



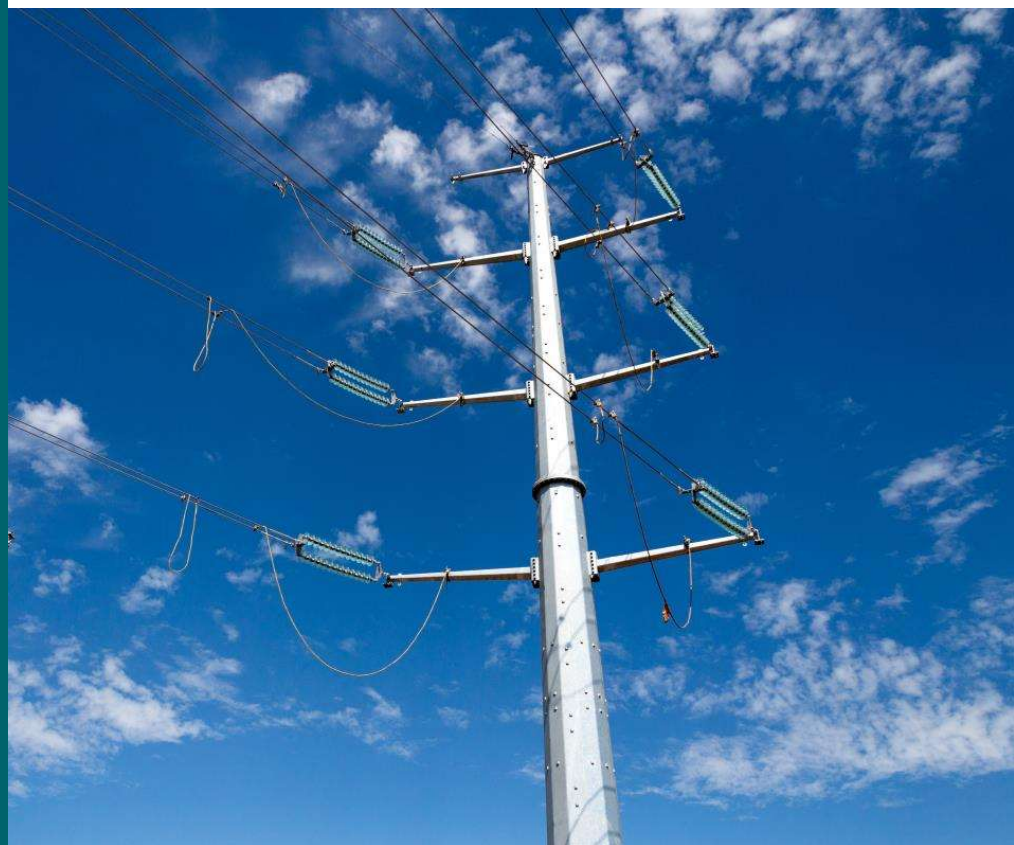
Morrisville- Wishing Star 500 & 230 kV & Electric Transmission Project Updates

Virtual Community Meeting
June 2, 2025



Morrisville to Wishing Star

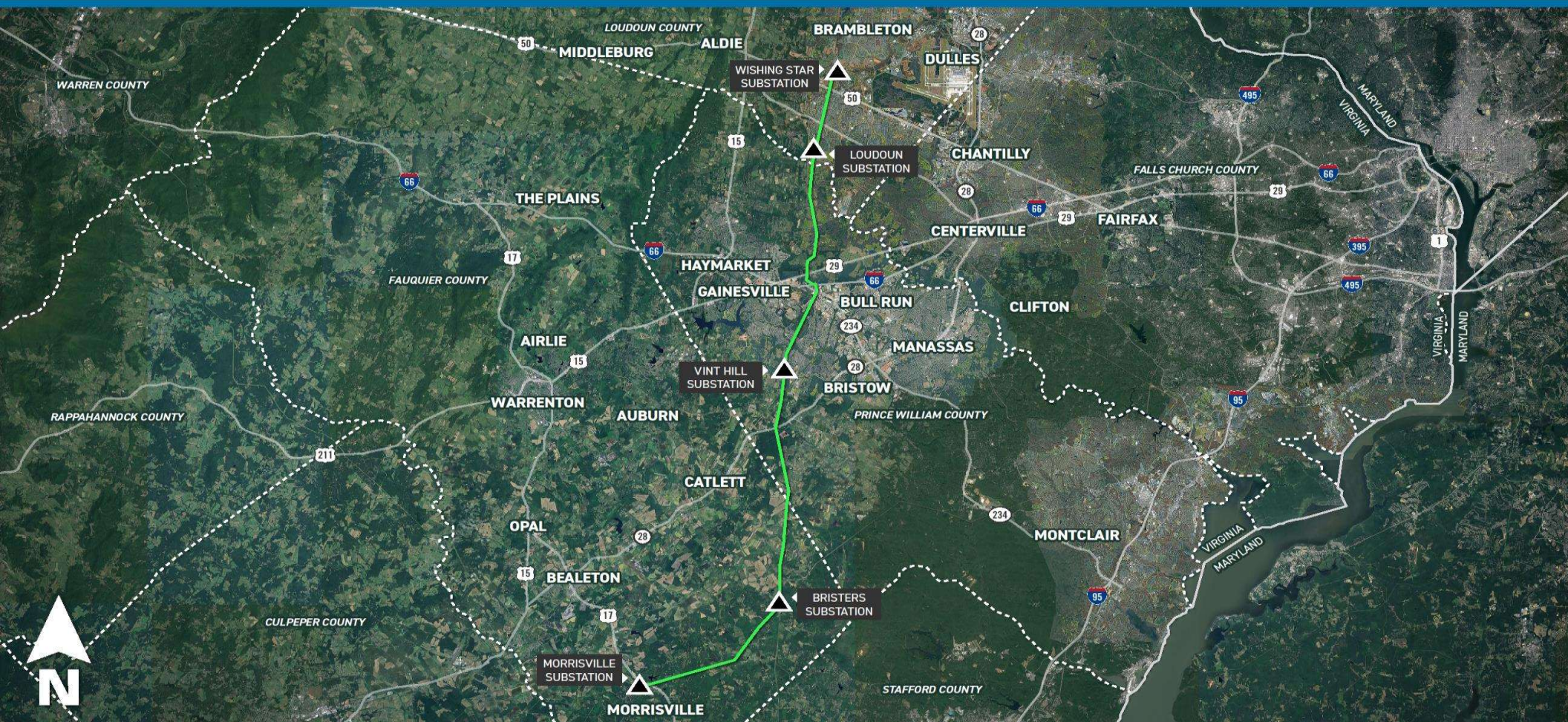
- Crosses three counties: Fauquier, Prince William, and Loudoun.
- The project involves installing a new 500 kV transmission line within, adjacent to, or near **36.5** miles of existing right of way (ROW).
- Additionally, a new 230 kV transmission line will be added in Fauquier County, along with an expansion of the Morrisville Substation.
- This infrastructure addition will enhance our ability to deliver electricity efficiently and ensure the continued reliability of our electric grid.
- The new transmission line will utilize **monopole structures** that are generally taller than the existing lattice structures to limit corridor expansion.



**MORRISVILLE TO
WISHING STAR**
Transmission Line Project

Map Legend

— Transmission Line ▲ Existing Substation



**MORRISVILLE TO
WISHING STAR**
Transmission Line Project

Typical Proposed Right-of-Way
Segment 1

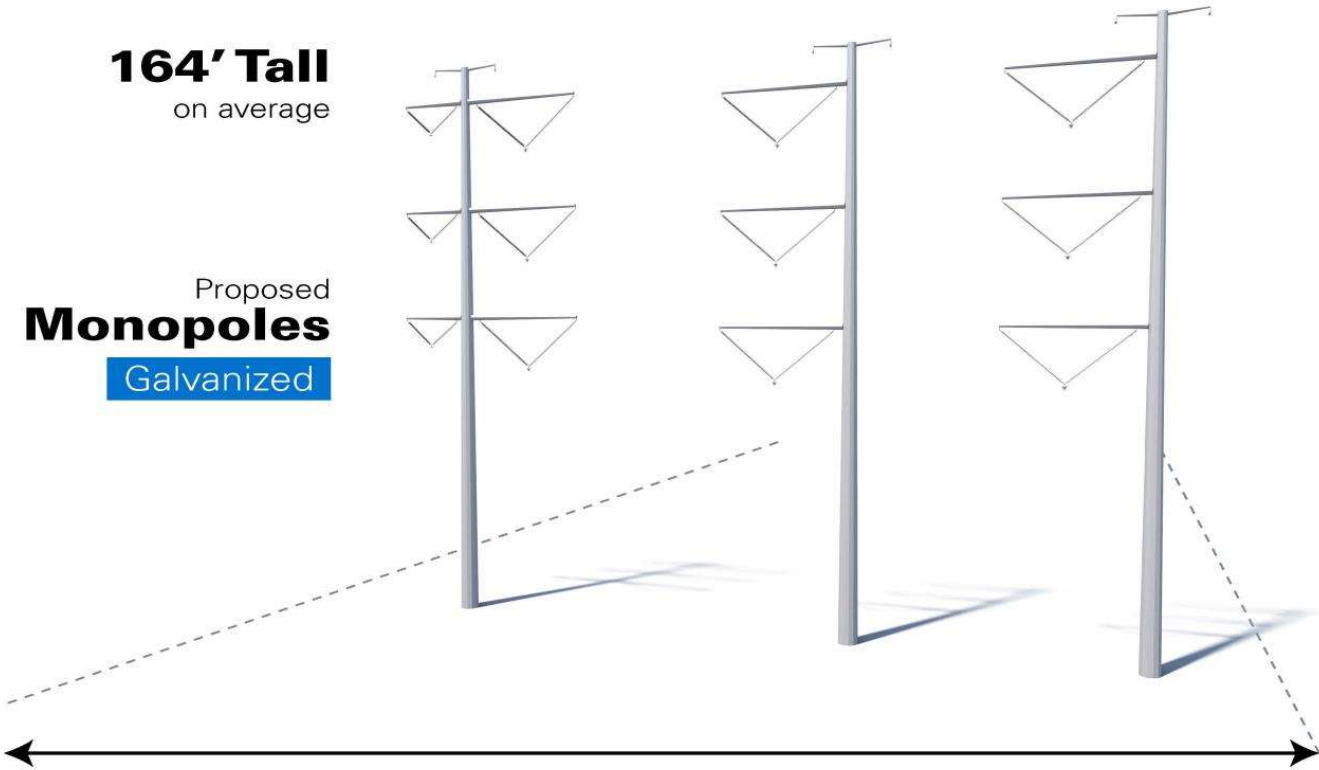
Visualization is for discussion purposes only.
Final design is subject to change pending public,
engineering, and regulatory review.



- ▲ Existing Substation
- ▲ Proposed Substation
- Segment 1
- Study Area

164' Tall
on average

Proposed
Monopoles
Galvanized

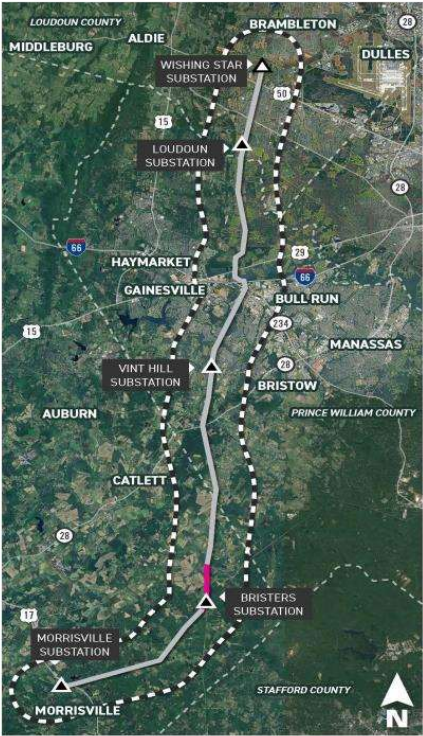


235' Right-of-Way

**MORRISVILLE TO
WISHING STAR**
Transmission Line Project

Typical Proposed Right-of-Way
Segment 2A

Visualization is for discussion purposes only.
Final design is subject to change pending public,
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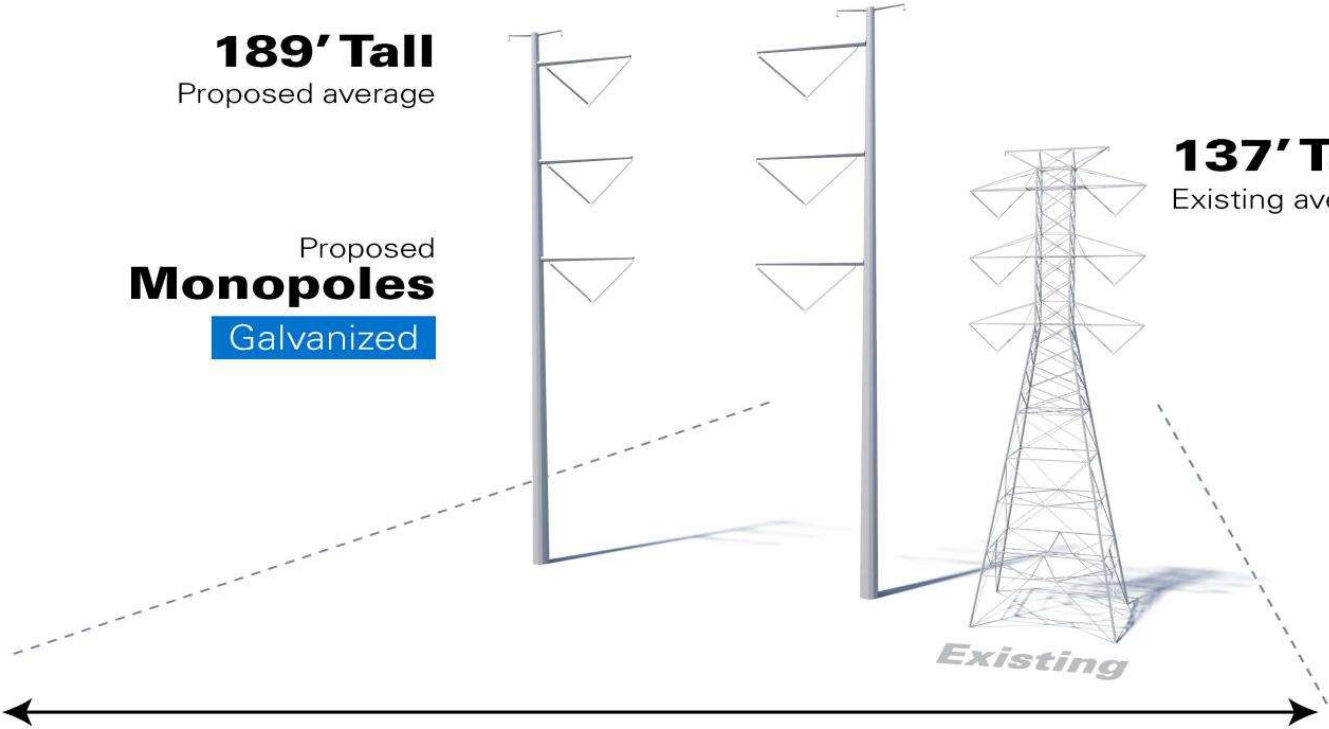


- ▲ Existing Substation
- △ Proposed Substation
- Segment 2A
- - - Study Area

189' Tall
Proposed average

Proposed
Monopoles
Galvanized

137' Tall
Existing average



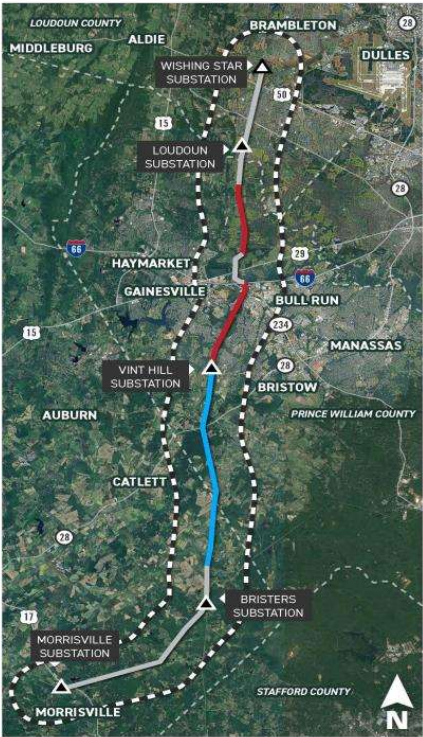
240' Right-of-Way

MORRISVILLE TO WISHING STAR

Transmission Line Project

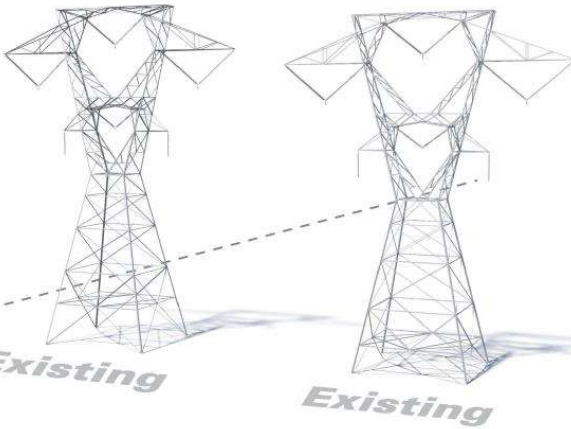
Typical Proposed Right-of-Way Segment 2B and 3

Visualization is for discussion purposes only.
Final design is subject to change pending public,
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- ▲ Existing Substation
- △ Proposed Substation
- Study Area
- Segment 2B
- Segment 3

137' Tall
Existing average

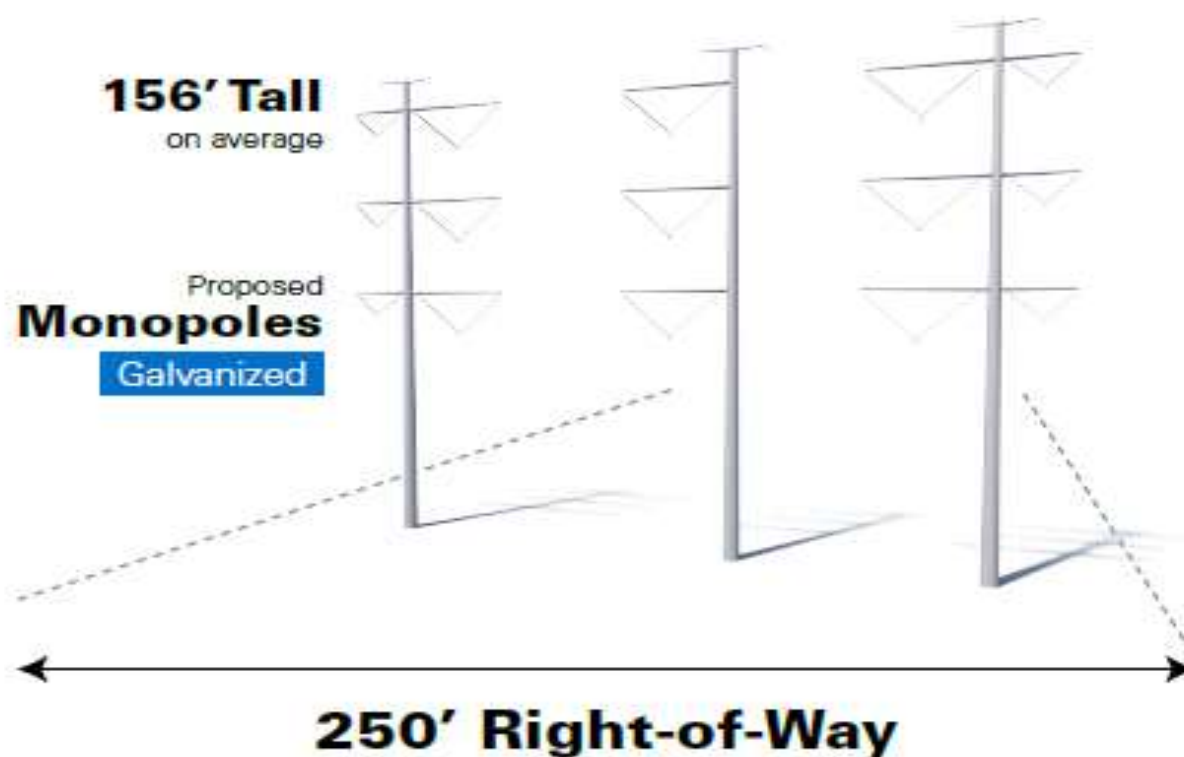


179' Tall
Proposed average

Proposed
Monopole
Galvanized

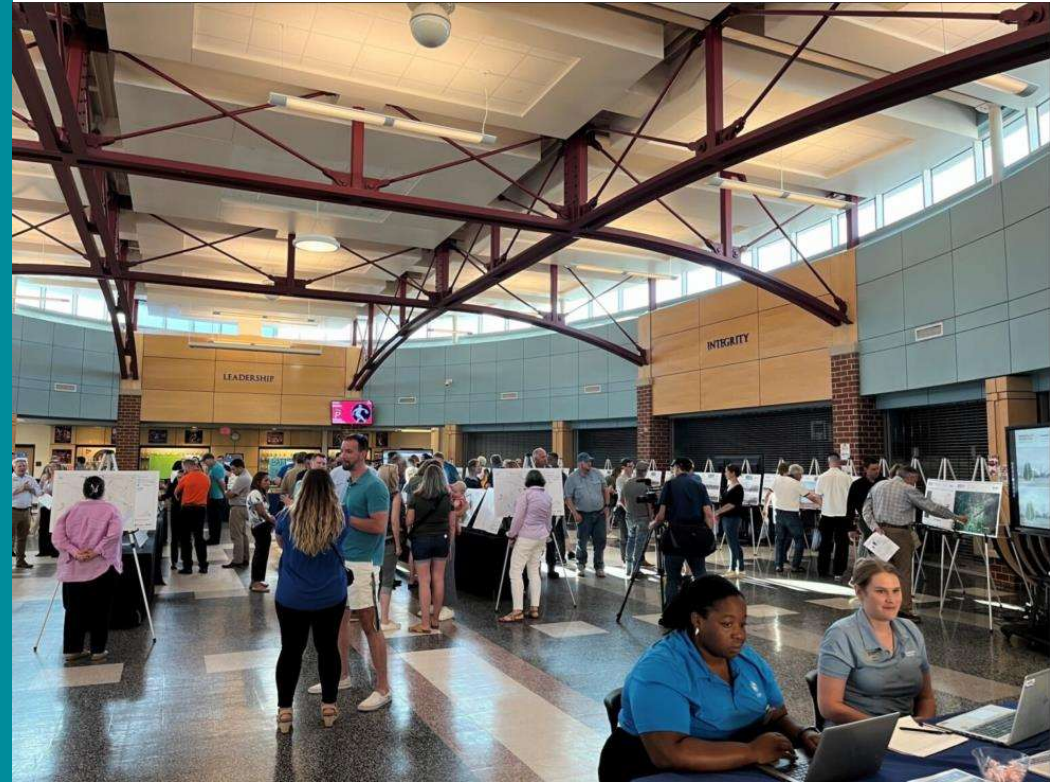


305' Right-of-Way



Since our last virtual meeting

- Held 3 in-person Open House events where we talked about the preferred route and potential alternate routes.
 - **Fauquier County-** May 13, 2025
 - At Mary Walter Elementary School
 - **Prince William County** - May 15, 2025
 - At Patriot High School
 - **Loudoun County** - May 21, 2025
 - At the Lodge at Hanson Park
- Met with local county officials and other community stakeholders.



Key Themes We Heard



- The role of data centers as a driving force behind this project
- Potential routing impacts on home values and county viewsheds
- Concerns about declining property values
- Visual impacts of the proposed structures
- EMF/Health concerns as it relates to the proximity of transmission lines to homes and schools
- Utilizing undergrounding as an option

Underground Routing

Dominion Energy studied and found that installing the Morrisville-Wishing Star 500 kV transmission line underground is technically possible but impractical due to environmental impacts, construction difficulties, high costs, schedule delays, and operational issues.

Open Trenching Impacts

- Most of the route will need open trenching, which could affect sensitive environmental areas along the route. This includes permanent changes to wetlands and possible impacts on water flow.

Trenchless Construction Needs

- In areas where trenchless construction methods are required, trenchless construction requires a 370-ft-wide construction right-of-way and a 300-ft-wide permanent right-of-way.

Right-of-Way Restrictions

- Underground right-of-way would have the same clearing requirements and use restrictions as an overhead line.

Utility Relocation Challenges

- Existing underground utilities, such as water, gas, and internet, would need to be relocated, increasing the project's complexity, cost, and timeline.

Directional Drilling Complexity

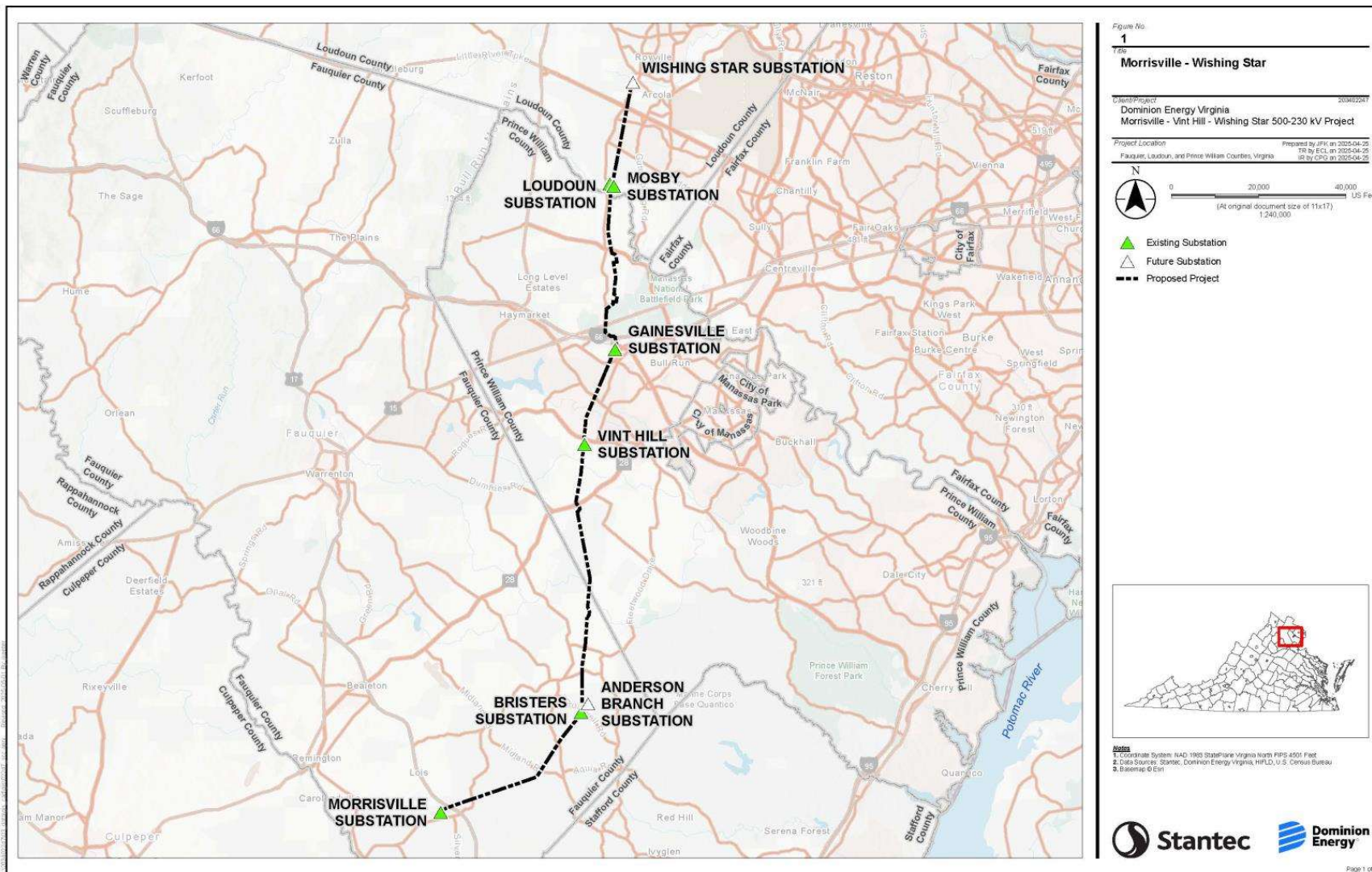
- The number of roads, waterbodies, and railroads necessitates special techniques like directional drilling for underground construction, making the process more complex and costly.

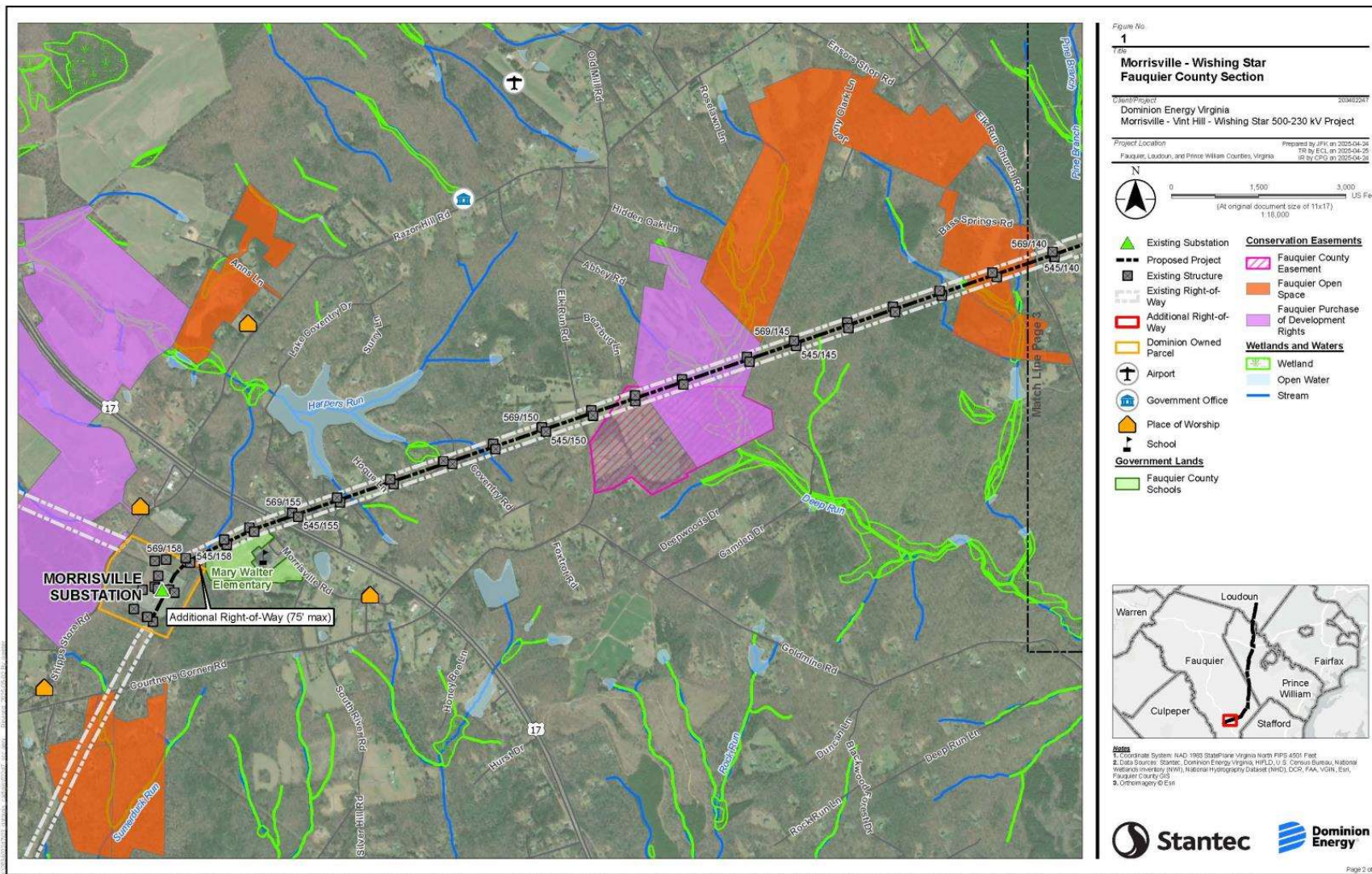


What We Learned

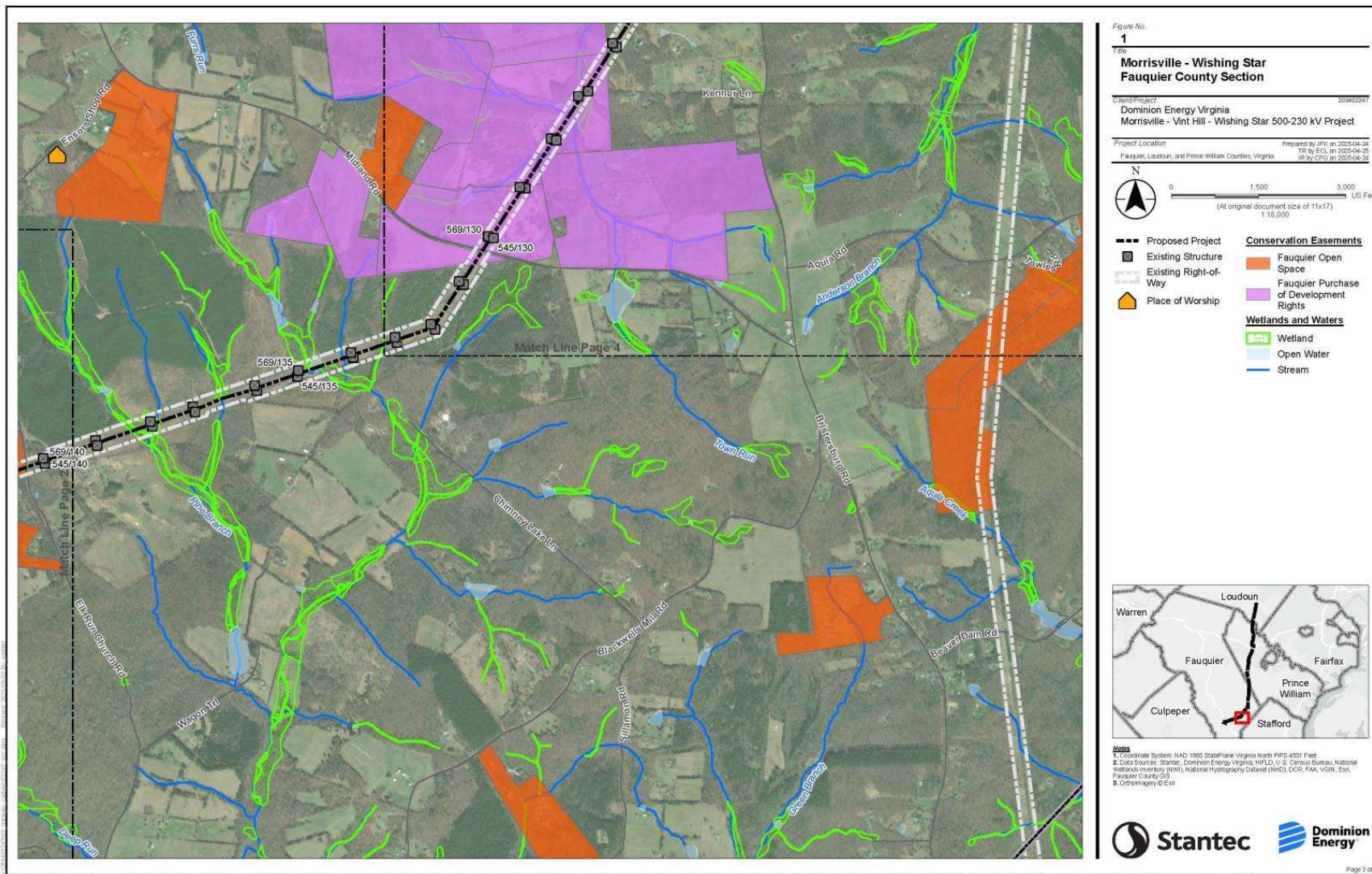
- Early and consistent communication is critical, especially when it comes to routing transparency.
 - **This is a conceptual project which means things WILL and CAN change throughout this process.**
- There's a need for clearer visuals and simpler explanations when discussing routing.
 - **We've made potential alternative routes "default" in GeoVoice for ease of use.**

Preferred Routing

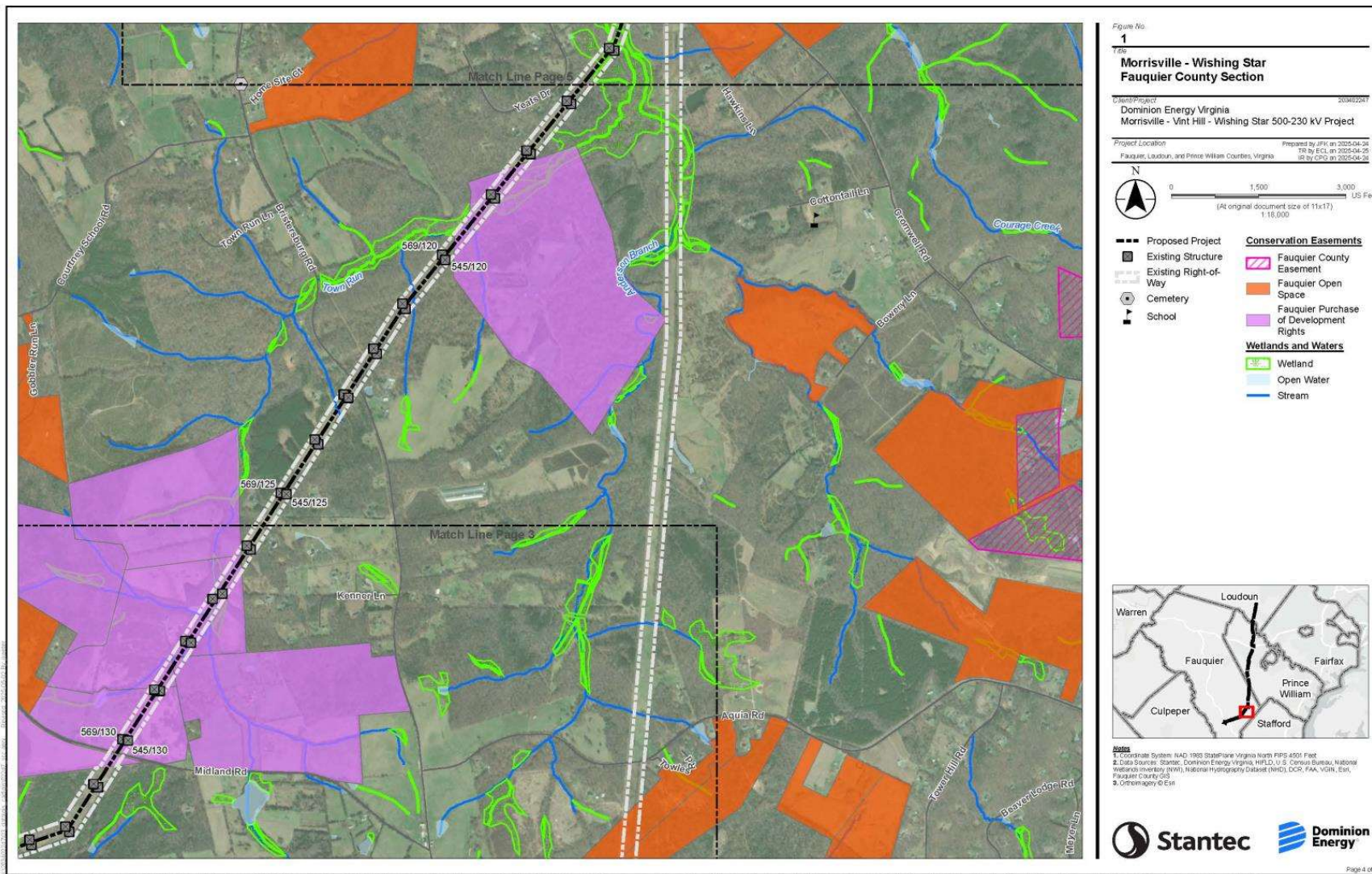




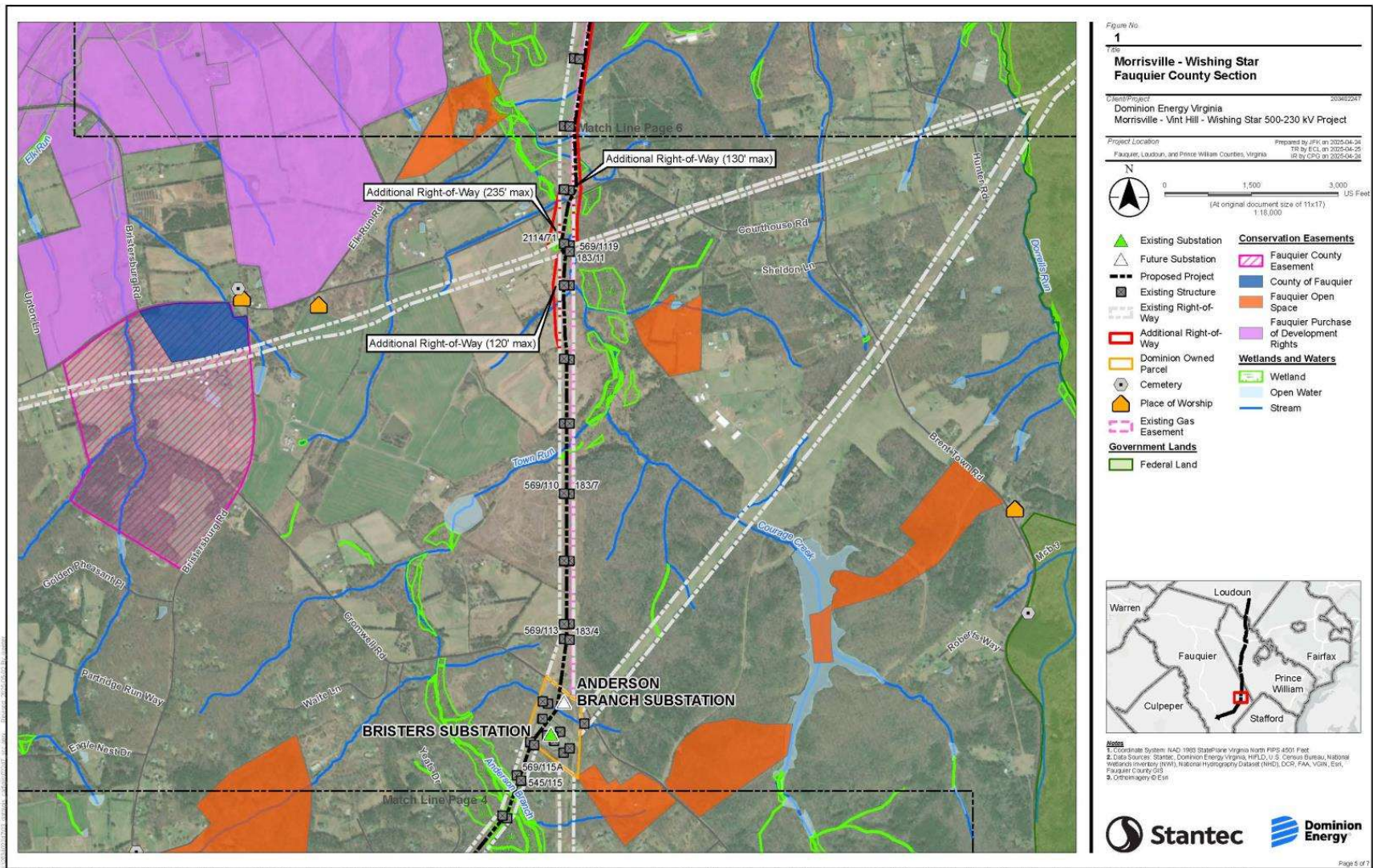
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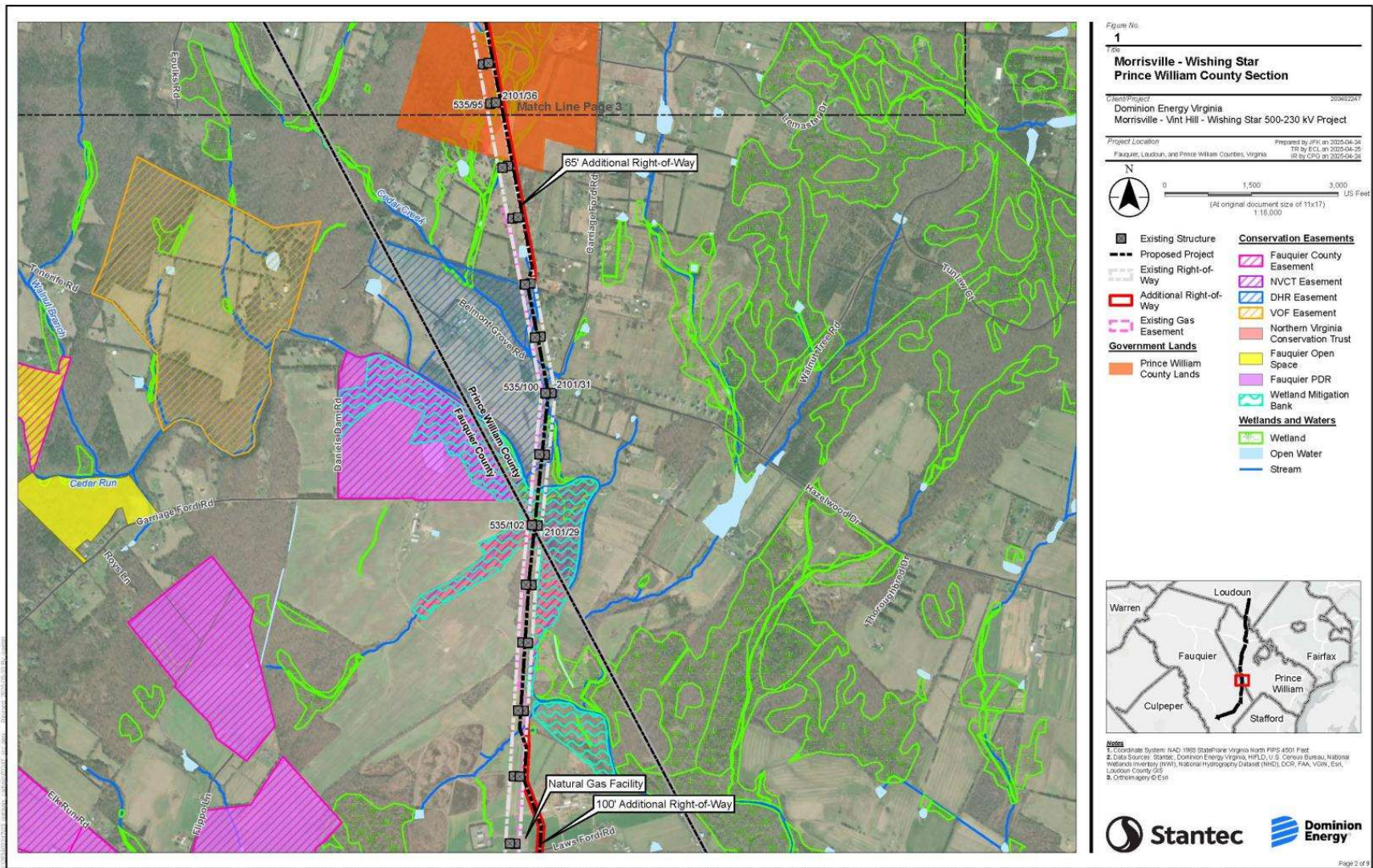
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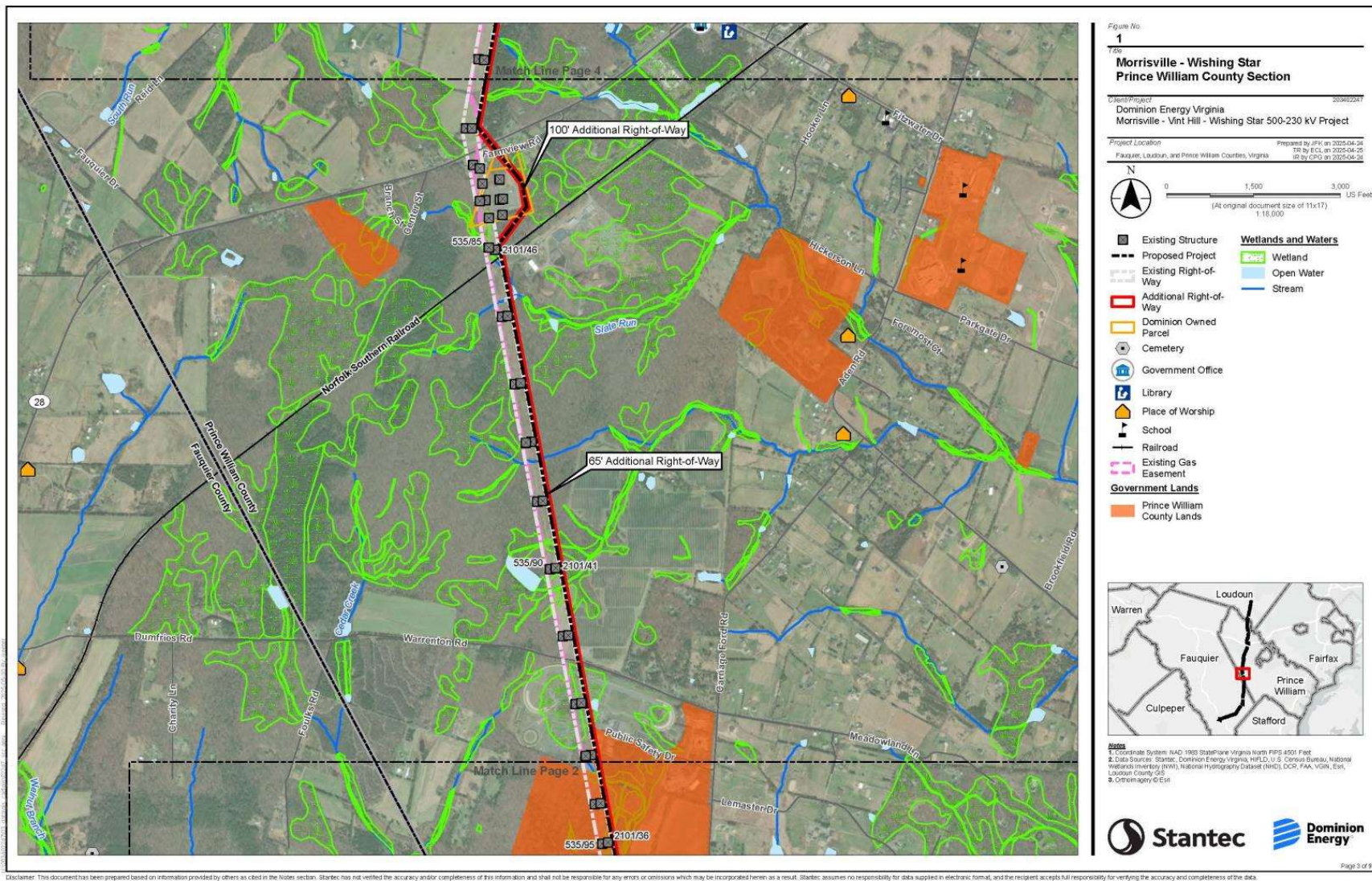
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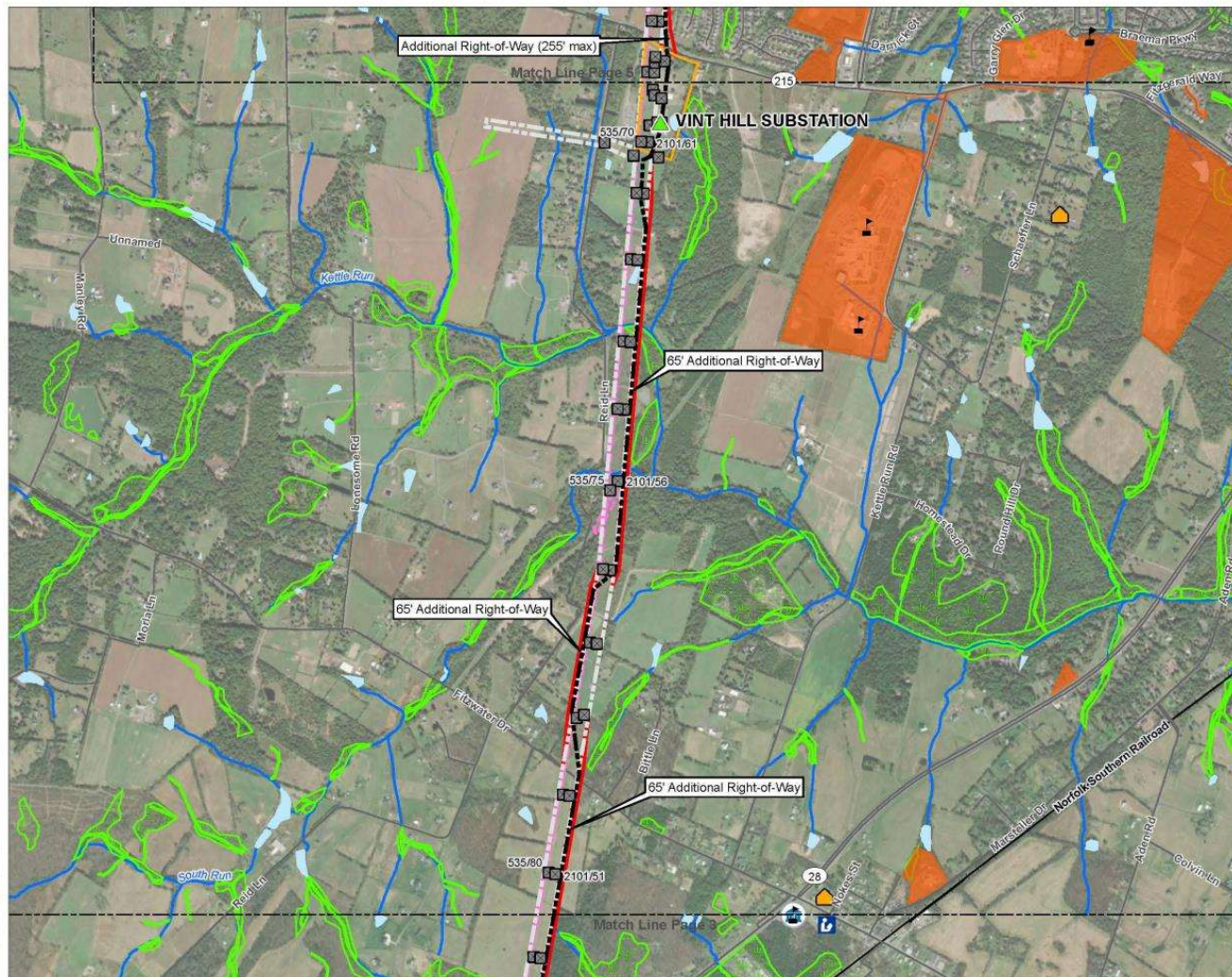


Figure No. 1

Title: Morrisville - Wishing Star Prince William County Section

Client/Project: Dominion Energy Virginia
Morrisville - Vint Hill - Wishing Star 500-230 kV Project

Project Location: Fauquier, Loudoun, and Prince William Counties, Virginia

Prepared by JPR on 2025-04-24
TDR by ECL on 2025-04-25
SD by CTS on 2025-04-24

Scale: 1" = 1,160' (At original document size of 11x17")

Legend:

- Existing Substation
- Existing Structure
- Proposed Project
- Existing Right-of-Way
- Additional Right-of-Way
- Dominion Owned Parcel
- Government Office
- Library
- Place of Worship
- School
- Railroad
- Existing Gas Easement
- Government Lands
- Prince William County Lands

Wetlands and Waters

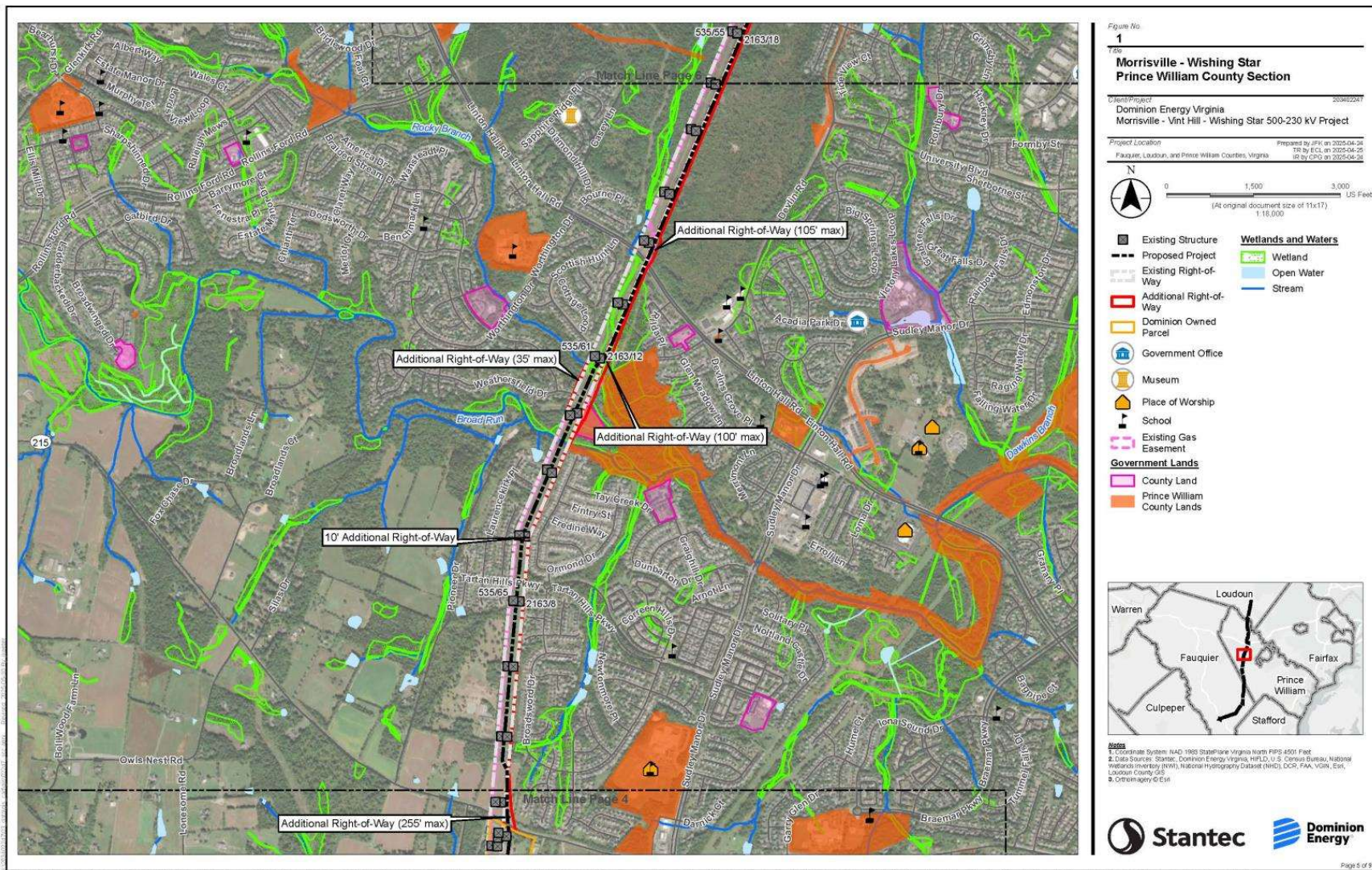
- Wetland
- Open Water
- Stream

Notes:

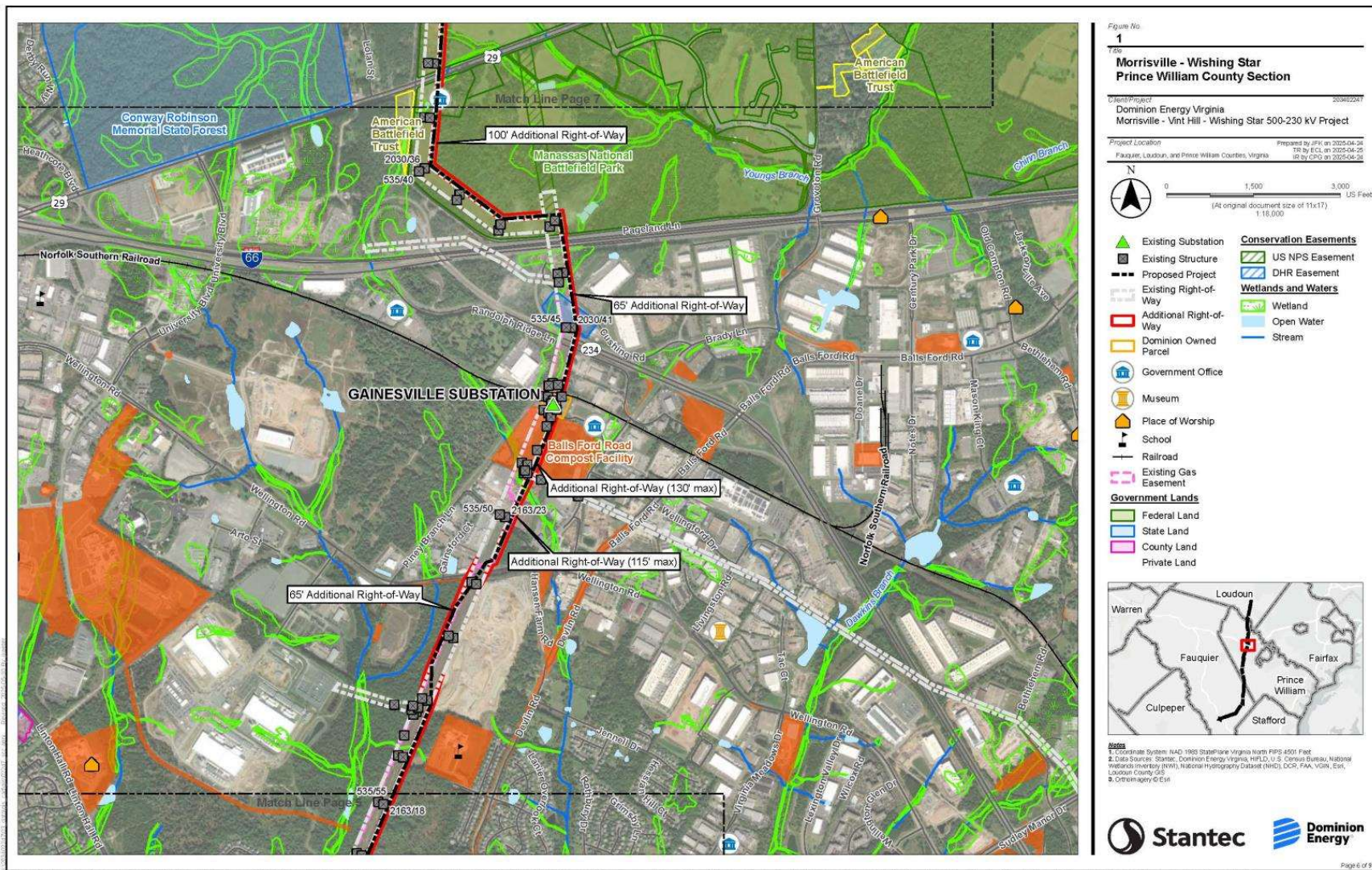
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- Data Sources: Stantec, Dominion Energy Virginia, HPLD, U.S. Census Bureau, National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), DCR, FAK, VGN, East, Loudoun County GIS
- Orthimagery © Esri

Stantec Dominion Energy

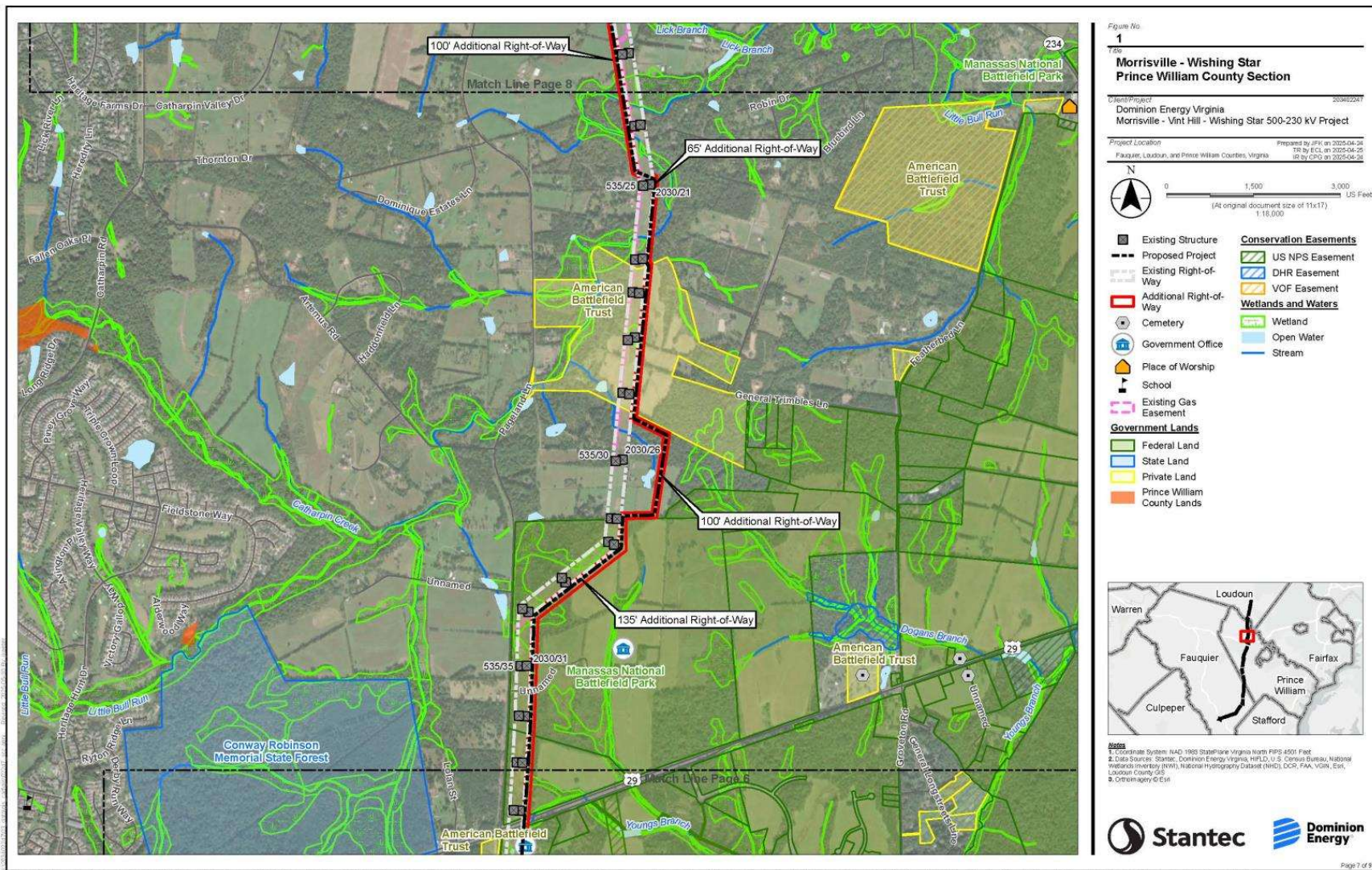
Page 4 of 9



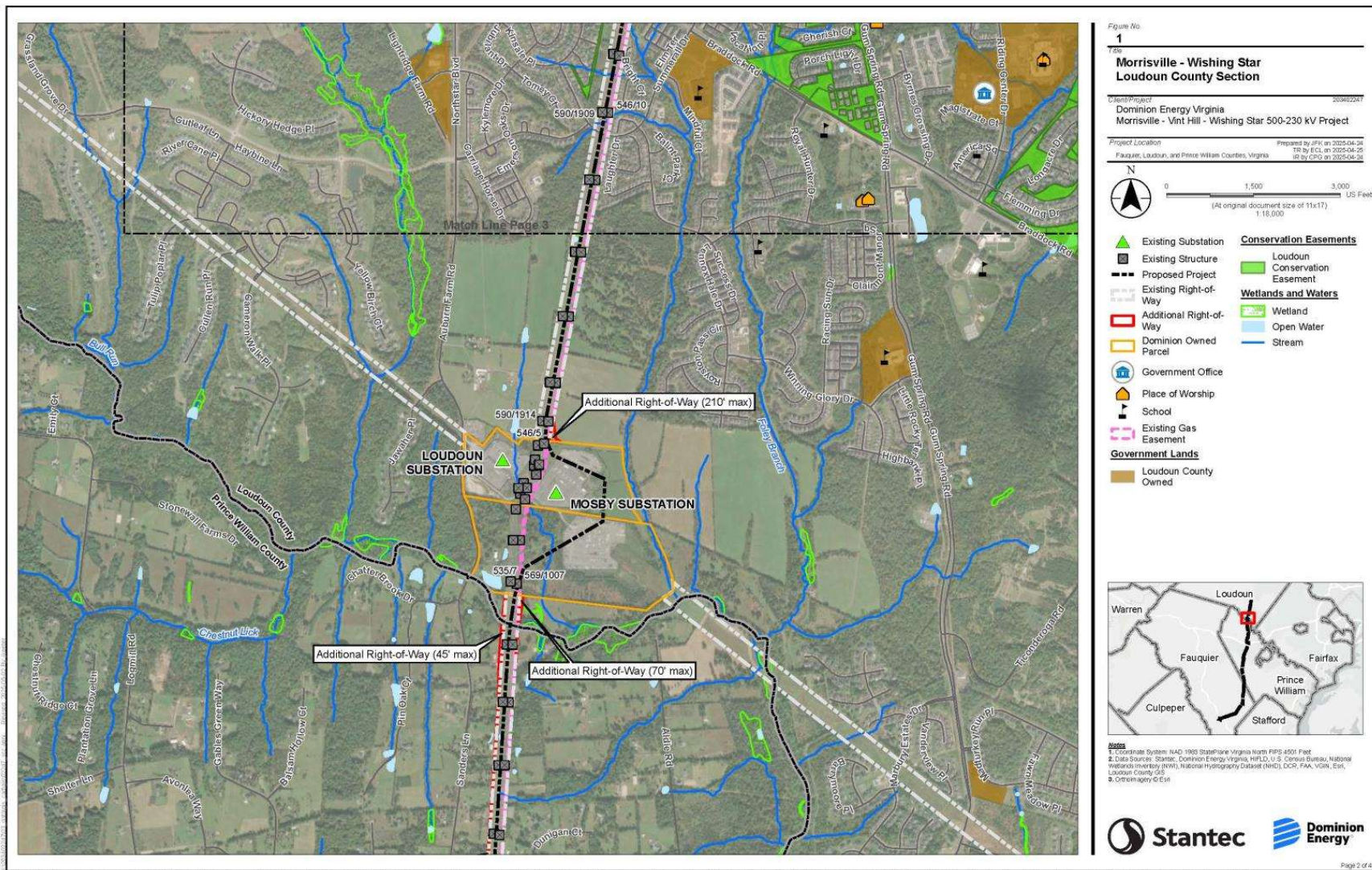
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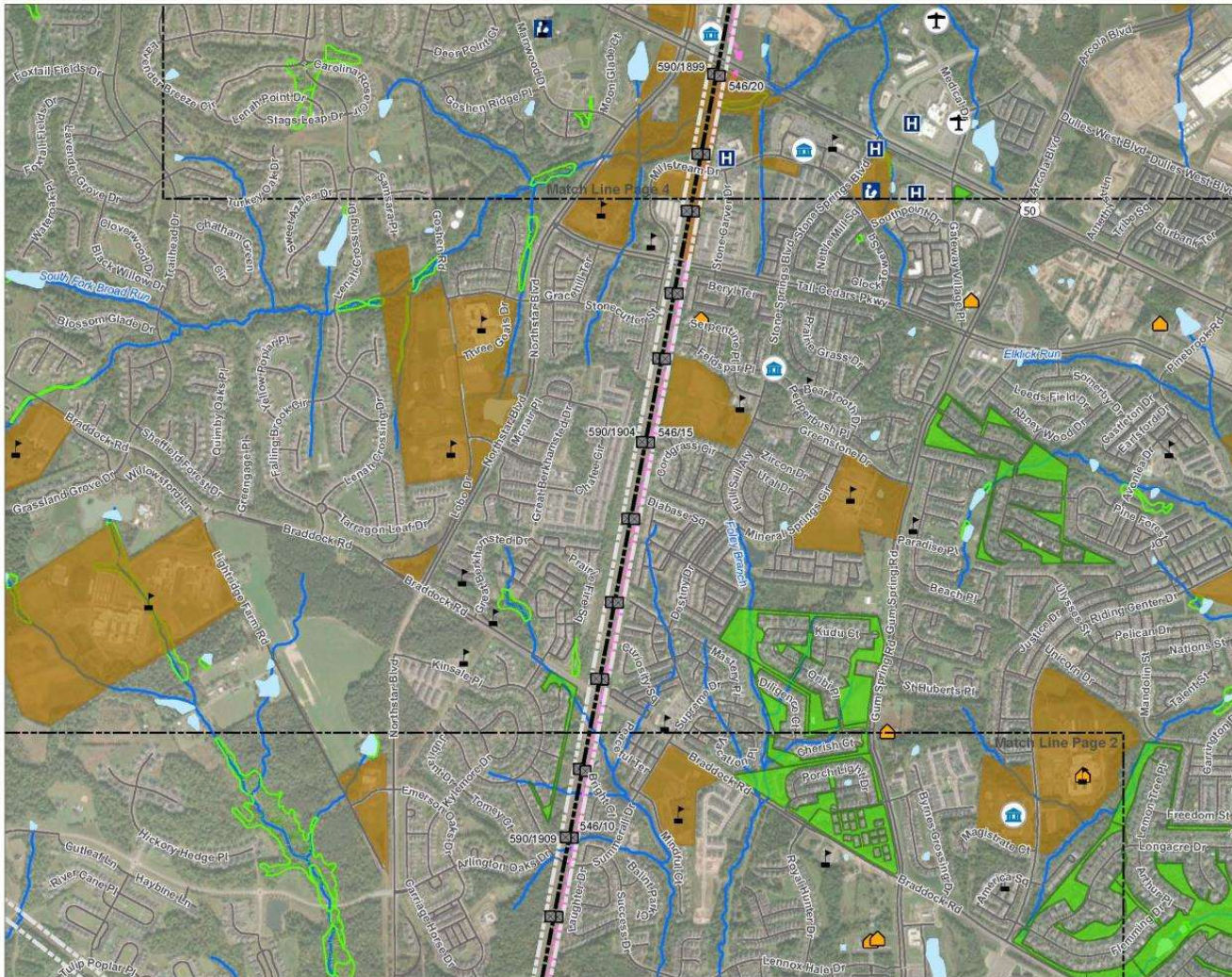


Figure No.
1

Morrisville - Wishing Star Loudoun County Section

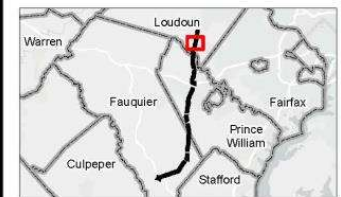
Client/Project
Dominion Energy Virginia
Morrisville - Vint Hill - Wishing Star 500-230 kV Project

Project Location
Fauquier, Loudoun, and Prince William Counties, Virginia

Prepared by JPR on 2025-04-24
TR by ECL on 2025-04-25
SD by CTS on 2025-04-24



- Existing Structure
- Proposed Project
- Existing Right-of-Way
- Airport
- Government Office
- Hospital/Polyclinic
- Library
- Place of Worship
- School
- Existing Gas Easement
- Government Lands
- Loudoun County Owned
- County Land
- Conservation Easements
- Loudoun Conservation Easement
- Wetlands and Waters
- Wetland
- Open Water
- Stream



Notes
1. Coordinate System: NAD 1983 StatePlane Virginia North FIPS 4501 Feet
2. Data Sources: Stantec, Dominion Energy Virginia, HPLD, U.S. Census Bureau, National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), DCR, FWA, VGN, East, Loudoun County GIS
3. Orthorectified © Esri



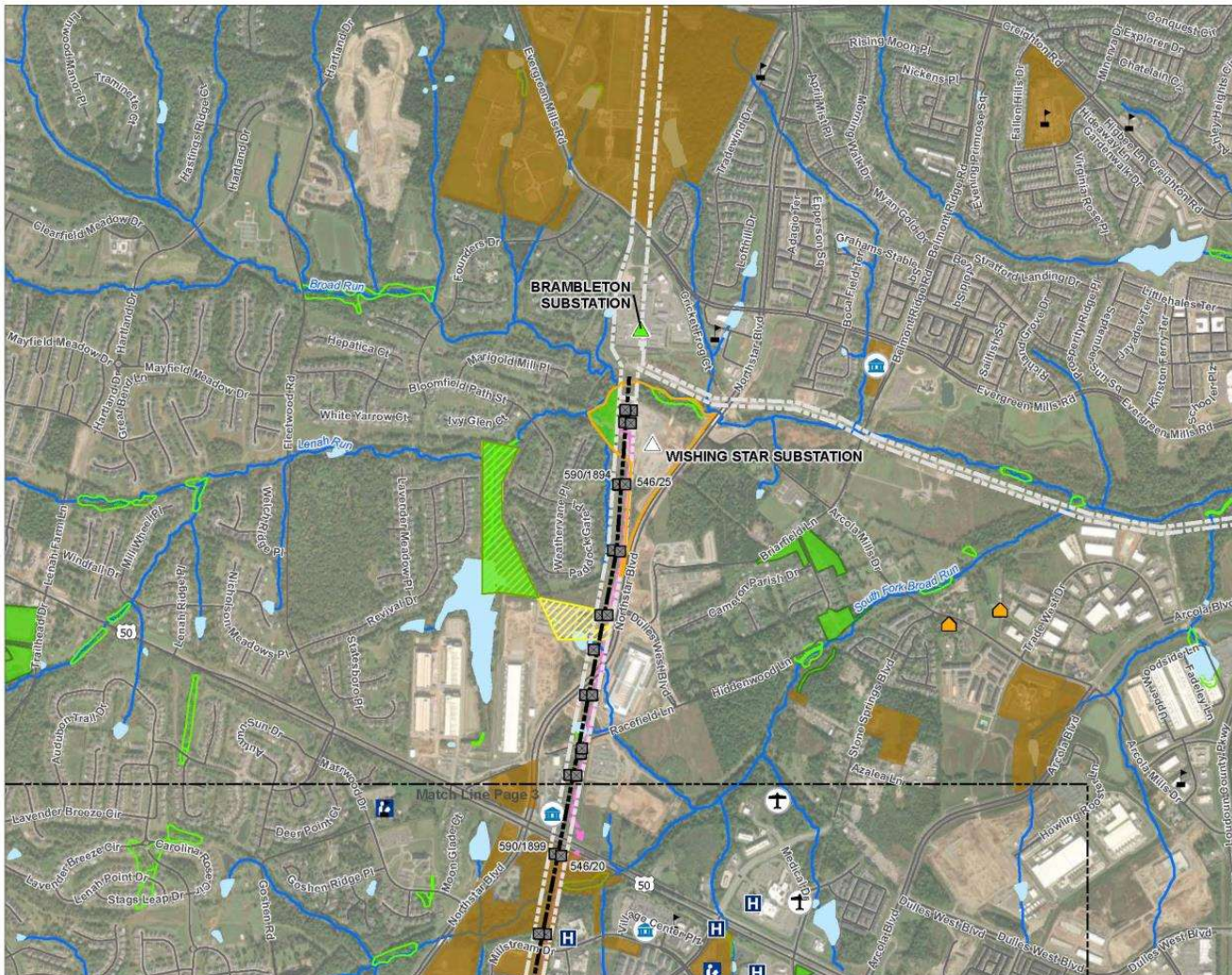


Figure No.

1

Title

Morrisville - Wishing Star Loudoun County Section

Client/Project
Dominion Energy Virginia
Morrisville - Vint Hill - Wishing Star 500-230 kV Project

Project Location
Fauquier, Loudoun, and Prince William Counties, Virginia

Prepared by JPR on 2025-04-24
TR by ECL on 2025-04-25
SD by CTS on 2025-04-24



- Existing Substation (Green triangle)
 - Future Substation (White triangle)
 - Existing Structure (Black square)
 - Proposed Project (Thick black line with cross-ticks)
 - Existing Right-of-Way (Thin black line)
 - Dominion Owned Parcel (Brown outline)
 - Airport (Circle with airplane icon)
 - Government Office (Blue building icon)
 - Hospital/Polyclinic (Blue 'H' icon)
 - Library (Blue book icon)
 - Place of Worship (Orange house icon)
 - School (Black schoolhouse icon)
 - Existing Gas Easement (Pink dashed line)
- Conservation Easements**
- Loudoun Conservation Easement (Green outline)
 - Private Easement (Yellow outline)
- Wetlands and Waters**
- Wetland (Green wavy line)
 - Open Water (Blue area)
 - Stream (Blue line)
- Government Lands**
- Loudoun County Owned (Brown fill)
 - County Land (Pink fill)



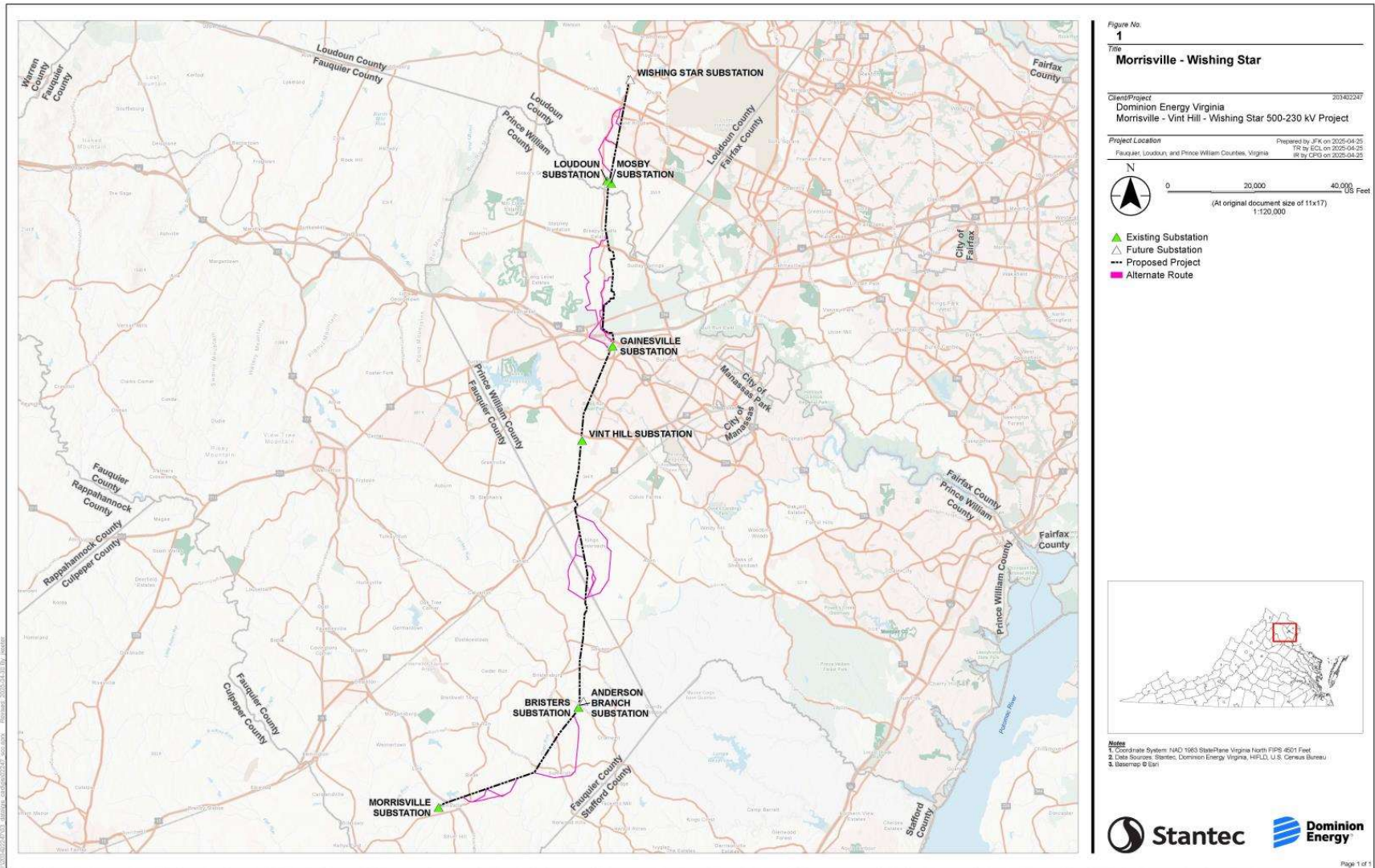
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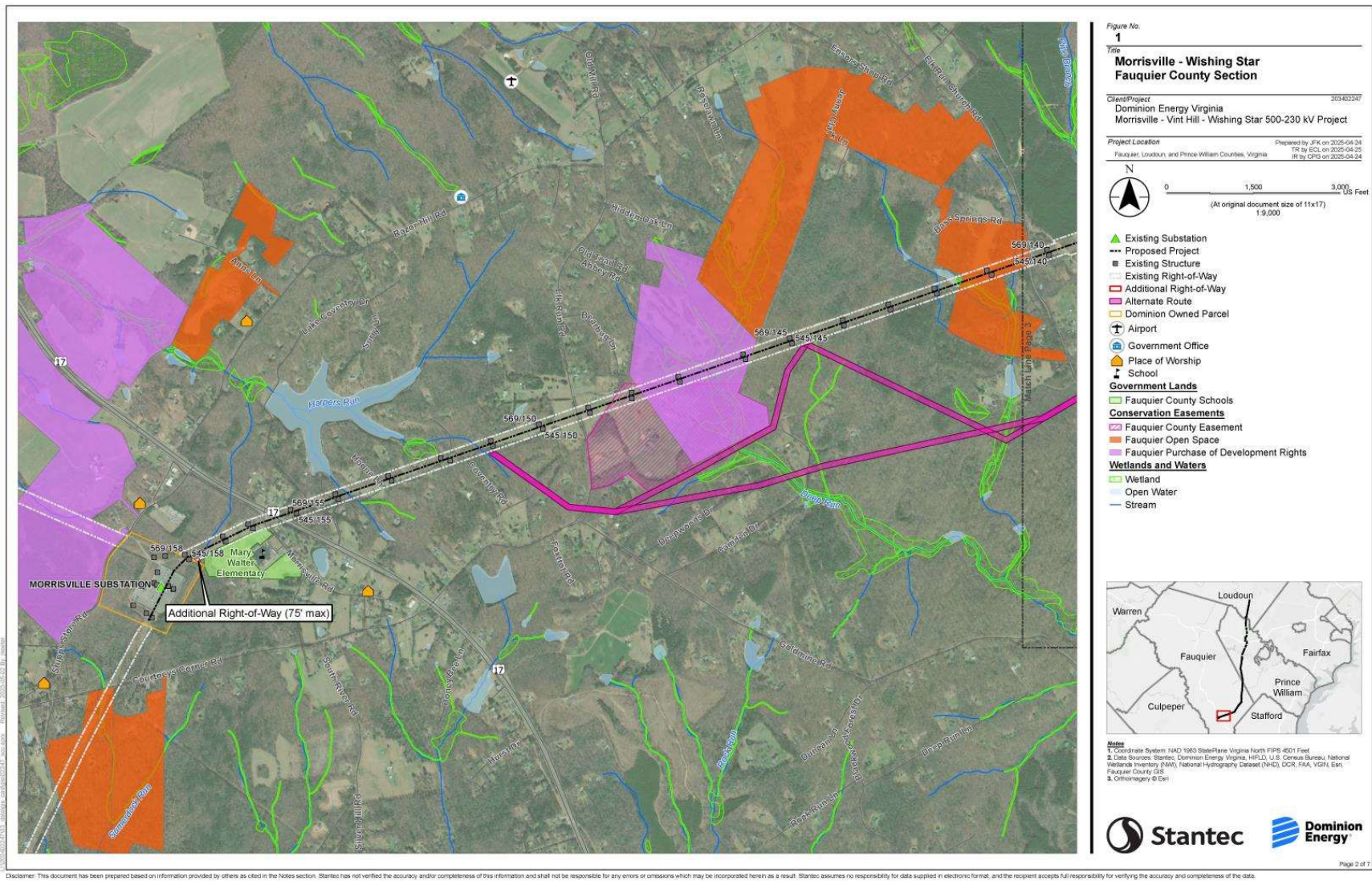
1. Coordinate System: NAD 1983 StatePlane Virginia North FIPS 4501 Feet
2. Data Sources: Stantec, Dominion Energy Virginia, HPLD, U.S. Census Bureau, National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), DCR, FMA, VGN, East, Loudoun County GIS
3. Orthoregistry © Esri



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Potential Alternate Routing





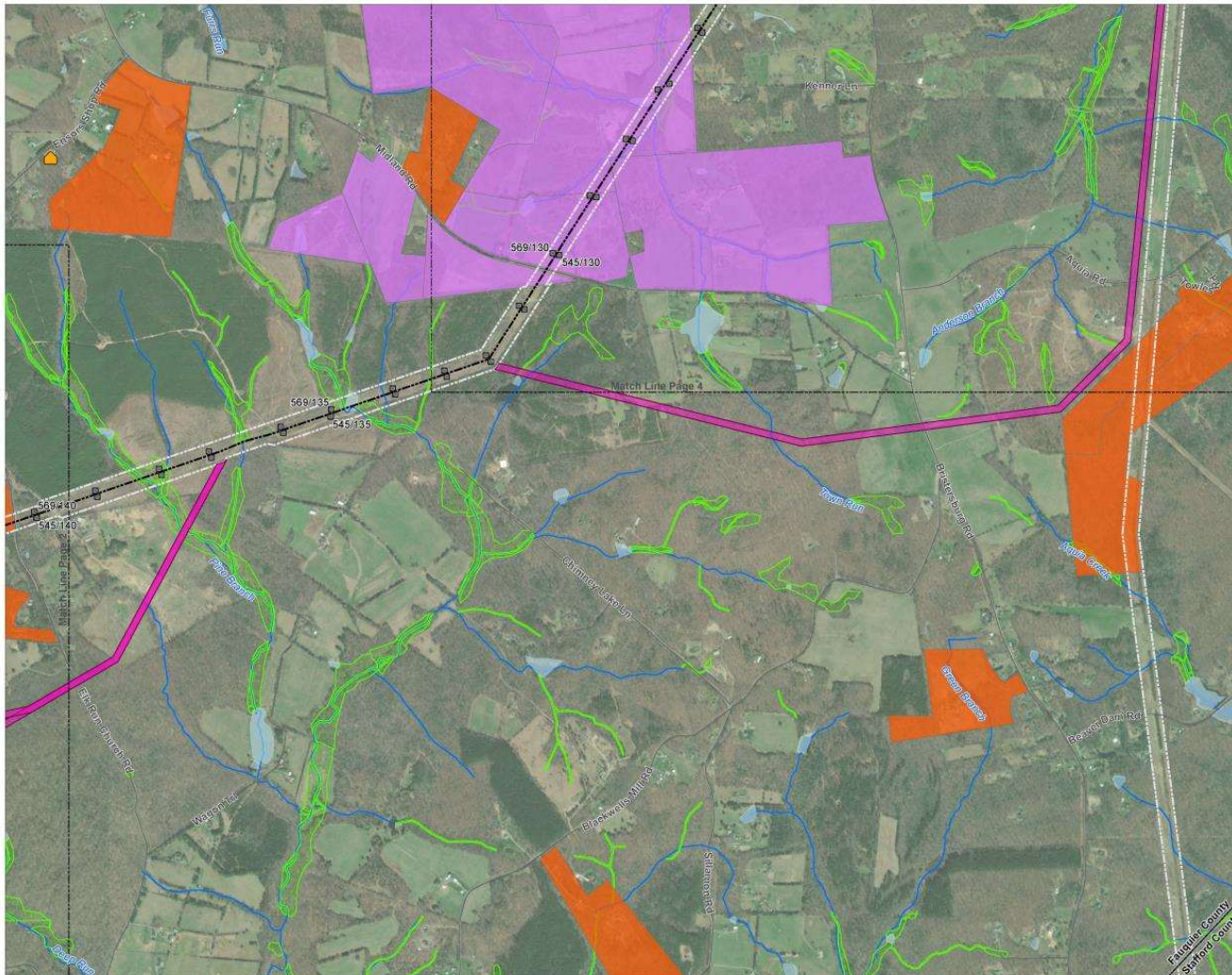


Figure No:

1

Title

Morrisville - Wishing Star Fauquier County Section

Client/Project
Dominion Energy Virginia
Morrisville - Vint Hill - Wishing Star 500-230 kV Project

203402247

Project Location
Fauquier, Loudoun, and Prince William Counties, Virginia

Prepared by JPK on 2025-04-24

TR by ECL on 2025-04-25

MR by CPTD on 2025-04-24



(At original document size of 11x17)
1:9,000

- Proposed Project
- Existing Structure
- Existing Right-of-Way
- Alternate Route
- ▲ Place of Worship
- Conservation Easements**
- Fauquier Open Space
- Fauquier Purchase of Development Rights
- Wetlands and Waters**
- Wetland
- Open Water
- Stream



Notes

1. Coordinate System: NAD 1983 StatePlane Virginia North FIPS 4501 Feet
2. Data Sources: Stantec, Dominion Energy Virginia, H&D, U.S. Census Bureau, National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), DCR, FAA, VGIN, Esri, Fauquier County GIS
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Page 3 of 7

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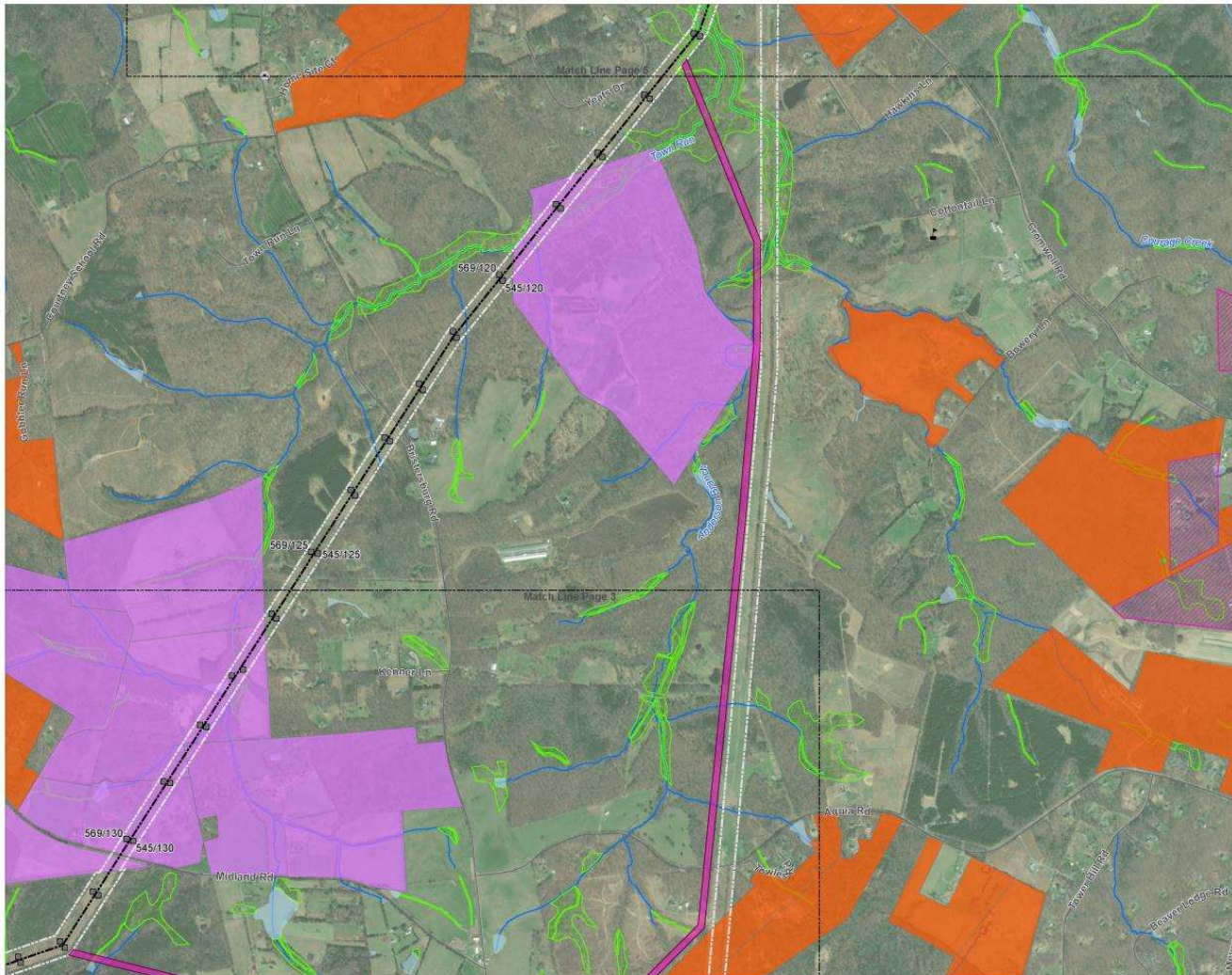


Figure No:

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Title

Morrisville - Wishing Star Fauquier County Section

Client/Project
Dominion Energy Virginia
Morrisville - Vint Hill - Wishing Star 500-230 kV Project

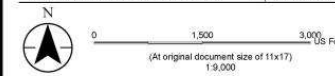
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Project Location
Fauquier, Loudoun, and Prince William Counties, Virginia

Prepared by JPK on 2025-04-24

TR by ECL on 2025-04-25

MR by CPO on 2025-04-24



- Proposed Project
- Existing Structure
- Existing Right-of-Way
- ▭ Alternate Route
- ⊙ Cemetery
- ⬮ School
- Conservation Easements**
 - ▭ Fauquier County Easement
 - ▭ Fauquier Open Space
 - ▭ Fauquier Purchase of Development Rights
- Wetlands and Waters**
 - ▭ Wetland
 - ▭ Open Water
 - ▭ Stream

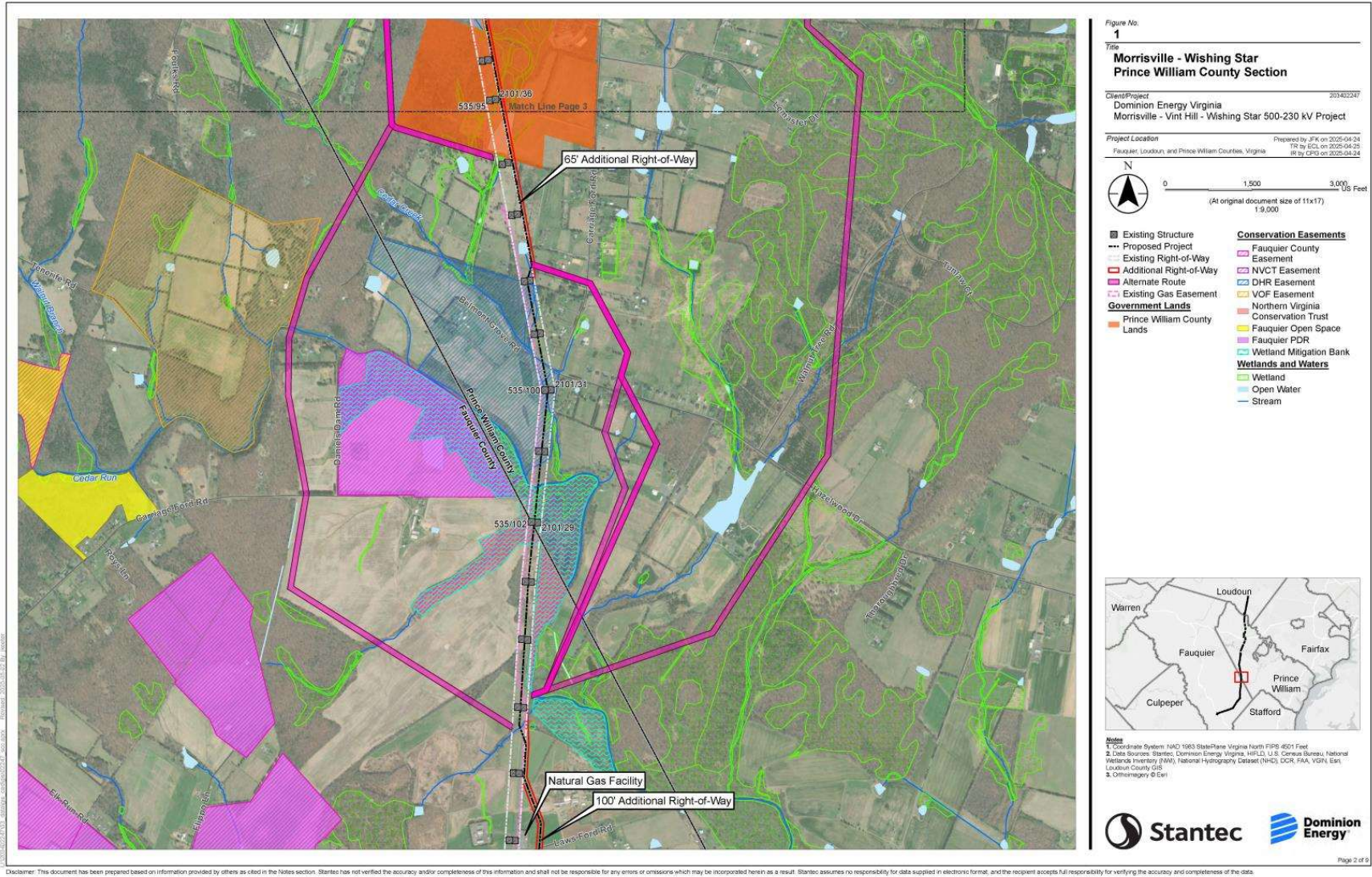


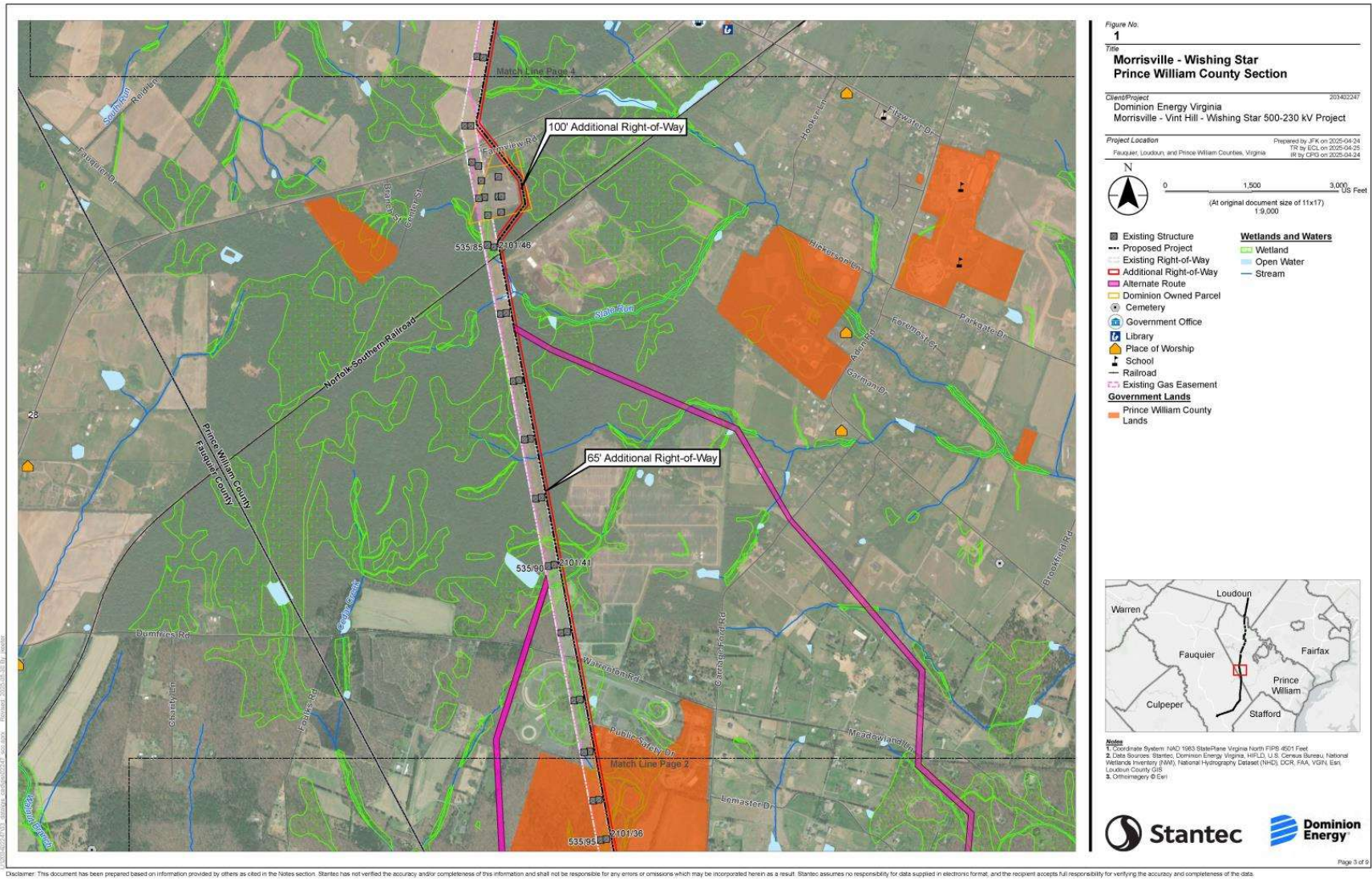
- Notes**
1. Coordinate System: NAD 1983 StatePlane Virginia North FIPS 4501 Feet
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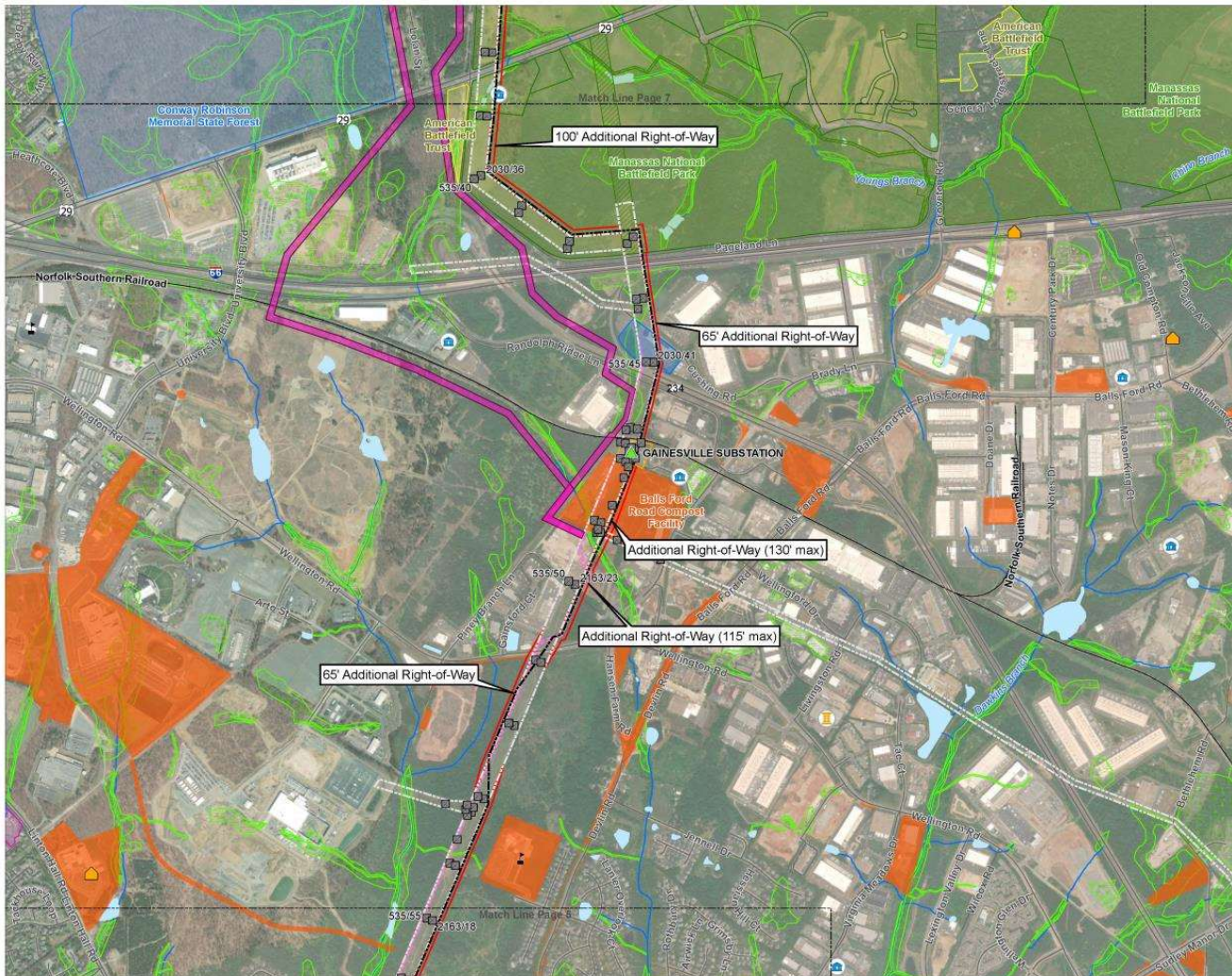


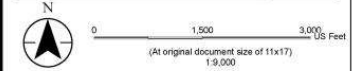
Figure No. 1

Morrisville - Wishing Star Prince William County Section

Client/Project
Dominion Energy Virginia
Morrisville - Vint Hill - Wishing Star 500-230 kV Project

Project Location
Fauquier, Loudoun, and Prince William Counties, Virginia

Prepared by JPK on 2025-04-24
TR by ECL on 2025-04-25
MR by CPO on 2025-04-24



- Existing Substation
 - Existing Structure
 - Proposed Project
 - Existing Right-of-Way
 - Additional Right-of-Way
 - Alternate Route
 - Dominion Owned Parcel
 - Government Office
 - Museum
 - Place of Worship
 - School
 - Railroad
 - Existing Gas Easement
- Conservation Easements**
- US NPS Easement
 - DHR Easement
- Wetlands and Waters**
- Wetland
 - Open Water
 - Stream
- Government Lands**
- Federal Land
 - State Land
 - County Land
 - Private Land
 - Prince William County Lands

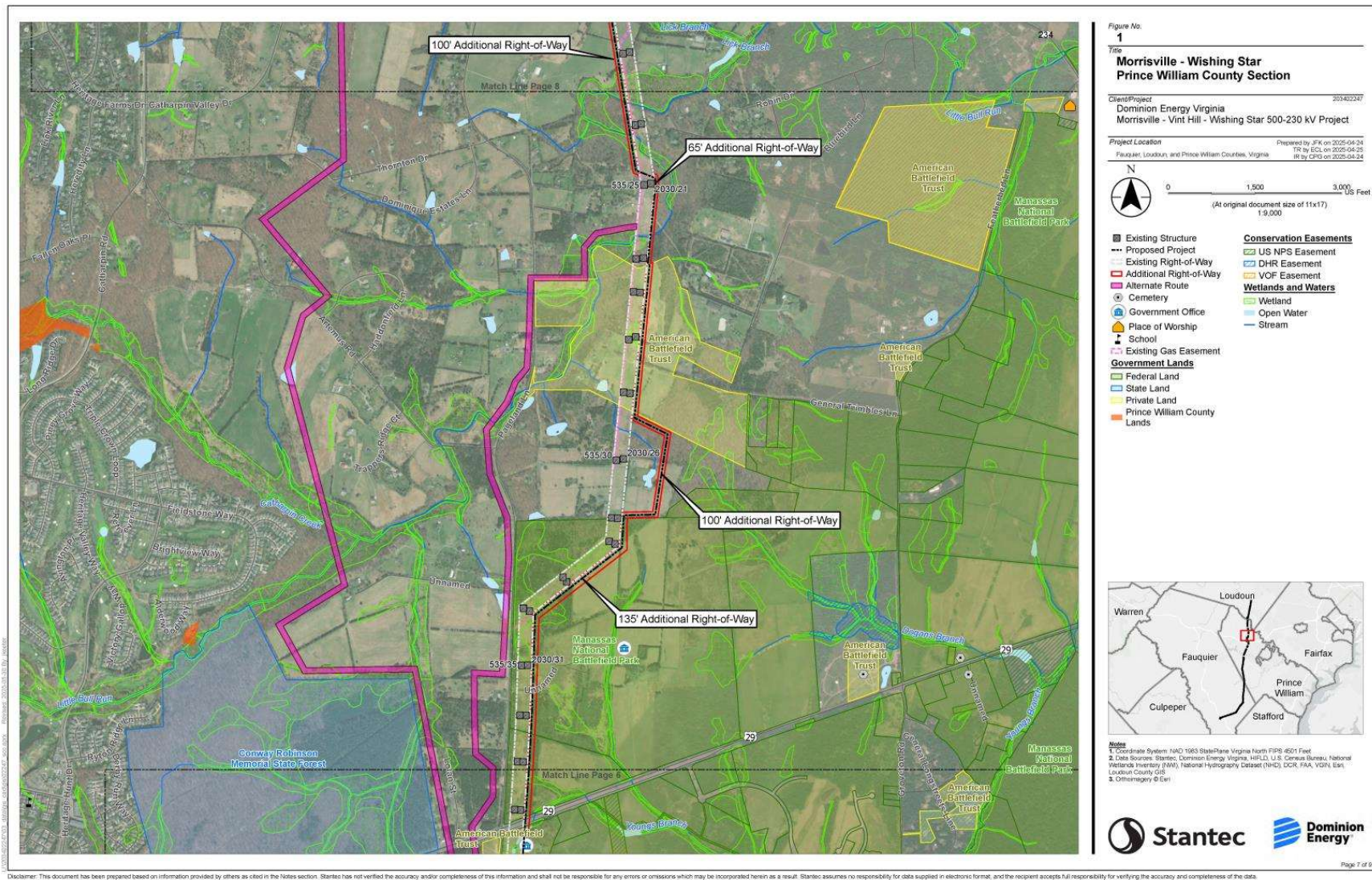


Notes

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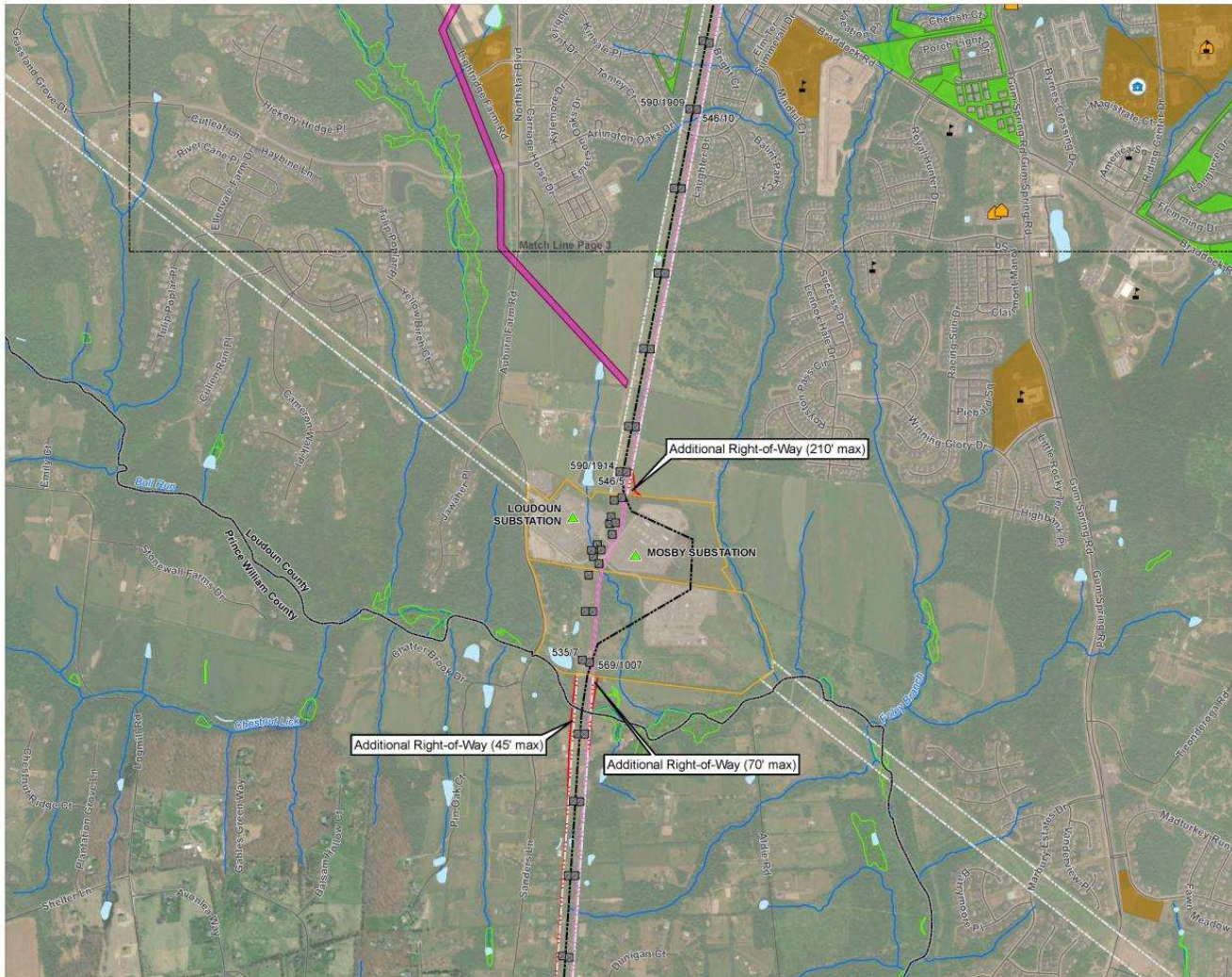


Figure No:

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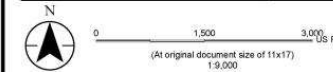
Title

Morrisville - Wishing Star Loudoun County Section

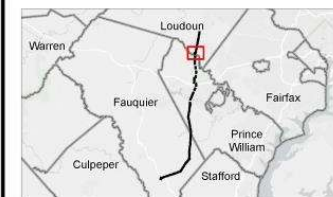
Client/Project
Dominion Energy Virginia
Morrisville - Vint Hill - Wishing Star 500-230 kV Project

Project Location
Fauquier, Loudoun, and Prince William Counties, Virginia

Prepared by JPK on 2025-04-24
TR by EOL on 2025-04-25
MR by CPO on 2025-04-24



- ▲ Existing Substation
- Existing Structure
- Proposed Project
- - - Existing Right-of-Way
- ▭ Additional Right-of-Way
- ▭ Alternate Route
- ▭ Dominion Owned Parcel
- Ⓜ Government Office
- Ⓜ Place of Worship
- Ⓜ School
- ▭ Existing Gas Easement
- Government Lands**
- ▭ Loudoun County Owned
- Conservation Easements**
- ▭ Loudoun Conservation Easement
- Wetlands and Waters**
- ▭ Wetland
- ▭ Open Water
- ▭ Stream



- Notes**
1. Coordinate System: NAD 1983 StatePlane Virginia North FIPS 4501 Feet
 2. Data Sources: Stantec, Dominion Energy Virginia, H&L, U.S. Census Bureau, National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), DCR, FAA, VGIN, Esri, Loudoun County GIS
 3. Other imagery: © Esri



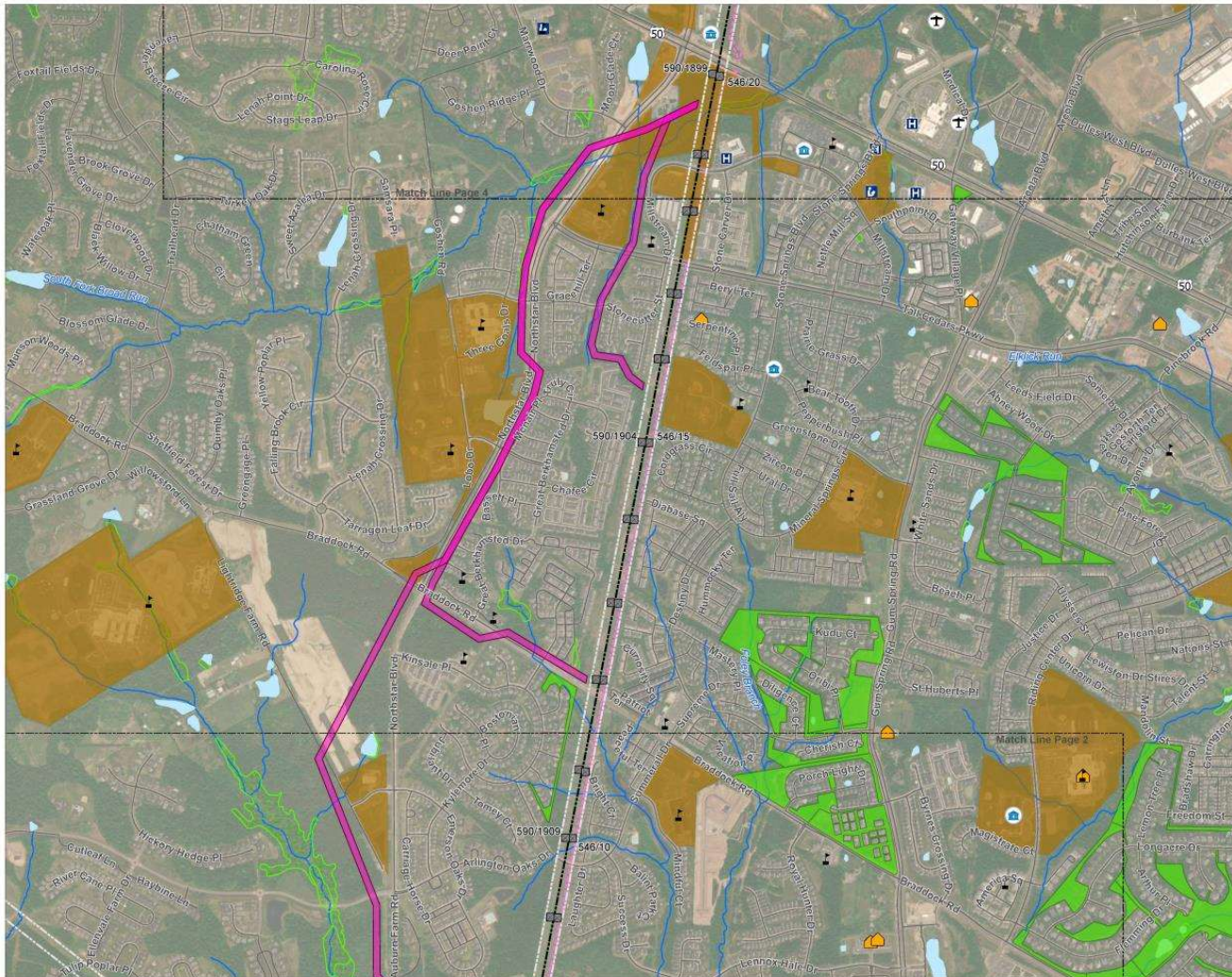


Figure No:
1

Title

Morrisville - Wishing Star Loudoun County Section

Client/Project
Dominion Energy Virginia
Morrisville - Vint Hill - Wishing Star 500-230 kV Project

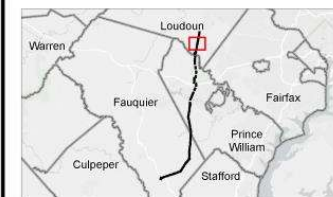
Project Location
Fauquier, Loudoun, and Prince William Counties, Virginia

Prepared by JPK on 2025-04-24
TR by ECL on 2025-04-25
MR by CPO on 2025-04-24



0 1,500 3,000 Feet
(At original document size of 11x17)
1:9,000

- Existing Structure
- Proposed Project
- Existing Right-of-Way
- Alternate Route
- ✈ Airport
- 🏛 Government Office
- 🏥 Hospital/Polyclinic
- 📖 Library
- 🕌 Place of Worship
- 🎓 School
- ⚡ Existing Gas Easement
- Government Lands**
- 🏡 Loudoun County Owned
- 🌿 County Land
- Conservation Easements**
- 🌿 Loudoun Conservation Easement
- Wetlands and Waters**
- 💧 Wetland
- 💧 Open Water
- 💧 Stream



Notes
1. Coordinate System: NAD 1983 StatePlane Virginia North FIPS 4501 Feet
2. Data Sources: Stantec, Dominion Energy Virginia, H&L, U.S. Census Bureau, National Wetlands Inventory (NWI), National Hydrography Dataset (NHD), DCR, FAA, VGIN, Esri
3. Other imagery © Esri



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GeoVoice

Sign up to provide our team with comments about the locations that matter to you. For example, you can add details about natural or historic resources in your community or more information related to your specific property.

DominionEnergy.com/MorrisvilleWishingStar



**Dominion
Energy**

Morrisville to Wishing Star **Transmission Line Project**

Welcome

Welcome to the interactive map tool for Dominion Energy's Morrisville to Wishing Star Transmission Line Project. You can use this tool to explore the proposed project and get important project updates including proposed structure information and simulated photography showing proposed infrastructure. Finally, you can use our online commenting tool, GeoVoice, to communicate directly with our team about any questions or concerns you have about the project. Thank you for helping us plan Virginia's clean energy future. What matters to you, matters to us, and we want to hear from you today.



Questions?

Thank you