

## Post-Construction Activities

### RIGHT OF WAY RESTORATION

After construction is complete and the area is rehabilitated, Dominion Energy will restore roads and entrances to their original condition unless they are necessary for permanent access to the right of way. Vegetation growth will be maintained by trimming, pruning, or spraying herbicides approved by the Environmental Protection Agency to assure continued service reliability of the transmission line.

Dominion Energy maintains transmission rights of way by removing inappropriate species of trees — those that grow too tall and could pose a hazard to the wires — and by removing weakened or dead trees that could topple onto wires.



*Crews install erosion control blankets (above) to protect the ground while new grass takes root (below).*



**PLEASE NOTE:** All construction activities described within occur under the provision of right of way agreements entered into by Dominion Energy and the landowner and/or right-of-entry/condemnation orders granted by a court of law. The construction activities described are representative of typical projects and are subject to change.

### Contact Dominion Energy about the electric transmission construction process:

The guidelines outlined in this brochure only apply to the electric transmission construction process. For questions regarding electric distribution's construction process, please call **866-DOM-HELP (866-366-4357)**. (Visit [powerlines101.dominionenergy.com](http://powerlines101.dominionenergy.com) to learn more about the difference between electric transmission and distribution lines.)

For environmental questions, please visit [DominionEnergy.com/company/community/environment](http://DominionEnergy.com/company/community/environment)

Visit [powerlines101.dominionenergy.com](http://powerlines101.dominionenergy.com) for more information.



Use your iPhone camera or the QR reader app on other smartphones to learn more about the construction process on our website.

## A Guide to the Electric Transmission Line Construction Process

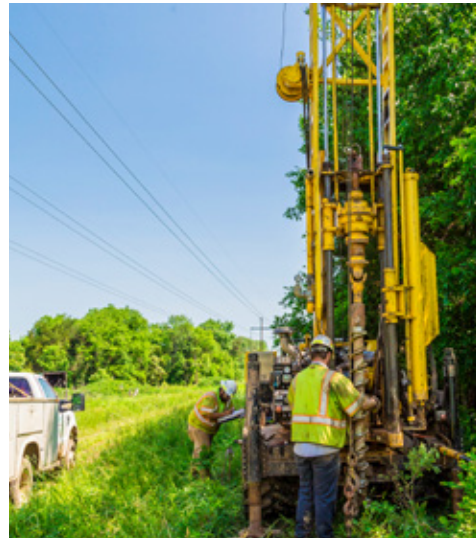


# Pre-Construction Activities

From project teams to crews in the field, Dominion Energy is committed to working with property owners to minimize the impact of electric transmission lines and associated facilities.

Dominion Energy personnel strive to conduct work within rights of way in a safe, efficient and courteous manner. This brochure will provide you with important information on topics related to the electric transmission construction process as well as contact information for the appropriate departments within Dominion Energy.

Transmission line construction may require access to private property.



*Crews drill holes to collect soil samples that will be used to determine the best foundation for each structure location.*

during construction planning. The soil boring process includes drilling 4" to 10" wide holes in the ground at various depths and locations in the right of way corridor to sample the soil and assess its makeup. These results help determine the design for future foundations and ensure adequate stability for the new transmission structures. The holes are refilled after the borings are complete.

## RIGHT OF WAY (ROW) CLEARING

The entire width of the right of way needs to be cleared of structures and certain types of vegetation to allow construction activities and eventual transmission line operation (including all trees). Cleared material will be handled in accordance

*Right of way clearing involves removing trees to maintain minimum clearances between vegetation and transmission lines.*



## TRANSMISSION CORRIDOR CLEARING

Once a project receives its final permits, our crews will begin staking the centerline and outer edges of the right of way, road crossings and soil boring test sites at each structure location. This includes clearing trees and brush for safe access and clearance of the area for reliable operation of the line.

## SOIL BORINGS

Soil boring testing helps ensure foundations will provide adequate stability for the transmission structures. Soil borings take place during the initial inspection or right after surveying and staking, but can also occur at any time



*Wooden matting is placed to protect the right of way corridor during construction. After construction is completed, crews remove the matting and begin restoration of the right of way.*

## ACCESS ROADS – REQUIREMENTS & DEVELOPMENT

Dominion Energy will access the right of way utilizing existing access roads, where possible. If access is not available, highway construction entrances and/or additional access roads may be installed once approved by the Virginia Department of Transportation. We will install new access roads, preferably within the proposed right of way. Access roads constructed by Dominion Energy may require the use of road gravel, stone, or drain pipes. Temporary wooden construction mats that can vary in size may be used in wetlands and other environmentally sensitive areas. The installation equipment will be limited to the minimum amount needed to create the required access. Before access road construction begins, Dominion Energy employees and contractors will coordinate with property owners regarding the location of convenient access points when they are needed.

# Construction Activities

**Construction will begin after all regulatory approvals and permits are obtained. Construction of transmission lines involves site preparation, foundation construction, structure construction and wire stringing operations.**

## SITE PREPARATION

Structure locations are clear of vegetation prior to construction. Access roads, temporary fencing and gates will be installed where necessary to accommodate construction vehicles and equipment access to each structure site. The right of way corridor may be used as an area for temporary storage and handling for equipment and materials related to construction.

with the right of way agreement. (For further details, refer to the ROW brochure.) Trees along the edge, or just outside, of the right of way that could possibly fall and contact the transmission line are referred to as "danger trees" and will be trimmed and/or cut. Landowners will be notified prior to any activity.



*An auger (left) drills the hole for the concrete to be poured. The completed foundations (right) sit ready to support a new structure.*

## FOUNDATION INSTALLATION

Structure types and heights are based on the unique engineering requirements for each structure location. Most structures have a concrete foundation. The size of the foundation depends on the type of structure and its terrain.

## STRUCTURE CONSTRUCTION

Generally, structures are built from the ground up. Structures are assembled in sections near the new structure location and a crane may be used to lift the structures in place.



*A crane raises a section of a monopole structure.*



*Linemen use wire carts to travel and inspect the newly installed conductor wire.*

## WIRING AND STRINGING OPERATIONS

Wire stringing includes all activities associated with the installation of the primary conductors onto the transmission line structures. These activities include the installation of conductor, ground wire, insulators roller and stringing blocks, vibration dampeners, weights, suspensions and dead-end hardware assemblies for the entire length of the route.