

Yadkin-Fentress 500 kV Electric Transmission Project City of Chesapeake, Virginia



This project will rebuild an existing line (#588) and will build a new line (#5005.) This work will maintain system reliability and successfully integrate new electric generation with the current transmission system. Constraint Design Segment construction begins in fall 2025 and ends in late 2026.



Constraint Design Segment Fast Facts:

- 1.6-miles long section between Battlefield Boulevard South and Etheridge Road
- Original 1973 easement:
 - Affects ~40 present-day parcels in the Lakes of Etheridge, Etheridge Pointe and Glasser Landing neighborhoods
 - Has a height restriction: transmission poles cannot exceed 150 feet tall
 - Existing right of way here is 235 feet wide. Historically, we have maintained vegetation in only 150 feet of this right of way for the existing transmission line.
- *All encroachments within the 235-foot-wide right of way must be remediated or authorized by Dominion Energy Right of Way.*

Constraint Design Segment Outcome:

S Battlefield Blvd – 588/245 Preferred Design	588/245 – Etheridge Rd Constraint Design
Taller structures with a smaller footprint	Shorter structures with a wider footprint
New structure heights: 177 to 192 feet	New structure heights: 150 feet (maximum)
Uses existing, maintained 150-foot-wide right of way	Uses full 235-foot-wide right of way
Vegetation removal: <ul style="list-style-type: none">• Mostly within the existing, maintained 150-foot-wide right of way• Preserves more vegetation along Poplar Branch Ditch	Vegetation removal: <ul style="list-style-type: none">• More removal is required from full 235-foot-wide right of way, including at Coopers Ditch• Some tall trees outside the right of way may need to be removed from front yards on Corby Glen Avenue and Oakford Crescent due to proximity to new wires
We will build the Preferred Solution within the existing, maintained 150-foot-wide right of way.	We will build the Constraint Design Solution within the existing 235-foot-wide right of way.

The Virginia State Corporation Commission authorized Dominion Energy to build either solution in its Final Order for this project.

website: [DominionEnergy.com/Yadkin-Fentress](https://www.dominionenergy.com/Yadkin-Fentress)
email: powerline@dominionenergy.com **phone:** 888-291-0190

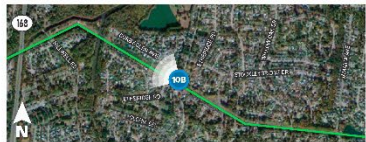


YADKIN TO FENTRESS

Transmission Line Project

Viewpoint 10B

Date: 8/30/2023 Time: 9:05 am Viewing Direction: Northwest
Viewpoint Location Transmission Line



EXISTING CONDITIONS



PROPOSED CONDITIONS

Constraint Design

Photo simulations are for discussion purposes only. Final design is subject to change pending public, engineering, and regulatory review.

LEGEND

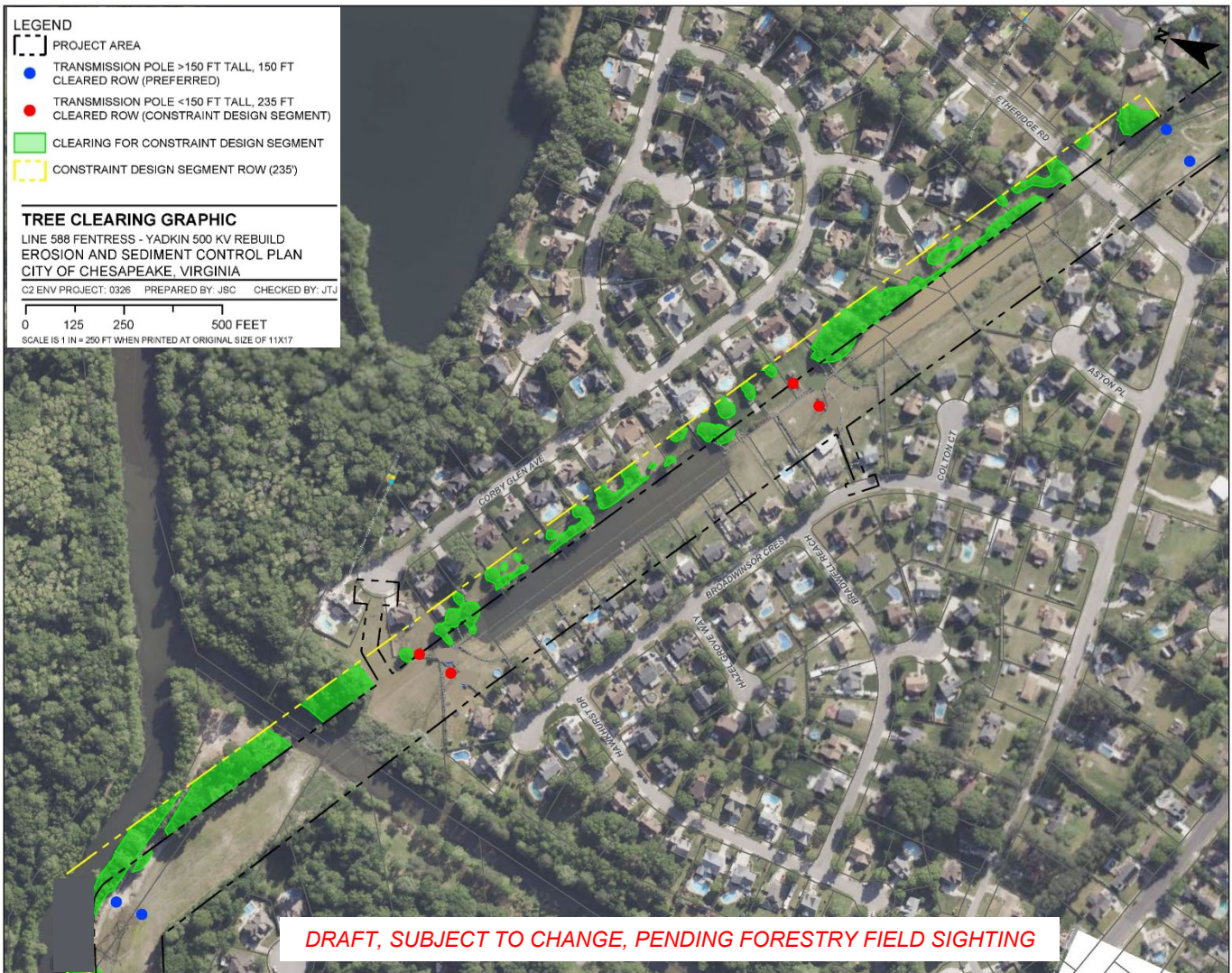
- PROJECT AREA
- TRANSMISSION POLE >150 FT TALL, 150 FT CLEARED ROW (PREFERRED)
- TRANSMISSION POLE <150 FT TALL, 235 FT CLEARED ROW (CONSTRAINT DESIGN SEGMENT)
- CLEARING FOR CONSTRAINT DESIGN SEGMENT
- CONSTRAINT DESIGN SEGMENT ROW (235')

TREE CLEARING GRAPHIC

LINE 588 FENTRESS - YADKIN 500 KV REBUILD
EROSION AND SEDIMENT CONTROL PLAN
CITY OF CHESAPEAKE, VIRGINIA

C2 ENV PROJECT: 0326 PREPARED BY: JSC CHECKED BY: JJJ

0 125 250 500 FEET
SCALE IS 1 IN = 250 FT WHEN PRINTED AT ORIGINAL SIZE OF 11X17



DRAFT, SUBJECT TO CHANGE, PENDING FORESTRY FIELD SIGHTING