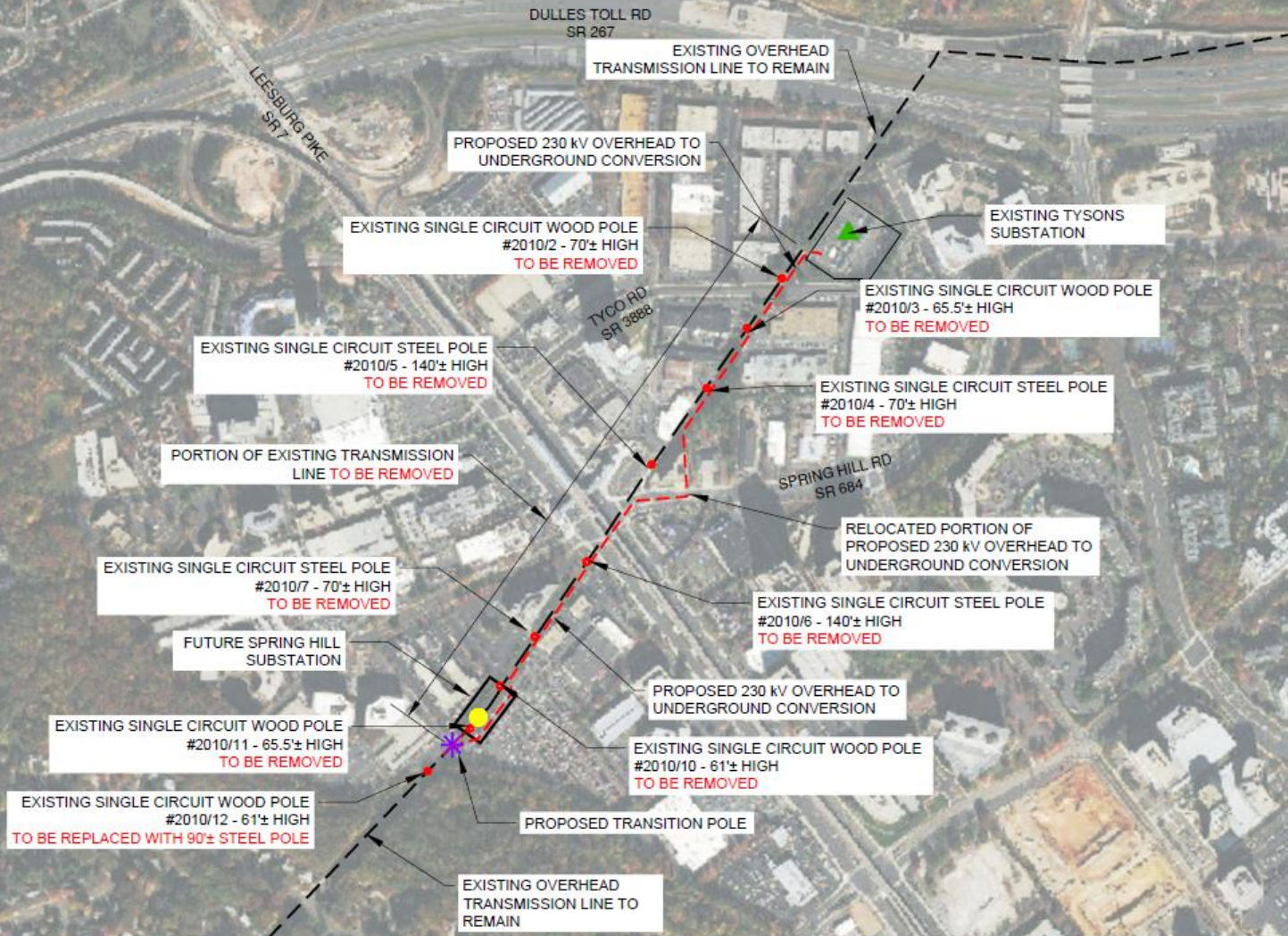


Partial Line #2010 230kV Single  
Circuit Transmission Line  
Underground Pilot Program  
(Tysons - Future Spring Hill  
Substation)

Existing Transmission Structures  
TO BE REMOVED OR REPLACED

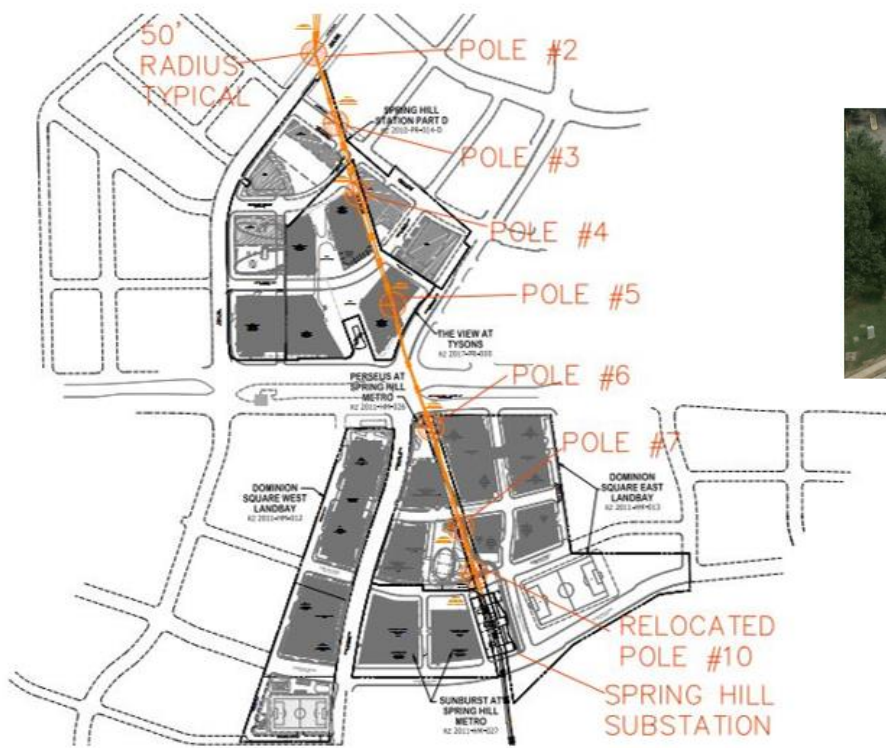
- Existing Substation
- Future Substation (Spring Hill)
- Existing Pole
- Proposed Transition Pole
- Proposed 230 kV Overhead to Underground Conversion
- Existing 230 kV Overhead Line

Fairfax County





# Tyson's to Future Spring Hill Transmission Line: Existing Overhead Line Poles 2, 3 & 10 – 40+ Years Old



Pole 2



Pole 3



Pole 4



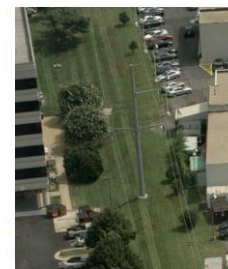
Pole 5



Pole 6



Pole 7



Pole 10





# Proposed Solution

- Current and proposed underground line between Tysons and future Spring Hill Substations are approximately half mile in length
- To realize the full economic impact, the line must be undergrounded around the site rather than through the existing easement
- Dominion Energy estimated undergrounding to cost \$16.2M in August 2017
  - Dominion Energy's estimate increased to approx. \$26.2 million in November 2018
- Dominion Energy engineers estimated approximately 2 years to underground and electrify the transmission line

# Future Spring Hill Substation

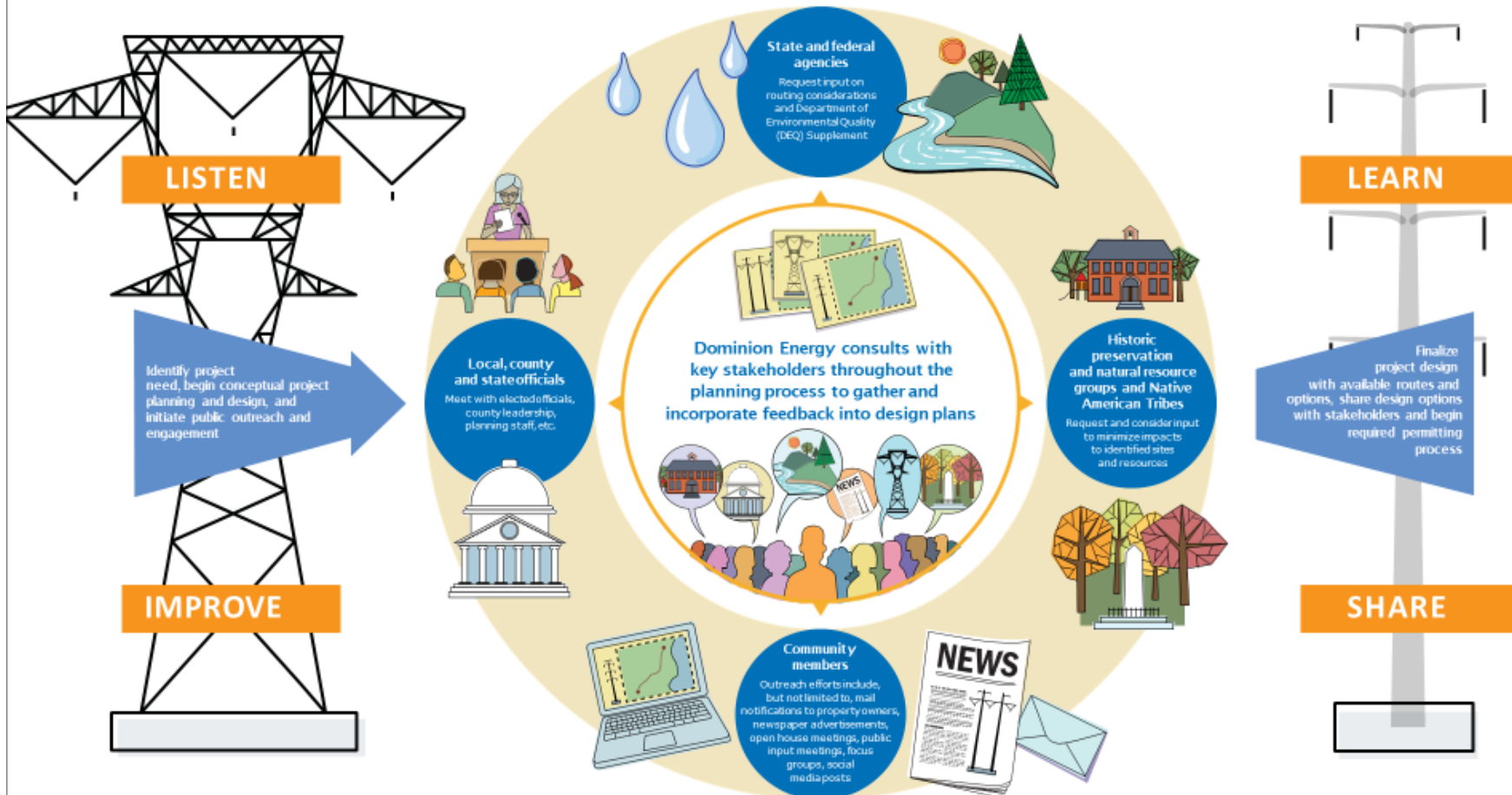
- Location – 1 acre of land in ROW – land deal – complete/county approved; site plan not yet submitted
  - Development conditions
  - Crosses two neighbors
- Detailed exterior aesthetics plan in progress
- Construction timeline TBD



# Construction Impacts

- Open cut construction method
- Alignment of UG line
- Traffic
- Noise
- Timeline/Duration

# Electric Transmission Line Planning and Public Engagement Process





# Electric Transmission Line SCC Application Review Process

The Virginia State Corporation Commission (SCC) has regulatory authority over all energy providers in Virginia and requires certification for all transmission lines out of the ordinary course of doing business or are at or above 138 kilovolts (kV). Among other responsibilities, the

SCC validates the need for a proposed line and approves the route and structures. In reviewing a proposed project, the SCC must consider whether potential impacts on scenic assets, historic districts and the environment have been reasonably minimized.



**Dominion Energy notifies county and city officials of intent to file**  
Required pursuant Code of Virginia § 15.2-2202

**Dominion Energy submits application to SCC**  
Includes full project details, including need, cost, routing options, potential impacts, etc.

**Dominion Energy notifies electric cooperatives**



**SCC posts application for public review**  
Available at [scc.virginia.gov](http://scc.virginia.gov)

**SCC issues procedural order**  
Case schedule is set; SCC invites public comments and formal participation in the case as a respondent.

**Department of Environmental Quality (DEQ) issues first report**  
Due within 60 days of application filing



**SCC conducts public hearings**  
Held in selected areas near the project

**DEQ issues coordinated comments**  
Summary of recommendations from multiple state resource agencies to minimize impacts and for compliance with legal requirements



**Public comment period opens**  
Submitted online or via mail

**Discovery begins**  
SCC Staff starts its review; SCC Staff, Dominion Energy and respondents may serve discovery

**Interested parties can join case as respondents**  
Formal mechanism to join proceedings

**Dominion Energy issues public notice**  
Notifies local officials, impacted landowners and the public

**Respondents submit testimony**

**SCC Staff submits its report about the project**

**Dominion Energy submits rebuttal testimony**  
In response to DEQ summary, staff report and respondent testimony



**Public comment period closes**

**SCC conducts formal evidentiary hearing**  
Testimony submitted and subject to cross examination by SCC Staff, Dominion Energy and respondents

**SCC hearing examiner issues report of recommendation**

**Participants issue response**  
SCC Staff, Dominion Energy and respondents comment to hearing examiner's report



**Dominion Energy begins construction of facilities**

**Dominion Energy pursues additional permits as needed**  
Local permits, U.S. Army Corps of Engineers, Federal Aviation Administration (FAA), etc.

**SCC issues final order**  
If approved, SCC issues a Certificate of Public Convenience and Necessity (CPCN) authorizing Dominion Energy to construct and operate the facilities

Process could take as little as eight months to complete if uncontested, with more complex proceedings ranging from 12-24 months from start to finish

- Dominion Energy's Responsibility
- Public Involvement Touchpoints
- Procedural Steps
- Optional Step Determined by SCC

# Next Steps

<b>July-Aug. 2020</b>	<ul style="list-style-type: none"><li>• Meet with local elected officials</li><li>• Project website launched; Dedicated email/phone open</li><li>• Solicit input from cultural advocacy groups</li></ul>
<b>Early Sept. 2020</b>	<ul style="list-style-type: none"><li>• Virtual community meeting</li><li>• Community outreach continues</li></ul>
<b>By Oct. 1, 2020</b>	<ul style="list-style-type: none"><li>• File application with Virginia State Corporation Commission (SCC)</li></ul>
<b>Q2 2021</b>	<ul style="list-style-type: none"><li>• Requested date for SCC approval</li></ul>
<b>Dec. 2025</b>	<ul style="list-style-type: none"><li>• Targeted completion date</li></ul>



# Questions/Comments

**Dedicated Project Page:**  
**[DominionEnergy.com/springhill](http://DominionEnergy.com/springhill)**

**888-291-0190**  
**[Powerline@dominionenergy.com](mailto:Powerline@dominionenergy.com)**