

TABLE II.B.3

Proposed Line #579 Structure Number	579/32	579/33	579/34	579/35	579/36	579/37	579/38	579/39
Proposed Height (FT)	135	155	145	135	145	130	130	135
Existing Height (FT)	113	128	128	128	108	112	103	103

Notes:

1. The proposed structure heights are above ground level and include foundation reveal.
2. Structure locations and heights provided by Dominion Energy Virginia.
3. Project and structures are subject to change based on final engineering design.
4. Basemap from ESRI Topographic and World Street Map.
5. Between existing structures 579/132 and 579/147 and again between existing structures 579/154 and 579/184, Line #579 and Line #2110 are located on the same 500/230 kV double circuit structures and will be rebuilt on new 500/230 kV double circuit structures.
6. Between existing structures 579/148 and 579/153 Line #579 (Airport Section) is located on existing 500 kV single circuit structures and will be rebuilt on new 500 kV single circuit structures. Line #2110 existing structures will not be replaced along this Airport Section.



- Existing Right-of-Way
- Existing Substation/Switching Station
- Proposed Structures
- Existing Structures
- Dominion Station Parcel



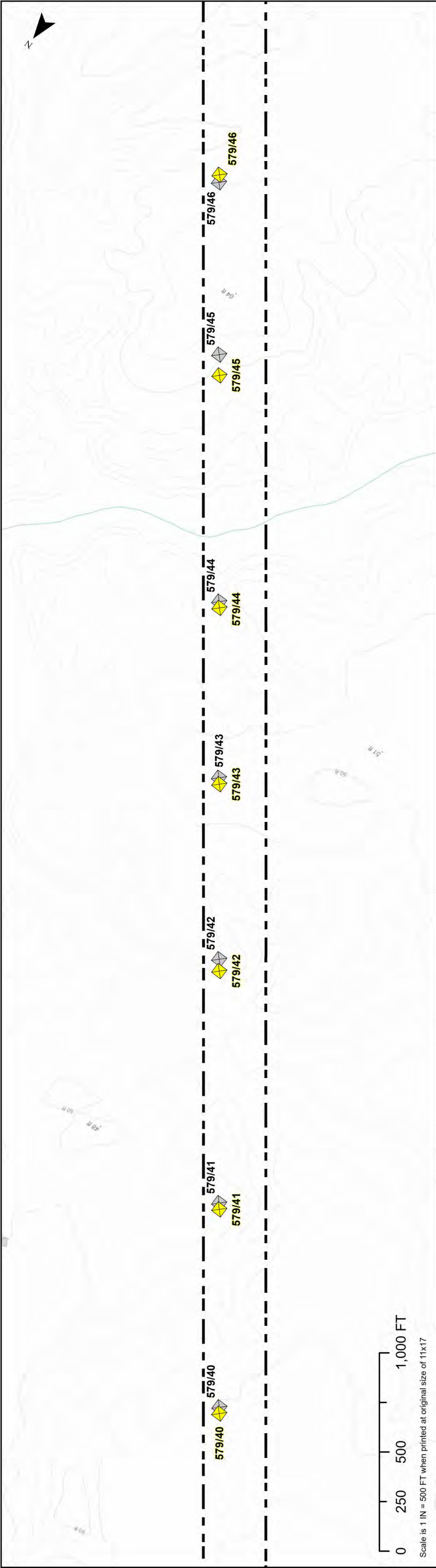
ATTACHMENT II.B.3.j
STRUCTURE LOCATION MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial
Rebuild

City of Chesapeake, Isle of Wight County and City of
Suffolk, Virginia

Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0265	KAS	5/15/2025



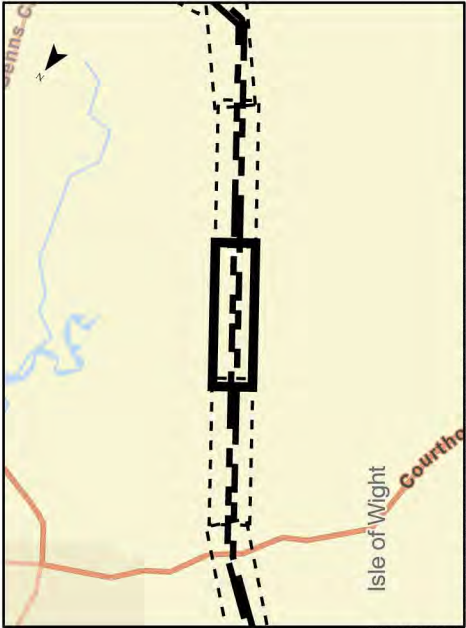
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TABLE II.B.3

Proposed Line #579 Structure Number	579/40	579/41	579/42	579/43	579/44	579/45	579/46
Proposed Height (FT)	135	145	145	120	150	165	135
Existing Height (FT)	118	119	118	93	131	128	103

Notes:

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ATTACHMENT II.B.3.j

STRUCTURE LOCATION MAP

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Suffolk - Thrasher 230 kV Line #2110 Partial
Rebuild

City of Chesapeake, Isle of Wight County and City of
Suffolk, Virginia

Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0265	KAS	5/15/2025

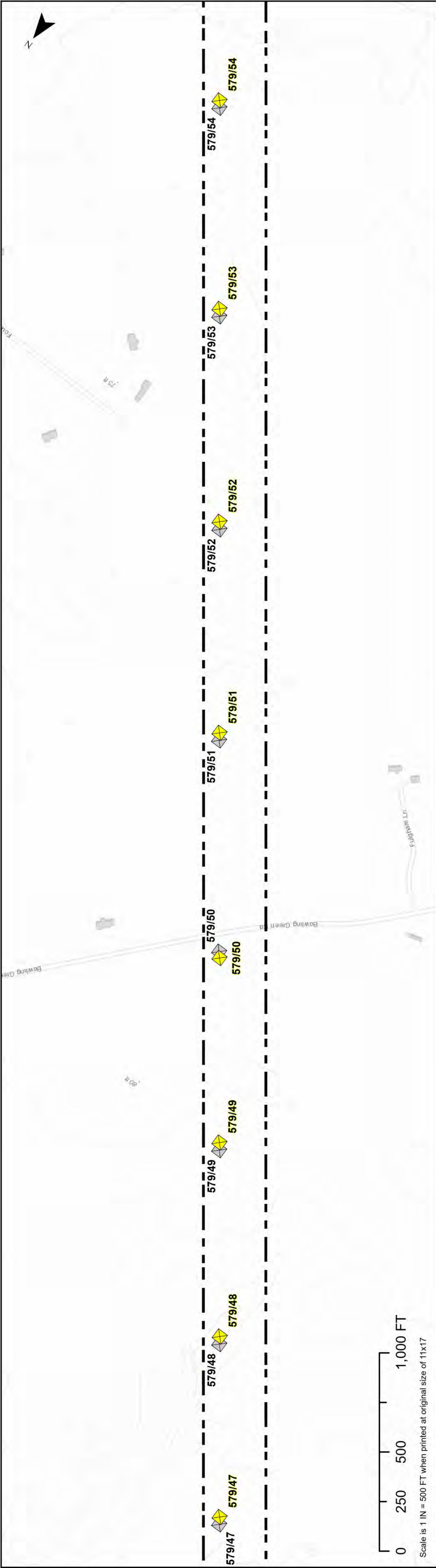
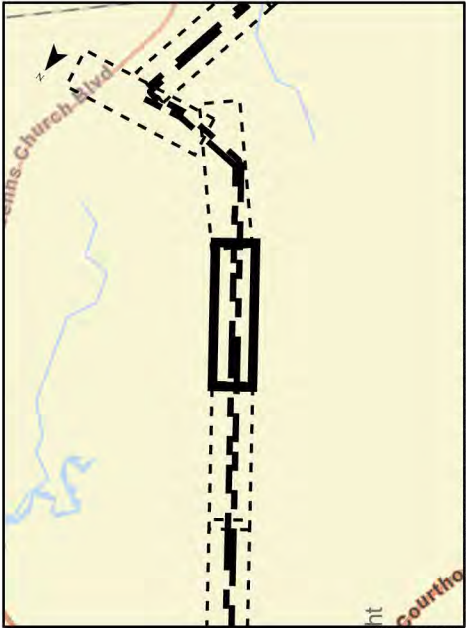


TABLE II.B.3

Proposed Line #579 Structure Number	579/47	579/48	579/49	579/50	579/51	579/52	579/53	579/54
Proposed Height (FT)	140	145	140	140	150	145	150	135
Existing Height (FT)	124	118	118	112	122	118	128	118

Notes:

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STRUCTURE LOCATION MAP

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Suffolk - Thrasher 230 kV Line #2110 Partial
Rebuild

City of Chesapeake, Isle of Wight County and City of
Suffolk, Virginia

Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
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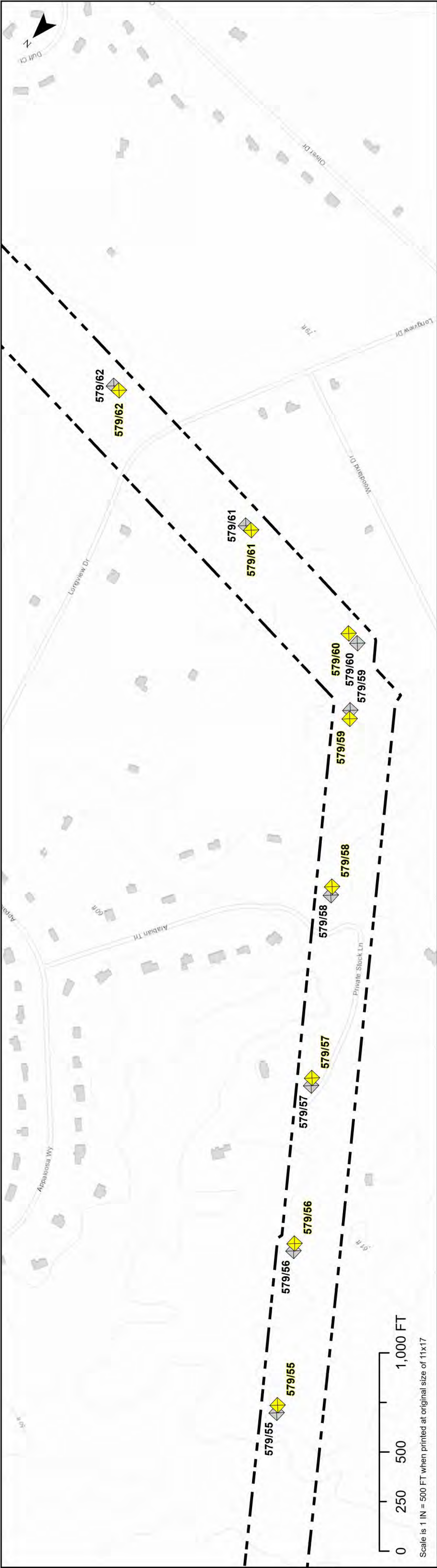
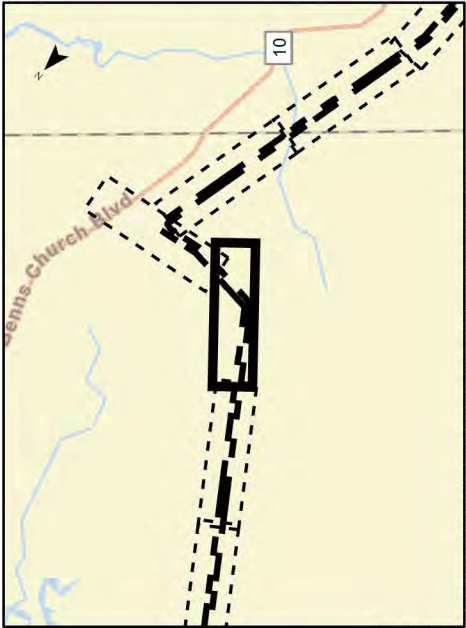


TABLE II.B.3

Proposed Line #579 Structure Number	579/55	579/56	579/57	579/58	579/59	579/60	579/61	579/62
Proposed Height (FT)	125	120	125	120	180	162	120	150
Existing Height (FT)	103	98	98	123	168	162	118	123

Notes:

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- 2. Structure locations and heights provided by Dominion Energy Virginia.
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City of Chesapeake, Isle of Wight County and City of
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0265	KAS	5/15/2025

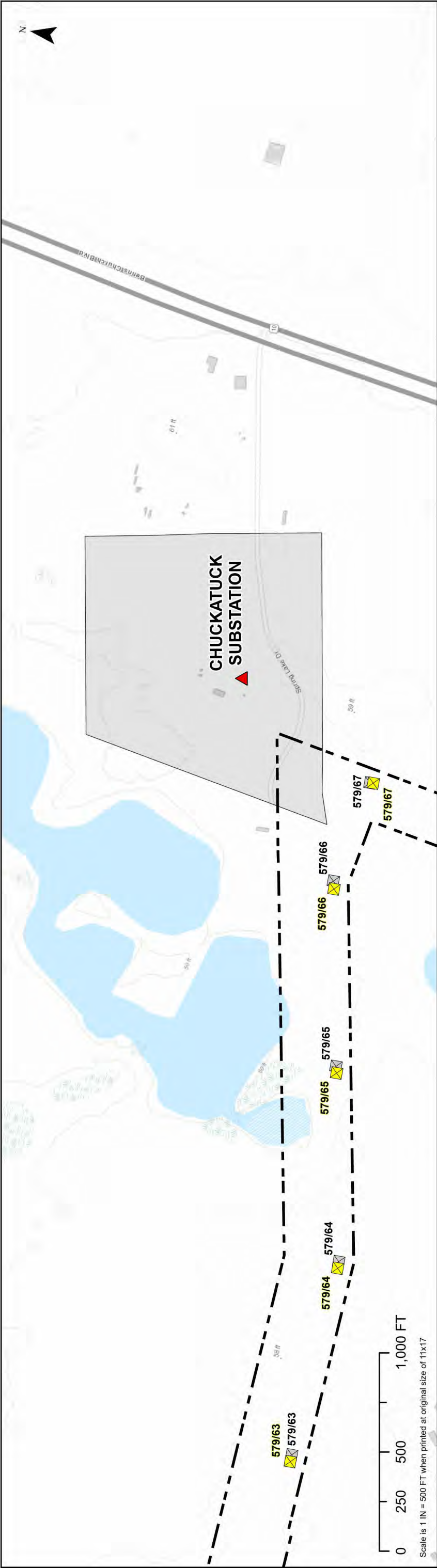
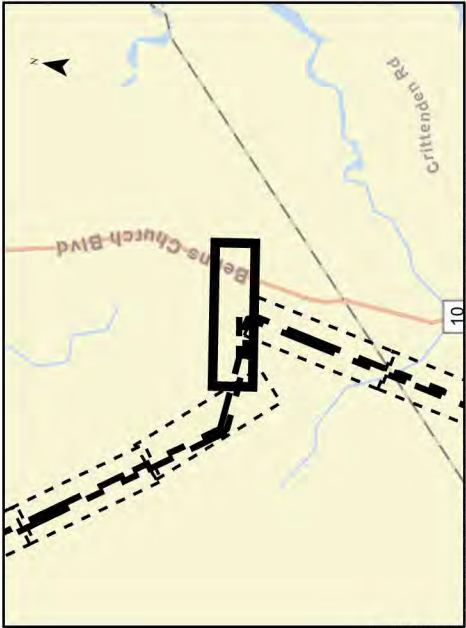


TABLE II.B.3

Proposed Line #579 Structure Number	579/63	579/64	579/65	579/66	579/67
Proposed Height (FT)	155	176	175	116	122
Existing Height (FT)	128	109	113	119	112

Notes:

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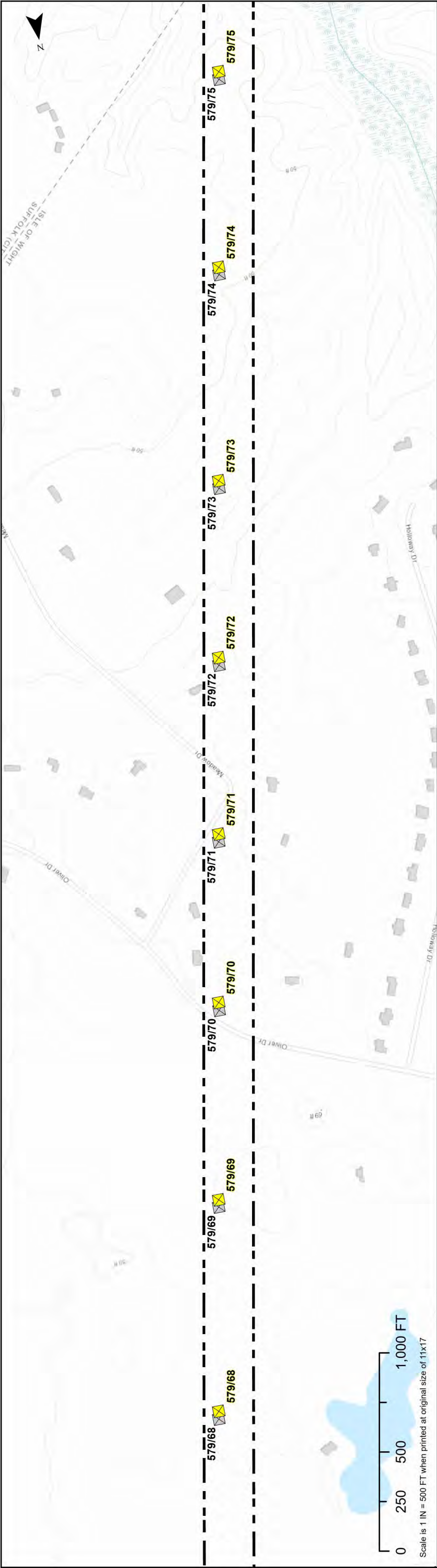
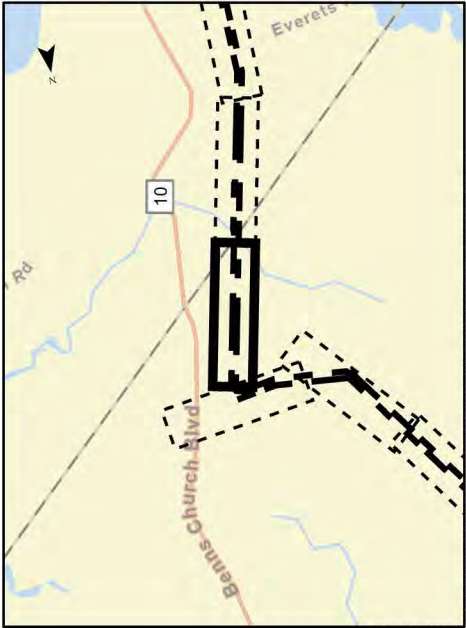


TABLE II.B.3

Proposed Line #579 Structure Number	579/68	579/69	579/70	579/71	579/72	579/73	579/74	579/75
Proposed Height (FT)	135	145	135	130	130	150	145	135
Existing Height (FT)	119	123	118	118	119	123	128	118

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STRUCTURE LOCATION MAP

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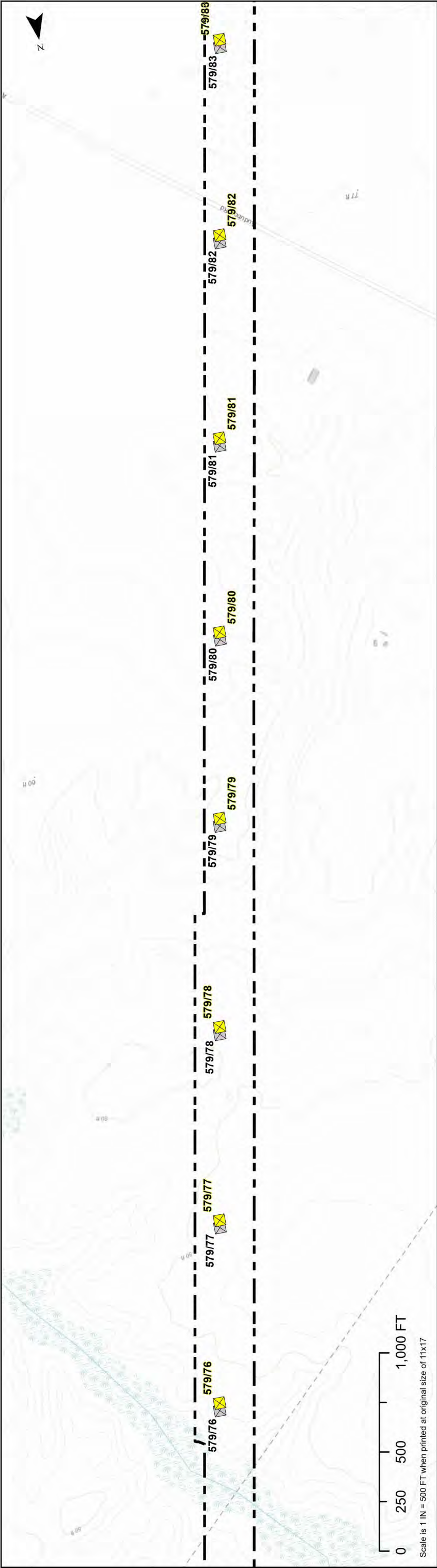


TABLE II.B.3

Proposed Line #579 Structure Number	579/76	579/77	579/78	579/79	579/80	579/81	579/82	579/83
Proposed Height (FT)	140	135	125	125	130	130	135	135
Existing Height (FT)	123	108	113	93	113	113	107	113

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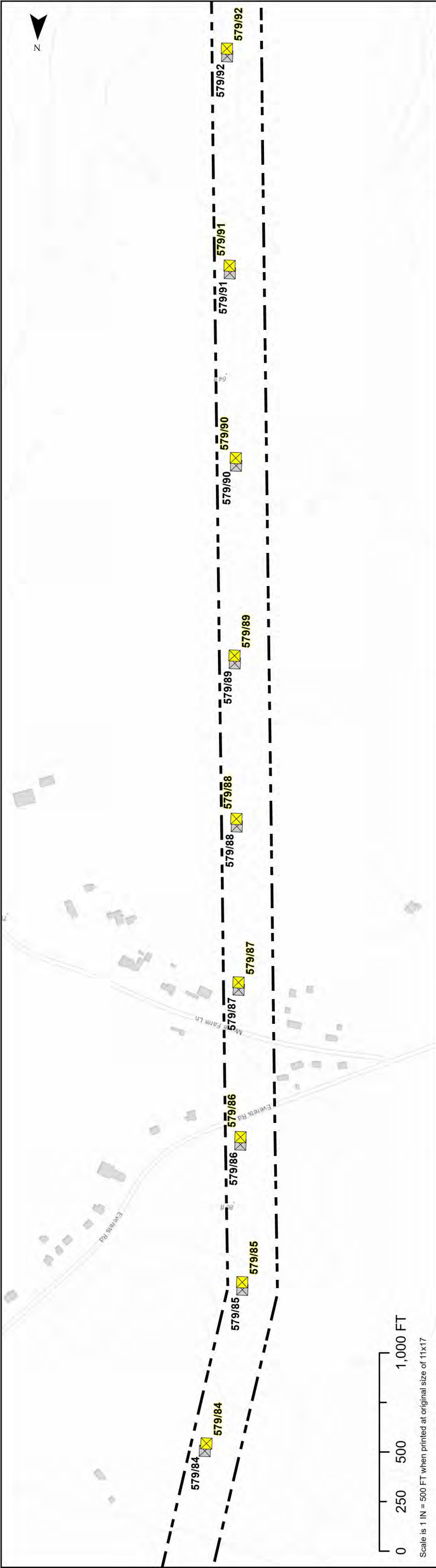


TABLE II.B.3

Proposed Line #579 Structure Number	579/84	579/85	579/86	579/87	579/88	579/89	579/90	579/91	579/92
Proposed Height (FT)	120	120	115	125	125	125	140	140	145
Existing Height (FT)	108	95	113	98	98	128	128	129	123

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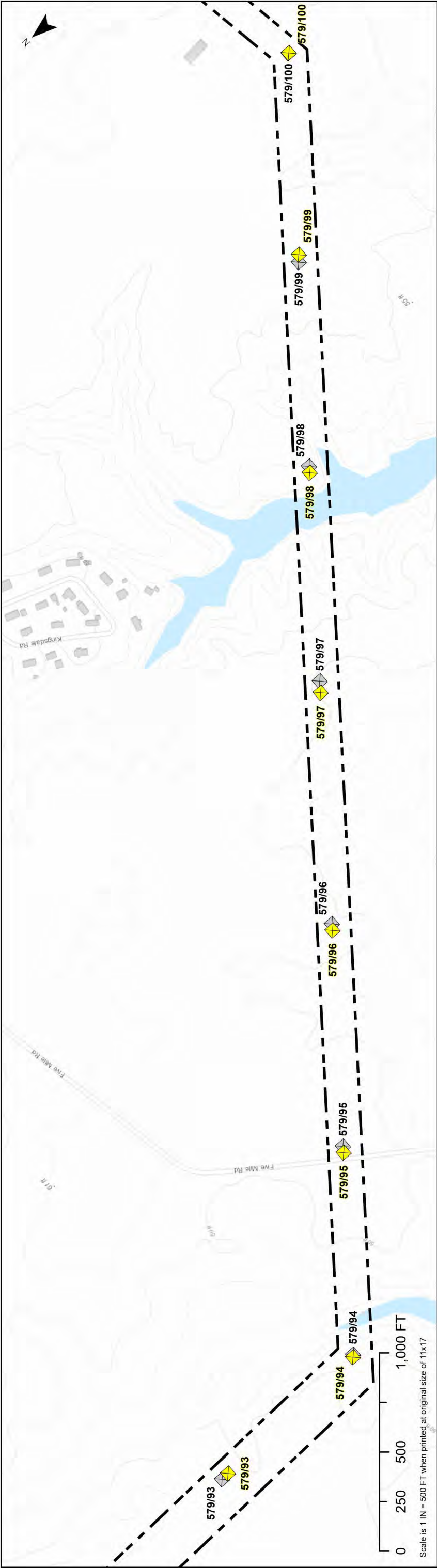
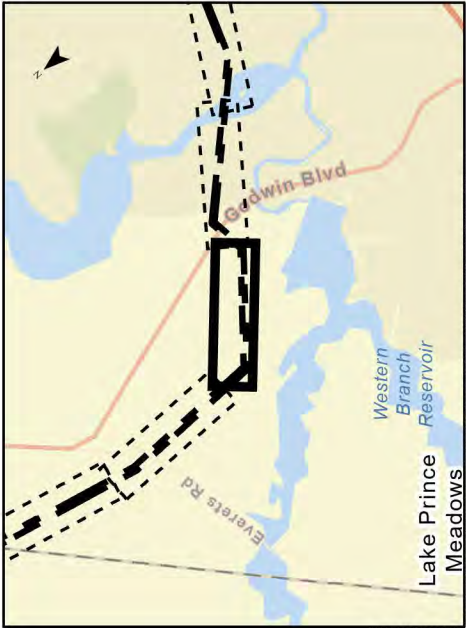


TABLE II.B.3

Proposed Line #579 Structure Number	579/93	579/94	579/95	579/96	579/97	579/98	579/99	579/100
Proposed Height (FT)	135	112	145	140	140	145	135	132
Existing Height (FT)	113	108	123	123	123	113	113	107

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Rebuild

City of Chesapeake, Isle of Wight County and City of
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0265	KAS	5/15/2025

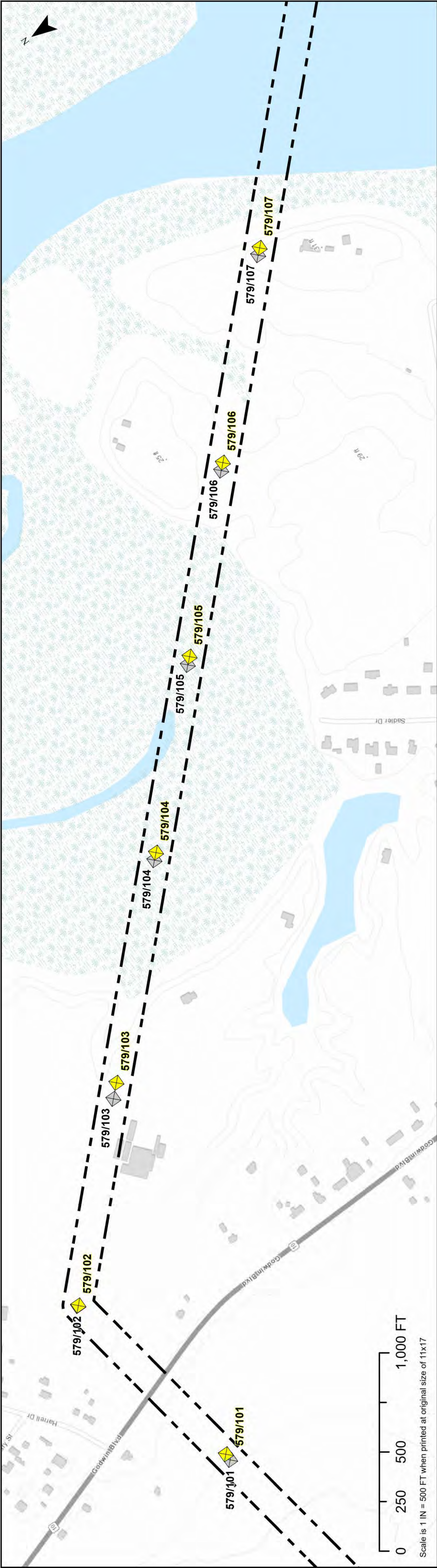


TABLE II.B.3

Proposed Line #579 Structure Number	579/101	579/102	579/103	579/104	579/105	579/106	579/107
Proposed Height (FT)	140	122	150	130	135	130	127
Existing Height (FT)	128	117	118	130	105	123	168

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STRUCTURE LOCATION MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial
Rebuild

City of Chesapeake, Isle of Wight County and City of
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Owner/ Applicant:
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C2 Env Project:	Prepared By:	Date:
0265	KAS	5/15/2025

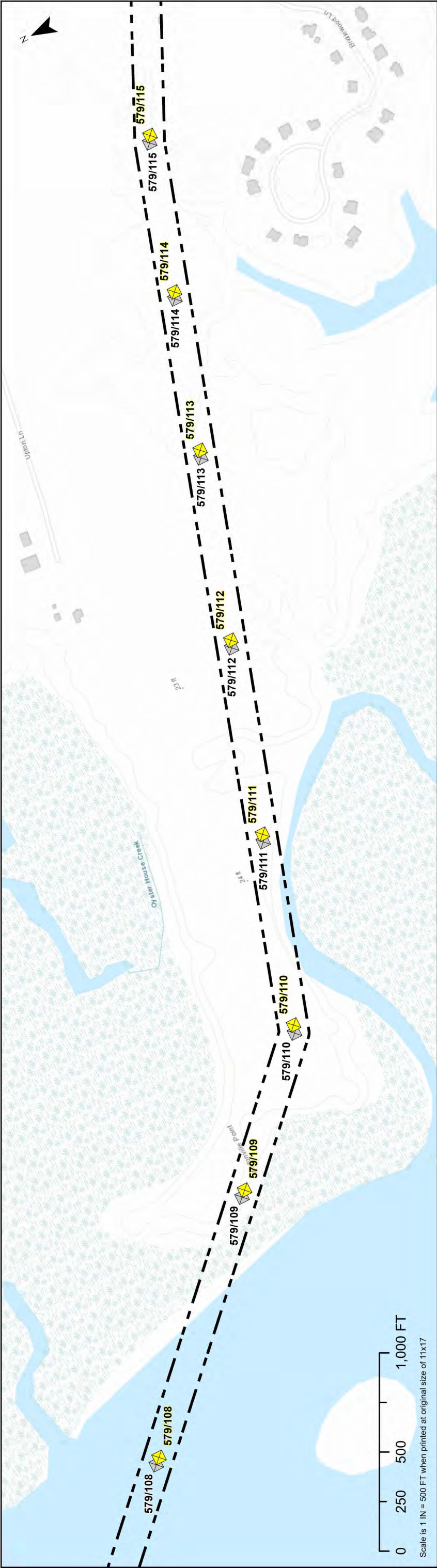
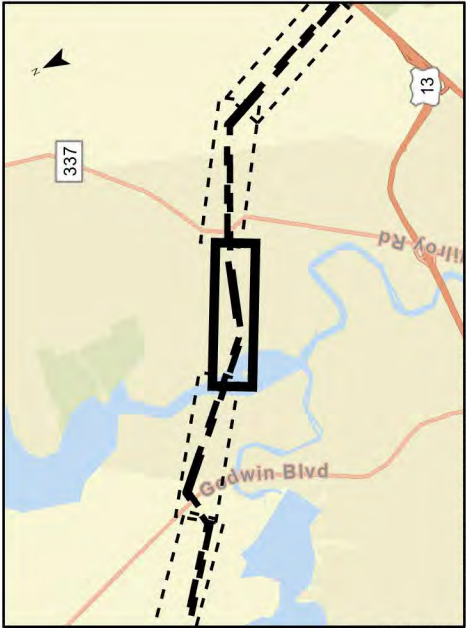


TABLE II.B.3

Proposed Line #579 Structure Number	579/108	579/109	579/110	579/111	579/112	579/113	579/114	579/115
Proposed Height (FT)	162	147	136	130	130	130	115	125
Existing Height (FT)	170	137	108	113	108	118	98	97

Notes:

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STRUCTURE LOCATION MAP

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City of Chesapeake, Isle of Wight County and City of
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Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project: 0265
Prepared By: KAS
Date: 5/15/2025

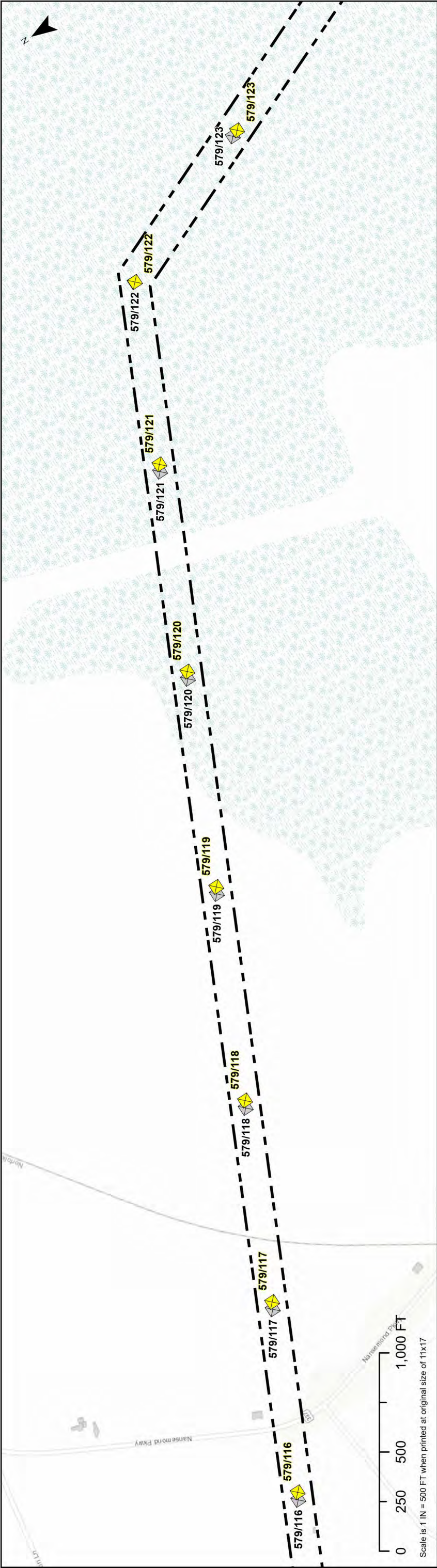


TABLE II.B.3

Proposed Line #579 Structure Number	579/116	579/117	579/118	579/119	579/120	579/121	579/122	579/123
Proposed Height (FT)	130	130	140	135	140	130	117	125
Existing Height (FT)	124	118	121	120	125	131	95	110

Notes:

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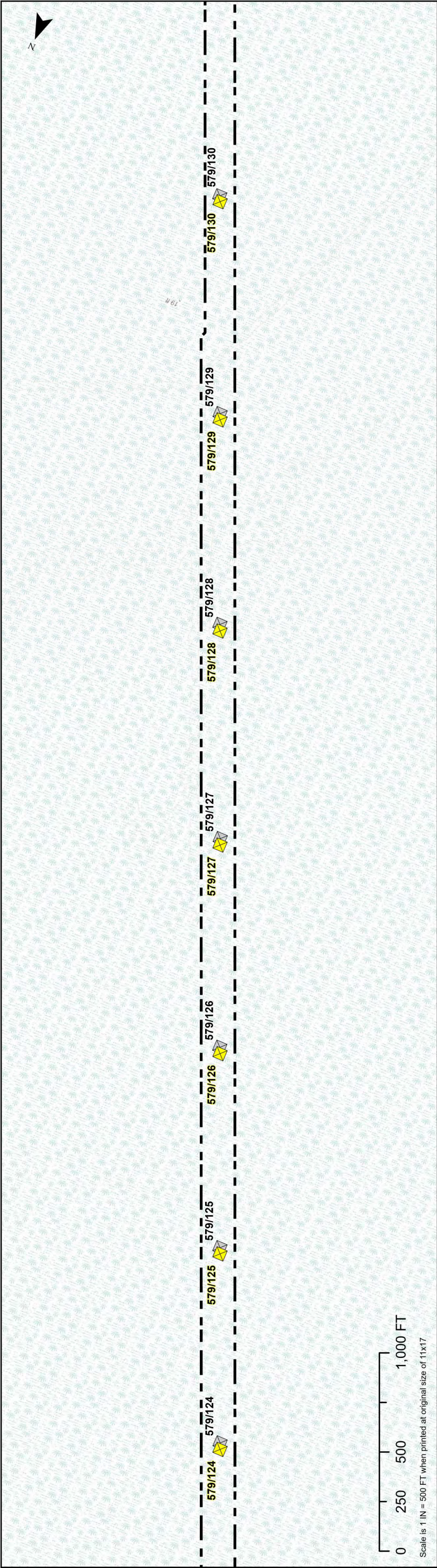


TABLE II.B.3

Proposed Line #579 Structure Number	579/124	579/125	579/126	579/127	579/128	579/129	579/130
Proposed Height (FT)	125	130	130	135	135	135	140
Existing Height (FT)	111	120	114	120	120	120	125

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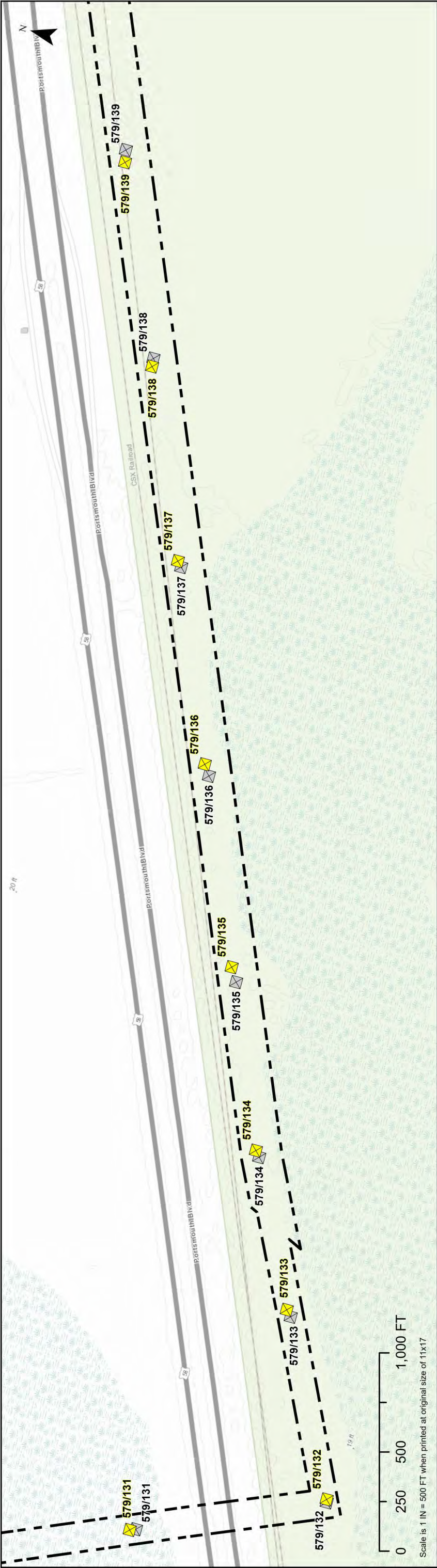


TABLE II.B.3

Proposed Line #579 Structure Number	579/131	579/132	579/133	579/134	579/135	579/136	579/137	579/138	579/139
Proposed Height (FT)	135	142	147	137	147	152	147	152	152
Existing Height (FT)	126	125	131	123	122	141	128	144	144

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City of Chesapeake, Isle of Wight County and City of
Suffolk, Virginia

Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0265	KAS	5/15/2025

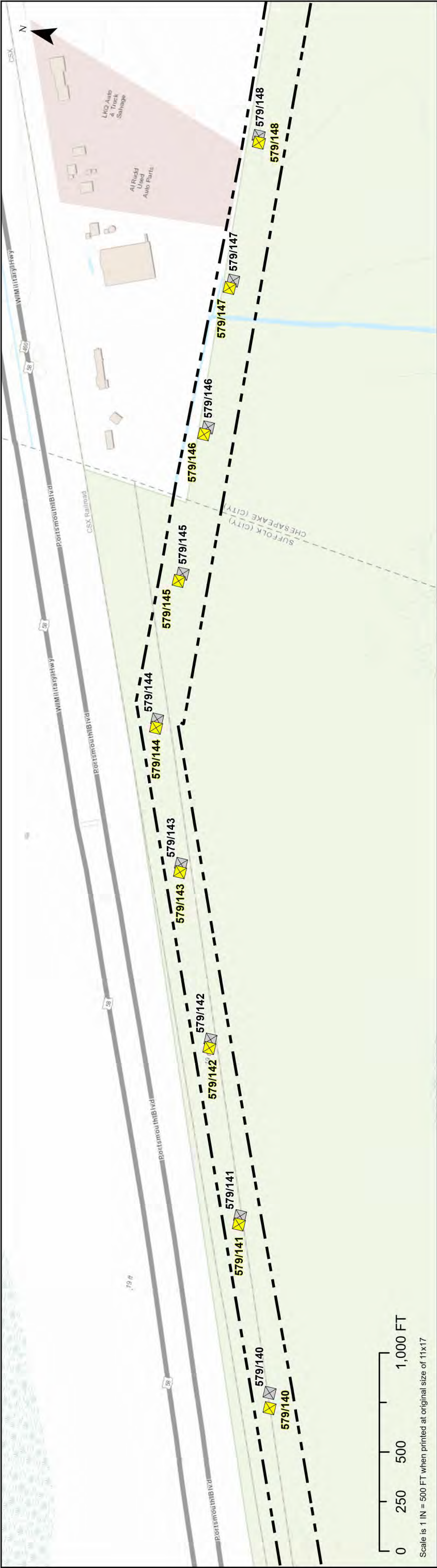
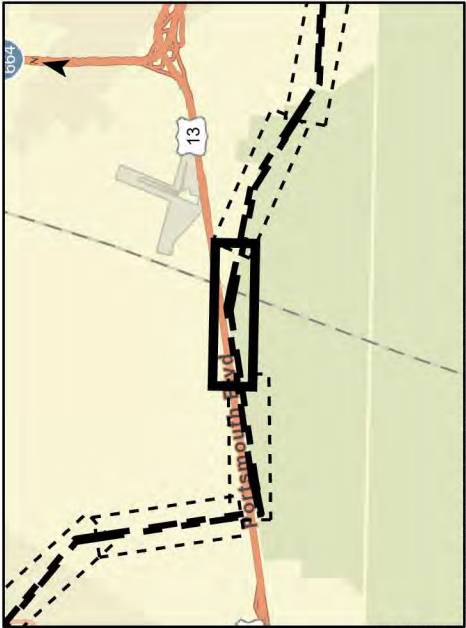


TABLE II.B.3

Proposed Line #579 Structure Number	579/140	579/141	579/142	579/143	579/144	579/145	579/146	579/147	579/148
Proposed Height (FT)	147	142	142	142	137	137	137	137	132
Existing Height (FT)	118	118	118	118	118	117	117	118	116

Notes:

- 1. The proposed structure heights are above ground level and include foundation reveal.
- 2. Structure locations and heights provided by Dominion Energy Virginia.
- 3. Project and structures are subject to change based on final engineering design.
- 4. Basemap from ESRI Topographic and World Street Map.
- 5. Between existing structures 579/132 and 579/147 and again between existing structures 579/154 and 579/184, Line #579 and Line #2110 are located on the same 500/230 kV double circuit structures and will be rebuilt on new 500/230 kV double circuit structures.
- 6. Between existing structures 579/148 and 579/153 Line #579 (Airport Section) is located on existing 500 kV single circuit structures and will be rebuilt on new 500 kV single circuit structures. Line #2110 existing structures will not be replaced along this Airport Section.



- Existing Right-of-Way
- Existing Substation/Switching Station
- Proposed Structures
- Existing Structures
- Dominion Station Parcel



ATTACHMENT II.B.3.j
STRUCTURE LOCATION MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial
Rebuild

City of Chesapeake, Isle of Wight County and City of
Suffolk, Virginia

Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0265	KAS	5/15/2025

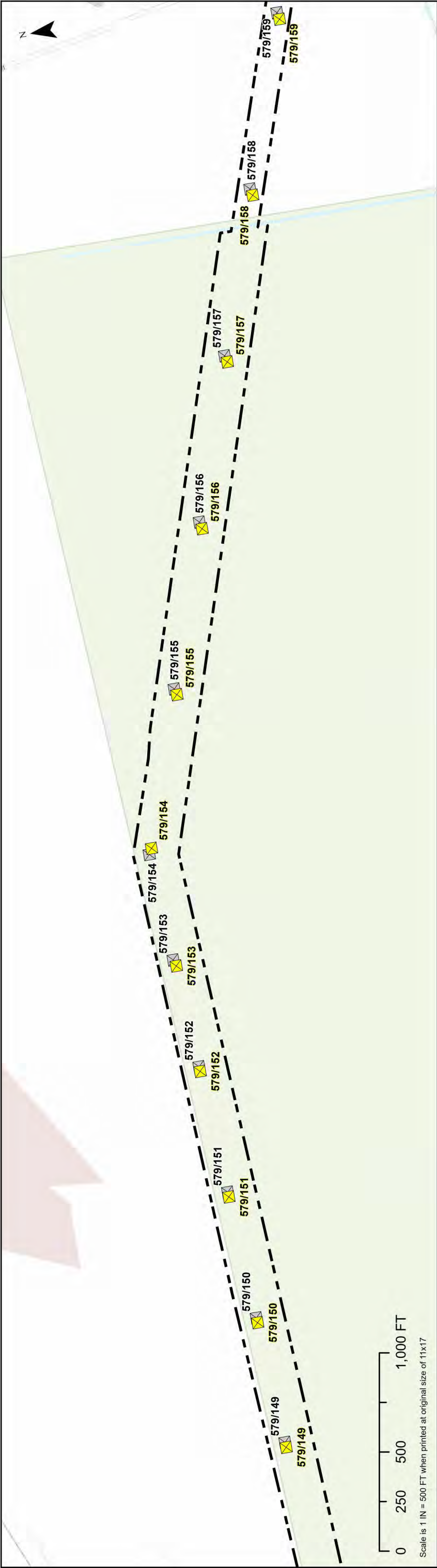


TABLE II.B.3

Proposed Line #579 Structure Number	579/149	579/150	579/151	579/152	579/153	579/154	579/155	579/156	579/157	579/158	579/159
Proposed Height (FT)	97	92	97	92	132	137	142	142	142	142	142
Existing Height (FT)	76	76	75	76	120	119	117	117	118	118	117

Notes:

1. The proposed structure heights are above ground level and include foundation reveal.
2. Structure locations and heights provided by Dominion Energy Virginia.
3. Project and structures are subject to change based on final engineering design.
4. Basemap from ESRI Topographic and World Street Map.
5. Between existing structures 579/132 and 579/147 and again between existing structures 579/154 and 579/184, Line #579 and Line #2110 are located on the same 500/230 kV double circuit structures and will be rebuilt on new 500/230 kV double circuit structures.
6. Between existing structures 579/148 and 579/153 Line #579 (Airport Section) is located on existing 500 kV single circuit structures and will be rebuilt on new 500 kV single circuit structures. Line #2110 existing structures will not be replaced along this Airport Section.



- Existing Right-of-Way
- Existing Substation/Switching Station
- Proposed Structures
- Existing Structures
- Dominion Station Parcel



ATTACHMENT II.B.3.j
STRUCTURE LOCATION MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial
Rebuild

City of Chesapeake, Isle of Wight County and City of
Suffolk, Virginia

Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0265	KAS	5/15/2025

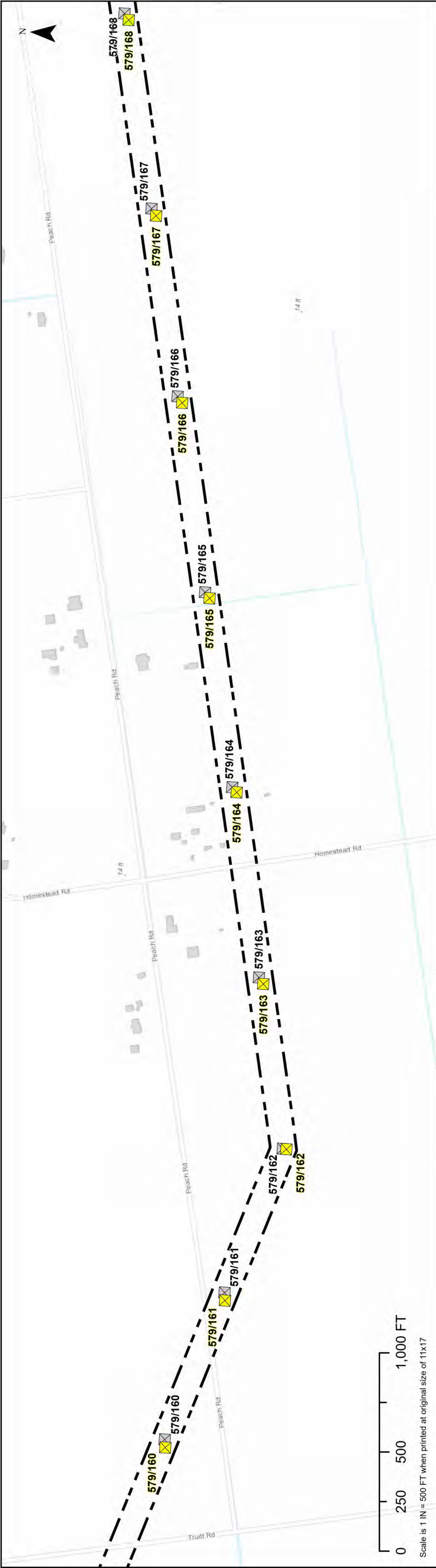
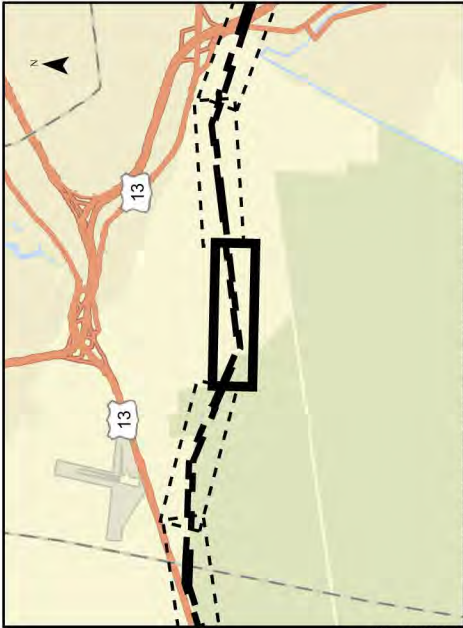


TABLE II.B.3

Proposed Line #579 Structure Number	579/160	579/161	579/162	579/163	579/164	579/165	579/166	579/167	579/168
Proposed Height (FT)	137	137	137	142	147	147	147	147	147
Existing Height (FT)	117	117	119	127	128	133	128	128	133

Notes:

- 1. The proposed structure heights are above ground level and include foundation reveal.
- 2. Structure locations and heights provided by Dominion Energy Virginia.
- 3. Project and structures are subject to change based on final engineering design.
- 4. Basemap from ESRI Topographic and World Street Map.
- 5. Between existing structures 579/132 and 579/147 and again between existing structures 579/154 and 579/184, Line #579 and Line #2110 are located on the same 500/230 kV double circuit structures and will be rebuilt on new 500/230 kV double circuit structures.
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- Existing Right-of-Way
- Existing Substation/Switching Station
- Proposed Structures
- Existing Structures
- Dominion Station Parcel



ATTACHMENT II.B.3.j
STRUCTURE LOCATION MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial
Rebuild

City of Chesapeake, Isle of Wight County and City of
Suffolk, Virginia

Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0265	KAS	5/15/2025

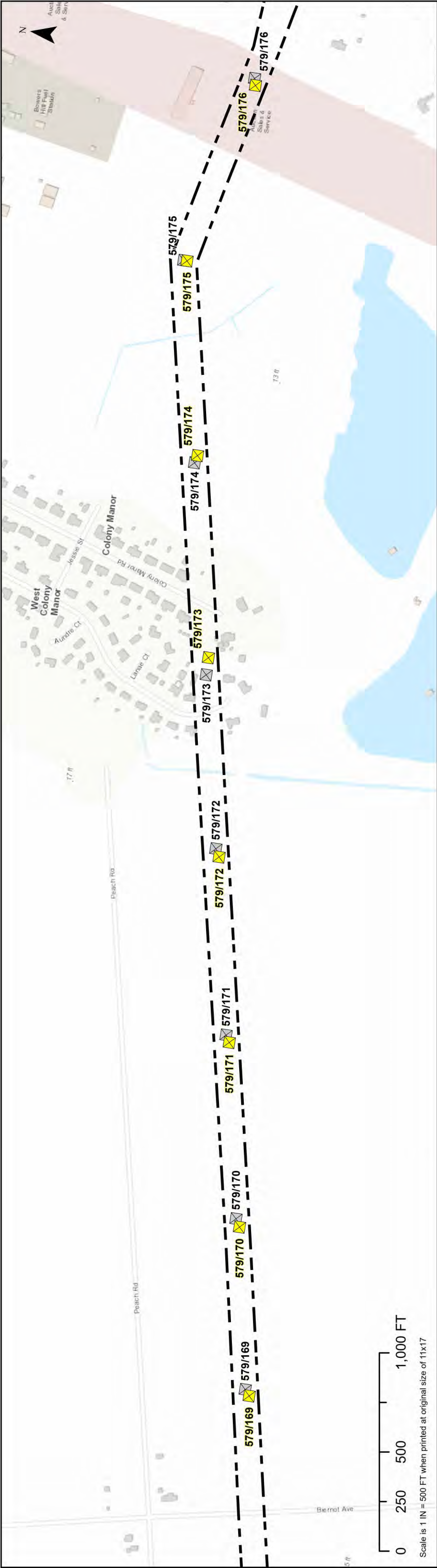
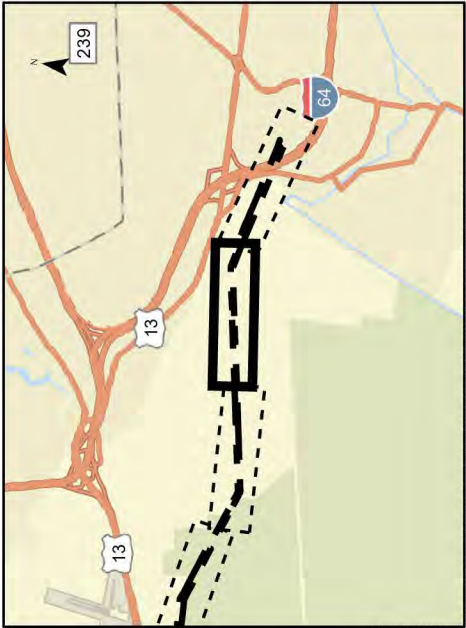


TABLE II.B.3

Proposed Line #579 Structure Number	579/169	579/170	579/171	579/172	579/173	579/174	579/175	579/176
Proposed Height (FT)	137	142	142	147	147	147	142	137
Existing Height (FT)	118	122	127	122	132	138	140	123

Notes:

1. The proposed structure heights are above ground level and include foundation reveal.
2. Structure locations and heights provided by Dominion Energy Virginia.
3. Project and structures are subject to change based on final engineering design.
4. Basemap from ESRI Topographic and World Street Map.
5. Between existing structures 579/132 and 579/147 and again between existing structures 579/154 and 579/184, Line #579 and Line #2110 are located on the same 500/230 kV double circuit structures and will be rebuilt on new 500/230 kV double circuit structures.
6. Between existing structures 579/148 and 579/153 Line #579 (Airport Section) is located on existing 500 kV single circuit structures and will be rebuilt on new 500 kV single circuit structures. Line #2110 existing structures will not be replaced along this Airport Section.



- Existing Right-of-Way
- Existing Substation/Switching Station
- Proposed Structures
- Existing Structures
- Dominion Station Parcel



ATTACHMENT II.B.3.j
STRUCTURE LOCATION MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial
Rebuild

City of Chesapeake, Isle of Wight County and City of
Suffolk, Virginia

Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0265	KAS	5/15/2025

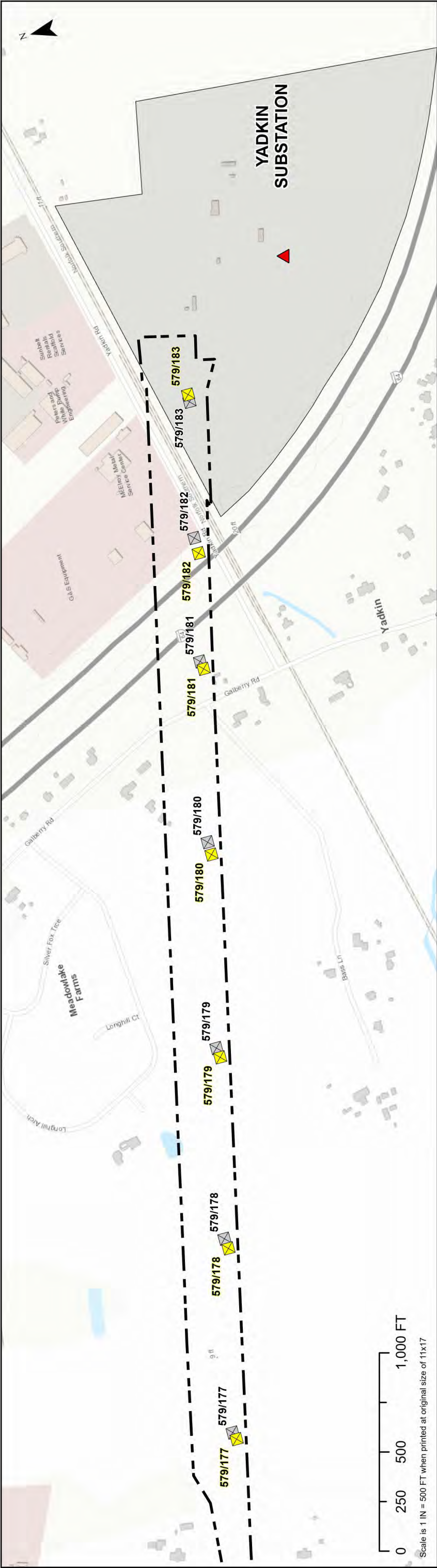
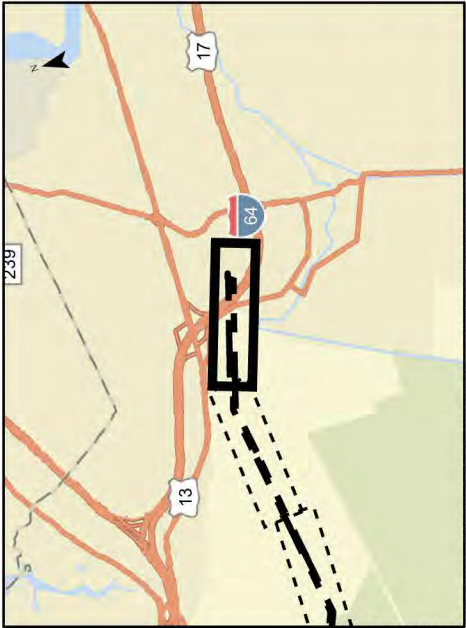


TABLE II.B.3

Proposed Line #579 Structure Number	579/177	579/178	579/179	579/180	579/181	579/182	579/183
Proposed Height (FT)	142	147	147	147	152	162	132
Existing Height (FT)	127	133	128	133	142	137	127

Notes:

1. The proposed structure heights are above ground level and include foundation reveal.
2. Structure locations and heights provided by Dominion Energy Virginia.
3. Project and structures are subject to change based on final engineering design.
4. Basemap from ESRI Topographic and World Street Map.
5. Between existing structures 579/132 and 579/147 and again between existing structures 579/154 and 579/184, Line #579 and Line #2110 are located on the same 500/230 kV double circuit structures and will be rebuilt on new 500/230 kV double circuit structures.
6. Between existing structures 579/148 and 579/153 Line #579 (Airport Section) is located on existing 500 kV single circuit structures and will be rebuilt on new 500 kV single circuit structures. Line #2110 existing structures will not be replaced along this Airport Section.



- Existing Right-of-Way
- Existing Substation/Switching Station
- Proposed Structures
- Existing Structures
- Dominion Station Parcel

ATTACHMENT II.B.3.j

STRUCTURE LOCATION MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial
Rebuild

City of Chesapeake, Isle of Wight County and City of
Suffolk, Virginia

Owner/ Applicant:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0265	KAS	5/15/2025

II. DESCRIPTION OF THE PROPOSED PROJECT

B. Line Design and Operational Features

- 4. With regard to the proposed supporting structures for all feasible alternate routes, provide the maximum, minimum and average structure heights with respect to the whole route.**

Response: Not applicable.

II. DESCRIPTION OF THE PROPOSED PROJECT

B. Line Design and Operational Features

- 5. For lines being rebuilt, provide mapping showing existing and proposed structure heights for each individual structure within the ROW, as proposed in the application.**

Response: See Attachment II.B.3.j for approximate structure locations and existing and proposed structure heights for the proposed Rebuild Project (excluding the Airport Section of Line #2110, which is not proposed for rebuild). The proposed approximate structure heights are from the conceptual design created to estimate the cost of the proposed Rebuild Project and are subject to change based on final engineering design. The approximate structure heights include estimated foundation reveal.

II. DESCRIPTION OF THE PROPOSED PROJECT

B. Line Design and Operational Features

6. **Provide photographs for [a] typical existing facilities to be removed, [b] comparable photographs or representations for proposed structures, and [c] visual simulations showing the appearance of all planned transmission structures at identified historic locations within one mile of the proposed centerline and in key locations identified by the Applicant.**

Response: [a] See Attachment II.B.6.a.i-vii for photographs of typical existing facilities to be removed.

[b] See Attachment II.B.6.b.i-viii²⁶ for representative photographs of the proposed structures.²⁷ Note that the proposed Rebuild Project structures will utilize dulled galvanized steel.

[c] Visual simulations showing the appearance of the proposed transmission structures at identified historic locations within 1.0 mile of the proposed centerline of the Rebuild Project are provided. See Attachment II.B.6.c for a map of the simulation locations, the existing views at the historic locations, and simulated proposed views. These simulations were created using Geographic Information Systems modeling to depict whether the proposed structures will be visible from the identified historic location. The historic locations evaluated are identified in the table below. See also the Stage I Pre-Application Analysis Report contained in DEQ Supplement Attachment 2.I.1.

VDHR #	Resource Name	OP	Comments
046-0069	Delk Farm (Current), House, 10114 Mill Swamp Road (Function/Location)	Viewpoint 1	All project components remain behind and beneath vegetation and screened from view
046-5566	Dwelling, 11231 Mill Swamp Road (Function/Location)	Viewpoint 2	All project components remain behind and beneath vegetation and screened from view

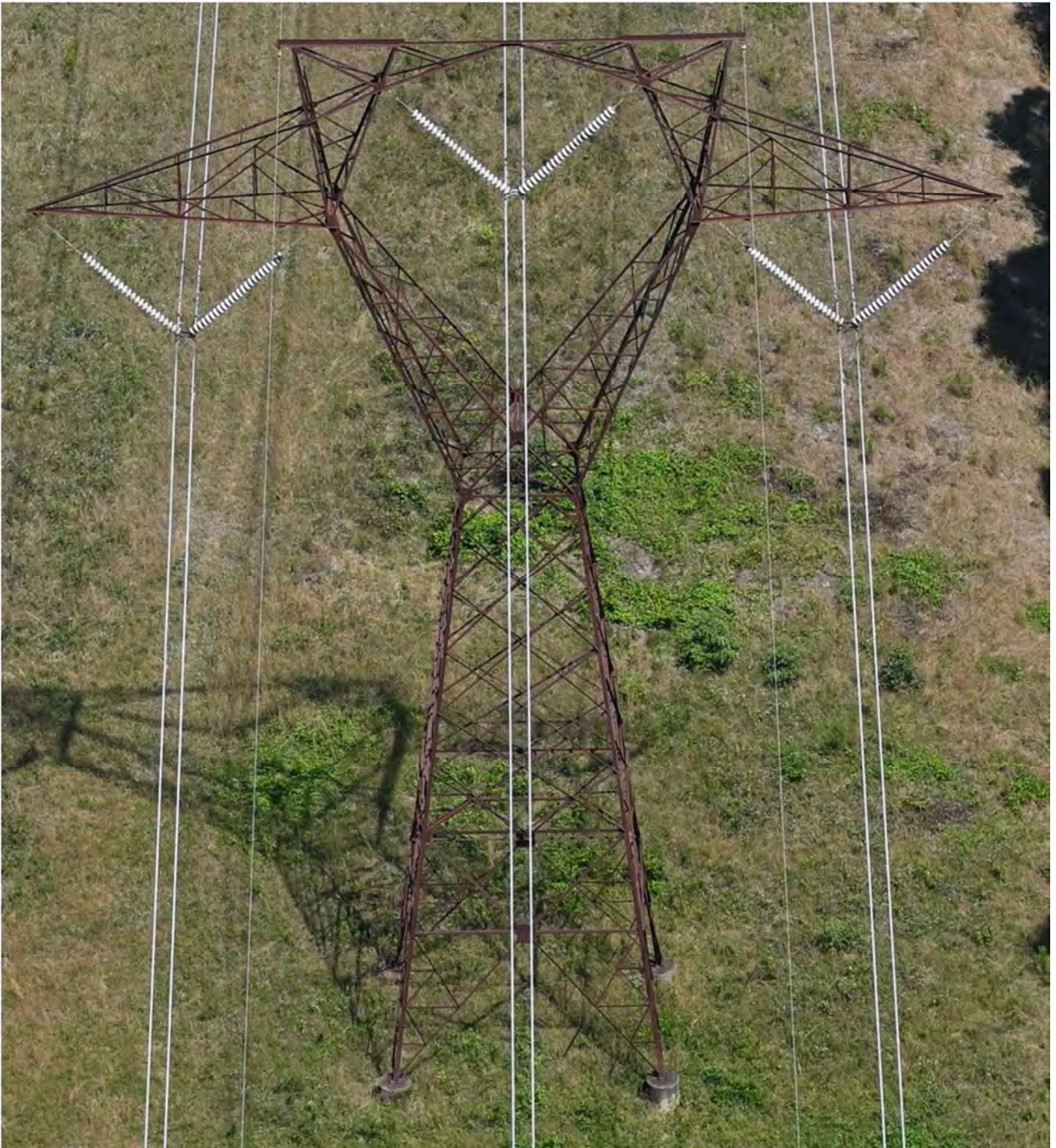
²⁶ Attachment II.B.6.b.viii is a drawing of the proposed structures for the Double Circuit Segment rather than a representative photograph. Note that the 5/2 structure being proposed for the Double Circuit Segment is a non-standard structure type not currently on the Company's system and is being proposed due to the narrow width of the right-of-way. For additional visual representations of these structures, see Attachment III.B.3, viewpoints 12-15.

²⁷ The representative photos are of the Company's existing Loudoun-Meadow Brook Line #535, and the existing Doubs-Goose Creek Line #514.

VDHR #	Resource Name	OP	Comments
046-0026	Four Square (Historic/Current), Foursquare Farm (Historic)	Viewpoint 3	All project components remain behind and beneath vegetation and screened from view
046-5210	Long Nancy Tynes House (Historic/Current)	Viewpoint 4	One structure that is already visible above the treeline rises higher above the treeline and seen in conjunction with other structures
046-0002	Bateman House, 13060 Courthouse Hwy (Rt 258) (Historic/Location), Butler House (Historic), Robert Tynes House (NRHP Listing), Tynes Plantation (Historic)	Viewpoint 5	All project components remain behind and beneath vegetation and screened from view
046-5239	Brock Store and Farm (Historic), Oliver Store and Farm (Historic/Current)	Viewpoint 6	Multiple structures that are already visible above treeline rise higher above the treeline and seen in conjunction with other structures
046-5696	House, 18505 Spivey Lane (Function/Location), The Spivey Farm (Current Name)	Viewpoint 7	One structure that is already visible above treeline rises higher above treeline and portions of two additional structures become visible
133-0695	Bickham Farm (Historic), Brown Farm (Historic), Letlone (Historic), Percy-Pitt Farm (Historic), Phillips Farm (Historic/Current)	Viewpoint 8	All project components remain behind and beneath vegetation and screened from view
133-0576	Godwin-Knight House (NRHP Listing), Governor Mills E. Godwin, Jr., House (Historic), House, 140 King's Highway (Function/Location)	Viewpoint 9	All project components remain behind and beneath vegetation and screened from view
133-0692	Chuckatuck Historic District (NRHP Listing)	Viewpoint 9	All project components remain behind and beneath vegetation and screened from view
133-5001	Dumpling Island Archaeological Site (Historic)	N/A	Not accessible

VDHR #	Resource Name	OP	Comments
133-5039	Hill's Point Battlefield (Historic/Current), Siege of Suffolk (Current Name), Suffolk II Battlefield (Descriptive)	Viewpoints 9, 10, 11, 13	<p>Viewpoint 9 - All project components remain behind and beneath vegetation and screened from view</p> <p>Viewpoint 10 - All project components remain behind and beneath vegetation and screened from view</p> <p>Viewpoint 11 - All project components remain behind and beneath vegetation and screened from view</p> <p>Viewpoint 13 - All project components remain behind and beneath vegetation and screened from view</p>
133-0025	Mintonville (Current Name), Mintonville Plantation (Historic)	Viewpoint 12	Two structures that are already visible remain visible. One roughly the same height
133-0217	House, 2757 Wilroy Road (Function/Location), Sessoms House (Current), Wilroy House (Historic)	Viewpoint 13	All project components remain behind and beneath vegetation and screened from view
131-6322	Great Dismal Swamp National Wildlife Refuge, Virginia Portion (Descriptive)	N/A	Not accessible
131-5325	Sunray Agricultural Historic District (NRHP Listing), Sunray Agricultural Rural Historic District (Historic), Sunray Village (Historic)	Viewpoints 14, 15	<p>Viewpoint 14 – One structure that is already visible remains so although behind a treeline</p> <p>Viewpoint 15 – All project components remain behind and beneath vegetation and screened from view</p>
131-5833	Portsmouth Ditch (Historic)	Viewpoint 16	All project components remain behind and beneath vegetation and screened from view.

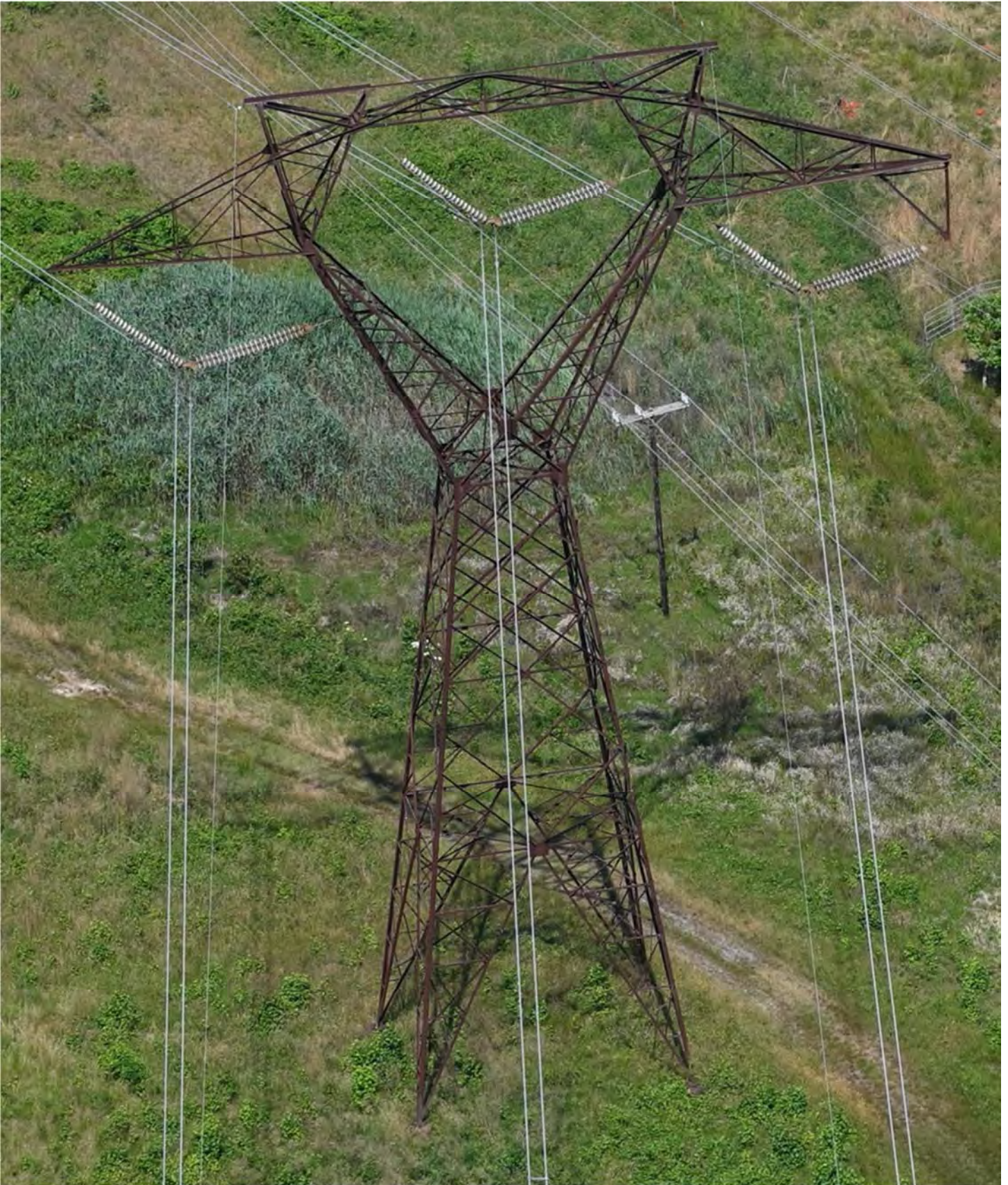
See [Attachment III.B.3](#) for visual simulations of other key locations evaluated.



Photograph provided by Dominion Energy



Existing Structure Type:
500 kV Single Circuit Weathering Steel Suspension Tower
Attachment II.B.6.a.i



Photograph provided by Dominion Energy



Existing Structure Type:
500 kV Single Circuit Weathering Steel Running Angle Tower
Attachment II.B.6.a.ii



Photograph provided by Dominion Energy



Existing Structure Type:
500 kV Single Circuit Weathering Steel Deadend Tower

Attachment II.B.6.a.iii



Photograph provided by Dominion Energy



Existing Structure Type:
500 kV Single Circuit Weathering Steel Suspension H-frame
Attachment II.B.6.a.iv



Photograph provided by Dominion Energy



Existing Structure Type:
500/230 kV Double Circuit Weathering Steel Suspension Tower
Attachment II.B.6.a.v



Photograph provided by Dominion Energy



Existing Structure Type:
500/230 kV Double Circuit Weathering Steel Running Angle Tower
Attachment II.B.6.a.vi



Photograph provided by Dominion Energy



Existing Structure Type:
500/230 kV Double Circuit Weathering Steel Deadend 3-Pole
Attachment II.B.6.a.vii

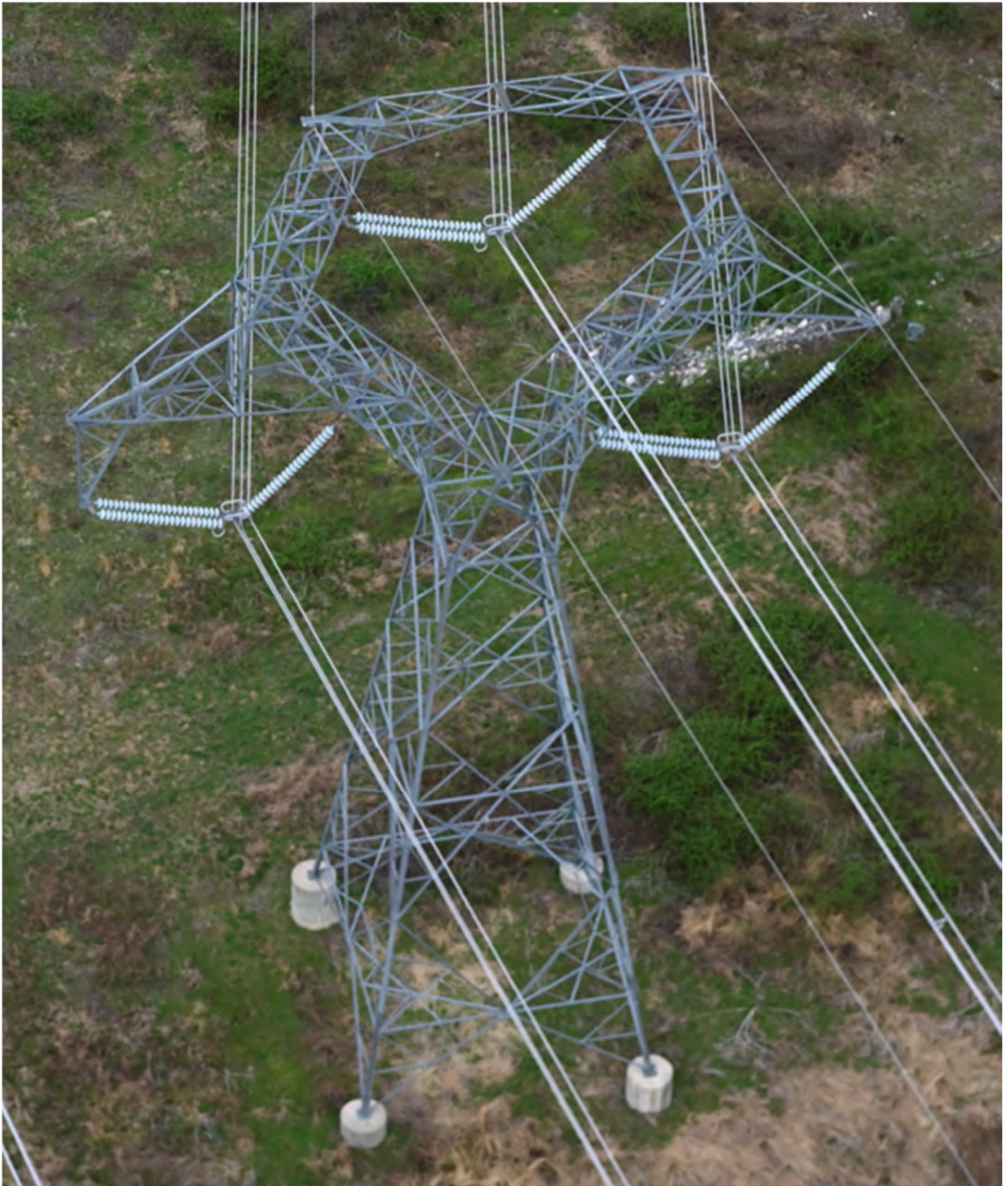


Photograph provided by Dominion Energy



Proposed Structure Type:
500 kV Single Circuit Galvanized Steel Suspension Tower

Attachment II.B.6.b.i



Photograph provided by Dominion Energy



Proposed Structure Type:
500 kV Single Circuit Galvanized Steel Running Angle Tower
Attachment II.B.6.b.ii



Photograph provided by Dominion Energy



Proposed Structure Type:
500 kV Single Circuit Galvanized Steel Deadend Tower

Attachment II.B.6.b.iii



Photograph provided by Dominion Energy



Proposed Structure Type:
500 kV Single Circuit Galvanized Steel Suspension H-frame

Attachment II.B.6.b.iv



Photograph provided by Dominion Energy



Proposed Structure Type:
500 kV Single Circuit Galvanized Steel Deadend H-frame
Attachment II.B.6.b.v



Photograph provided by Dominion Energy



Proposed Structure Type:
500 kV Single Circuit Galvanized Steel Deadend 3-Pole

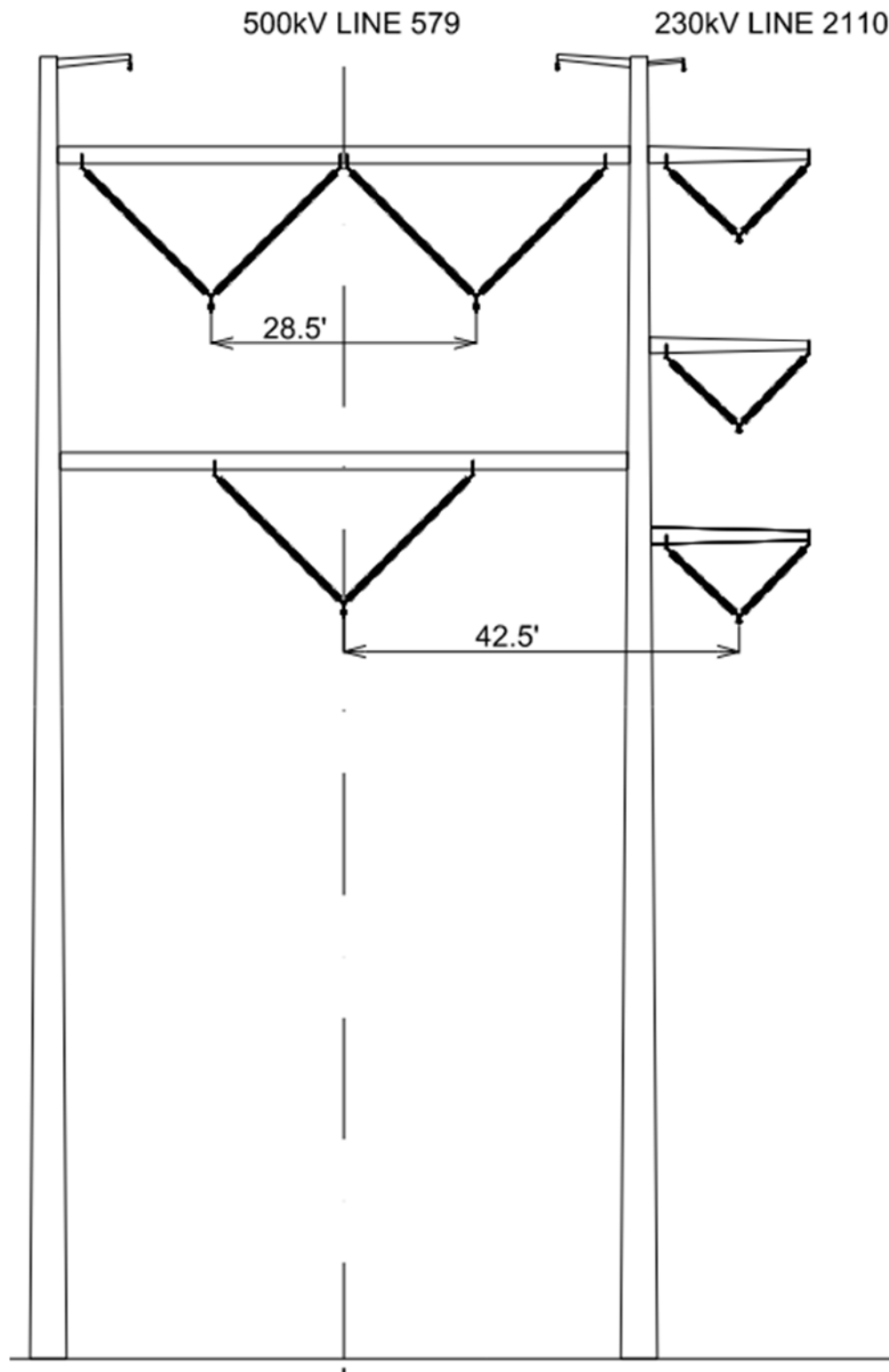
Attachment II.B.6.b.vi



Photograph provided by Dominion Energy



Proposed Structure Type:
500/230 kV Double Circuit Galvanized Steel Deadend 3-Pole
Attachment II.B.6.b.vii



Note: The proposed double circuit H-frame structure type has not been constructed yet such that no pictures are available. Refer to attachments II.A.5 and II.B.6.c for additional visual representation.

Photograph provided by Dominion Energy



Proposed Structure Type:
500/230 kV Double Circuit Galvanized Steel H-Frame
 Attachment II.B.6.b.viii

ATTACHMENT II.B.6.C
HISTORIC PHOTO LOCATION MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

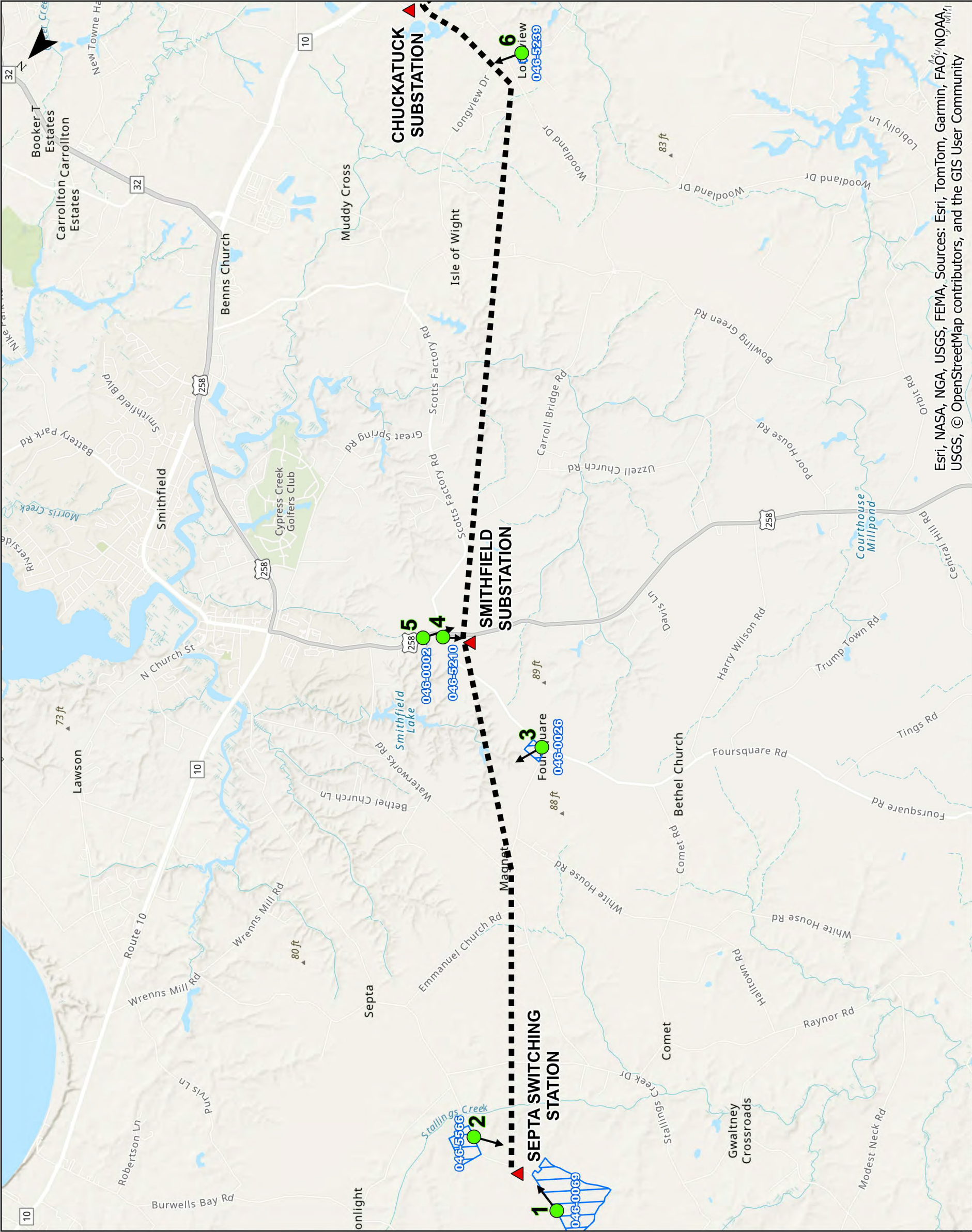
City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client:		
Dominion Energy Virginia		
C2 Env Project:	Prepared By:	Date:
0265	KAS	5/1/2025

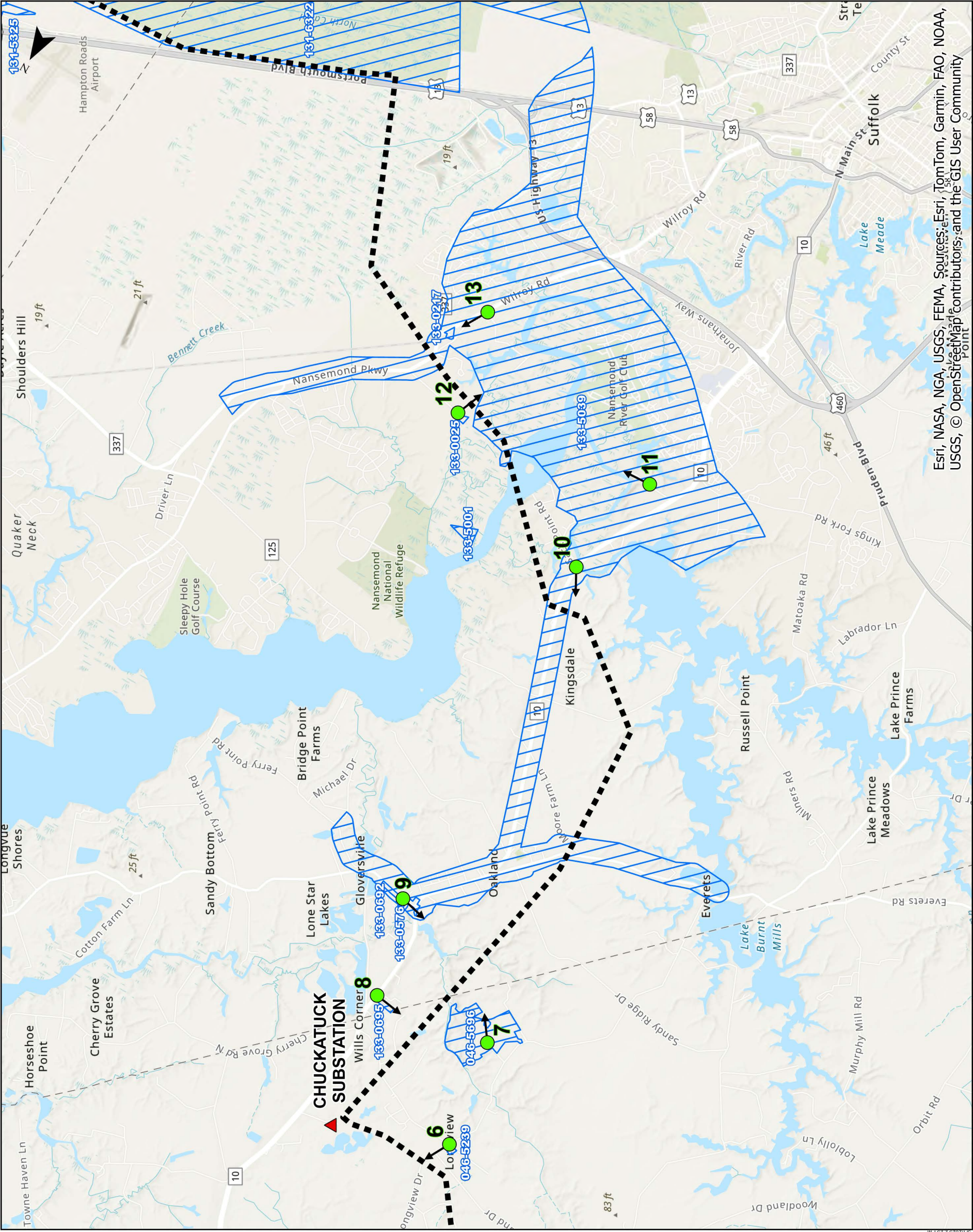


- Proposed Route
- Existing Substation/Switching Station
- Viewpoint Location
- Approximate Simulation Direction
- Considered Historic Property

Notes:
1. Basemap from ESRI World Street View
2. Substation locations provided by Dominion Energy
3. Simulation locations and historic properties provided by Dutton + Associates



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



ATTACHMENT II.B.6.C
HISTORIC PHOTO LOCATION MAP

Septa - Yarkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client:	Dominion Energy Virginia		
C2 Env Project:	Prepared By:	Date:	
0265	KAS	5/1/2025	

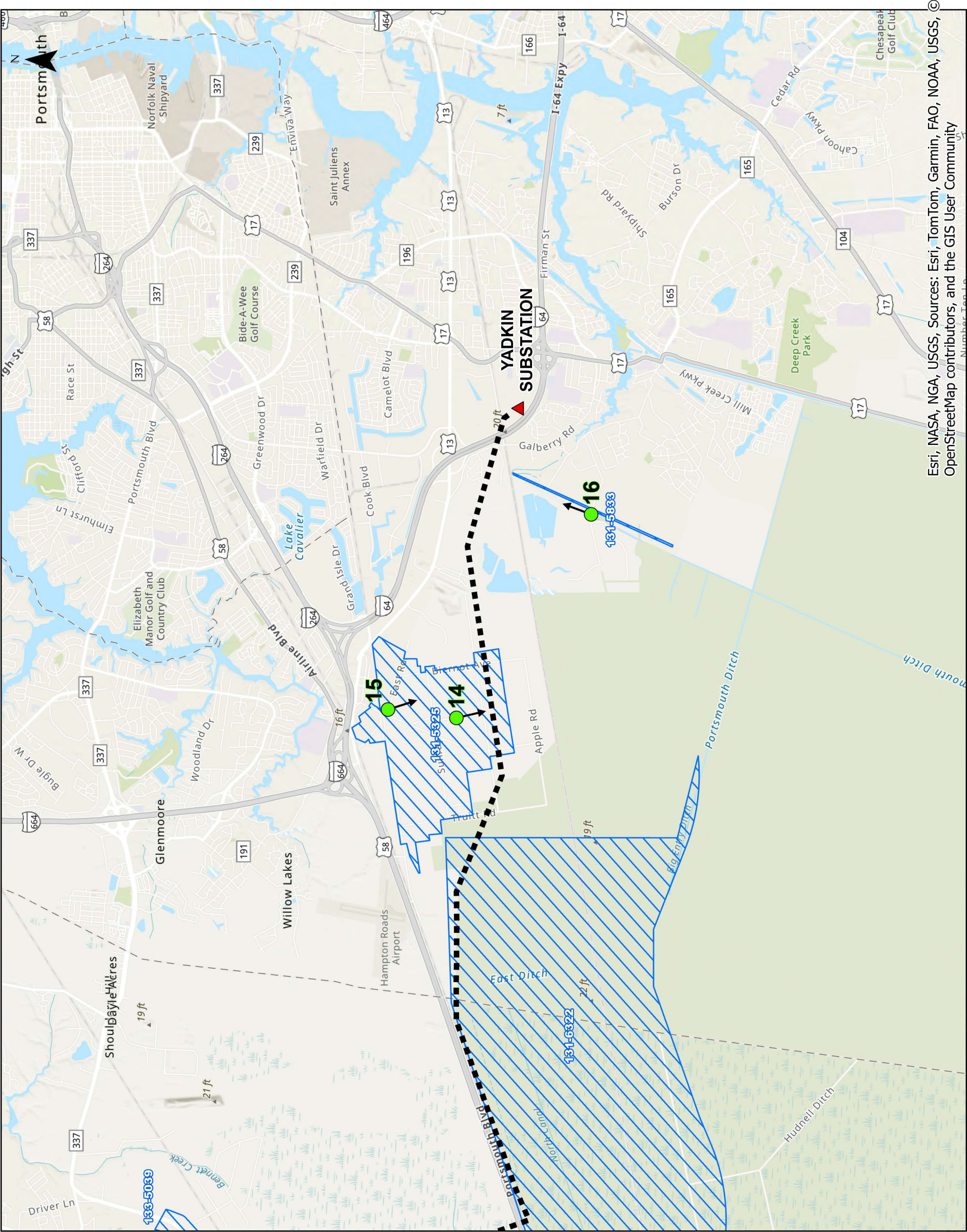


- Proposed Route
- Existing Substation/Switching Station
- Viewpoint Location
- Approximate Simulation Direction
- Considered Historic Property

Notes:
1. Basemap from ESRI World Street View
2. Substation locations provided by Dominion Energy
3. Simulation locations and historic properties provided by Dutton + Associates



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



ATTACHMENT II.B.6.C
HISTORIC PHOTO LOCATION MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0265
Prepared By: KAS
Date: 5/1/2025

00.512 Miles

Scale is 1 IN = 1 MI when printed at original size of 11x17

■ Proposed Route

▲ Existing Substation/Switching Station

● Viewpoint Location

➔ Approximate Simulation Direction

▨ Considered Historic Property

Notes:

1. Basemap from ESRI World Street View

2. Substation locations provided by Dominion Energy

3. Simulation locations and historic properties provided by Dutton + Associates

APPROXIMATE
PROJECT LOCATION

NorfolkVirginia Beach

Dominion
Energy

ENVIRONMENTAL

SHEET 3 OF 3

Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, ©
OpenStreetMap contributors, and the GIS User Community



Dominion

Septa-Yadkin

VS1

VIEW FROM MILL SWAMP RD

EXISTING CONDITION

ISLE OF WIGHT COUNTY, VA

Timmons Group





Dominion

Septa-Yadkin

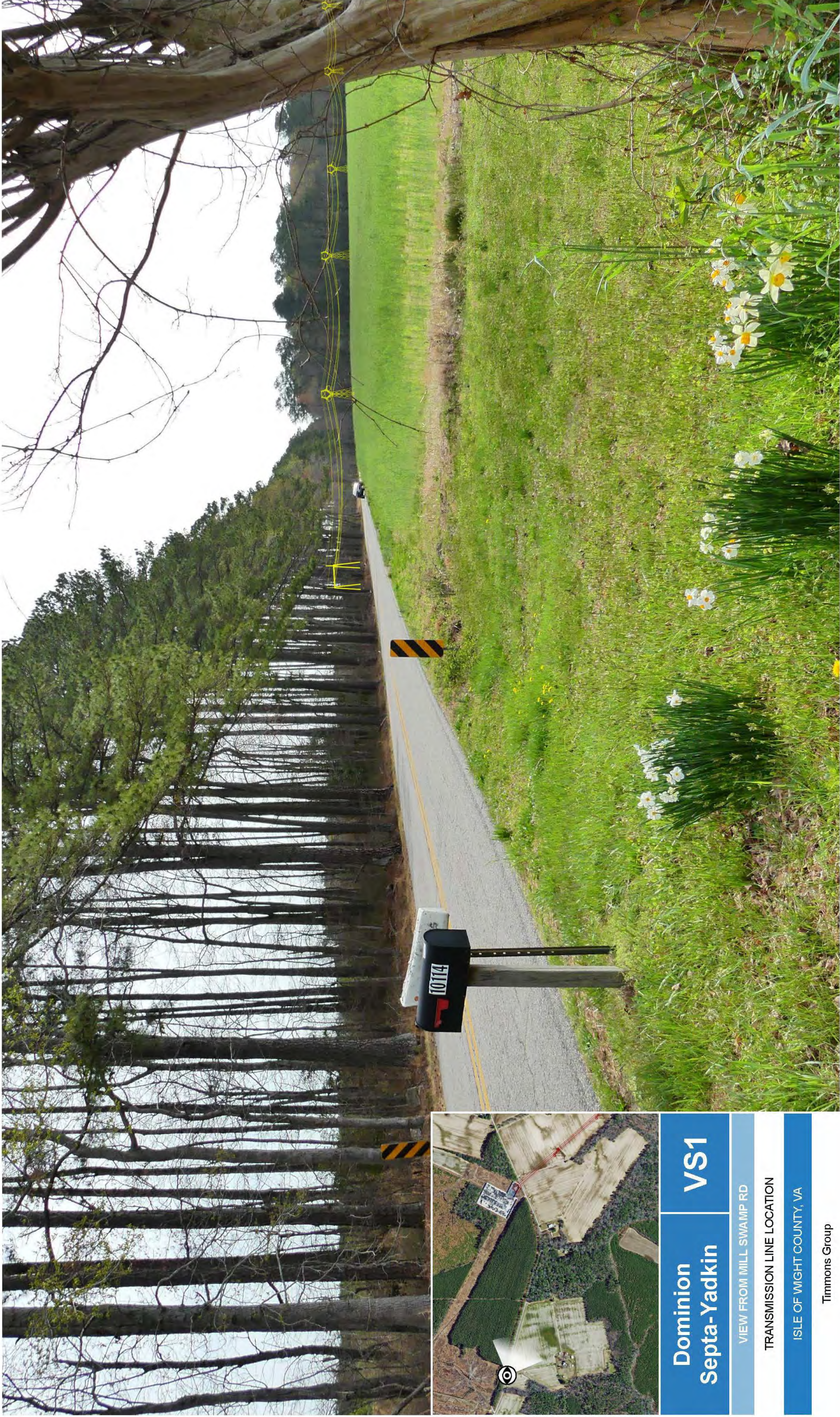
VS1

VIEW FROM MILL SWAMP RD

TRANSMISSION LINE LOCATION

ISLE OF WIGHT COUNTY, VA

Timmons Group

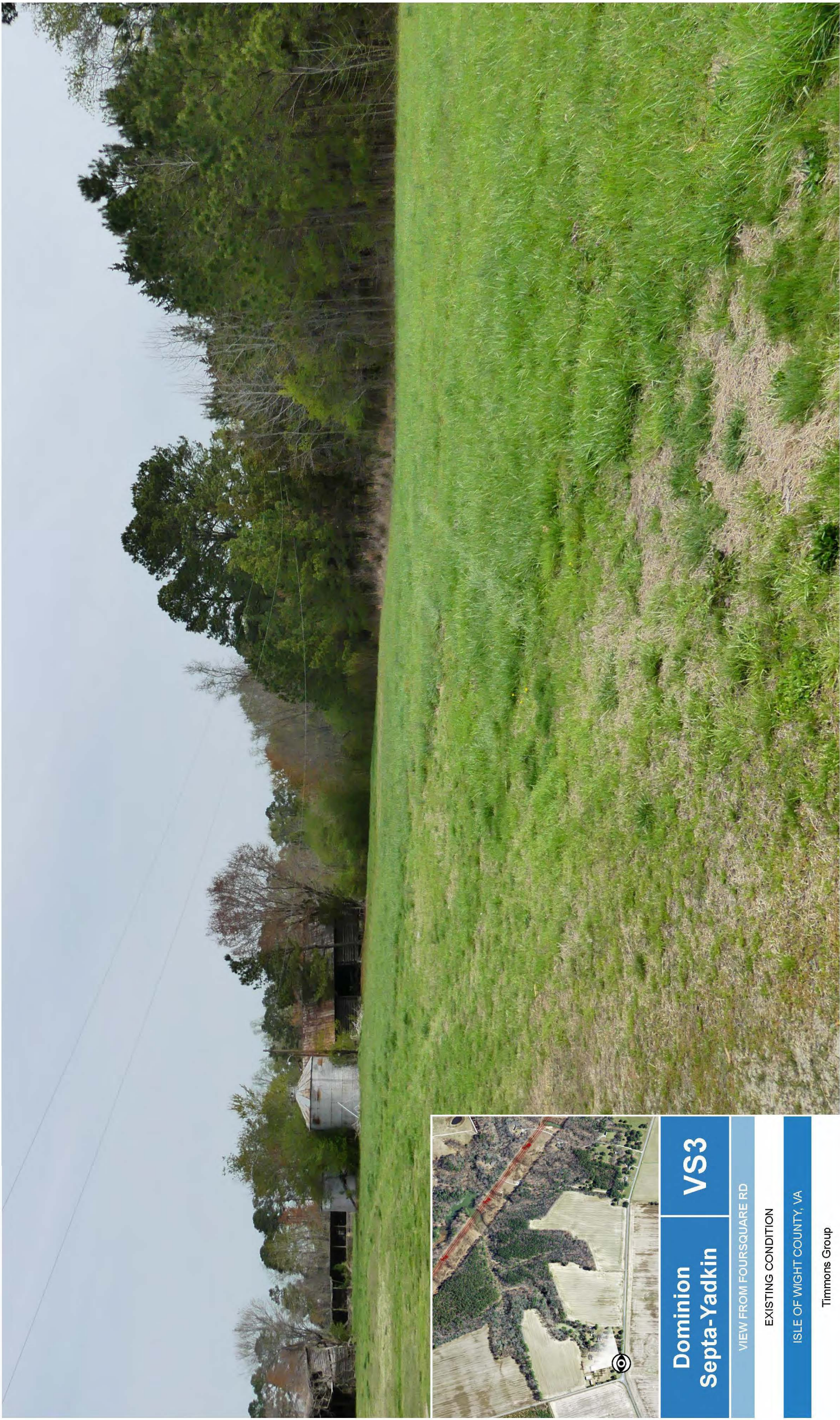




Dominion Septa-Yadkin	VS2
VIEW FROM MILL SWAMP RD	
EXISTING CONDITION	
ISLE OF WIGHT COUNTY, VA	

Timmons Group





Dominion Septa-Yadkin

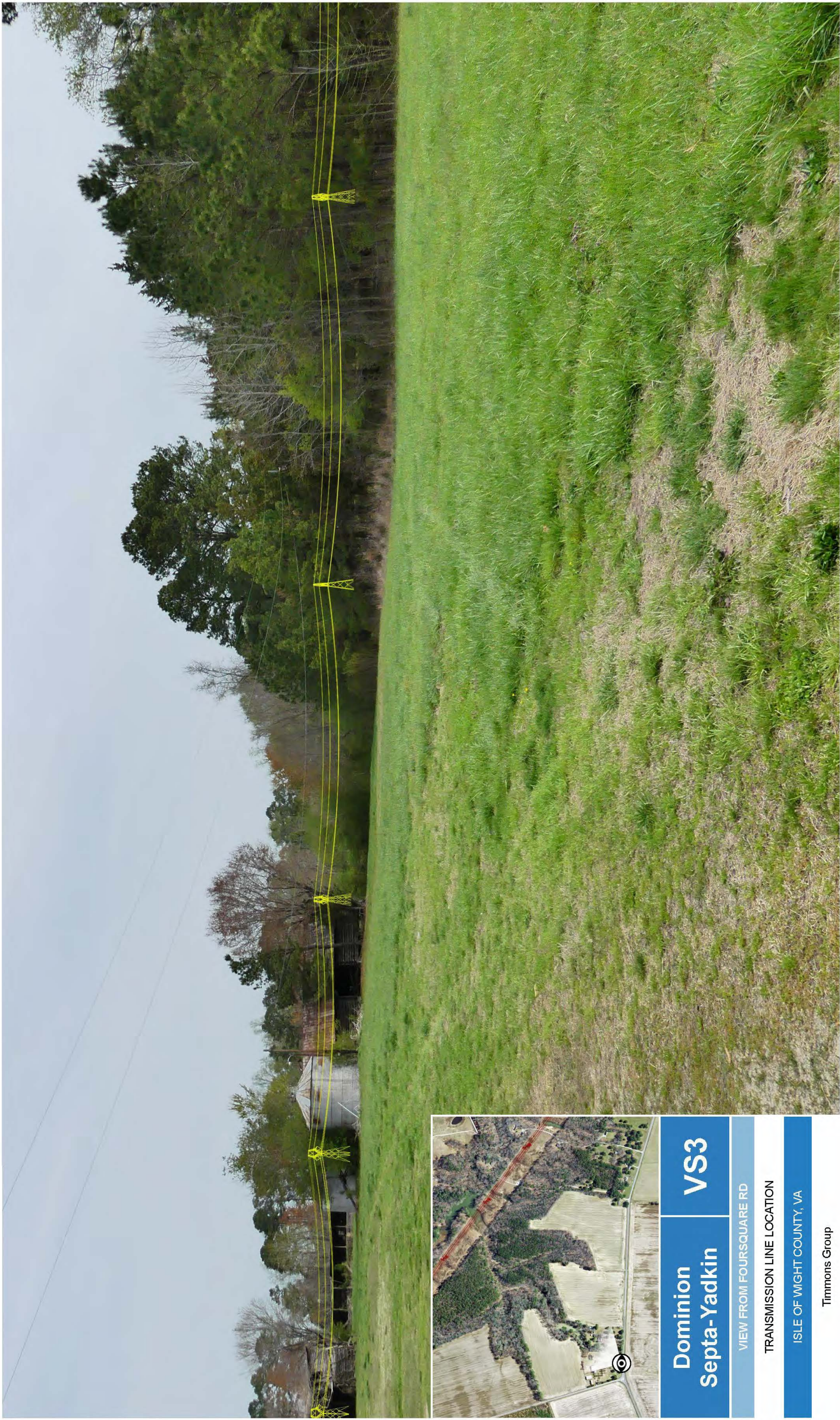
VS3

VIEW FROM FOURSQUARE RD

EXISTING CONDITION

ISLE OF WIGHT COUNTY, VA

Timmons Group



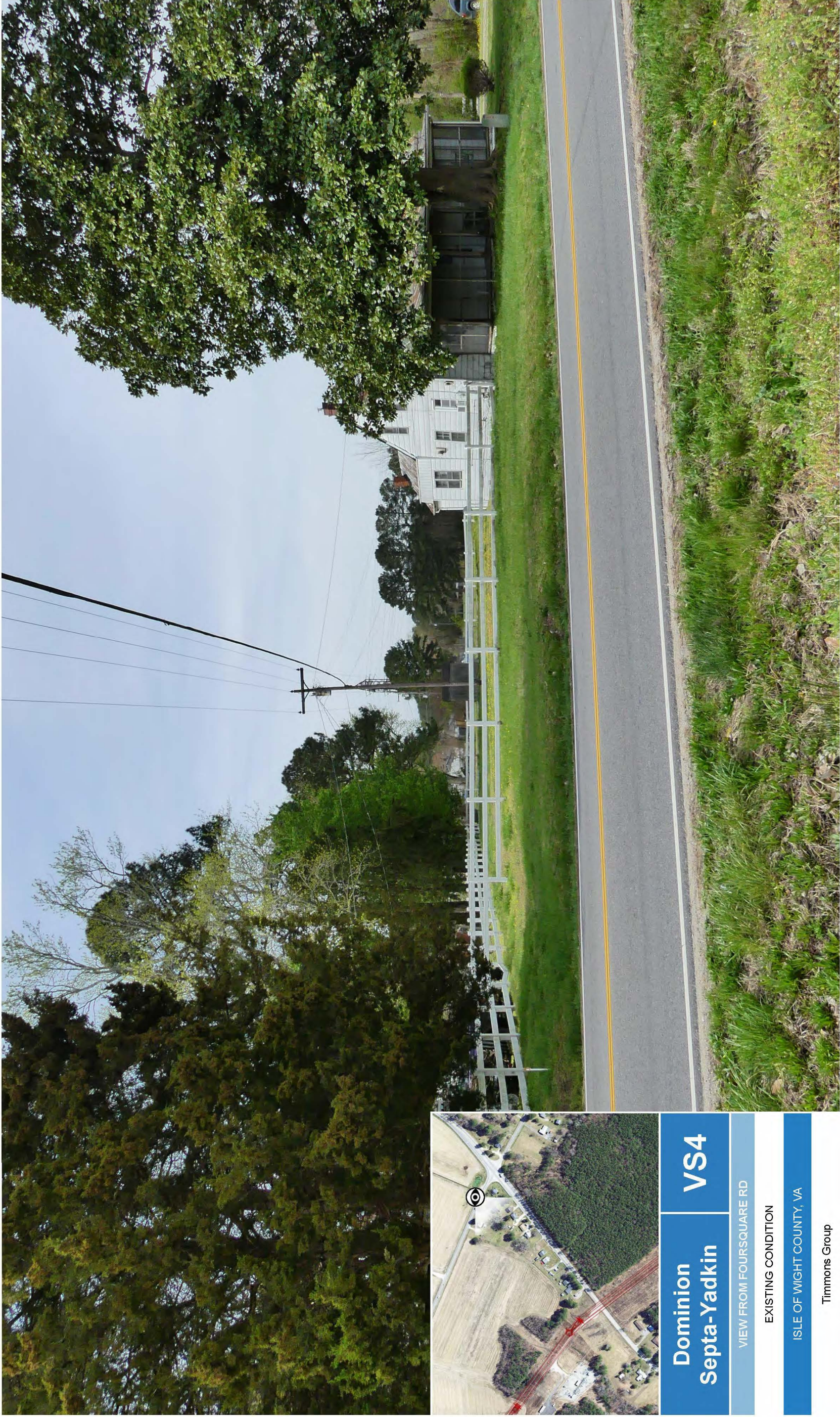
Dominion Septa-Yadkin	VS3
--------------------------	-----

VIEW FROM FOURSQUARE RD

TRANSMISSION LINE LOCATION

ISLE OF WIGHT COUNTY, VA

Timmons Group



Dominion Septa-Yadkin	VS4
VIEW FROM FOURSQUARE RD	
EXISTING CONDITION	
ISLE OF WIGHT COUNTY, VA	

Timmons Group



**Dominion
Septa-Yadkin**

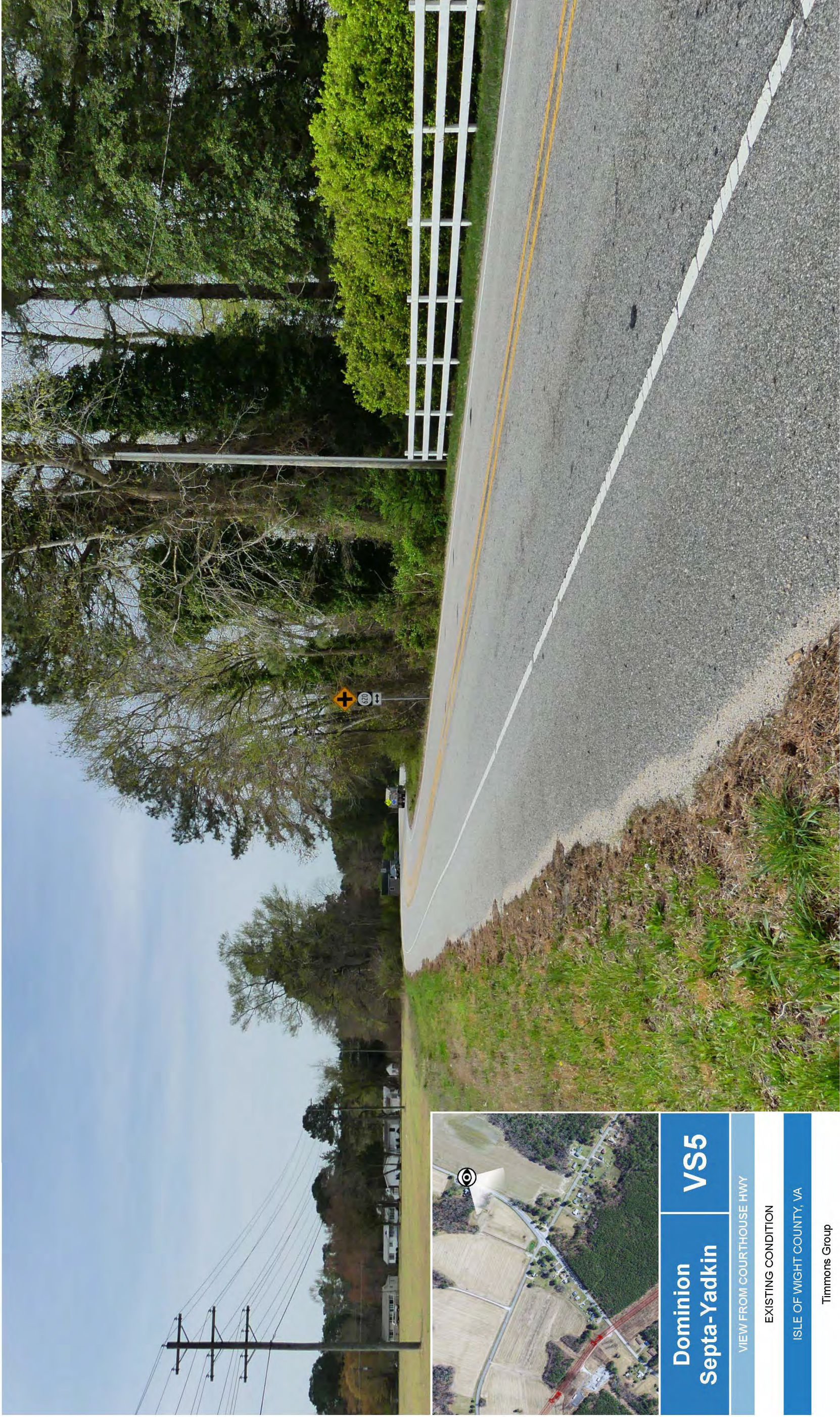
VS4

VIEW FROM FOURSQUARE RD

TRANSMISSION LINE LOCATION

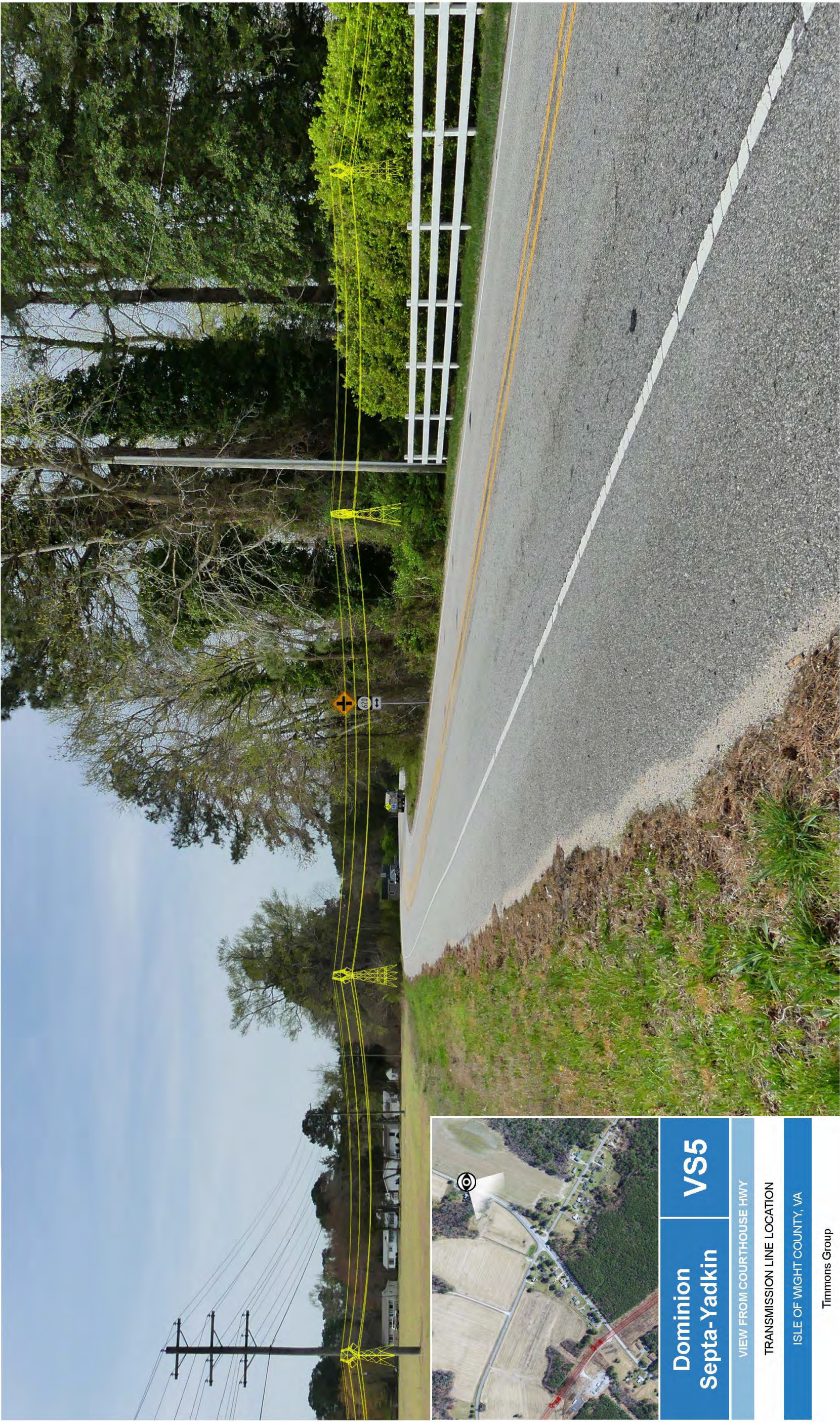
ISLE OF WIGHT COUNTY, VA

Timmons Group



Dominion Septa-Yadkin	VS5
VIEW FROM COURTHOUSE HWY	
EXISTING CONDITION	
ISLE OF WIGHT COUNTY, VA	

Timmons Group





Dominion
Septa-Yadkin

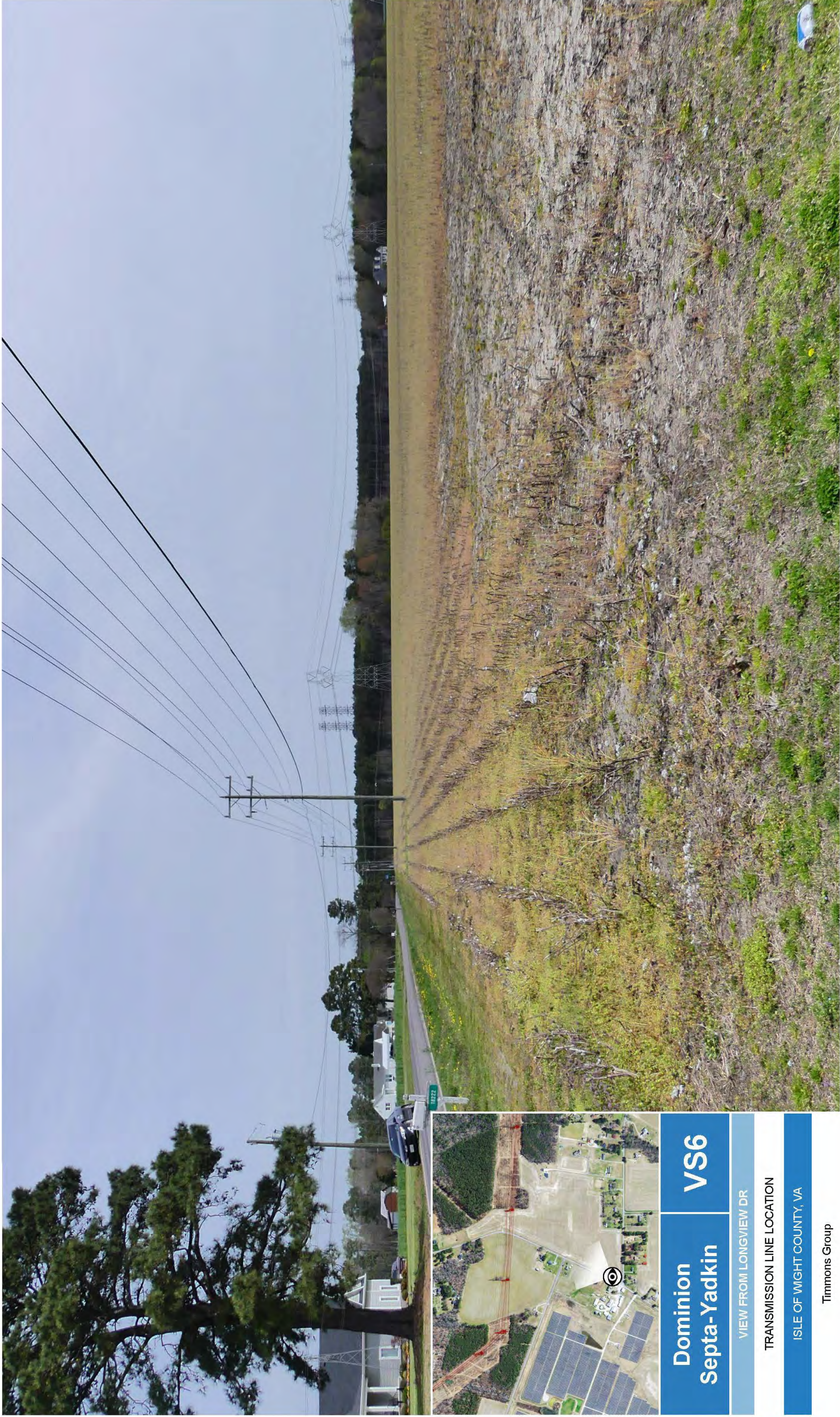
VS6

VIEW FROM LONGVIEW DR

EXISTING CONDITION

ISLE OF WIGHT COUNTY, VA

Timmons Group





Dominion
Septa-Yadkin

VS7

VIEW FROM SPIVEY LN

EXISTING CONDITION

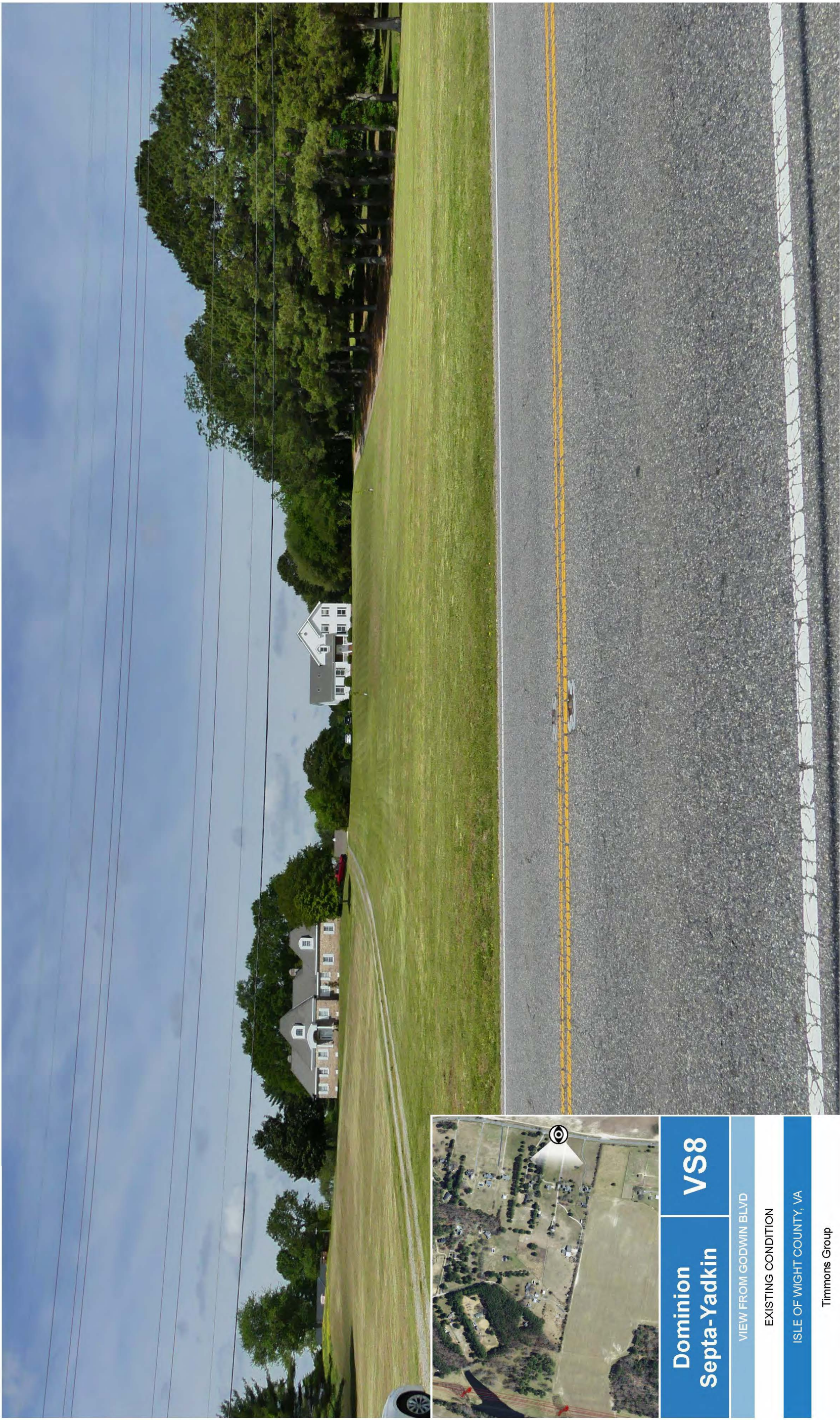
ISLE OF WIGHT COUNTY, VA

Timmons Group

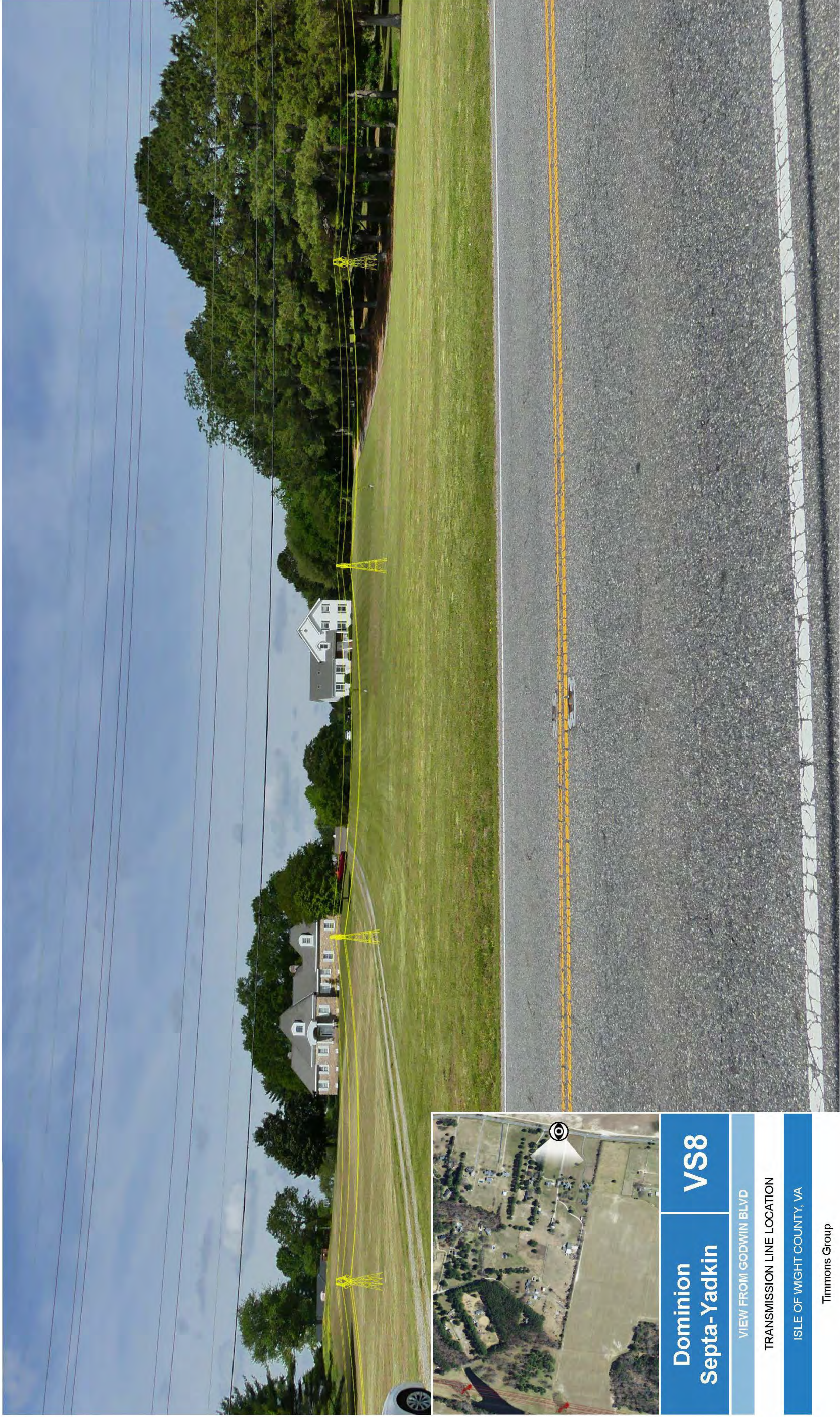


Dominion Septa-Yadkin	VS7
VIEW FROM SPIVEY LN	
TRANSMISSION LINE LOCATION	
ISLE OF WIGHT COUNTY, VA	

Timmons Group



Dominion Septa-Yadkin	VS8
VIEW FROM GODWIN BLVD	
EXISTING CONDITION	
ISLE OF WIGHT COUNTY, VA	



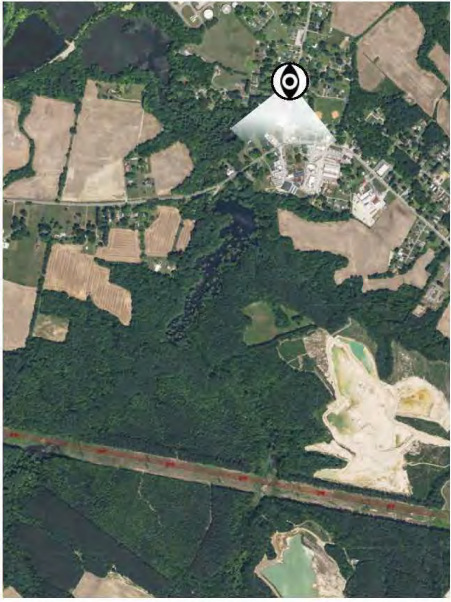
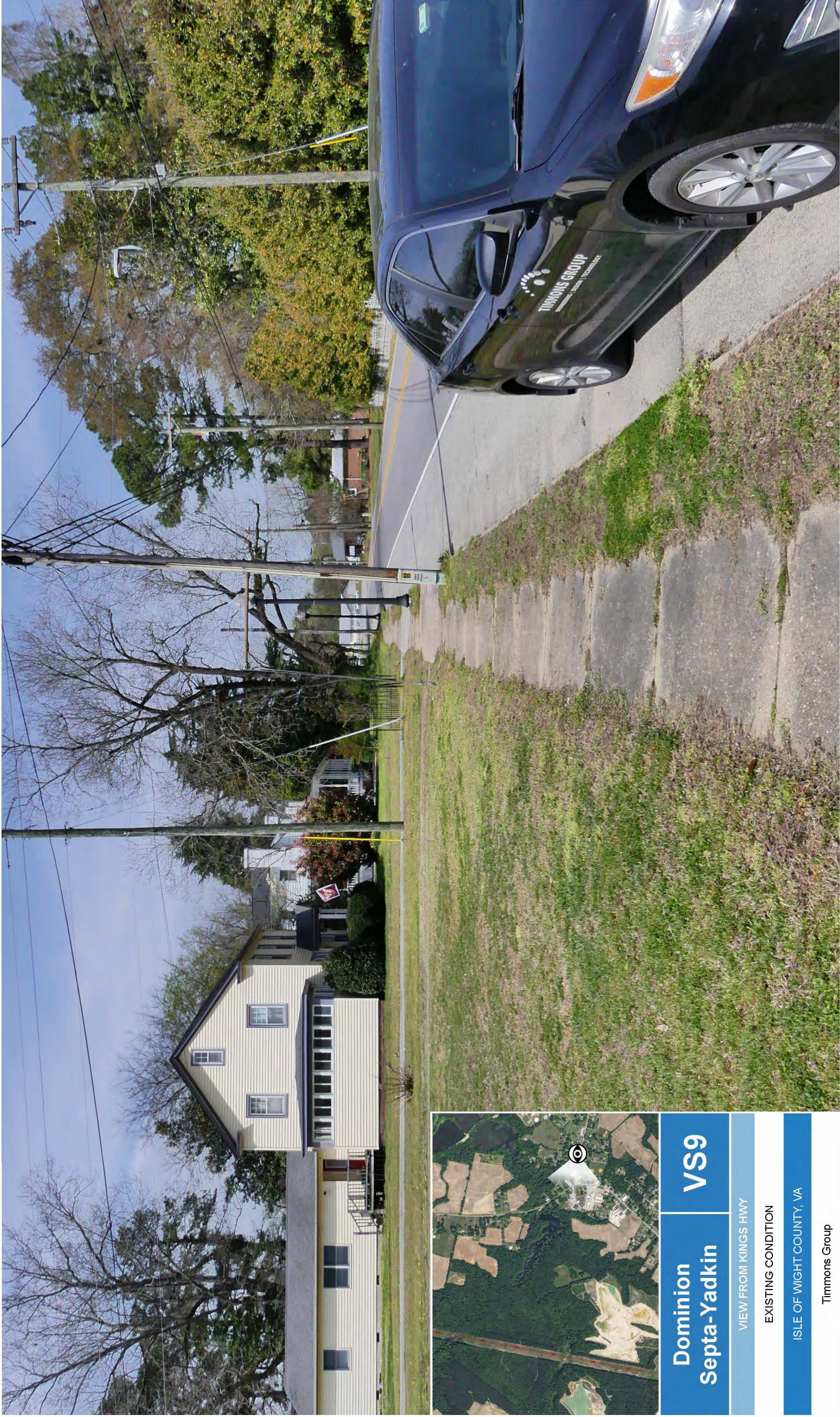
Dominion Septa-Yadkin	VS8
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VIEW FROM GODWIN BLVD

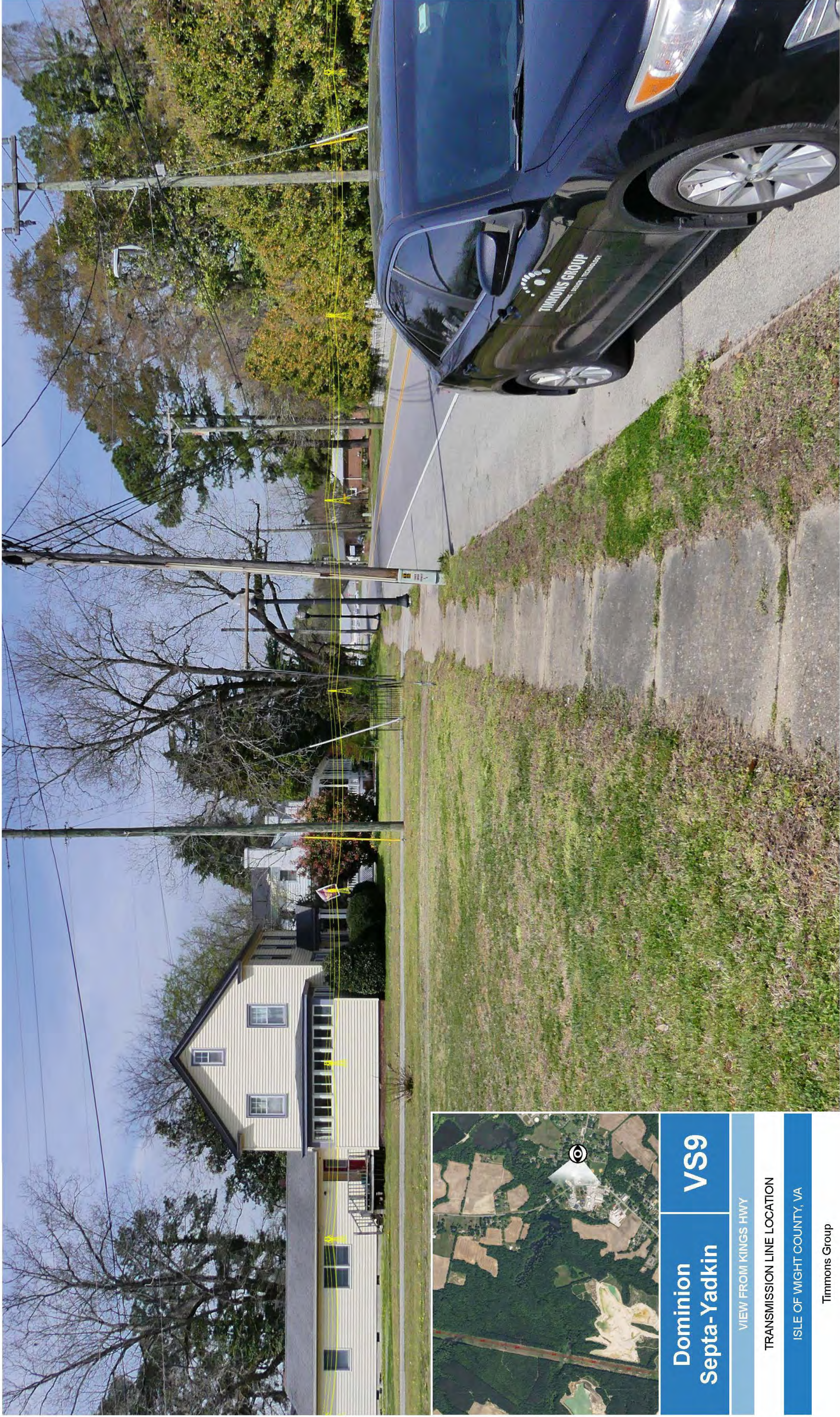
TRANSMISSION LINE LOCATION

ISLE OF WIGHT COUNTY, VA

Timmons Group

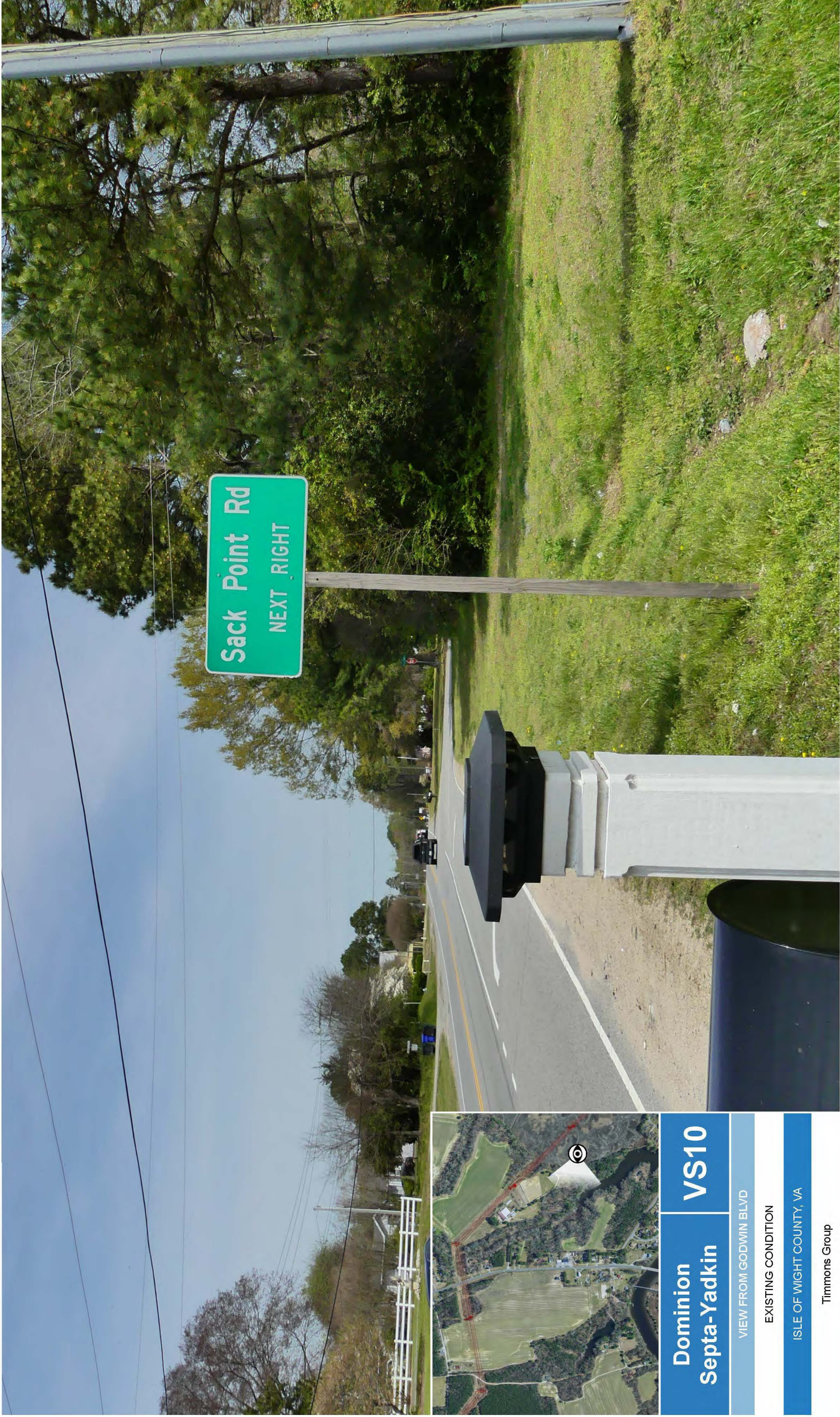


Dominion Septa-Yadkin	VS9
VIEW FROM KINGS HWY	
EXISTING CONDITION	
ISLE OF WIGHT COUNTY, VA	



Dominion Septa-Yadkin		VS9
VIEW FROM KINGS HWY		
TRANSMISSION LINE LOCATION		
ISLE OF WIGHT COUNTY, VA		

Timmons Group



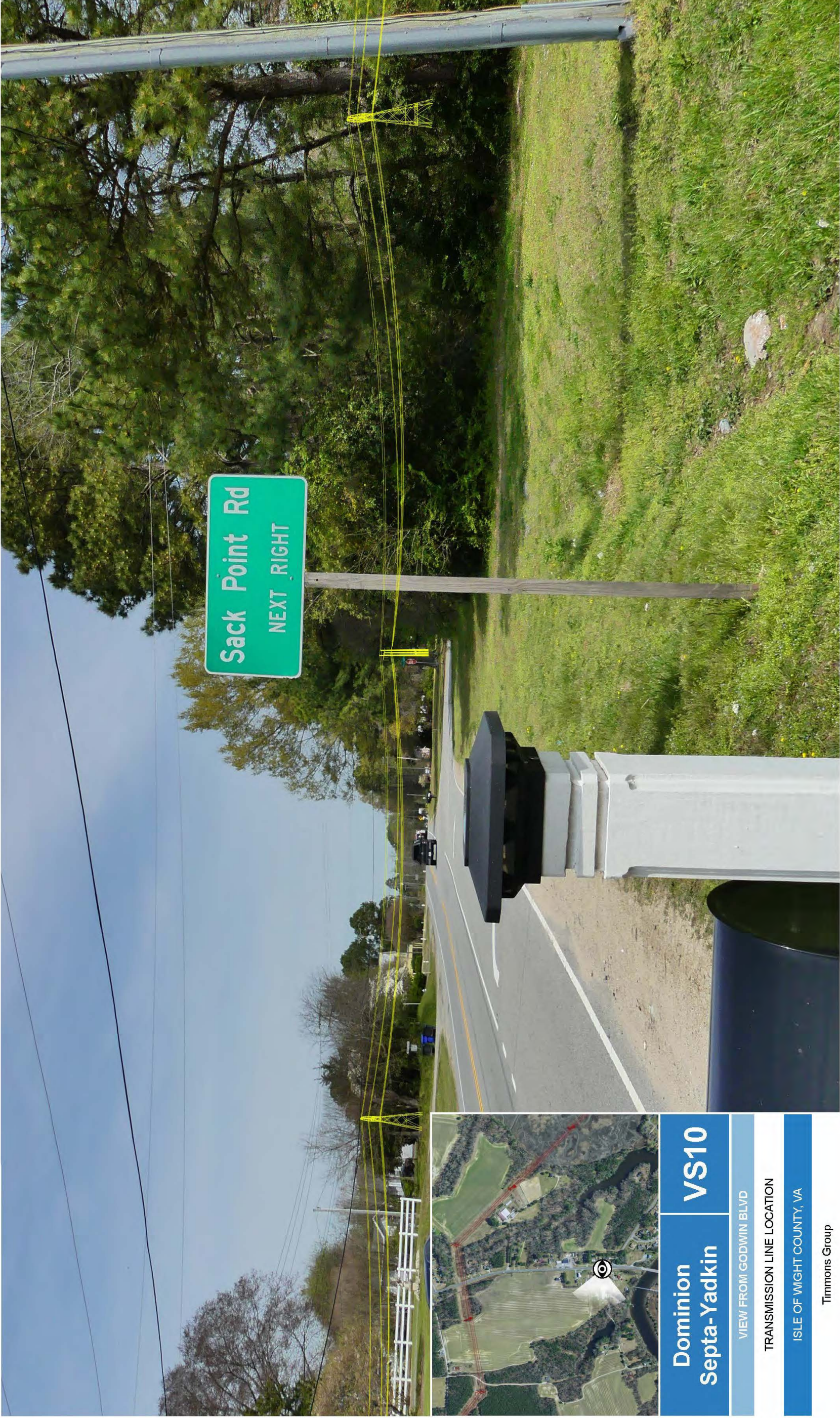
Dominion Septa-Yadkin	VS10
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VIEW FROM GODWIN BLVD	
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EXISTING CONDITION	
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ISLE OF WIGHT COUNTY, VA	
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Timmons Group



Dominion

Septa-Yadkin

VS10

VIEW FROM GODWIN BLVD

TRANSMISSION LINE LOCATION

ISLE OF WIGHT COUNTY, VA

Timmons Group



Dominion Septa-Yadkin	VS11
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VIEW FROM GODWIN BLVD

EXISTING CONDITION

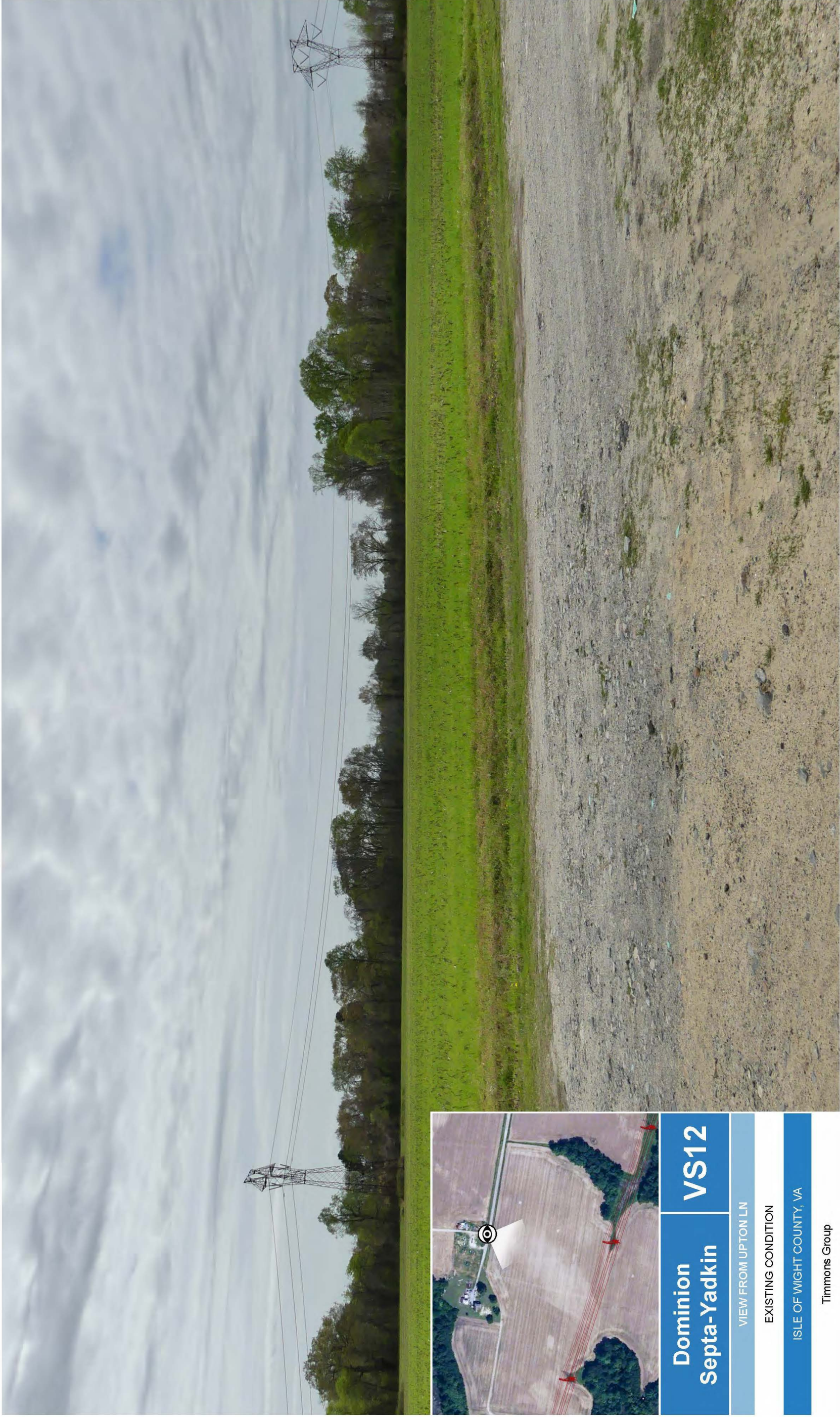
ISLE OF WIGHT COUNTY, VA

Timmons Group



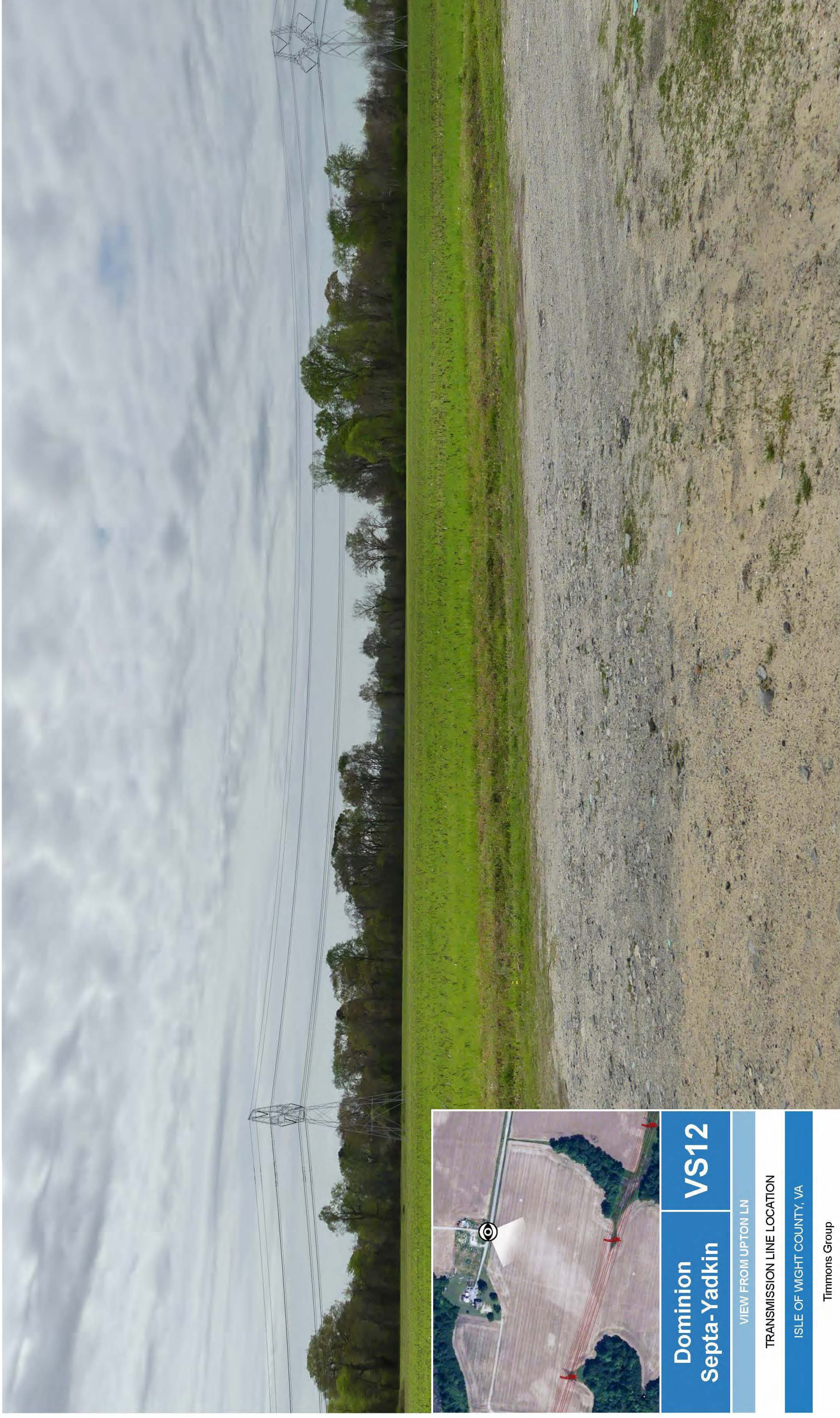
Dominion Septa-Yadkin	VS11
VIEW FROM GODWIN BLVD	
TRANSMISSION LINE LOCATION	
ISLE OF WIGHT COUNTY, VA	

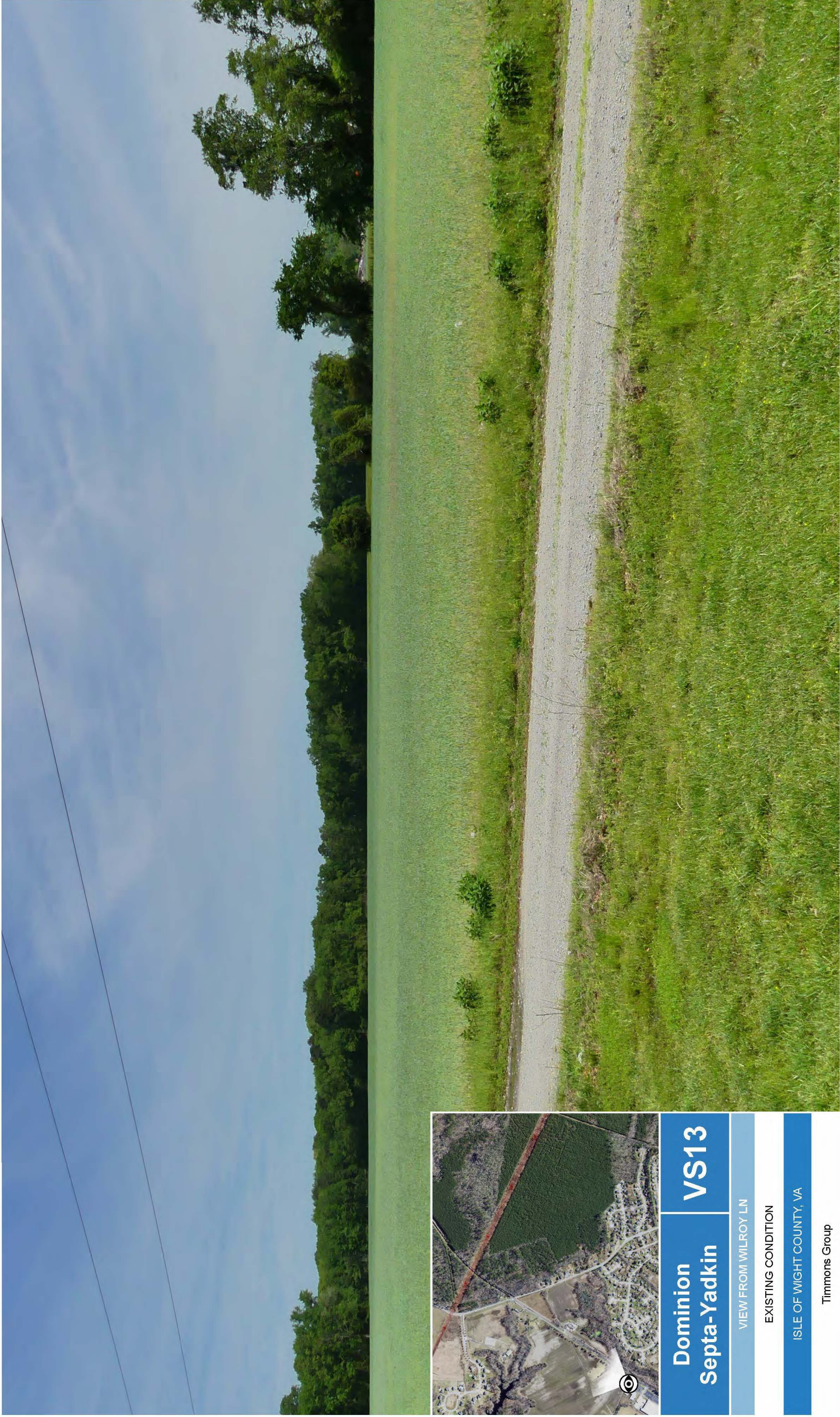
Timmons Group



Dominion Septa-Yadkin	VS12
VIEW FROM UPTON LN	
EXISTING CONDITION	
ISLE OF WIGHT COUNTY, VA	

Timmons Group





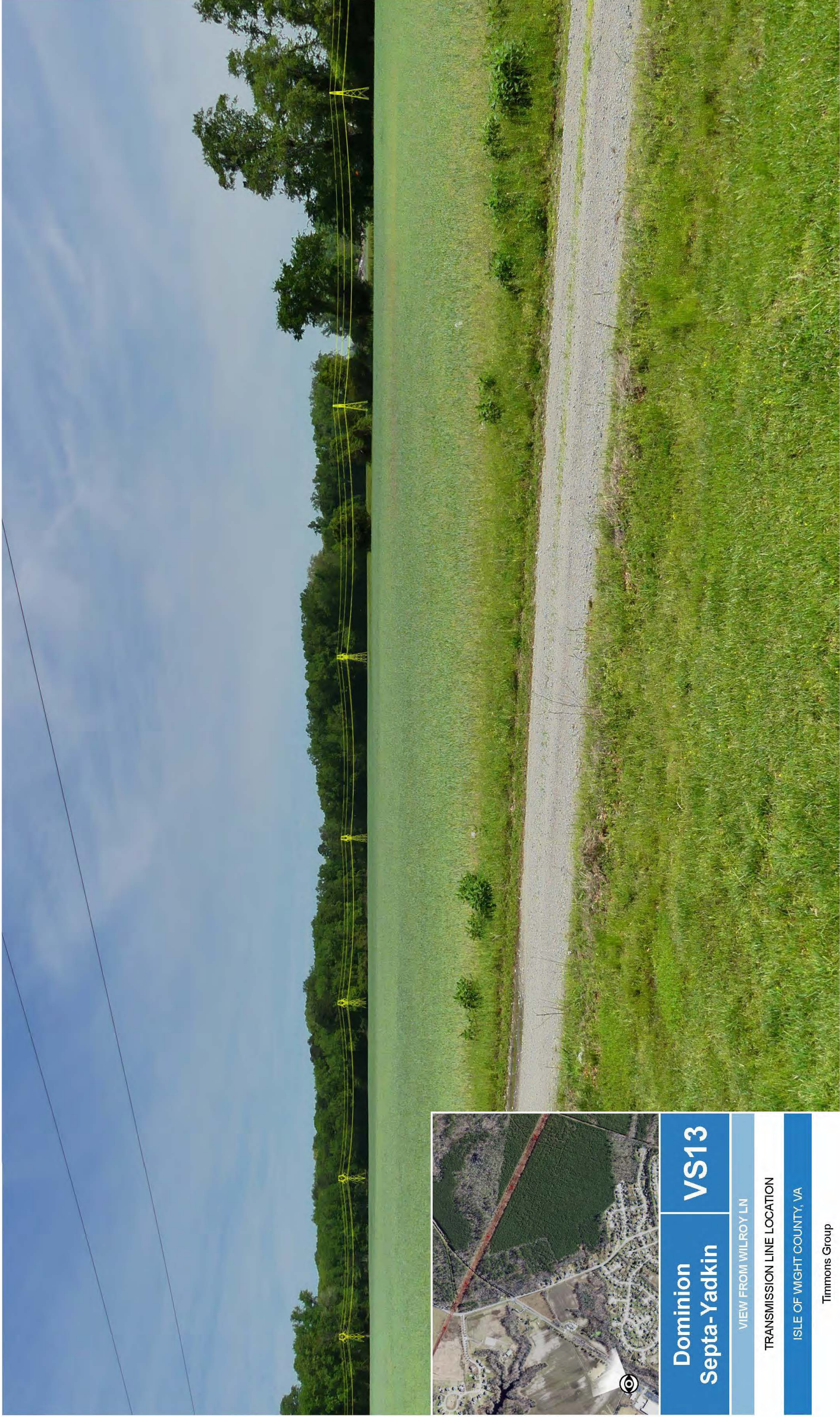
Dominion Septa-Yadkin	VS13
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VIEW FROM WILROY LN

EXISTING CONDITION

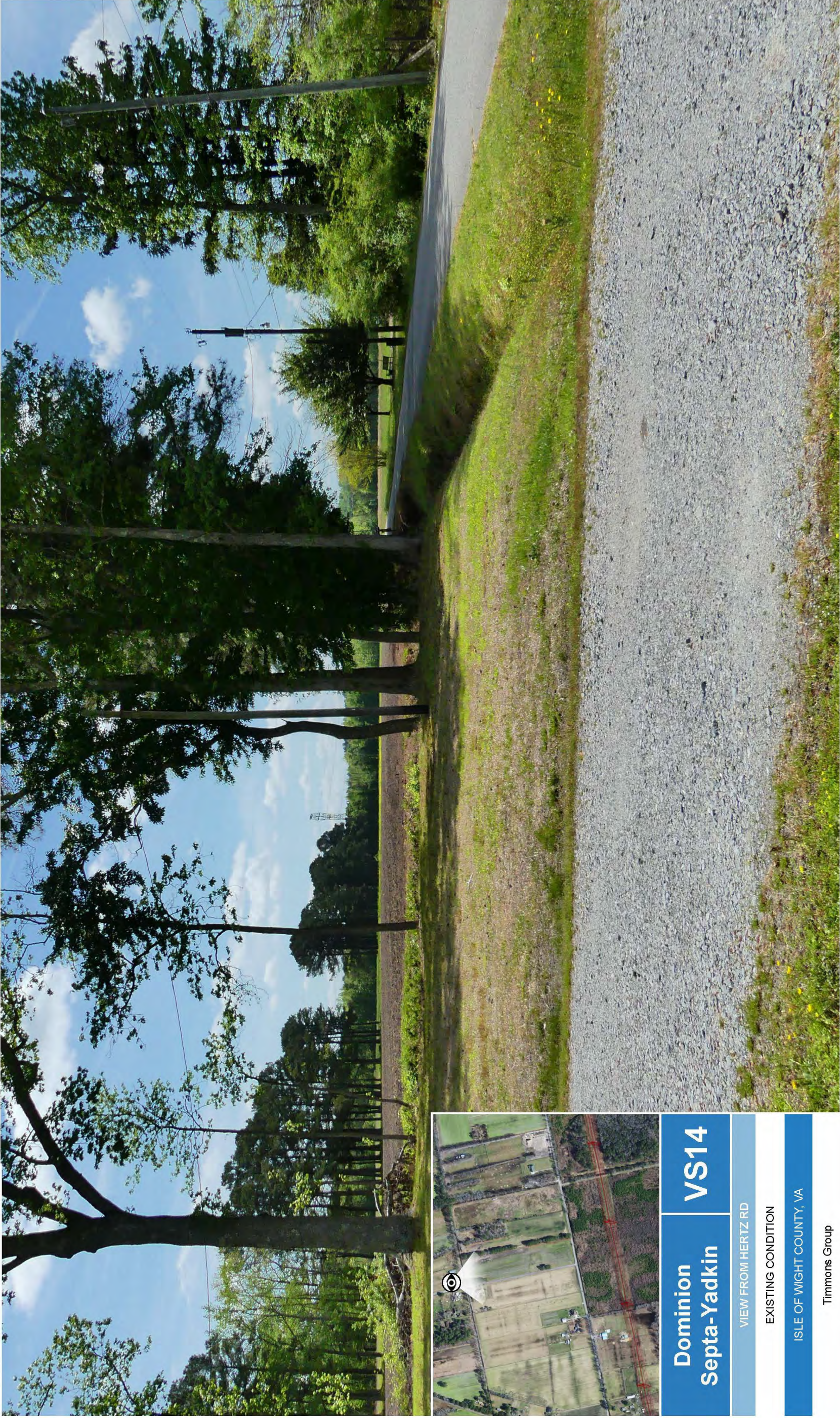
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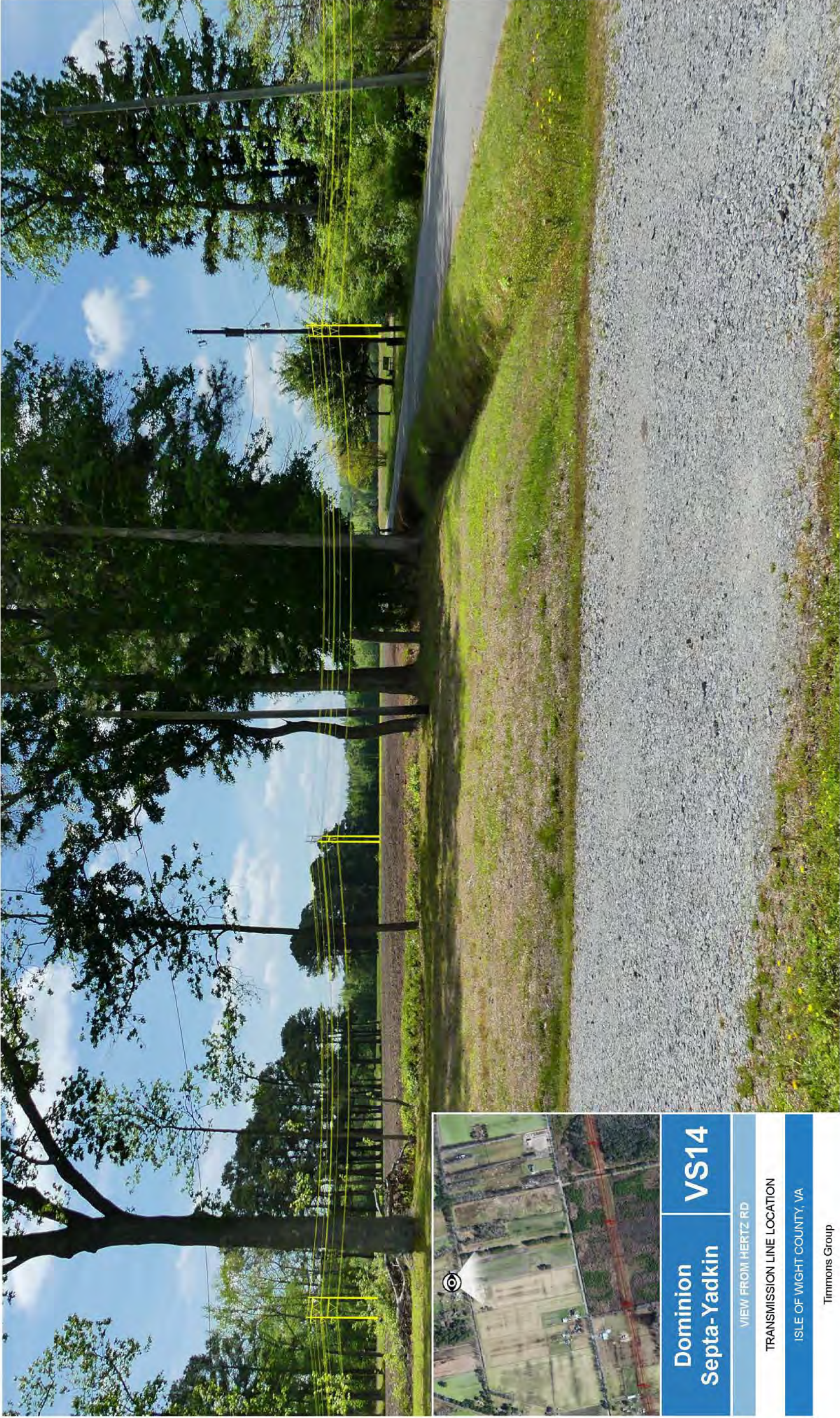
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Dominion Septa-Yadkin	VS13
VIEW FROM WILROY LN	
TRANSMISSION LINE LOCATION	
ISLE OF WIGHT COUNTY, VA	

Timmons Group





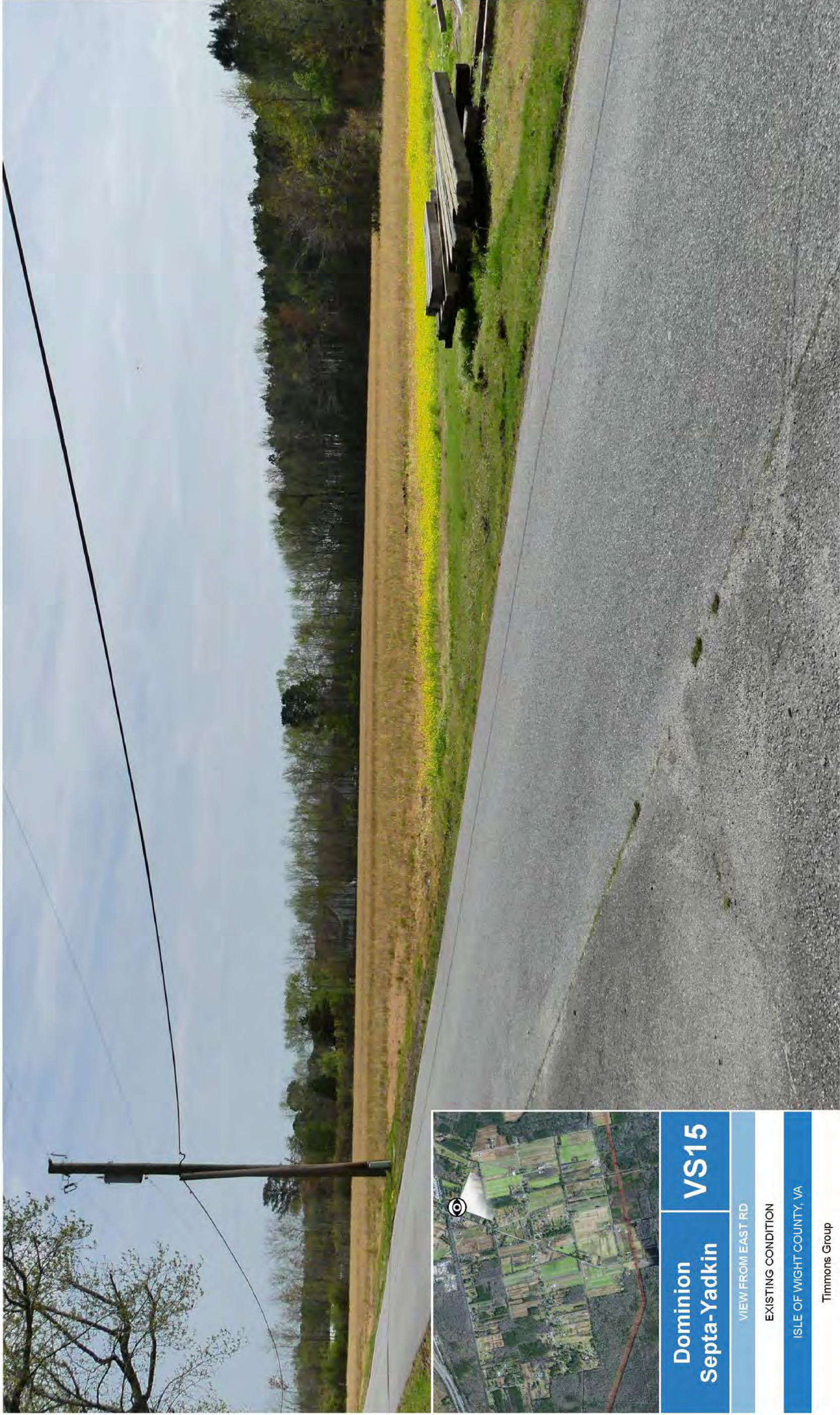
Dominion Septa-Yadkin	VS14
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VIEW FROM HERTZ RD

TRANSMISSION LINE LOCATION

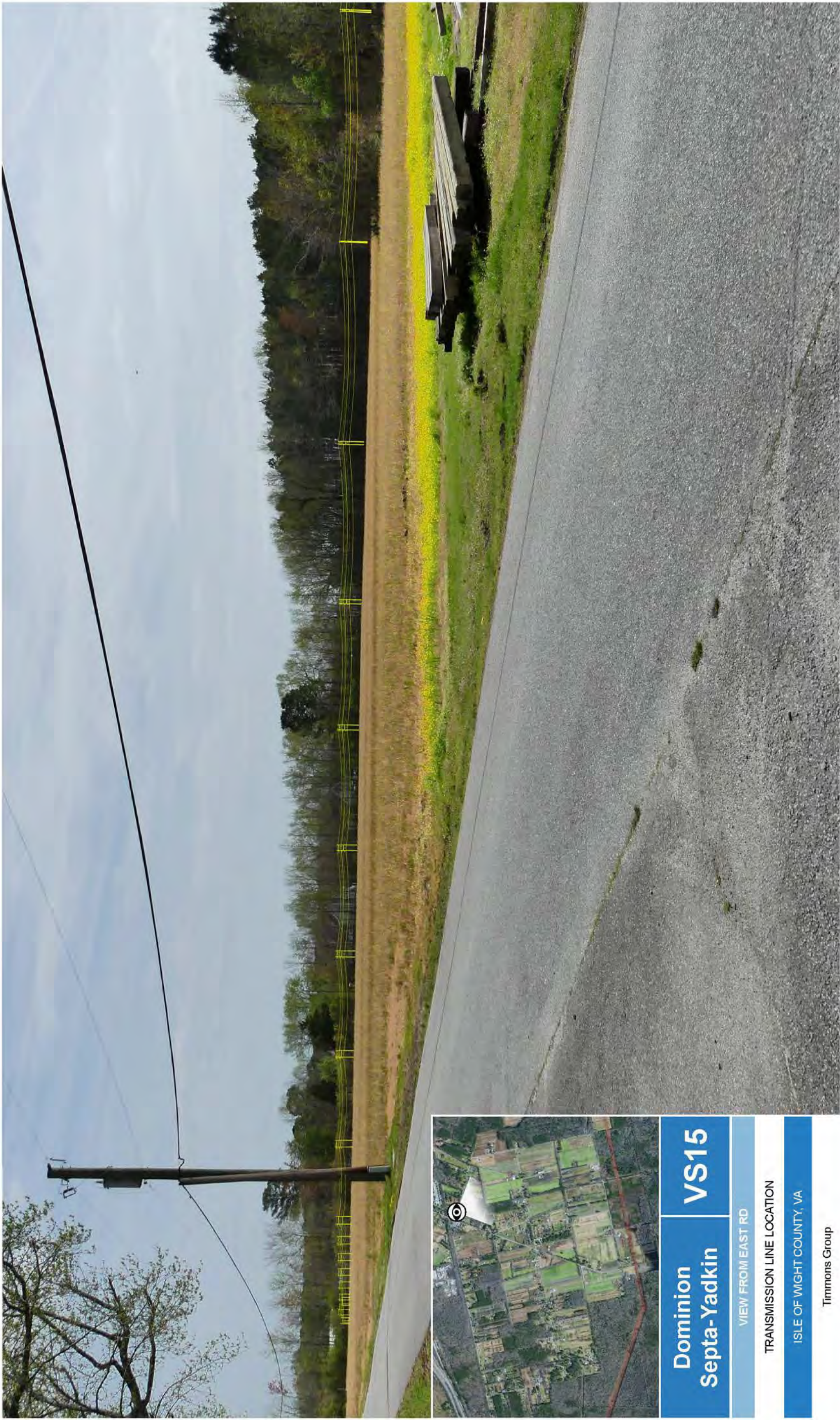
ISLE OF WIGHT COUNTY, VA

Timmons Group



Dominion Septa-Yadkin	VS15
VIEW FROM EAST RD	
EXISTING CONDITION	
ISLE OF WIGHT COUNTY, VA	

Timmons Group



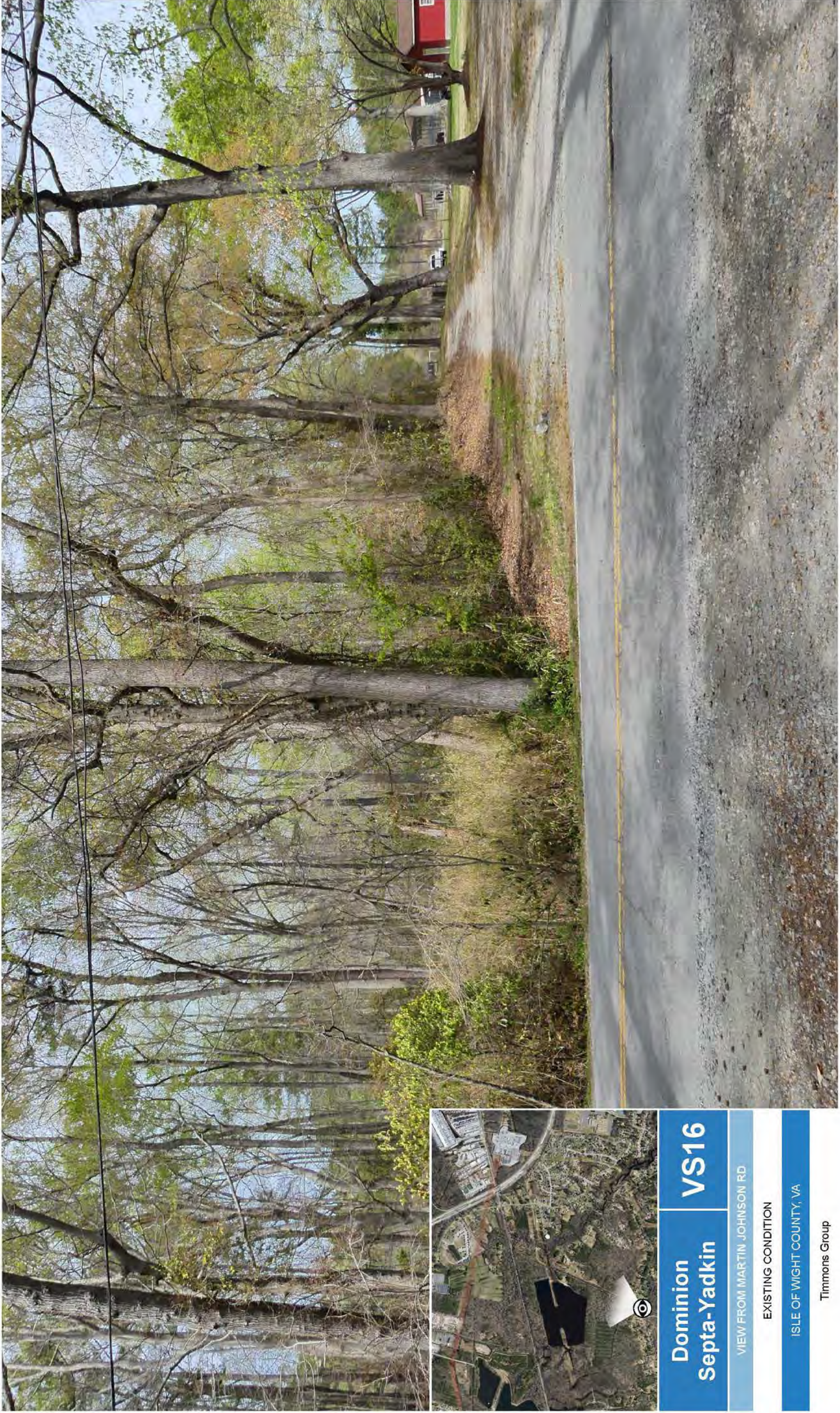
Dominion Septa-Yadkin	VS15
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VIEW FROM EAST RD

TRANSMISSION LINE LOCATION

ISLE OF WIGHT COUNTY, VA

Timmons Group



Dominion
Septa-Yadkin

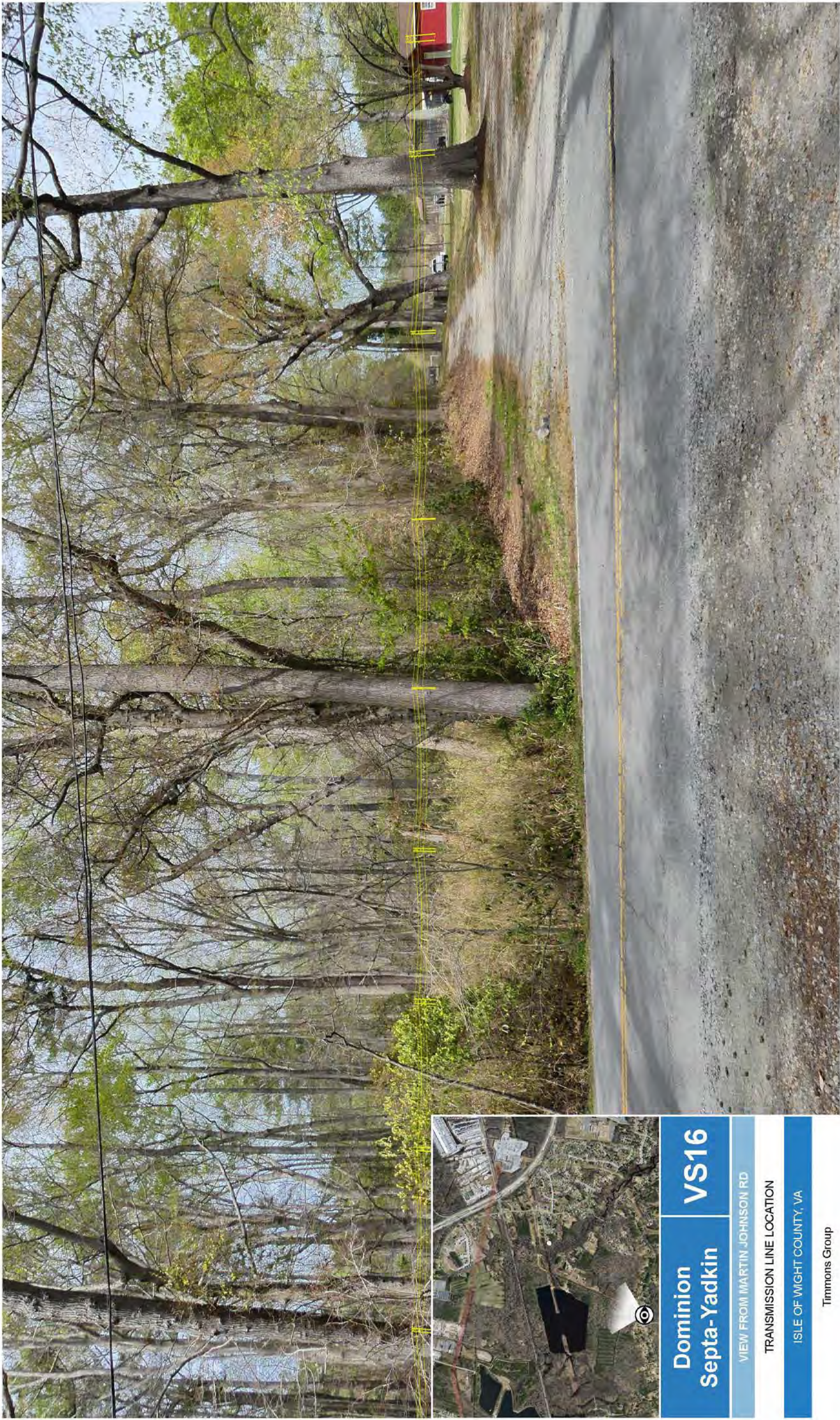
VS16

VIEW FROM MARTIN JOHNSON RD

EXISTING CONDITION

ISLE OF WIGHT COUNTY, VA

Timmons Group



**Dominion
Septa-Yadkin**

VS16

VIEW FROM MARTIN JOHNSON RD

TRANSMISSION LINE LOCATION

ISLE OF WIGHT COUNTY, VA

Timmons Group

II. DESCRIPTION OF THE PROPOSED PROJECT

- C. Describe and furnish plan drawings of all new substations, switching stations, and other ground facilities associated with the proposed project. Include size, acreage, and bus configurations. Describe substation expansion capability and plans. Provide one-line diagrams for each.**

Response: There are no new substations, switching stations, or other ground facilities associated with the proposed Rebuild Project, nor are any of the impacted stations being expanded. The Rebuild Project will require the following station work:

At Septa Switching Station, the Company will replace the Line #579 terminal equipment to support the new line rating. One circuit breaker, four disconnect switches, the rigid bus, and the line risers will be replaced with 5,000A rated equipment. The Line #579 wave trap will be retired, and the line protection will be upgraded to an optical fiber scheme.

At Yadkin Substation, the Company will replace the Line #579 terminal riser to support the new line rating. The Line #579 wave trap will be retired, and the line protection will be upgraded to an optical fiber scheme.

III. IMPACT OF LINE ON SCENIC, ENVIRONMENTAL AND HISTORIC FEATURES

- A. **Describe the character of the area that will be traversed by this line, including land use, wetlands, etc. Provide the number of dwellings within 500 feet, 250 feet and 100 feet of the centerline, and within the ROW for each route considered. Provide the estimated amount of farmland and forestland within the ROW that the proposed project would impact.**

Response: The proposed Rebuild Project will be located within existing transmission line right-of-way corridor, which spans approximately 33.1 miles from the Septa Switching Station in Isle of Wight County to the Yadkin Substation in the City of Chesapeake. The existing transmission line right-of-way to be utilized for the Rebuild Project will cross land largely characterized as predominantly undeveloped forested, agricultural and open land, with large swaths of wetlands, and scattered low- and high-density development.

See Attachment III.A.1 and Section 2.L of the DEQ Supplement for the estimated amount of farmland and forestland within the right-of-way that the Rebuild Project would impact. Existing agricultural uses are present within the existing right-of-way and these activities have been occurring for an extended duration while the lines have been in operation. The proposed Rebuild Project may result in temporary impacts to farmland during construction but would not otherwise be expected to impact farmlands and would not alter the agricultural use. The Rebuild Project is within an existing transmission line right-of-way; therefore, no forested land is present, and no additional forestland clearing is anticipated.

The Company reviewed the most recent aerial imagery available in Google Earth to identify residences in proximity to the Rebuild Project. A summary of the number of residences within 500, 250, and 100 feet of the Rebuild Project centerline is presented in the table below. No dwellings are located within the existing right-of-way.

County/City	Dwellings Within 500 Feet of Centerline	Dwellings Within 250 Feet of Centerline	Dwellings Within 100 Feet of Centerline
Isle of Wight	56	16	3
Suffolk	27	6	0
Chesapeake	68	22	7

For additional description of the character of the area that will be traversed by the Rebuild Project and the related impacts, see the DEQ Supplement, specifically as to land use (Sections 2.I and 2.L), wetlands (Section 2.D), forests (Section 2.L), agricultural lands (Section 2.L), historic resources (Section 2.I), and wildlife (Sections 2.G and 2.K).

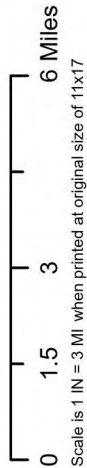
ATTACHMENT III.A.1
PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client:
Dominion Energy Virginia

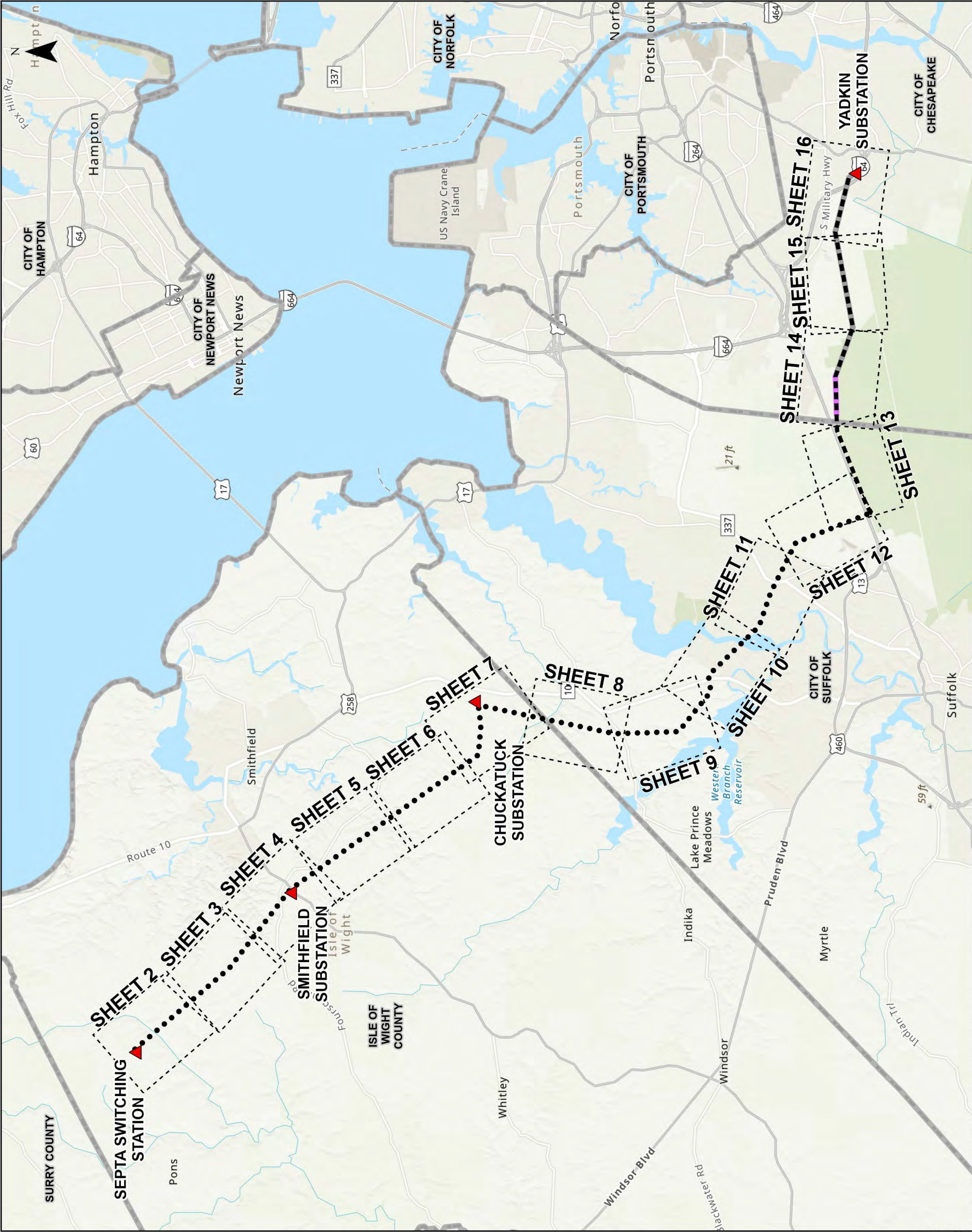
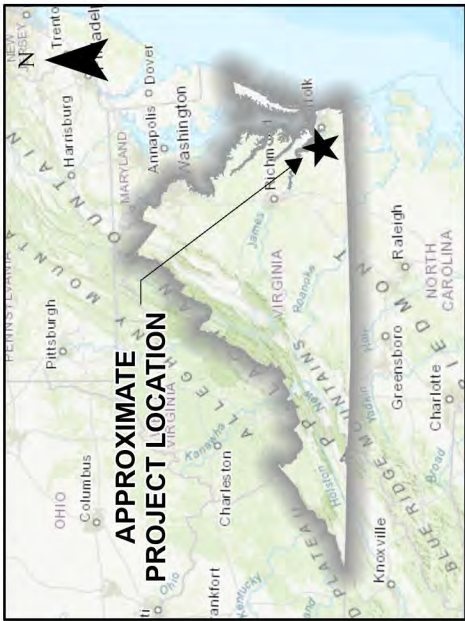
C2 Env Project: 0265 Prepared By: KAS Date: 5/6/2025



SITE DATA

- Line #579 Single Circuit Segment
- Lines #579/2110 Double Circuit Segment
- Airport Section
- Airport-Yadkin Section
- ▲ Existing Substation/Switching Station
- Map Sheet

- Notes:
1. Basemap from ESRI World Topographic Map
 2. Project right-of-way provided by Dominion Energy Virginia
 3. Railroads from Virginia Geographic Information Network
 4. Stream centerlines from U.S. Geological Survey National Hydrography Dataset
 5. Farmland data from Natural Resources Conservation Service Soil Survey





Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, ©OpenStreetMap contributors, and the GTS User Community, Virginia Geographic Information Network (VGIN)

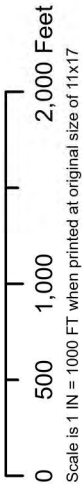
ATTACHMENT III.A.1 PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

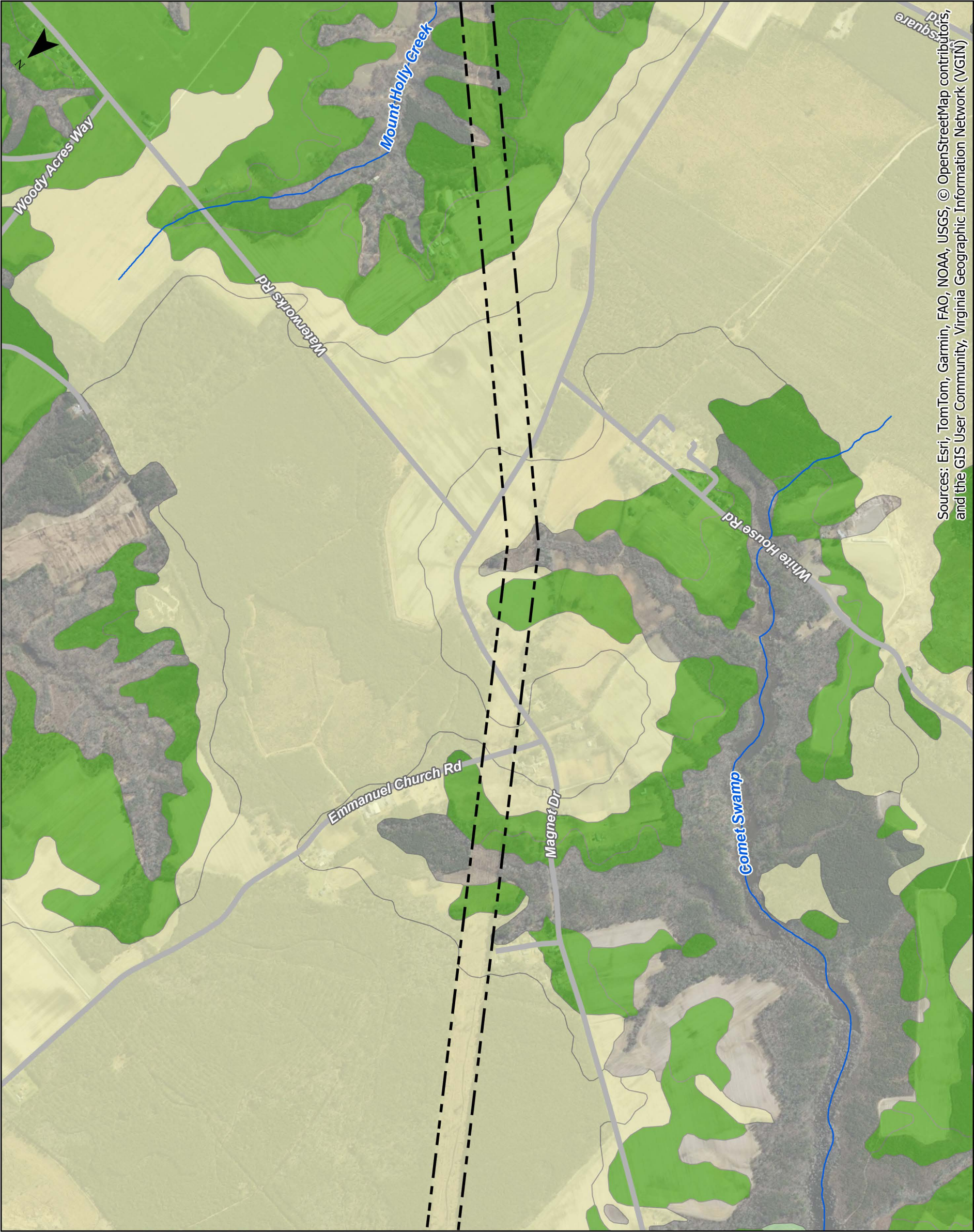
Client:
Dominion Energy Virginia

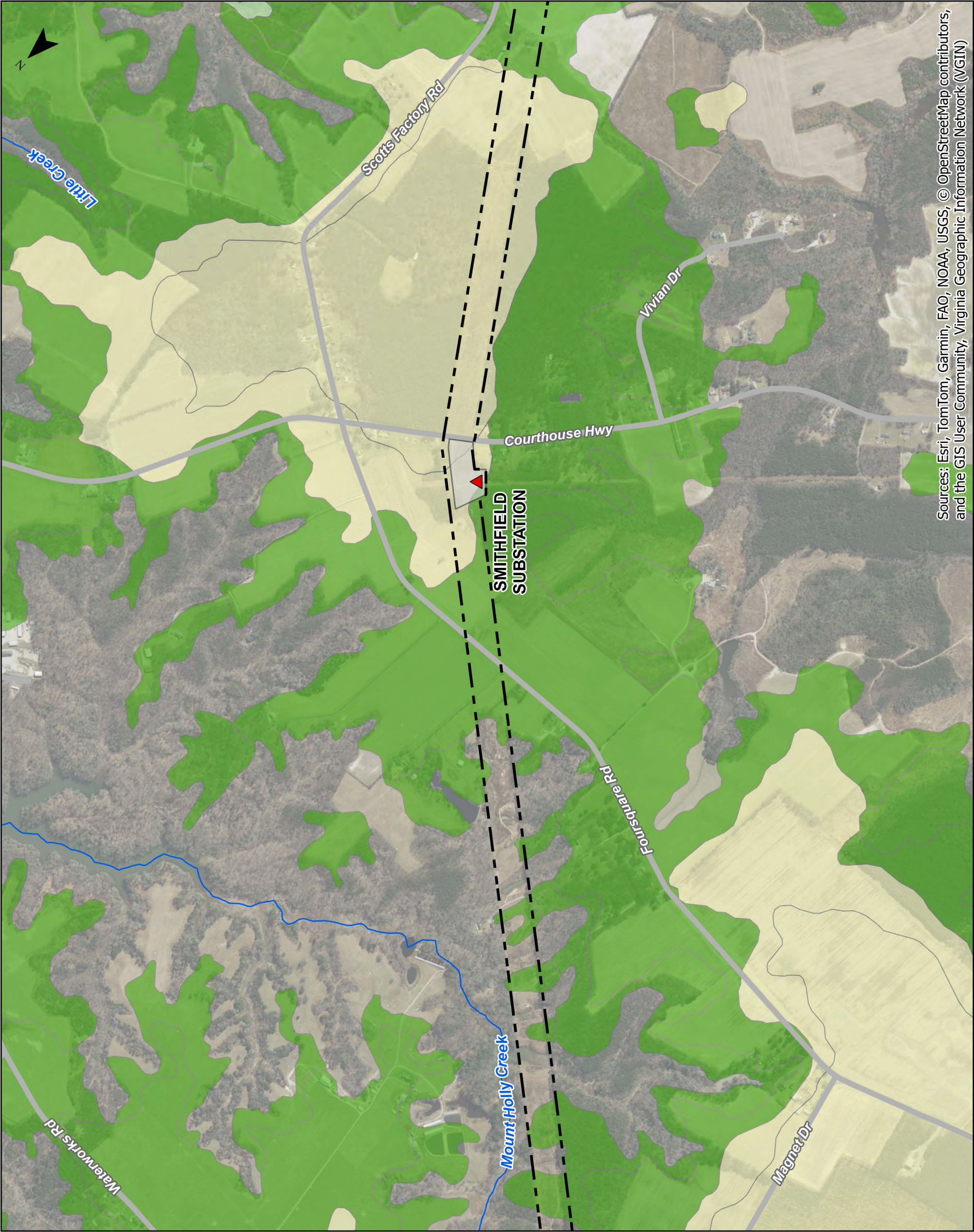
C2 Env Project: 0265
Prepared By: KAS
Date: 5/6/2025



- Existing Right-of-Way
- Existing Substation/Switching Station
- Dominion Station Parcel
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland If Drained
- USGS National Hydrography Stream Centerline
- Railroad







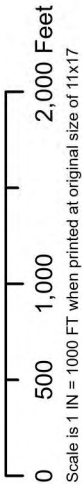
ATTACHMENT III.A.1
PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client:
Dominion Energy Virginia

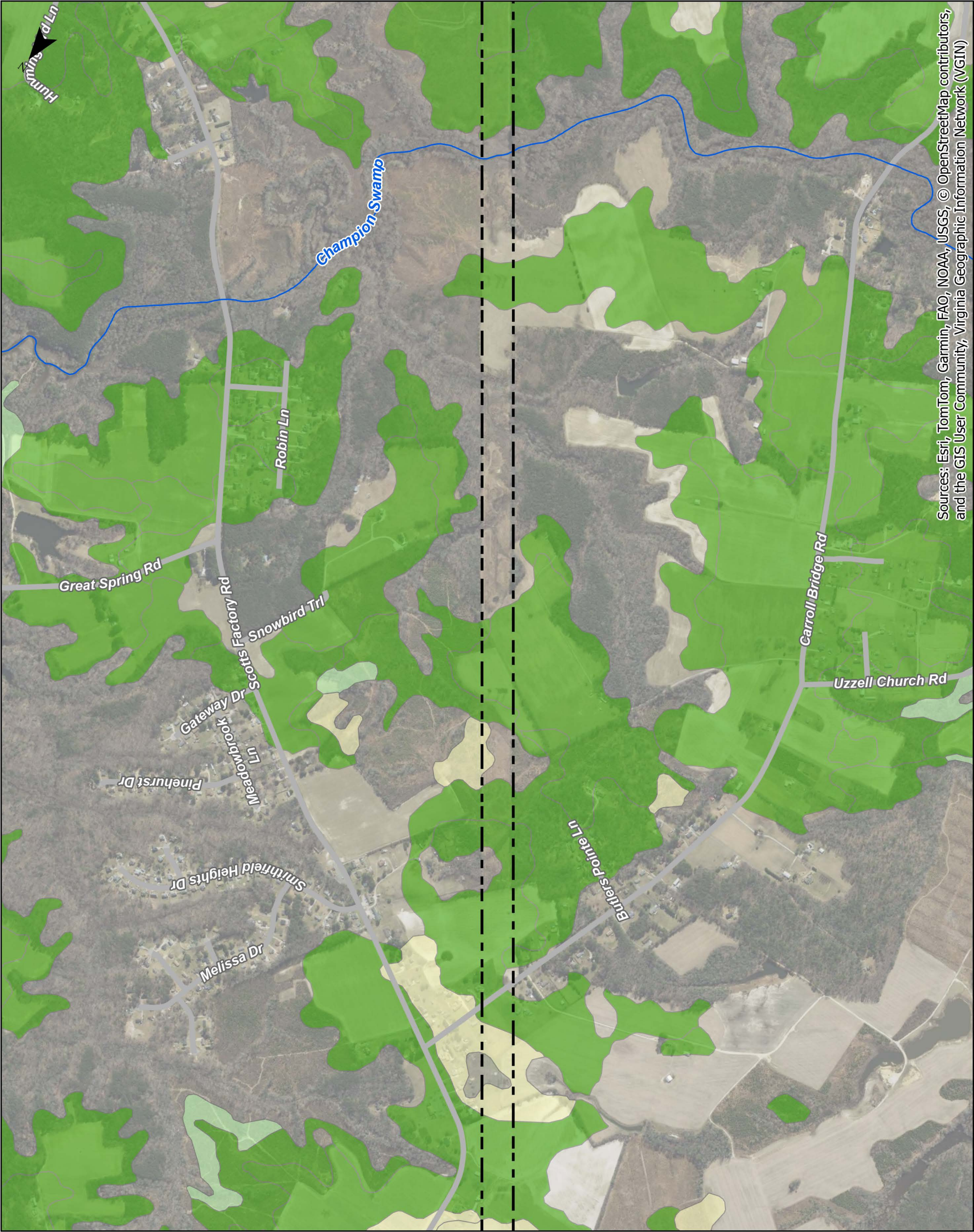
C2 Env Project: 0265 Prepared By: KAS Date: 5/6/2025



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ATTACHMENT III.A.1

PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0265
Prepared By: KAS
Date: 5/6/2025

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Scale is 1 IN = 1000 FT when printed at original size of 11x17

Existing Right-of-Way

Existing Substation/Switching Station

Dominion Station Parcel

Prime Farmland

Farmland of Statewide Importance

Prime Farmland If Drained

USGS National Hydrography Stream Centerline

Railroad

Smithfield

Isle of Wight

ROUTE 10

Bennetts Run

ET 3

SHEET 4

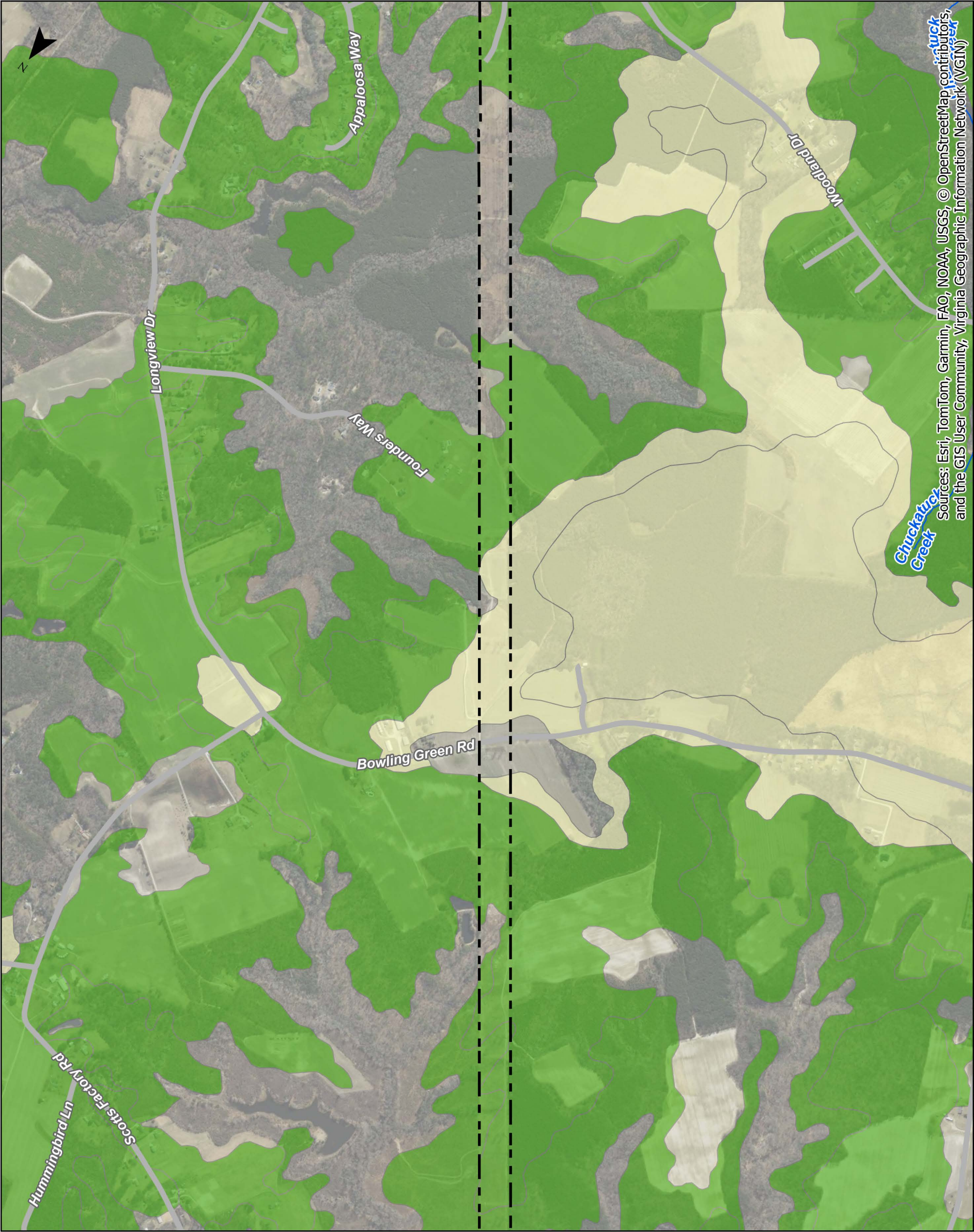
SHEET 5

SHEET 6

Dominion Energy

ENVIRONMENTAL

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Virginia Geographic Information Network (VGIN)



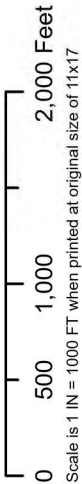
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PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

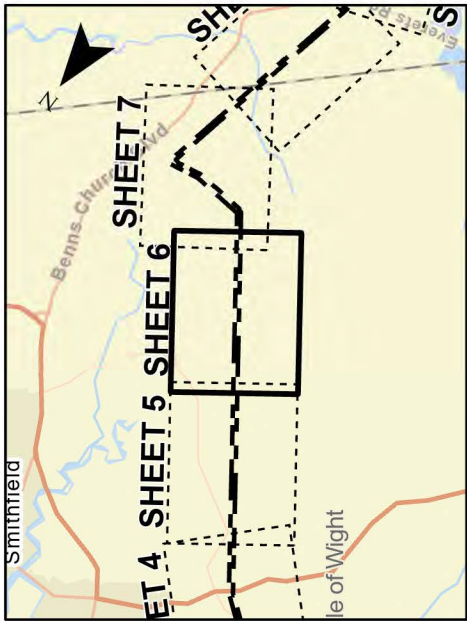
City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

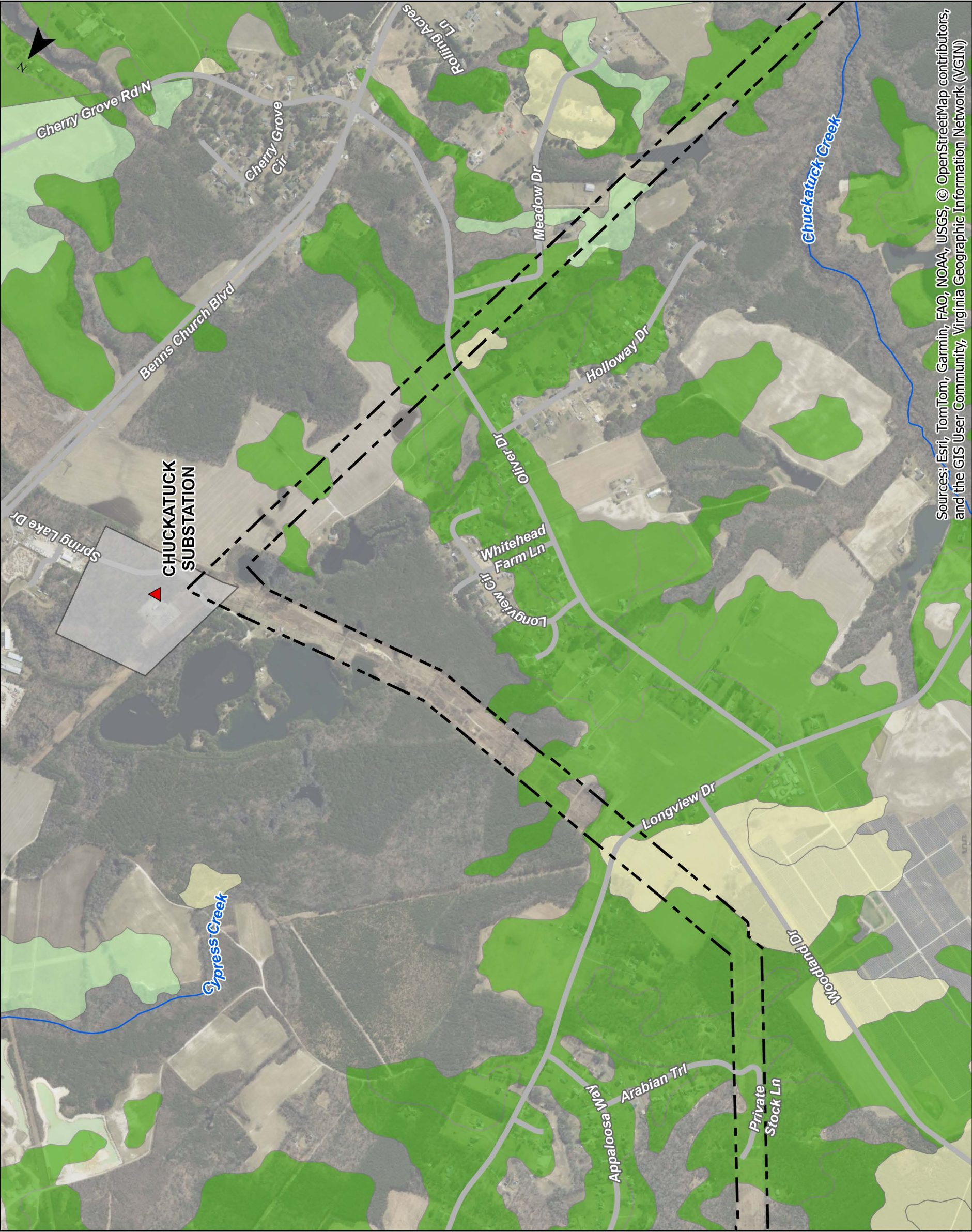
Client:
Dominion Energy Virginia

C2 Env Project: 0265 Prepared By: KAS Date: 5/6/2025



- Existing Right-of-Way
- Existing Substation/Switching Station
- Dominion Station Parcel
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland If Drained
- USGS National Hydrography Stream Centerline
- Railroad





ATTACHMENT III.A.1

PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and City of Suffolk, Virginia

Client:
Dominion Energy Virginia

C2 Env Project:
0265

Prepared By:
KAS

Date:
5/6/2025

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Feet

Scale is 1 IN = 1000 FT when printed at original size of 11x17

Existing Right-of-Way

Existing Substation/Switching Station

Dominion Station Parcel

Prime Farmland

Farmland of Statewide Importance

Prime Farmland If Drained

USGS National Hydrography Stream Centerline

Railroad

Benns Church Rd

Crittenden Rd

Sheet 5

Sheet 6

Sheet 7

Sheet 8

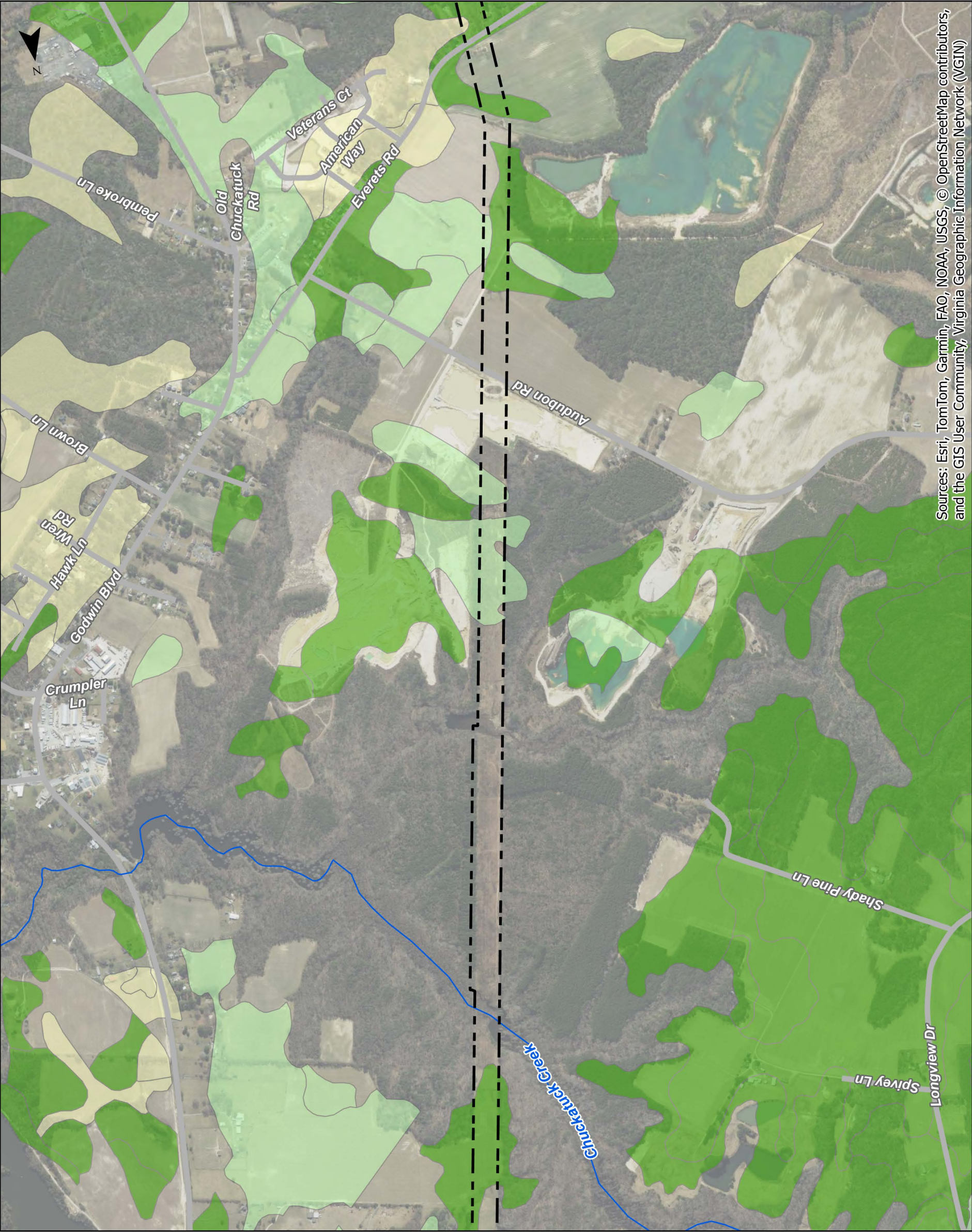
Dominion Energy

ENVIRONMENTAL

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SHEET 7 OF 16

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ATTACHMENT III.A.1
PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0265 Prepared By: KAS Date: 5/6/2025

0 500 1,000 2,000 Feet

Scale is 1 IN = 1000 FT when printed at original size of 11x17

Existing Right-of-Way

Existing Substation/Switching Station

Dominion Station Parcel

Prime Farmland

Farmland of Statewide Importance

Prime Farmland If Drained

USGS National Hydrography Stream Centerline

Railroad

SHEET 7

SHEET 8

SHEET 9

Godwin Rd

Everets Rd

Crittenden Rd

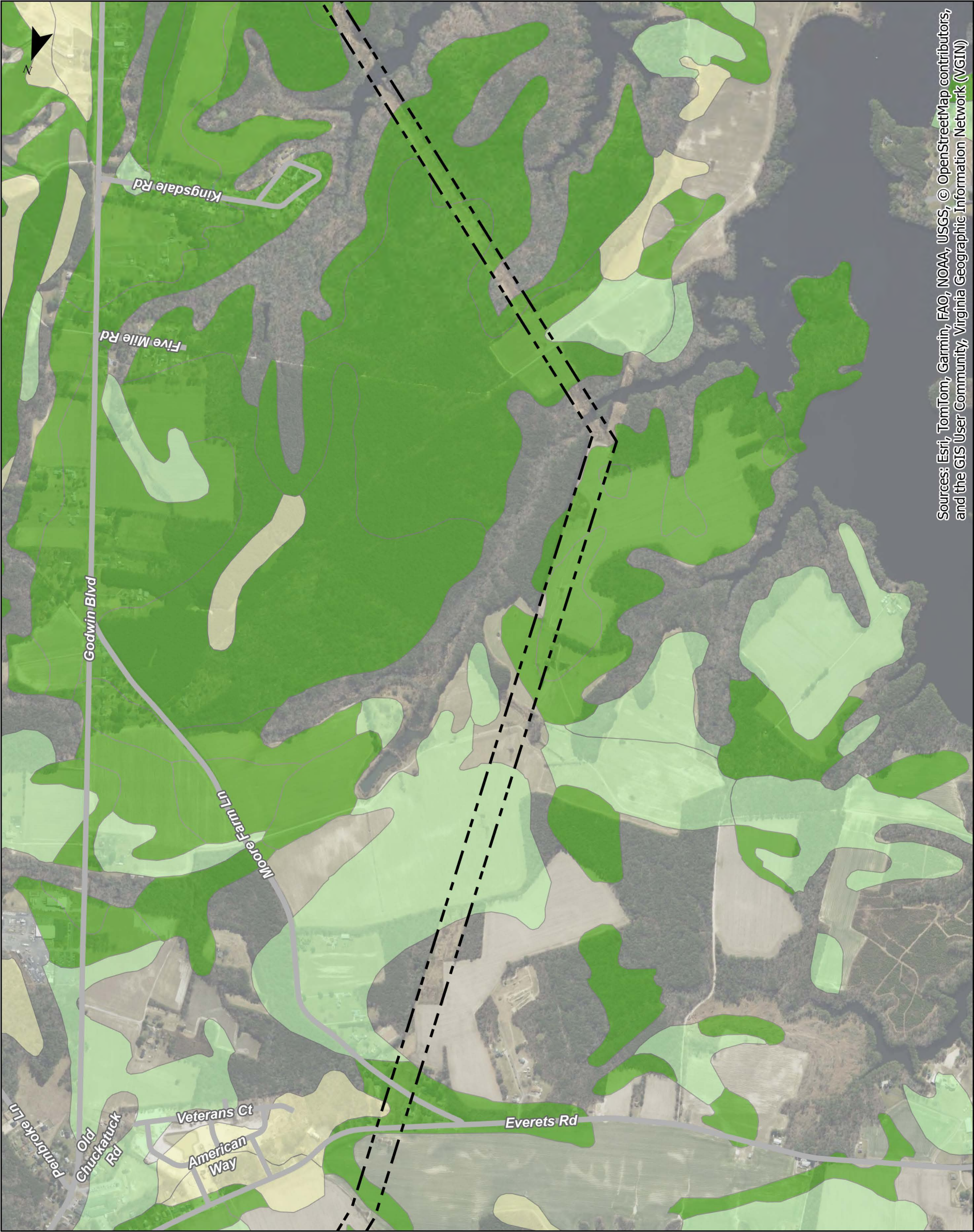
Lake Prince Meadows

Dominion Energy

ENVIRONMENTAL

SHEET 8 OF 16

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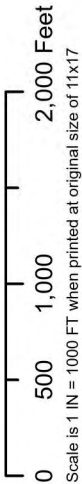
ATTACHMENT III.A.1
PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0265 Prepared By: KAS Date: 5/6/2025



- Existing Right-of-Way
- Existing Substation/Switching Station
- Dominion Station Parcel
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland If Drained
- USGS National Hydrography Stream Centerline
- Railroad



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ATTACHMENT III.A.1

PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client: _____

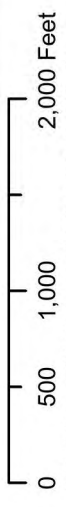
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Date:

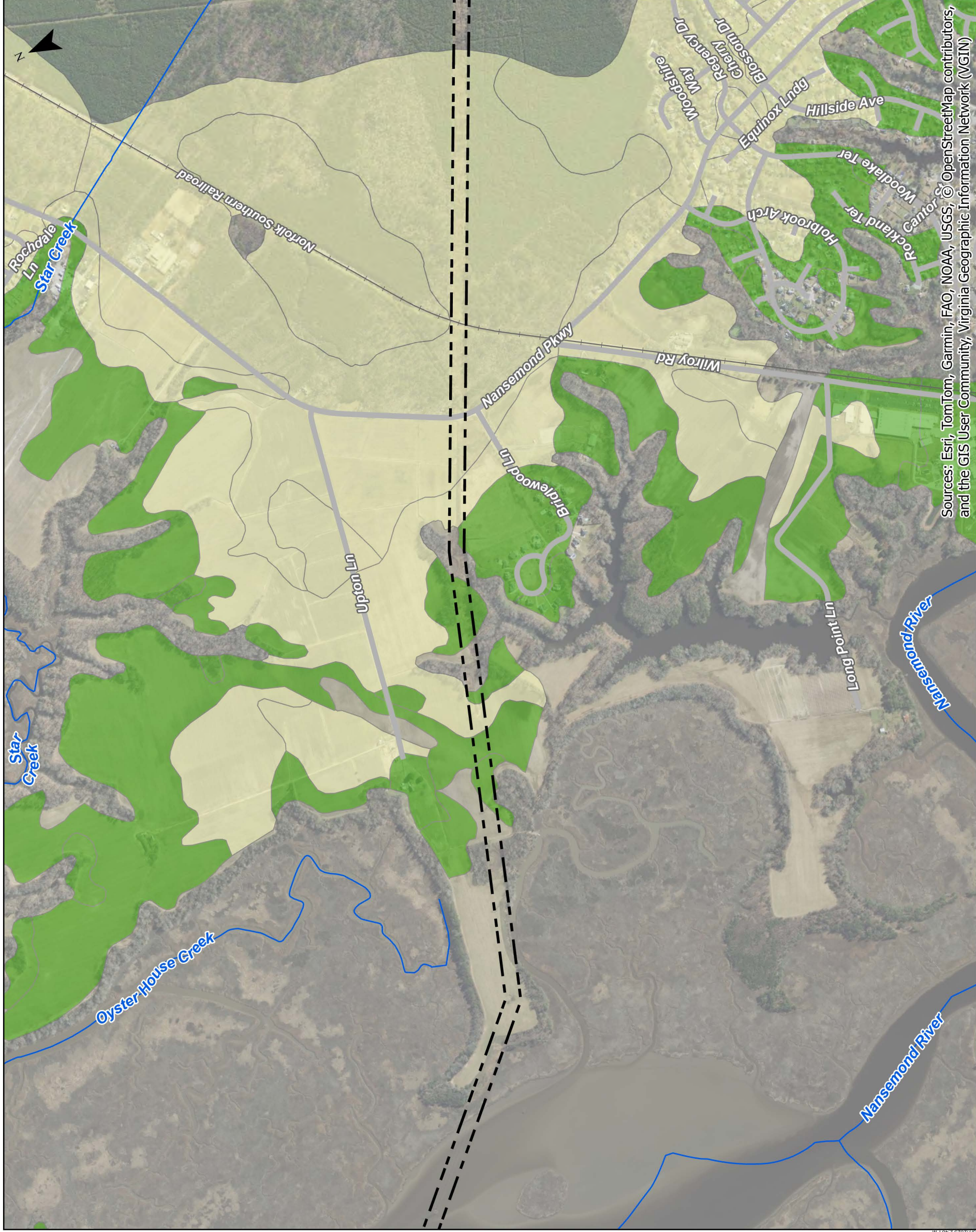
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- Existing Right-of-Way
Existing Substation/Switching Station
Dominion Station Parcel
Prime Farmland
Farmland of Statewide Importance
Prime Farmland If Drained
USGS National Hydrography Stream Centerline
Railroad



SHEET 11 OF 16



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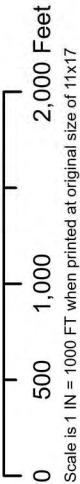
ATTACHMENT III.A.1
PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
City of Suffolk, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0265 Prepared By: KAS Date: 5/6/2025



- Existing Right-of-Way
- Existing Substation/Switching Station
- Dominion Station Parcel
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland If Drained
- USGS National Hydrography Stream Centerline
- Railroad



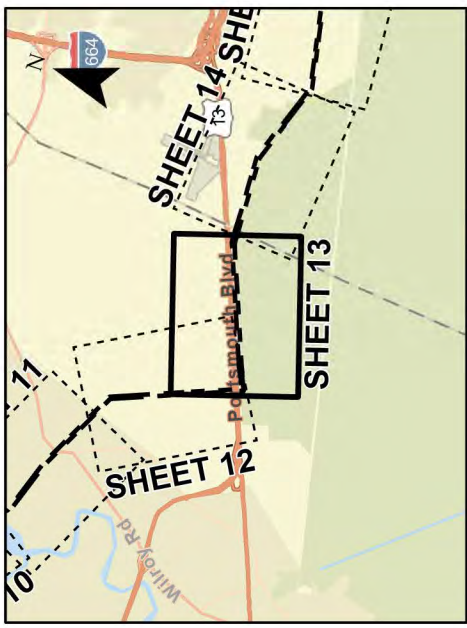
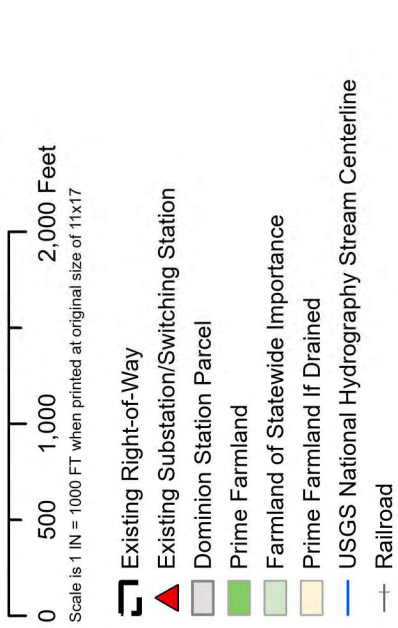


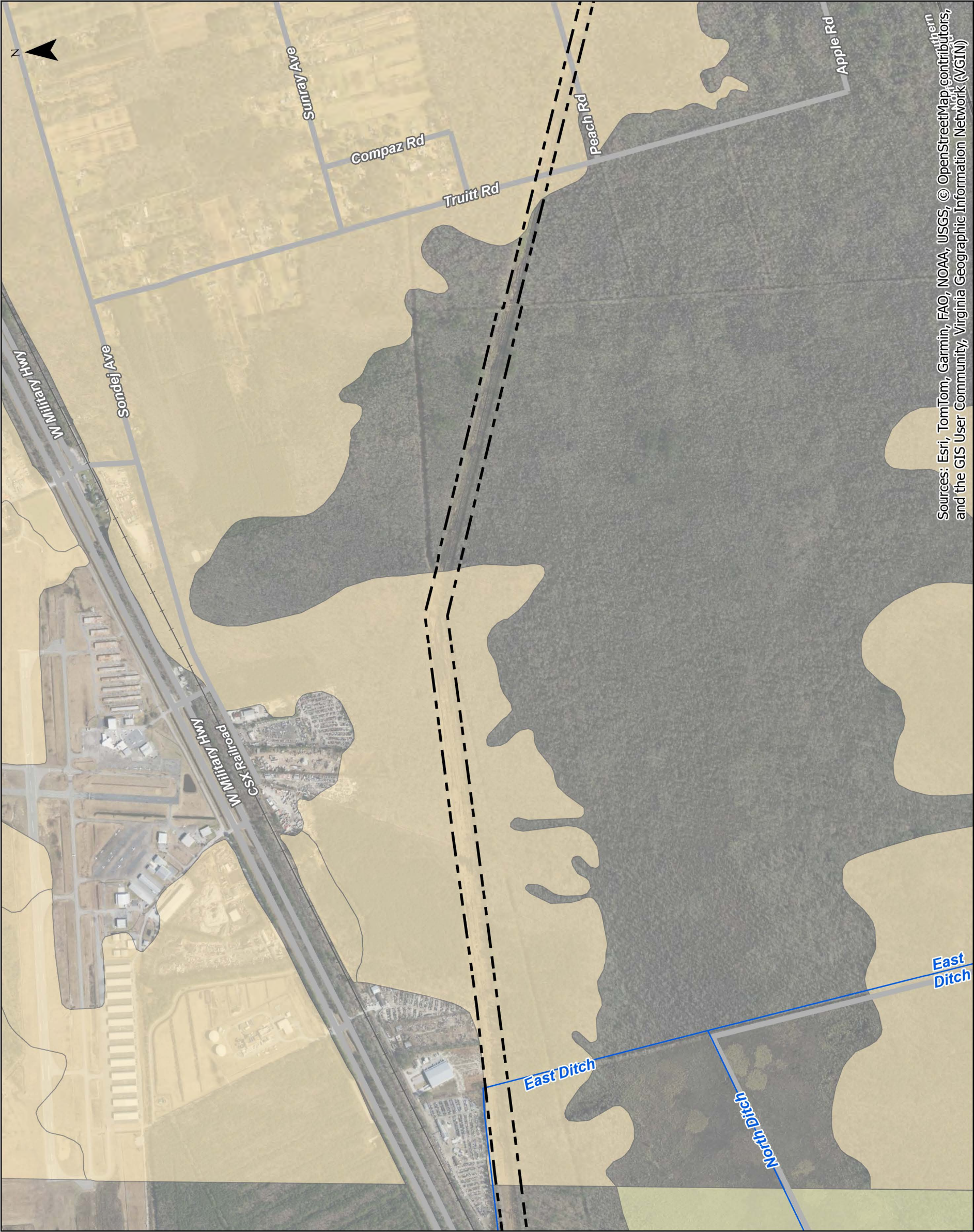
ATTACHMENT III.A.1
PRIME FARMLAND MAP

City of Chesapeake, Isle of Wight County and City of Suffolk, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0265 Prepared By: KAS Date: 5/6/2025





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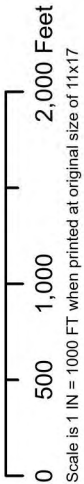
ATTACHMENT III.A.1
PRIME FARMLAND MAP

Septa - Yadkin 500 kV Line #579 Rebuild and
Suffolk - Thrasher 230 kV Line #2110 Partial Rebuild

City of Chesapeake, Isle of Wight County and
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Client:
Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0265	KAS	5/6/2025



- Existing Right-of-Way
- Existing Substation/Switching Station
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