N/A

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters

N/A

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Habitat Predicted for Aquatic WAP Tier I & II Species (3 Reaches) View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species

Stream Name	Tier Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
Crooked Creek (03010204)	FTST	060173	FTST	Ia	Pigtoe, Atlantic	Fusconaia masoni	Yes
Flat Rock Creek (03010204)	FTST	010174		Ia	Bass, Roanoke	Ambloplites cavifrons	Yes
		060173	FTST	Ia	Pigtoe, Atlantic	Fusconaia masoni	
tributary (03010204)		010174		Ia	Bass, Roanoke	Ambloplites cavifrons	Yes
tributary (03010204)		010174		Ia	Bass, Roanoke	Ambloplites cavifrons	Yes

Habitat Predicted for Terrestrial WAP Tier I & II Species

N/A

Public Holdings:

N/A

Compiled on 1/5/2022, 11:27:33 PM | I156083.0 | reports=PA | searchType= P | dist= 3218 poi= 36.54,-56.0 -78,10.36,0 siteDD= 36.9363611 -78.1465832;36.9367222 -78.1574721;36.9251389 -78.1568332;36.9270833 -78.1581943;36.9266111 -78.1644165;36.9238888 -78.1638887;36.9243333 -78.1693887;36.9294722 -78.1737221;36.9198611 -78.1865832;36.9209444 -78.1866387;36.9210277 -78.1991387;36.9103888 -78.1940832;36.9087777 -78.2043332;36.9058888 -78.2038332;36.9068888 -78.1768054;36.8958055 -78.1775554;36.8943333 -78.1755554;36.8958055 -78.1628610;36.8987222 -78.1662499;36.8992500 -78.1690554;36.9045277 -78.1680832;36.9101666 -78.1595832;36.9115833 -78.1632499;36.9210555 -78.1594443;36.9210833 -78.1526387;36.9287777 -78.1515276;36.9290000 -78.1465554;36.9363611 -78.1465832;

PixelSize=64; Anadromous=0.022343; BECAR=0.020683; Bats=0.019899; Buffer=0.176827; County=0.068899; Impediments=0.02198; Init=0.219707; PublicLands=0.028893; SppObs=0.316101; TEWaters=0.030385; TierReaches=0.069425; TierTerrestrial=0.133065; Total=1.159496; Tracking_BOVA=0.177934; Trout=0.026451

Site Location

36,54,56.0 -78,10,26.0
is **the Search Point**

Show Position Rings
(•) Yes ( ) No
1 mile and 1/4 mile at the **Search Point**

Show Search Area
(•) Yes ( ) No
2 Search distance miles buffer

Search Point is at map center

Base Map Choices
Topography

Map Overlay Choices
Current List: Position, Search, BECAR, BAEANests, TEWaters, TierII, Habitat, Trout, Anadromous

Map Overlay Legend

T & E Waters
Federal
State

Predicted Habitat WAP Tier I & II
Aquatic
Terrestrial

Trout Waters
Class I - IV
Class V - VI

Anadromous Fish Reach
Confirmed
Potential

123 Impediment

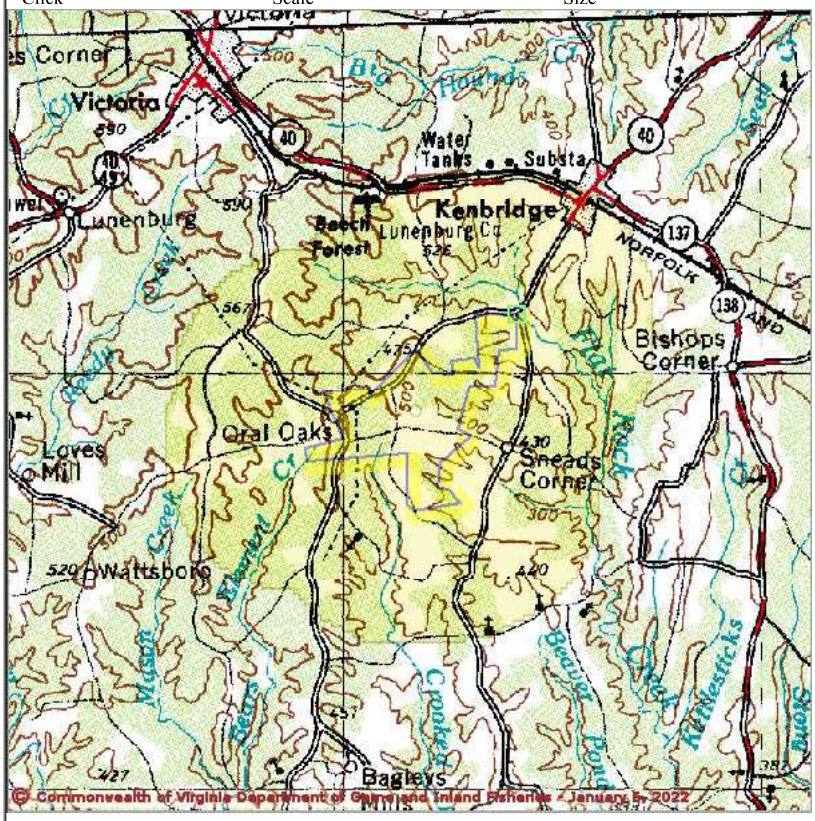
Position Rings 1 mile and 1/4 mile at the Search Point

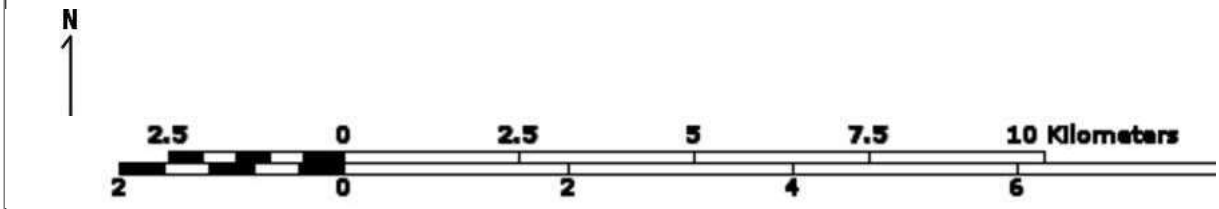
2 mile radius Search Area

Bald Eagle Concentration Areas and Roosts

Refresh Browser Page

Map Click Pan Id M Map Scale In Zoom Out Screen Size Small Size Big Help





Point of Search 36,54,56.0 -78,10,26.0
Map Location 36,54,56.6 -78,10,32.0

Select **Coordinate System:**
(•) Degrees,Minutes,Seconds Latitude - Longitude
( ) Decimal Degrees Latitude - Longitude
( ) Meters UTM NAD83 East North Zone
( ) Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see Microsoft terraserver-usa.com for details)

Map projection is UTM Zone 17 NAD 1983 with left 742013 and top 4098852. Pixel size is 19. . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 19200 meters east to west by 19200 meters north to south for a total of 368.6 square kilometers. The map display represents 63002 feet east to west by 63002 feet north to south for a total of 142.3 square miles.

Topographic maps and Black and white aerial photography for year 1990+-
are from the United States Department of the Interior, United States Geological Survey.
Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network.
Shaded topographic maps are from TOPO! ©2006 National Geographic http://www.national.geographic.com/topo
All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

map assembled 2022-01-05 23:27:40 (qa/qc March 21, 2016 12:20 - tn=1156083.0 dist=3218 I)
$poi=36.9155556 -78.1738889

Natural Heritage Resources

Your Criteria

Taxonomic Group: Select All

Global Conservation Status Rank: Select All

State Conservation Status Rank: Select All

Federal Legal Status: Select All

State Legal Status: Select All

County: Lunenburg

Watershed (8 digit HUC): 03010204 - Meherrin River

Subwatershed (12 digit HUC): CM08 - Meherrin River-Mason Creek,CM09 - Meherrin River-Crooked Creek,CM10 - Flat Rock Creek

Search Run: 12/5/2021 9:00:46 AM

Result Summary

Total Species returned: 2

Total Communities returned: 0

Click scientific names below to go to NatureServe report.

Click column headings for an explanation of species and community ranks.

Common Name/Natural Community	Scientific Name	Scientific Name Linked	Global Conservation Status Rank	State Conservation Status Rank	Federal Legal Status	State Legal Status	Statewide Occurrences	Virginia Coastal Zone
Lunenburg								
Meherrin								
Flat Rock Creek								
BIRDS								
Loggerhead Shrike	Lanius ludovicianus	Lanius ludovicianus	G4	S1B,S2N	None	LT	40	N
Meherrin River-Mason Creek								
BIVALVIA (MUSSELS)								
Atlantic Pigtoe	Fusconaia masoni	Fusconaia masoni	G1	S2	PT	LT	29	N

Note: On-line queries provide basic information from DCR's databases at the time of the request. They are NOT to be substituted for a project review or for on-site surveys required for environmental assessments of specific project areas.

For Additional Information on locations of Natural Heritage Resources please submit an information request.

To Contribute information on locations of natural heritage resources, please fill out and submit a rare species sighting form.

Ann Jennings
Secretary of Natural and Historic Resources and Chief Resilience Officer

Clyde E. Cristman
Director

COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

January 12, 2022

Jennifer D'Augustine
Tetra Tech Inc.
4101 Cox Road, Suite 120
Glen Allen VA, 23060

Re: Laurel Branch Solar Project

Dear Ms. D'Augustine:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information currently in Biotics, natural heritage resources have not been documented within the submitted project boundary including a 100 foot buffer. The absence of data may indicate that the project area has not been surveyed, rather than confirm that the area lacks natural heritage resources.

Please note, the project area intersects a DCR predictive suitable habitat model for the Eastern big-eared bat (*Corynorhinus rafinesquii macrotis*, G3G4T3/S2/NL/LE). There is potential for the rare bat to occur in the project area if suitable habitat exists on site. The Eastern big-eared bat is named for its enormous ears twice the length of its head, is extremely rare in Virginia and is currently known only from the southeastern portion of the state. Although widespread throughout the southeast, they are never found in large numbers. These bats roost singly or in small groups in hollow trees or abandoned buildings. They forage only after dark primarily in mature forests of both upland and lowland areas along permanent bodies of water (NatureServe, 2009). The details of this bat's feeding behavior and much of its natural history remain a mystery. Lack of information regarding the ecology of the Eastern big-eared bat, and their sensitivity to disturbance, make them particularly vulnerable to destruction of roost sites and feeding areas where their presence goes undetected (Handley and Schwab 1991, Harvey 1992).

Threats to this species include forest destruction, particularly hollow tree removal, decreasing availability of abandoned buildings, and possibly, insecticides. Please note that this species is currently classified as endangered by the Virginia Department of Wildlife Resources (VDWR).

DCR recommends avoiding tree removal in bottomland habitats along Bear Elements Creek and assessing any large potential roost trees and/or abandoned structures on the property for bat presence/absence. DCR also recommends coordination with DWR if removal of potential roost habitat for the Eastern big-eared bat becomes necessary to ensure compliance with the Virginia Endangered Species Act (VA ST §§ 29.1-563 – 570).

In addition, the proposed project will fragment Ecological Cores **(C3, C4, and C5)** as identified in the Virginia Natural Landscape Assessment (https://www.dcr.virginia.gov/natural-heritage/vaconvisvnla), one of a suite

of tools in Virginia ConservationVision that identify and prioritize lands for conservation and protection. Mapped cores in the project area can be viewed via the Virginia Natural Heritage Data Explorer, available here: http://vanhde.org/content/map.

Ecological Cores are areas of unfragmented natural cover with at least 100 acres of interior that provide habitat for a wide range of species, from interior-dependent forest species to habitat generalists, as well as species that utilize marsh, dune, and beach habitats. Cores also provide benefits in terms of open space, recreation, water quality (including drinking water protection and erosion prevention), and air quality (including carbon sequestration and oxygen production), along with the many associated economic benefits of these functions. The cores are ranked from C1 to C5 (C5 being the least ecologically relevant) using many prioritization criteria, such as the proportions of sensitive habitats of natural heritage resources they contain.

Fragmentation occurs when a large, contiguous block of natural cover is dissected by development, and other forms of permanent conversion, into one or more smaller patches. Habitat fragmentation results in biogeographic changes that disrupt species interactions and ecosystem processes, reducing biodiversity and habitat quality due to limited recolonization, increased predation and egg parasitism, and increased invasion by weedy species.

Therefore minimizing fragmentation is a key mitigation measure that will reduce deleterious effects and preserve the natural patterns and connectivity of habitats that are key components of biodiversity. DCR recommends efforts to minimize edge in remaining fragments, retain natural corridors that allow movement between fragments and designing the intervening landscape to minimize its hostility to native wildlife (natural cover versus lawns).

Furthermore, DCR recommends the development of an invasive species management plan for the project and the planting of Virginia native pollinator plant species that bloom throughout the spring and summer, to maximize benefits to native pollinators. DCR recommends planting these species in at least the buffer areas of the planned facility, and optimally including other areas within the project site. For screening zones outside the perimeter fencing, DCR recommends native species appropriate for the region be used. Guidance on plant species can be found here: http://www.dcr.virginia.gov/natural-heritage/solar-site-native-plants-finder. In addition, Virginia native species alternatives to the non-native species listed in the Virginia Erosion and Sediment Control Handbook (Third Edition 1992), can be found in the 2017 addendum titled "Native versus Invasive Plant Species", here: https://www.deq.virginia.gov/home/showpublisheddocument?id=2466. Page 3 of the addendum provides a list of native alternatives for non-natives commonly used for site stabilization including native cover crop species (i.e. Virginia wildrye).

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the DCR, DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

There are no State Natural Area Preserves under DCR's jurisdiction in the project vicinity.

New and updated information is continually added to Biotics. Please re-submit a completed order form and project map for an update on this natural heritage information if the scope of the project changes and/or six months (June 12, 2022) has passed before it is utilized.

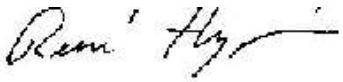
A fee of $1000.00 has been assessed for the service of providing this information. Please find attached an invoice for that amount. Please return one copy of the invoice along with your remittance made payable to the Treasurer of Virginia, DCR Finance, 600 East Main Street, 24th Floor, Richmond, VA 23219. Payment is due within thirty

days of the invoice date. Please note late payment may result in the suspension of project review service for future projects.

The Virginia Department of Wildlife Resources (VDWR) maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not documented in this letter. Their database may be accessed from http://vafwis.org/fwis/ or contact Amy Martin at 804-367-2211 or amy.martin@dwr.virginia.gov.

Should you have any questions or concerns, feel free to contact me at 804-371-2708. Thank you for the opportunity to comment on this project.

Sincerely,



S. René Hypes
Natural Heritage Project Review Coordinator

Cc: Amy Martin, VDWR
Susan Trip, DEQ
Tracy M Gee, Lunenburg County Administrator

Literature Cited

Handley, C.O., and D. Schwab. 1991. Eastern big-eared bat. In Virginia's Endangered Species: Proceedings of a Symposium. K. Terwilliger ed. The McDonald and Woodward Publishing Company, Blacksburg, Virginia. p. 571-573.

Harvey, M.J. 1992. Bats of the Eastern United States. Arkansas Game and Fish Commission, Little Rock, Arkansas. pp.46

NatureServe. 2009. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Available http://www.natureserve.org/explorer. (Accessed: March 31, 2010)

ATTACHMENT C: CULTURAL RESOURCES DESKTOP REVIEW MEMO

Cultural Resources Desktop Review

Laurel Branch Solar Project

March 3, 2022

Prepared for

Dominion Energy®

600 E Canal Street
Richmond, VA 23219

Prepared by

TETRA TECH

4101 Cox Road, Suite 120
Glen Allen, VA 23060

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1.0 INTRODUCTION

This report provides a summary of the cultural resource management events registered at the Virginia Department of Historic Resources (VDHR) through January 2022 that have taken place to date within the proposed Laurel Branch Solar Project area. Additionally, all previously identified architectural resources and archaeological sites located within the project area, as well as within 0.5 mile of the project area, are provided. Information on previously conducted surveys and previously identified resources and sites were accessed through VDHR's Virginia Cultural Resources Information System (VCRIS) on January 5, 2022. The memo was drafted based off the current Laurel Branch Solar Project boundary.

2.0 PREVIOUS SURVEYS RELEVANT TO THE PROJECT AREA

Research undertaken through VDHR's VCRIS demonstrated that no surveys have been conducted within 0.5 mile of the project area (Figure 1).

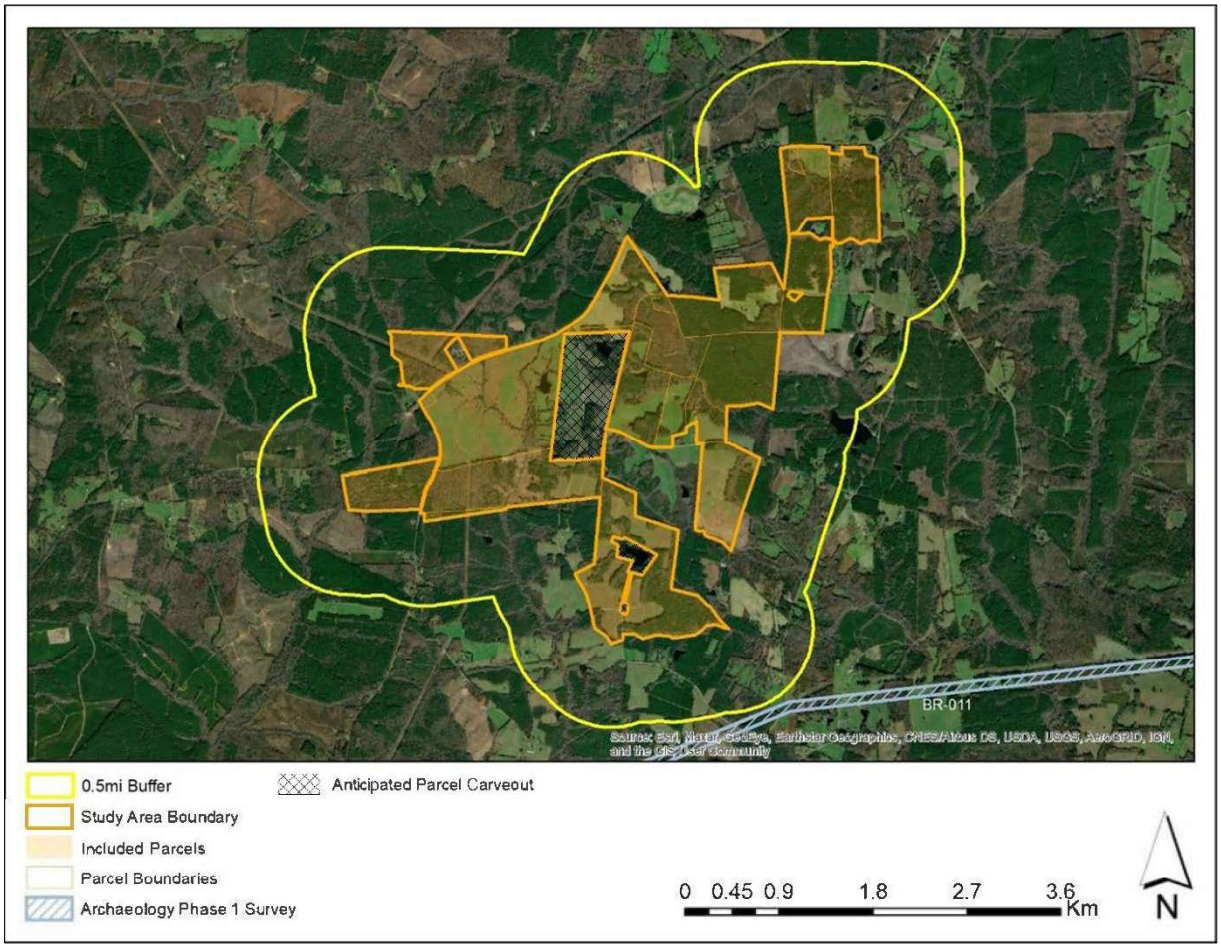

Figure 1. Previous surveys (gray) conducted in relation to the 0.5-mile buffer (yellow) around the project area (orange).
Source: VCRIS 2022

3.0 PREVIOUSLY IDENTIFIED ARCHAEOLOGICAL SITES WITHIN 0.5 MILE OF THE PROJECT AREA

There are no previously recorded archaeological sites located within 0.5 mile of the project area (Figure 2). No archaeological sites are located within the project area.

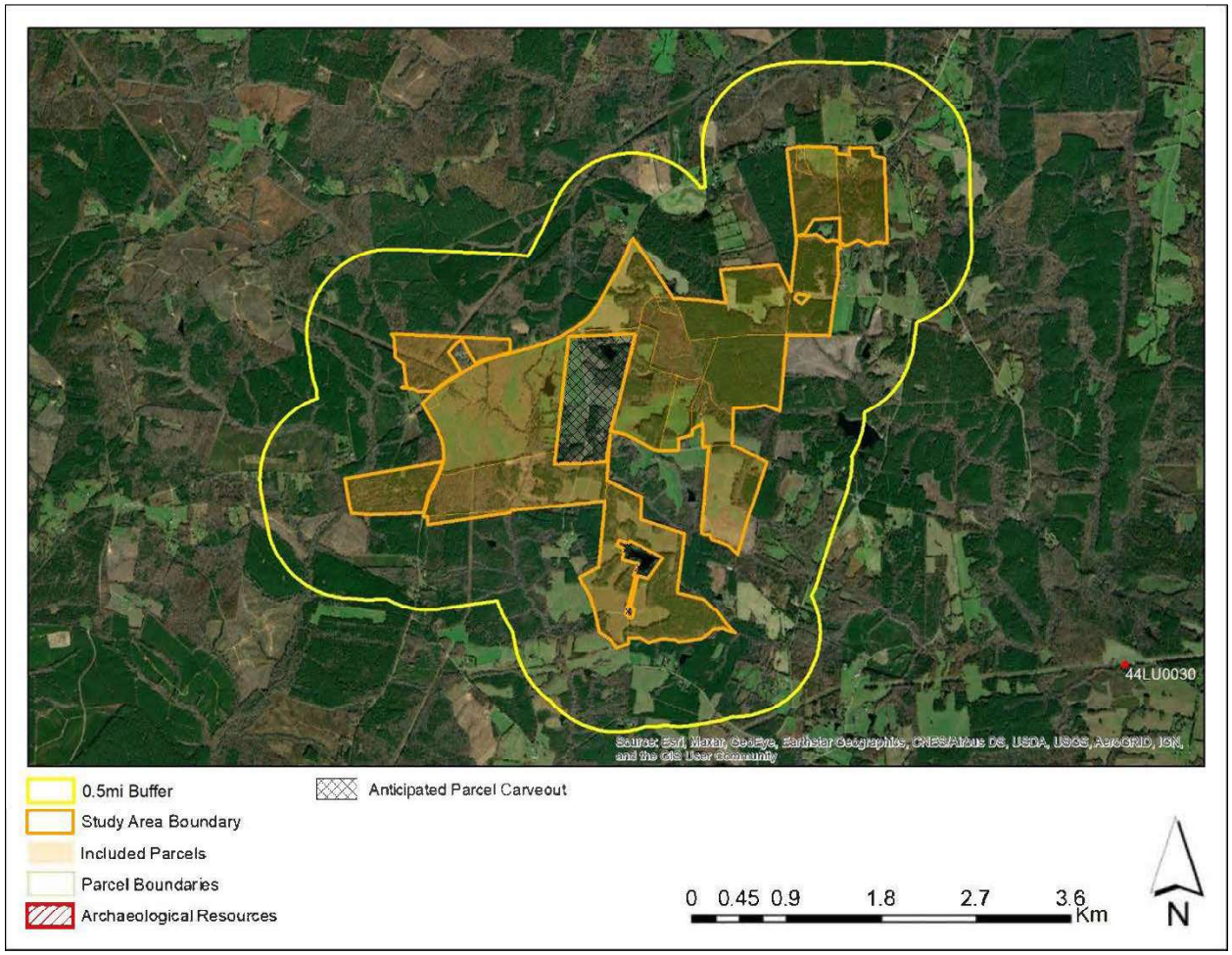

Figure 2. Archaeological resources (red) in relation to the 0.5-mile buffer (yellow) around the project area (orange). Source: VCRIS 2022.

Review of VDHR VCRIS records identified 13 previously recorded architectural resources within 0.5 mile of the project area (Figure 3, Table 1). Among the resources are 10 dwellings, a wagon shed, a church/chapel, and a school. The resources range in date from the late-eighteenth century to the mid-twentieth century. VDHR #055-0003, Flat Rock, a circa 1780 farmhouse, is additionally listed in the National Register of Historic Places (NRHP) (NRHP; reference number 79003051) and the Virginia

Landmarks Register (VLR). VDHR #055-5132 (Good Hope Christadelphian Chapel) has been determined to be eligible for inclusion in the NRHP.

Two resources are located partially within the project area. These resources include: VDHR #055-5132 (Good Hope Christadelphian Chapel) and VDHR #055-5138 (Samuel A. Wallace, Jr. House). As mentioned above, VDHR #055-5132 (Good Hope Christadelphian Chapel) has been determined to be eligible for inclusion in the NRHP and VDHR #055-5138 has been determined to not be eligible for inclusion in the NRHP.

As demonstrated in Figure 4, the project area excludes the majority of VDHR #055-5132 and VDHR #055-5138 (Figure 4). Likewise, VDHR #055-0117 is located within a parcel which is excluded from the project area, as shown in Figure 5 (Figure 5).

Table 1. Previously identified architectural resources located within 0.5 mile of the project area.[1]

VDHR ID#	Property Name	NRHP Eligibility Status	Type	Year
055-5139	Charles E. Wallace House (Current)	DHR Staff: Not Eligible	Single Dwelling	1955a
055-5138	**Samuel A. Wallace, Jr., House (Current)**	**DHR Staff: Not Eligible**	**Single Dwelling**	**1953**
055-5140	Wagon shed (Descriptive)	DHR Staff: Not Eligible	Wagon Shed	1925Ca
055-0028	Bell House (Historic/Current), Colonial Oaks (Historic), Eddie Bell Place (Descriptive)	<Null>	Single Dwelling	1825Ca
055-5133	House on Route 655 (Function/Location), Wathall House (Historic)	DHR Staff: Not Eligible	Single Dwelling	1860Ca
055-5132	**Good Hope Christadelphian Chapel (Historic)**	**DHR Staff: Eligible**	**Church/Chapel**	**1825Ca**
055-0117	Oral Oaks (Historic/Current)	<Null>	Single Dwelling	1840
055-0011	Laurel Branches (Historic)	<Null>	Single Dwelling	1790Ca
055-0155	House, Route 637 (Function/Location)	DHR Staff: Not Eligible	Single Dwelling	1870Ca
055-5105	Unity School (Historic)	<Null>	School	1873
055-5131	Lone Oak (Historic)	<Null>	Single Dwelling	1810Ca
055-0003	Flat Rock (Historic/Current), Kenrock (Historic/Current), Old Bagley House (Historic), Prospect Hill (Historic)	NRHP Listing, VLR Listing	Single Dwelling	1780Ca
055-5130	Bridgforth, Washington Maddux House (Historic), Oak Forest (Historic/Current)	<Null>	Single Dwelling	1936

1 Resources highlighted in orange are eligible for listing in the NRHP or have a NRHP and VLR listing. Bolded resources are partially within the project area boundary.

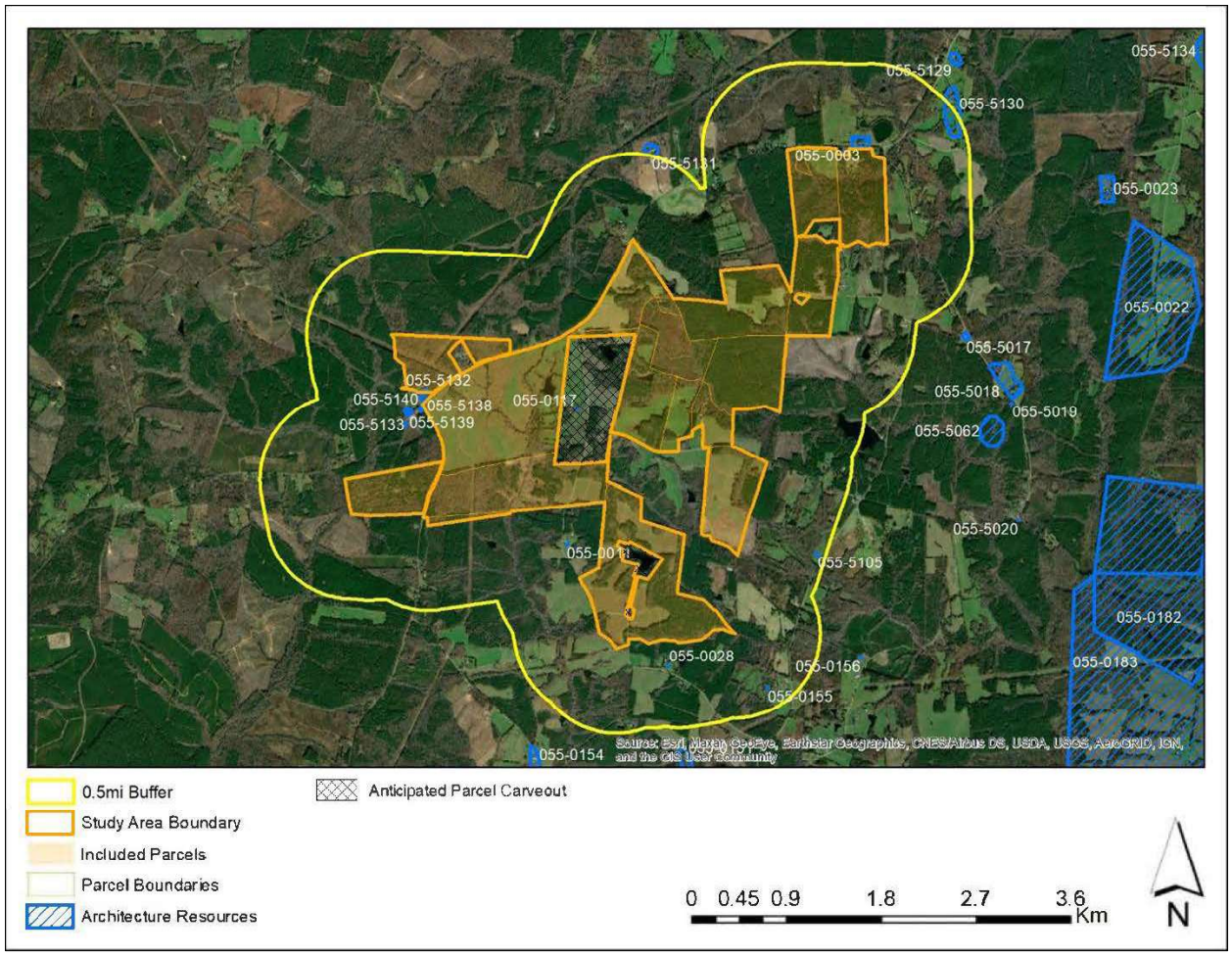

Figure 3. Map detailing all architectural resources (blue hatched) within 0.5 mile (yellow) of the project area (orange). Source: VCRIS 2022.

Figure 4. Detail of architectural resources (blue hatched) which are partially within the project area (orange). Source: VCRIS 2022.

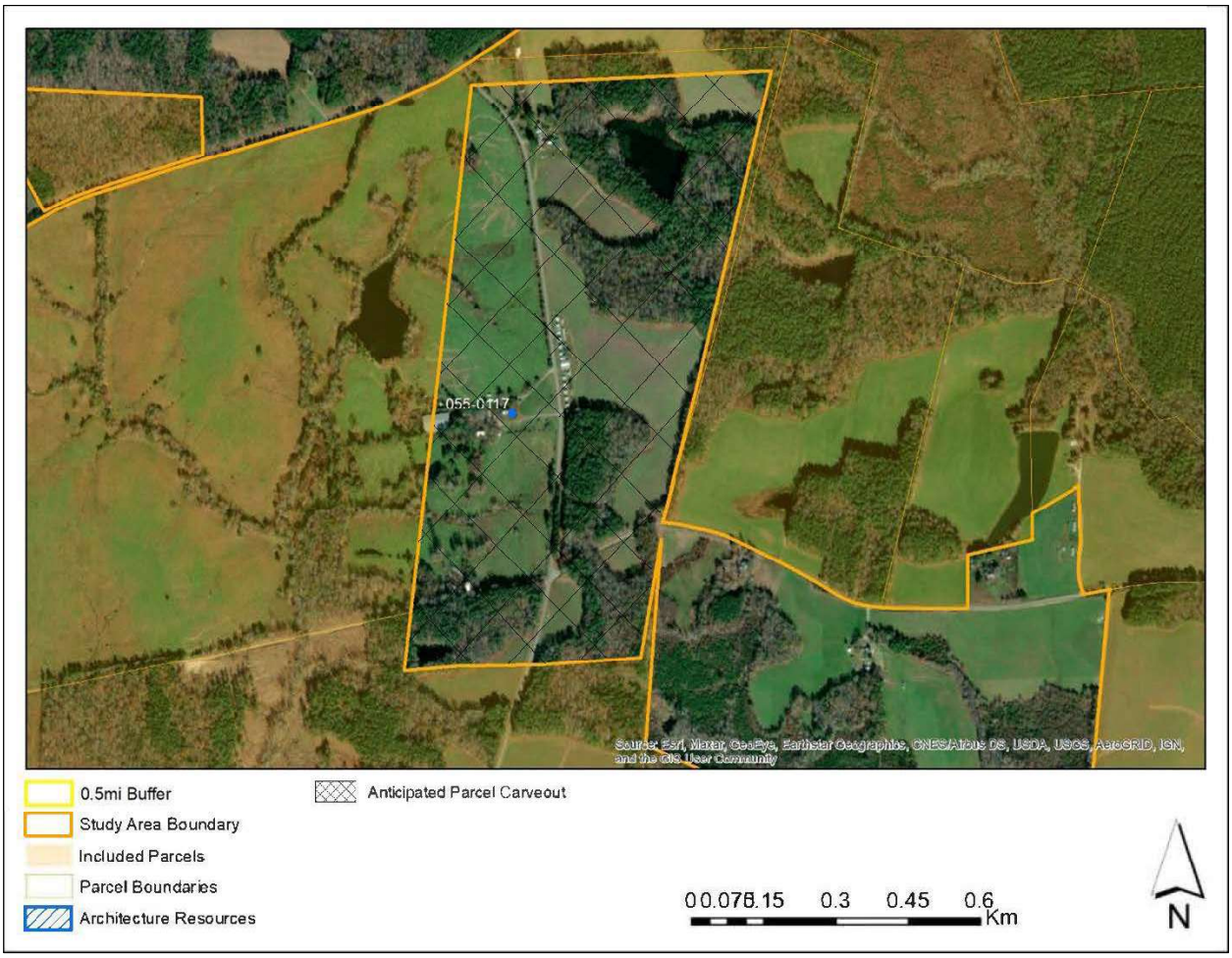

Figure 5. Detail of the proposed carved out area in which VDHR #055-0117 is located. The orange outlined proposed carved out area is not included within the project area. Source: VCRIS 2022.

5.0 RECOMMENDED NEXT STEPS

Preparation of a Phase IA cultural resources assessment (Phase IA), including a research design to guide a subsequent Phase I identification survey, is recommended for the Laurel Branch Solar Project area. The Phase IA should include further consideration of site soils, historic maps, and existing field conditions and result in the development of a stratified testing strategy for identifying archaeological resources within the project area. The completed Phase IA should be submitted to the VDEQ and VDHR for review and comment prior to initiation of Phase I identification survey of the site in accordance with the recommended testing strategy.

ATTACHMENT D: VISUAL IMPACT ASSESSMENT

Visual Impact Assessment

Laurel Branch Solar Project

March 3, 2022

Prepared for

Dominion Energy®

600 E Canal Street
Richmond, VA 23219

Prepared by

TETRA TECH

4101 Cox Road, Suite 120
Glen Allen, VA 23060

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Acronyms and Abbreviations

AC	alternating current
CUP	Conditional Use Permit
DC	direct current
KOP	key observation point
Project Area	the approximately 1,969 acres of privately-owned land where the proposed Project is located
Project	Laurel Branch Solar Project
Tetra Tech	Tetra Tech, Inc.
USGS	U.S. Geological Survey

1.0 OVERVIEW

Dominion Energy Virginia (Dominion) is proposing to develop a commercial solar energy project, Laurel Branch Solar Project (Project), on private land encompassing approximately 1,969 acres. The Project will be located along Sneads Store and Laurel Branch Roads in Lunenburg County, Virginia (Project). The Project Area consists of predominantly rural undeveloped and agricultural or timber production land. The Project Area is shown on the orthoimagery and U.S. Geological Survey (USGS) Project location maps (Figures 1 and 2).

The Project is located in a rural setting, southwest of Kenbridge, Virginia, (pop. 1,188 in 2021 [World Population Review 2022]) between VA 655 (Plank Road) and VA 637 (Craig Mill Road). The Project extends to the north and south of VA 647 (Sneads Store Road).

The predominant landcover of the Project Area is agricultural fields (forage/hay and pine timber production dominate) interspersed with large patches of mixed pine and deciduous forest and populated by isolated rural residences. Crooked Creek and numerous small ponds are also present in the Project Area.

The Project will consist of solar arrays and associated infrastructure, consisting of the following components:

- A solar field of photovoltaic panels producing direct current (DC) electricity mounted on solar module racking systems and foundations;
- Inverters within boxes on concrete pads situated amongst the solar arrays to convert DC electricity to alternating current (AC) electricity;
- A voltage cable collection system that will extend underground to aggregate the AC output from the inverters;
- A small internal substation that will feed the collected power to the existing electric grid; and
- Internal infrastructure including permanent paved and gravel access roads and security fencing.

Tetra Tech, Inc. (Tetra Tech), on behalf of Dominion, prepared this Visual Assessment to support the Laurel Branch Solar Project Conditional Use Permit (CUP) application.

2.0 METHODOLOGY

The Project Visual Study Area was defined as the area within 2 miles of the Project. Refer to Figures 1 to 3. No visual study area distance is prescribed by Lunenburg County ordinances or CUP documentation; therefore, the 2-mile radius was deemed appropriate by the authors to identify locations from which the Project components (i.e., solar arrays) could potentially be visible and noticeable to the casual observer, categorized according to their activity. The “casual observer” is considered an observer who is not actively looking or searching for the Project facilities, but who is engaged in activities at locations with potential views of the Project, such as walking or hiking along a trail or driving along a road. If the Project components are not noticeable to the casual observer, or if

resources in the Visual Study Area are not managed for visual quality, visual impacts can be considered minor to negligible.

A preliminary viewshed analysis was completed to identify Project visibility. A viewshed analysis is a graphic representation of the theoretical seen and unseen areas adjacent to the Project based on topography within the Visual Study Area. The viewshed analysis was conducted using the Google Earth Viewshed tool with a height of the solar arrays above ground surface (10 feet with the panels of the solar array standing vertically). The viewshed assumed "bare earth" conditions and was run from multiple points around the edges and in the middle of the Project to roughly determine areas with potential visibility. Given the limited views with the bare-earth analysis, it was determined that a viewshed accounting for vegetation was not required because it would not identify many more areas other than what is visible on aerials and the photography, and that the field visit would best determine actual areas of visibility.

A review of potential visual resources within the Visual Study Area was also conducted and included, but was not limited to, travel routes, recreation areas, local community resources (e.g., schools, parks, places of worship), and other scenic resources. No specific locations or resources within the Visual Study Area were identified as specifically managed for scenic quality. After review of potentially sensitive visual resources in the Visual Study Area, 13 key observation points (KOPs) were identified from which to potentially develop photographic simulations. The inventory considered 1) the most critical viewpoints (i.e., views from communities, residential areas, travel routes, and recreational areas), and 2) views that best represent the general area or landscape setting including anticipated views of the Project. KOPs were selected to represent typical views of residents, travelers, and recreationalists, primarily from public roads through and adjacent to the Project Area, because these routes would provide the most typical opportunities for views. Following KOP selection, fieldwork was conducted in January 2022 to collect site photography from each identified KOP location. Technical photographs from the field visit are included in Appendix A.

2.1 Evaluation of Solar Facilities Within the 2-Mile Buffer

Desktop research was conducted on existing and proposed solar facilities within the Visual Study Area No proposed or existing solar collection projects were identified within the Visual Study Area, based on an evaluation within the Virginia Department of Environmental Quality records (Virginia Department of Environmental Quality 2022).

2.2 Viewer Groups

Following KOP identification, viewer groups were identified to understand the types of receptors in this area. Viewer groups are specific users associated with various land uses who have unique expectations based on their activity and who could notice and could be impacted by landscape change, and therefore could be adversely affected by the construction and operation of the Project.

As described above, viewing locations are selected based on the results of the viewshed analysis, land uses, and viewer groups associated with key travel routes, recreation areas, and residential areas. KOPs represent critical or typical viewpoints within a land use and associated view group used to assess the visual effect of a proposed project. The visual impact to viewers at each KOP is based on

the type of use and expected concern for aesthetics. Identifying groups of individuals who would likely be perceptive to visual changes is an important part of the visual assessment process and helps to define specific locations from which to assess changes to the visual character of the landscape.

2.3 Residents

The residential viewer group consists of people who live within the 2-mile buffer area of the Project. Many local residents are present on a year-round basis. Generally, they view the landscape from their homes, yards properties, and from places of employment while engaged in daily activities. Residents of primary interest for this analysis are located near the Project that may have views of the Project components. KOPs 2, 12, and 13 were selected, in part, to represent views from residences within proximity to the Project.

Regardless of their proximity to the Project, residents may have similar reactions to views of the Project facilities. Residents' threshold for visual quality can be variable and may be tempered by the visual character and setting of their area. It is assumed that residents are generally familiar with the local landscape and may not be tolerant of changes to views that are important to them.

2.4 Commuters/Travelers

Travelers passing through an area typically view the landscape from motor vehicles on their way to work, errands, or other destinations. Travelers include daily commuters and people engaged in various types of business or personal travel. Commuters traveling within the 2-mile buffer view the landscape from motor vehicles on their way to work or other business and service destinations. Commuters do not tend to stop along their travel routes, have a relatively narrow field of view because they are focused on road and traffic conditions, and are destination oriented.

Commuters may be more likely to notice visual change because they view this environment regularly. Passengers in commuter vehicles would have greater opportunities for prolonged off-road views toward landscape features and, accordingly, may have greater perception of changes in the visual environment. Roads in and around the Project are primarily rural, narrow, and unpainted roads. All KOPs selected for this analysis are located along public roads traversing through or adjacent to the Project Area.

2.5 Tourists and Recreational Users

This viewer group includes local and potentially seasonal residents engaged in recreational activities, and tourists and recreational users visiting from outside the local area. Viewers in this group can also be tied to both traveler and residential, depending on the type of recreation.

Relevant recreation activities in Lunenburg County include hunting, fishing, canoeing, and cycling, among others. Hunting of deer, turkey, and bear is popular in forested areas surrounding the Project Area. Cycling is also available: VA 635 (Oral Oaks Road) is part of U.S. Bicycle Route 1, which is a designated route connecting public roads from Maine to Florida.

Recreational users' perception of visual quality and landscape character is variable, depending on their reason for visiting the area and expectations for their experience. For some recreational viewers,

scenery is a very important part of their recreational experience, and recreational users often have continuous views of landscape features over relatively long periods of time. Recreators are generally considered to be highly perceptive to changes in scenic quality and landscape character.

2.6 Key Observation Points and Photo Simulations

13 KOPs were identified to evaluate potential effects from which to conduct fieldwork and capture site photography. Fieldwork was conducted in January 2022. Following the fieldwork and an analysis of Project visibility, five simulation locations were selected to illustrate views of the landscape following the Project installation. KOPs selected for simulations were evaluated to determine if the Project would be visible and the context that view would be in. Table 1 shows a summary of the 13 identified KOPs, and the KOPs are mapped on Figure 3. Of the 13 identified KOPs, five were found to have no views of the Project due to distance to Project elements, intervening forest or topography, or a combination of these factors.

Appendix A includes photos of existing conditions and photo simulations from KOPs 1, 2, 3, 12, and 13. KOP location 11 was determined to be inaccessible during the field reconnaissance and therefore, no photographs are included for this KOP. Appendix B shows the photography captured at each of the remaining 12 viewing locations visited in the field.

Table 1. Key Observation Points

KOP No.	Name	Viewing Direction	Distance to Nearest Project Element	Primary Viewer Group(s)	Visibility[1]
01 [2]	Oral Oaks Road/VA 635/U.S. Bicycle Route 1	East	350 ft.	Commuters/Travelers; Tourists/Recreationalists	+
02 [2]	Plank Road near Flat Rock Historic Site	Southwest	1,140 ft.	Residents; Commuters/Travelers	+/-
03 [2]	Laurel Branch Road, South	Northwest	320 ft.	Commuters/Travelers	+
04	Plank Road, South	Northeast	500 ft.	Commuters/Travelers	-
05	Sneads Store Road, East A	West, Southwest	595 ft.	Commuters/Travelers	-
06	Laurel Branch Road, North	East	450 ft.	Commuters/Travelers	+
07	Sneads Store Road, West	North, Northeast	450 ft.	Commuters/Travelers	+/-
08	Craig Mill Road/VA 637	West	1,050 ft.	Commuters/Travelers	-
09	Plank Road, Central	Southeast	690 ft.	Commuters/Travelers	+/-
10	Sneads Store Road, East B	South	260 ft.	Commuters/Travelers	-
11[3]	Hilltop Road	North, South	565 ft.	Commuters/Travelers	-
12 [2]	Oral Oaks Road at Plank Road	East	495 ft.	Residents; Commuters/Travelers	+
13 [2]	Sneads Store Road	North	490 ft.	Residents; Commuters/Travelers	+/-

1 + Visible; - Not Visible; +/- Partially Visible
2 Indicates a photo simulation was prepared for this KOP
3 No photographs are included from this KOP location

2.6.1 KOP 1– Oral Oaks Road/VA 635/U.S. Bicycle Route 1

This viewpoint faces east and is located along Oral Oaks Road/VA 635. It is representative of the commuter/traveler viewer group having foreground views. The existing landscape is characterized by

fairly flat to gently rolling terrain in the immediate foreground (zero to 0.5 mile) and middleground (0.5 to 3 miles). Background views (beyond 3 miles) are screened by dense mixed woods and a low hillside. While most outward-looking views from VA 635 are limited by dense woods on either side of the road, KOP 1 has open views to the east across an agricultural field covered by coarse dry grass. Oral Oaks Road is a narrow, unstriped road, and an existing overhead utility line follows the roadway corridor to the west. A wire fence with rustic wood fenceposts can be seen in the foreground, and another transmission line is seen in the distance.

This portion of VA 635 is also a designated segment of U.S. Bicycle Route 1, which was established by the American Association of State Highway and Transportation Officials in 1982 (VDOT 2019). Currently, the U.S. Bicycle Route 1 route through Virginia is managed by Virginia Department of Transportation in partnership with local governments and cycling advocates. In addition to low traffic volumes, low posted speeds and access to services, unique natural and cultural scenery is a common feature for route designation (U.S. Task Force on Numbered Bicycle Routes 2006). The existing condition and a photo simulation illustrating with-Project conditions from KOP 1 are included in Appendix A.

Despite the open view seen from the KOP 1 location, where the Project would be briefly visible to passersby, most of the Project along Oral Oaks Road would be screened by evergreen vegetation, as demonstrated by Inset 1, from Google Maps, captured just south of the KOP location along Oral Oaks Road. In addition, the Project will maintain a 50-foot vegetation offset from the roadway intended to allow volunteer vegetation to grow to further screen views of the Project from the roadway.

Inset 1. Image Source: Google Maps

2.6.2 KOP 2 – Plank Road Near Flat Rock Historic Site

This viewpoint faces southwest and is located along the northern Project boundary, off Plank Road/VA 655, west of the intersection with Craig Mill Road. It primarily represents views seen by commuters/travelers. This KOP was selected to consider visual effects in proximity of a listed site on the National Register of Historic Places: Flat Rock (NRHP Ref. Number 79003051), a home constructed in the late eighteenth century (Virginia Department of Historic Resources 2020). However, this analysis does not intend to specifically evaluate impacts to historic or cultural resources, including Flat Rock. Fieldwork conducted for this analysis confirmed that existing dense pine woodlands south of Plank Road screens views of the Project from the historic site.

The landscape surrounding KOP 2 is characterized by undulating topography and a mosaic of open agricultural fields and dark, dense mixed woodlands and hedgerows. Like Oral Oaks Road, Plank Road is a narrow, unstriped roadway, and an overhead utility transmission line parallels the roadway to the south. A small residence and an outbuilding can be seen from KOP 2. The existing condition and a photo simulation illustrating with-Project conditions from KOP 2 are included in Appendix A.

Along Plank Road, the same 50-foot vegetation offset as described for KOP 1 will be applied, allowing for vegetation to grow naturally between the roadway and the Project. As shown by Inset 2, captured near the KOP 2 location, a rise in topography naturally screens views from Plank Road into the field where the panels will be installed, and vegetation will be allowed to establish in the offset beyond the existing slope, further screening views from the roadway.

Inset 2. Image Source: Google Maps

2.6.3 KOP 3 – Laurel Branch Road, South

This viewpoint faces northwest and is located along Laurel Branch Road, in the southern portion of the Project Area. It primarily represents views seen by commuters/travelers with foreground views, although more forest can be seen in the distance.

The landscape surrounding KOP 3 is characterized by flat topography and open pastures, with a backdrop of dense mixed woodlands and cultivated stands of pine trees. Laurel Branch Road is a narrow, unstriped roadway, passing between open fields to the north and south at this location. An existing overhead utility line is partially visible to the north. The existing condition and a photo simulation illustrating with-Project conditions from KOP 3 are included in Appendix A.

No vegetation offset within the Project is proposed at KOP 3, due to existing utilities present next to Laurel Branch Road. However, no residences or visually sensitive resources were identified nearby which would have this view; it would be seen briefly by travelers using the roadway.

2.6.4 KOP 12 – Oral Oaks Road at Plank Road

This viewpoint faces northeast and is located off Plank Road, just east of the intersection with Oral Oaks Road at the western edge of the Project Area. It primarily represents views seen by residents (several residences are clustered nearby) and commuters/travelers of Plank Road.

The landscape surrounding KOP 12 is also characterized by level topography in the foreground and a mosaic of open agricultural fields and dark, dense mixed woodlands on the low hills in the distance. Like other roads in the Project Area, Plank Road is a narrow, unstriped roadway, and an overhead utility transmission line passes within view from this location. A wire fence with round wood posts and some young evergreen trees can be seen paralleling the road to the north. The existing condition and photo simulation illustrating with-Project conditions from KOP 12 are included in Appendix A.

Similarly, to viewing conditions at KOP 1, much of the Project along Plank Road would be screened from view by existing roadside vegetation, and existing young evergreen trees are seen in the KOP photos. In addition, the 50-foot vegetation offset would be applied for the entirety of the Project in this area along Plank Road to allow for natural attenuation for vegetative screening.

2.6.5 KOP 13 – Sneads Store Road

KOP 13 faces north and is located along Sneads Store Road, centrally positioned within the Project Area. It primarily represents views seen by residents with middleground views (two rural residences are located south of Sneads Store Road) and commuters/travelers with foreground views. Like other roads in the Project Area, Sneads Store Road is a narrow, unstriped roadway, and is primarily used for local access.

The landscape shown in KOP 13 is characterized by gently rolling topography in the foreground comprised of an open field and a small pond, and dark, dense mixed woods beyond. A dirt vehicle track and utility pole can be seen to the east. The existing condition and photo simulation illustrating with-Project conditions from KOP 13 are included in Appendix A.

As described for the other KOP locations above, the Project area near KOP 13 would also have the 50-foot vegetation offset applied to allow vegetation to naturally establish between Sneads Store Road

and the Project. Over time, the open views shown in the simulation would be partially to fully screened by vegetation.

3.0 CONCLUSIONS

As illustrated by the photo simulations, the Project would introduce a series of low vertical, geometric elements that are gray in color (e.g., solar panel arrays, fencing) into a rolling terrain landscape dominated by green or golden agricultural fields and large patches of dense trees. The solar arrays would vary in size across the Project Area: from less than 10 acres to more than 80 acres. In most cases, large swathes of mixed forest would surround the arrays, screening many viewing opportunities. However, as represented by the photo simulations, some arrays situated in open fields would be briefly visible to passing motorists (or cyclists, pedestrians) from roadways. Refer to photo simulations created for KOPs 1, 2, 3, 12, and 13 in Appendix A.

Visual impacts would vary depending on several factors, such as the distance of the viewer from the Project, whether the viewer is stationary or in motion, and whether views toward the Project are unobstructed or screened by vegetation, topography, or existing structures. Project views can be very different from one location to another, including in proximity, because of the rolling terrain and dense vegetation. In all cases, the Project would be located 200 feet or more from public roadways, limiting viewing opportunities. In very limited instances where arrays are positioned at a slightly higher elevation than the viewer, such as a driver on a roadway, the panels are seen protruding above the background forest. In such instances, the panels could be perceived as more visually impactful compared to when they are viewed below background vegetation, because the panels would become more dominant in the landscape from such viewpoints.

Public roadways adjacent to the Project would offer the most common opportunities for views. Viewers in proximity to the Project may have brief unobstructed or partially screened views (primarily along Plank, Sneads Store, and Laurel Branch roads). Most panels and fencing would be placed in existing open agricultural fields; however, some patches of forest would be cut and converted to solar arrays. While removal of woodlands would create new viewsheds within the Project Area, this is consistent with the existing practice in this area of cultivated pine forests removed for timber.

Commuters and travelers moving along roadways adjacent to or passing through the Project would have limited intermittent views of arrays. For example, a motorist or cyclist traveling south on Plank Road may briefly see a solar array surrounded by fencing to the south, but the view would quickly pass again to a forested roadside or open pasture. No views of the Project were found from Craig Mill Road/VA 637, the primary north-south route to or from Kenbridge, because of dense forest present between the highway and the Project.

Few residences would have views of the Project because of dense vegetation surrounding most of the arrays. It is anticipated that views of the Project from surrounding communities (e.g., Kenbridge, located more than 2 miles to the northwest) would be screened by vegetation, topography, and existing development.

Tourists and recreationalists would most commonly experience views from the same locations as travelers—from roadways adjacent to and traversing through the Project Area. Cyclists following U.S. Bicycle Route 1 along Oral Oaks Road/VA 635 would observe solar arrays, partially to well-screened by roadside vegetation, to the east near the intersection with Plank Road. Refer to the photo simulation for KOP 1 in Appendix A. From locations along Oral Oaks Road where the Project could be seen, it would present an opportunity for cyclists to view a unique type of working landscape and does not conflict with the stated goals or objectives of the cycling route.

4.0 REFERENCES

U.S. Task Force on Numbered Bicycle Routes. 2006. Corridor and Route Criteria for U.S. Bike Route System. Accessible at: https://www.adventurecycling.org/sites/default/assets/File/USBRS/USBRSCorridorCriteria.pdf. Accessed January 25, 2022.

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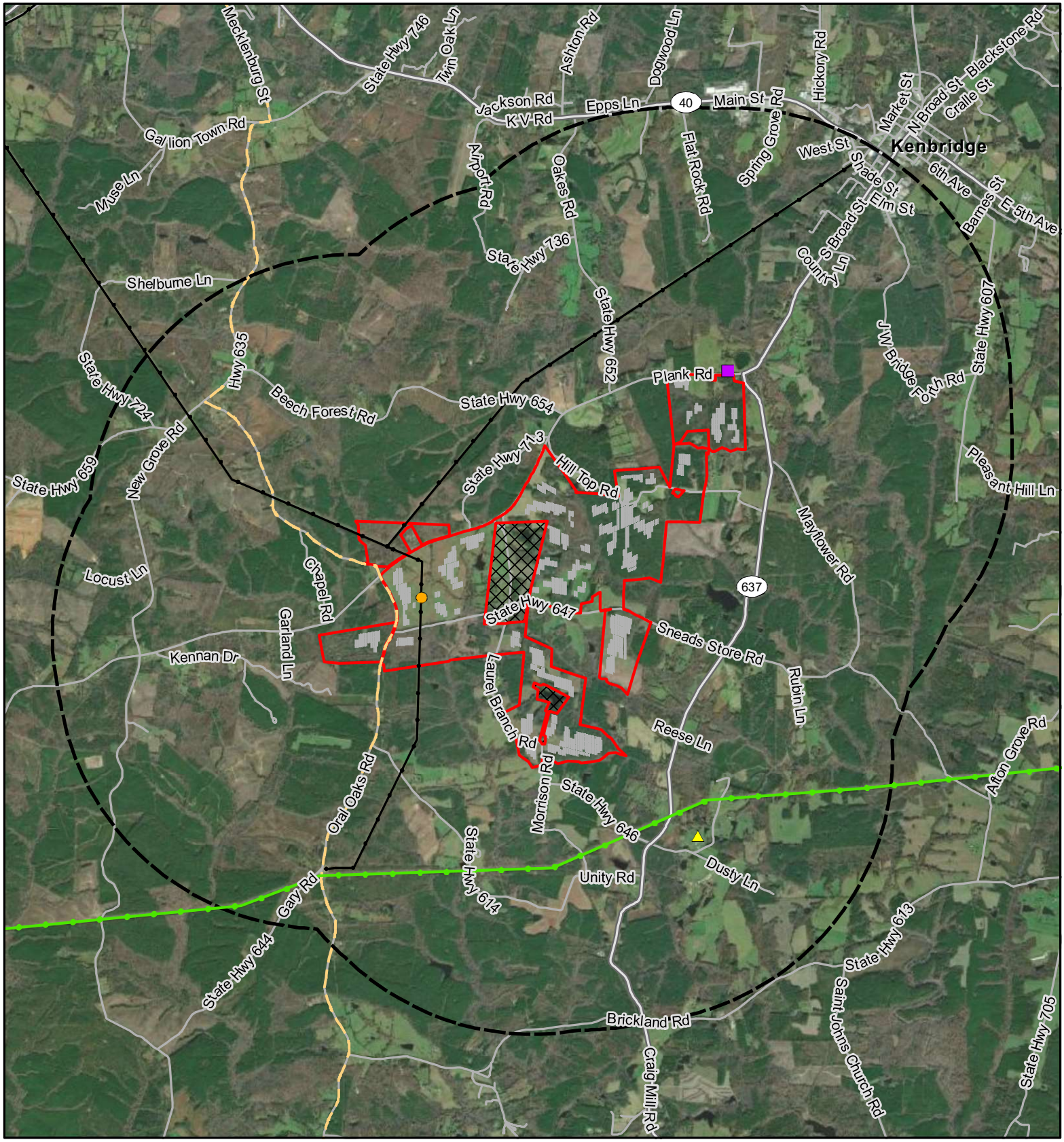
FIGURES



Site Boundary
Anticipated Parcel Carve Out
2-mile Visual Study Area
Solar Arrays
Proposed Substation

Existing Transmission Infrastructure
115 kV Transmission Line
500 kV Transmission Line

Transportation Infrastructure
State Route
State Highway/Local Road

Visual Resources
National Register of Historic Places
Place of Worship
US Bicycle Route

N

0 2,000 4,000
Feet

Source: ESRI/Vivid Imagery (2020), EIA, NRHP

NOT FOR CONSTRUCTION

TETRA TECH

Figure 1
Orthoimagery
Project Location Map

Laurel Branch Solar Project
Lunenburg County, Virginia

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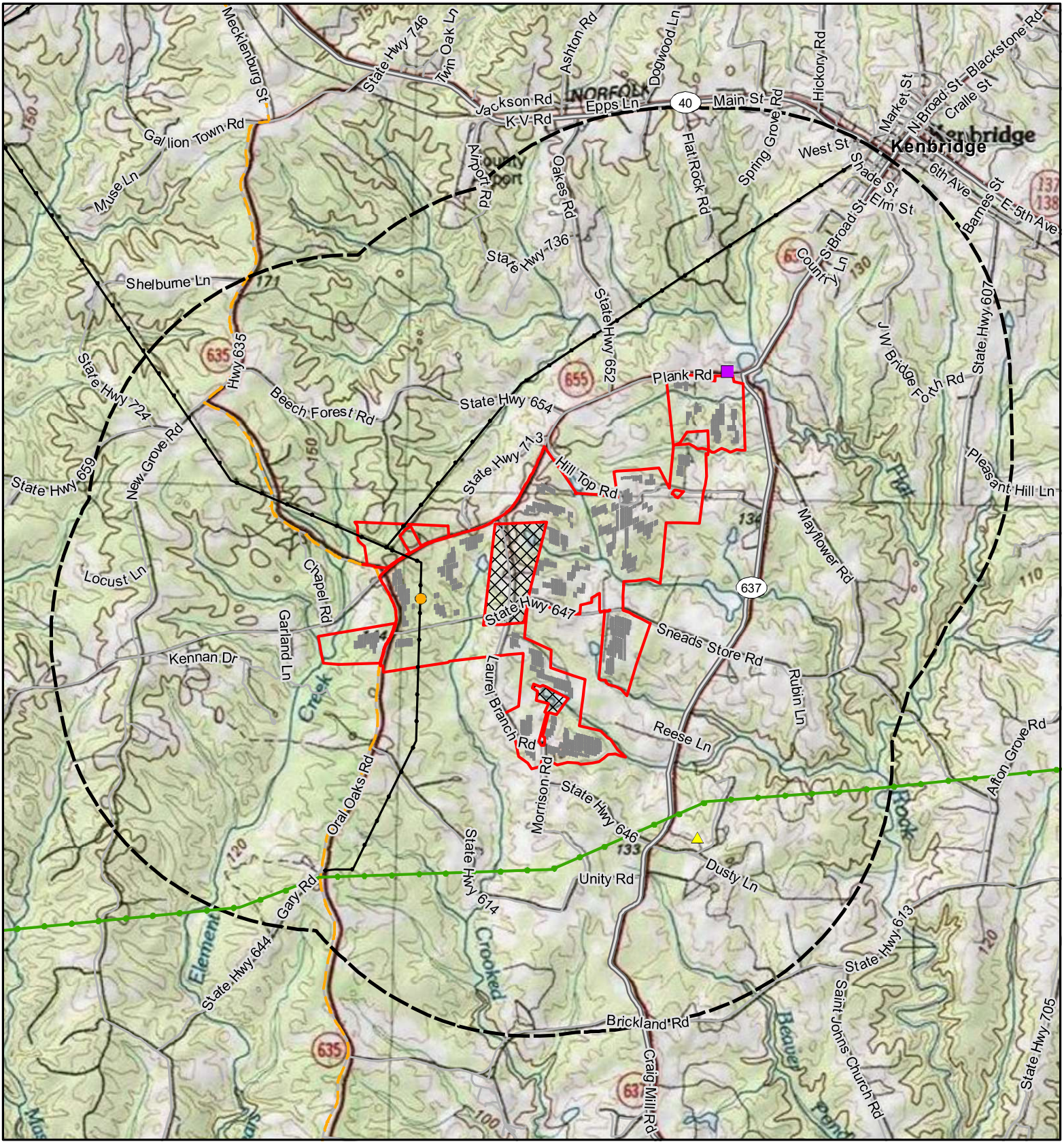
Site Boundary
Anticipated Parcel Carve Out
2-mile Visual Study Area
Solar Arrays
Proposed Substation
Existing Transmission Infrastructure
115 kV Transmission Line
500 kV Transmission Line
Transportation Infrastructure
State Route
State Highway/Local Road
Visual Resources
National Register of Historic Places
Place of Worship
US Bicycle Route
N
0 2,000 4,000
Feet
Source: USGS (2020), EIA, NRHP
NOT FOR CONSTRUCTION
TETRA TECH
Figure 2
Topographic
Project Location Map
Laurel Branch Solar Project
Lunenburg County, Virginia
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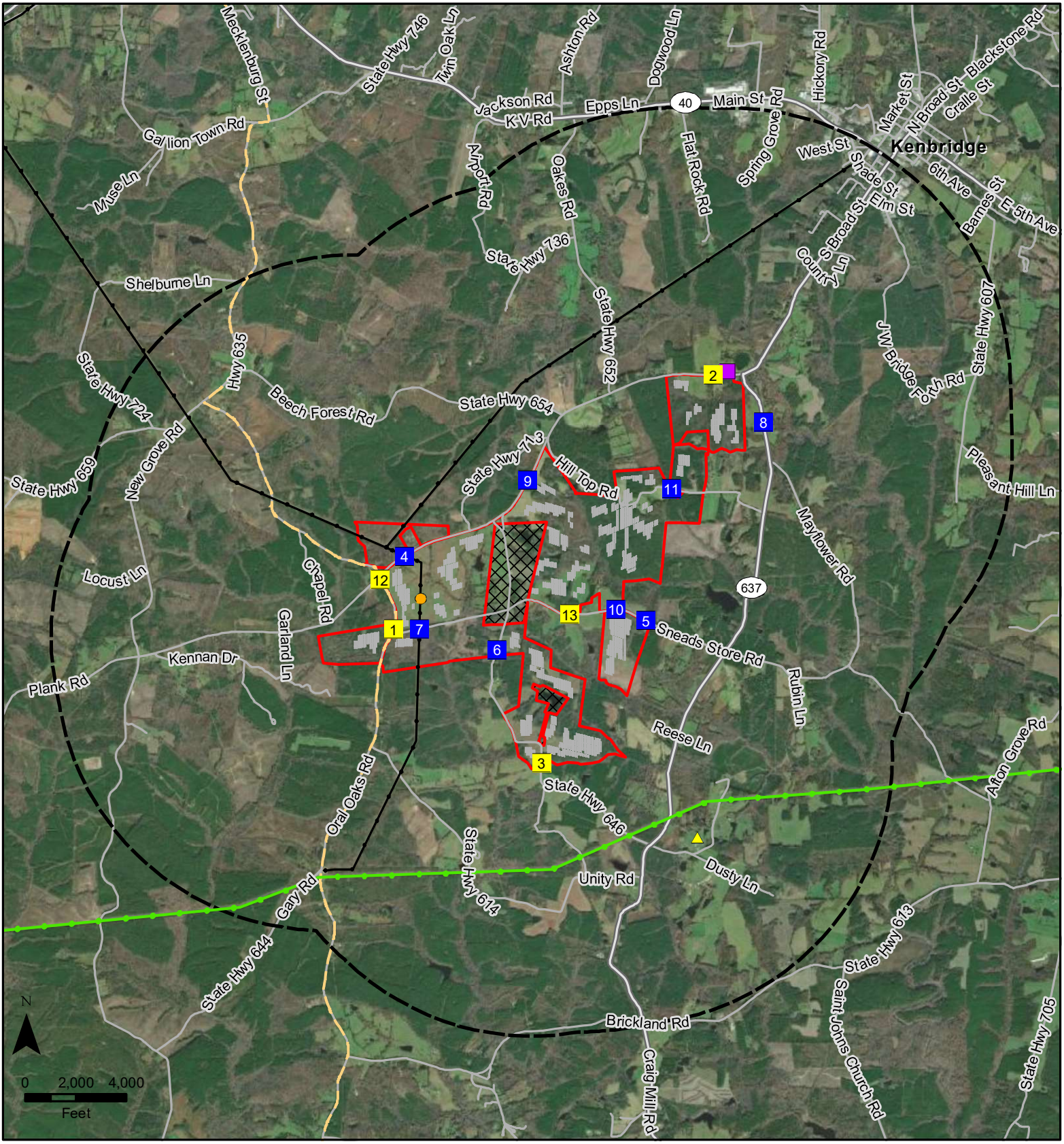

Site Boundary
Anticipated Parcel Carve Out
2-mile Visual Study Area
Solar Arrays
Proposed Substation

Existing Transmission Infrastructure
115 kV Transmission Line
500 kV Transmission Line

Transportation Infrastructure
State Route
State Highway/Local Road

Visual Resources
National Register of Historic Places
Place of Worship
US Bicycle Route

Key Observation Point
Key Observation Point with Photo Simulation

Source: ESRI/Vivid Imagery (2020)

NOT FOR CONSTRUCTION

TETRA TECH

Figure 3
Project Key Observation Point Map

Laurel Branch Solar Project
Lunenburg County, Virginia

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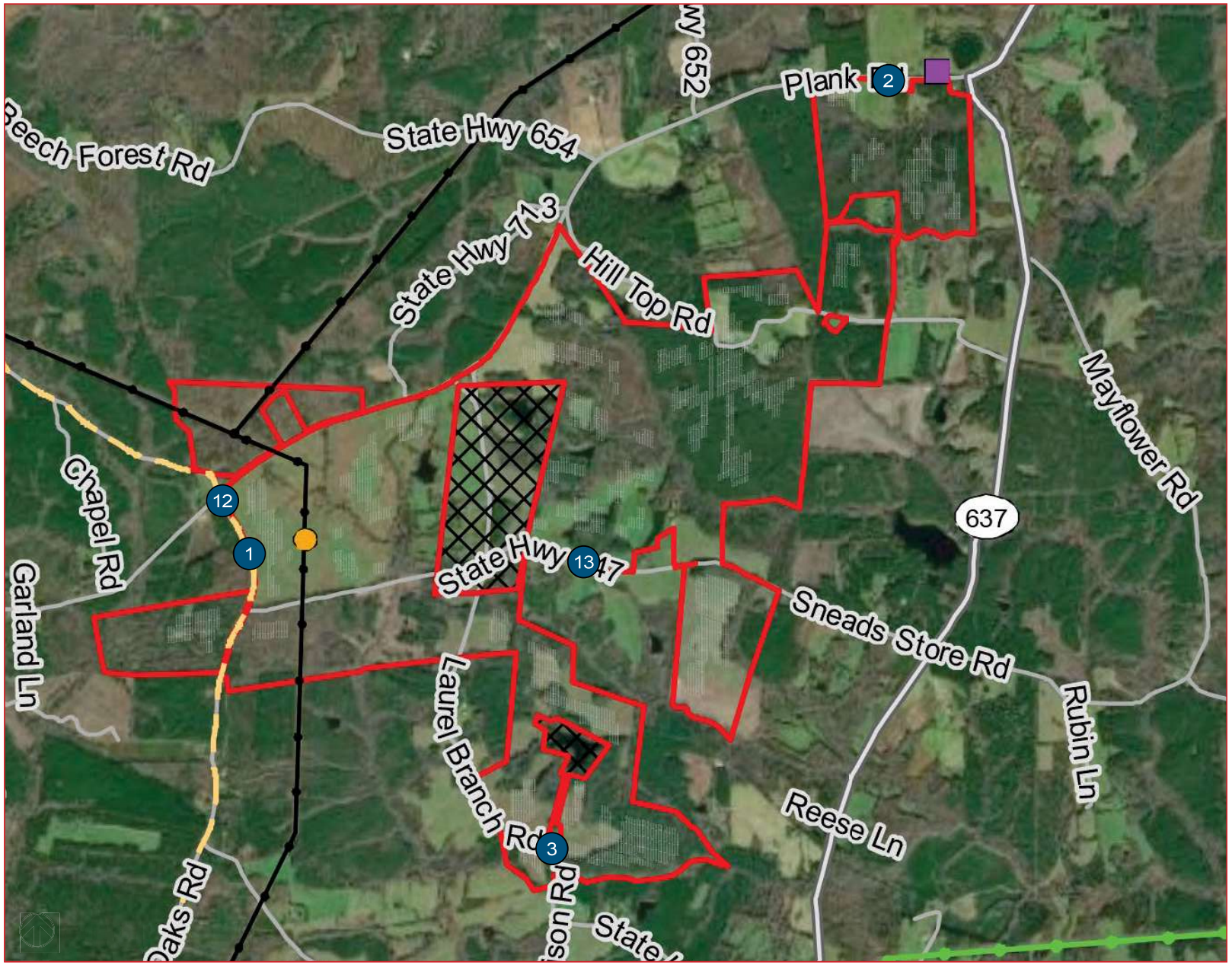
APPENDIX A: PHOTO SIMULATIONS



LAUREL BRANCH SOLAR PROJECT

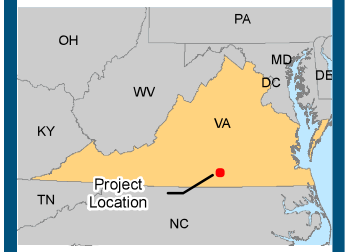
Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point (KOP) Location Map

Legend

- Project Area
- Array Area
- KOP 0
- NRHP Resource



EXISTING CONDITIONS

LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 1
Oral Oaks Road

Photograph Information

Time of photograph:	11:00am
Date of photograph:	1/27/2022
Weather condition:	Clear
Viewing direction:	Northeast
Latitude:	36.912426°
Longtitude:	-78.194235°

Disclaimer: visualizations and plans are for reference only; Not for construction

SIMULATED CONDITIONS

LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 1
Oral Oaks Road

Photograph Information

Time of photograph:	11:00am
Date of photograph:	1/27/2022
Weather condition:	Clear
Viewing direction:	Northeast
Latitude:	36.912426°
Longtitude:	-78.194235°

Disclaimer: visualizations and plans are for reference only; Not for construction

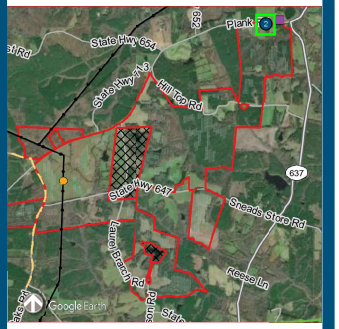
EXISTING CONDITIONS

LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 2
Plank Rd



Photograph Information

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Date of photograph:	1/27/2022
Weather condition:	Clear
Viewing direction:	Southwest
Latitude:	36.937113°
Longtitude:	-78.153391°

Disclaimer: visualizations and plans are for reference only; Not for construction

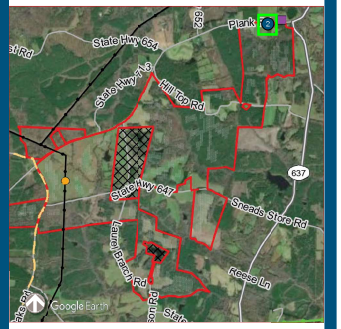
SIMULATED CONDITIONS

LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 2
Plank Rd



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Date of photograph:	1/27/2022
Weather condition:	Clear
Viewing direction:	Southwest
Latitude:	36.937113°
Longtitude:	-78.153391°

Disclaimer: visualizations and plans are for reference only; Not for construction

EXISTING CONDITIONS

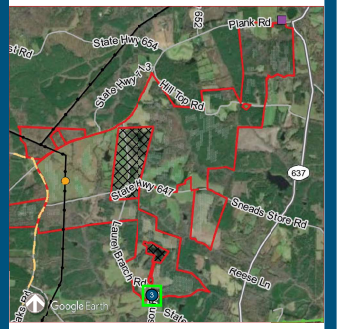
LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 3

Laurel Branch Rd



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Date of photograph:	1/27/2022
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Longtitude:	-78.175162°

Disclaimer: visualizations and plans are for reference only; Not for construction

SIMULATED CONDITIONS

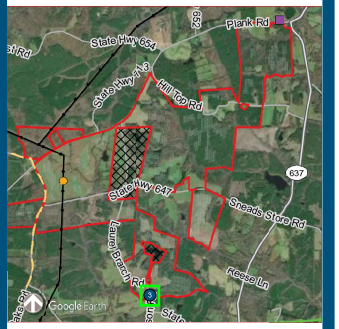
LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 3

Laurel Branch Rd



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Date of photograph:	1/27/2022
Weather condition:	Clear
Viewing direction:	Northwest
Latitude:	36.897475°
Longtitude:	-78.175162°

Disclaimer: visualizations and plans are for reference only; Not for construction

EXISTING CONDITIONS

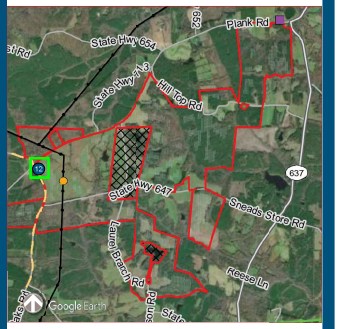
LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 12

Plank Rd & Oral Oaks Rd



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Date of photograph:	1/27/2022
Weather condition:	Clear
Viewing direction:	Northeast
Latitude:	36.915383°
Longtitude:	-78.196065°

Disclaimer: visualizations and plans are for reference only; Not for construction

SIMULATED CONDITIONS

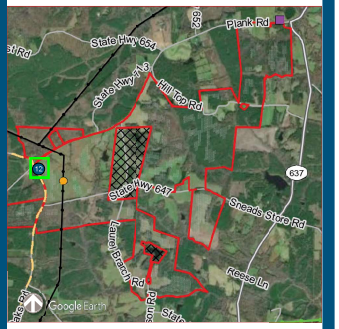
LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 12

Plank Rd & Oral Oaks Rd



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Date of photograph:	1/27/2022
Weather condition:	Clear
Viewing direction:	Northeast
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Longtitude:	-78.196065°

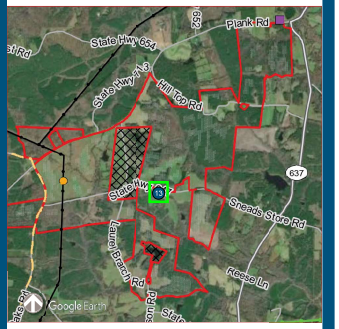
Disclaimer: visualizations and plans are for reference only; Not for construction

LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 13
Sneads Store Rd



Photograph Information

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Date of photograph:	1/27/2022
Weather condition:	Clear
Viewing direction:	North
Latitude:	36.912195°
Longtitude:	-78.173477°

Disclaimer: visualizations and plans are for reference only; Not for construction

EXISTING CONDITIONS

SIMULATED CONDITIONS

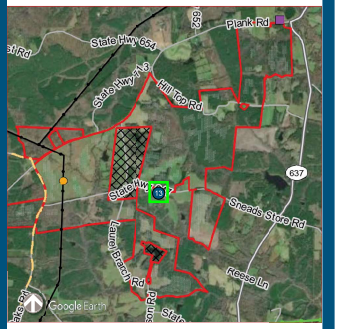
LAUREL BRANCH SOLAR PROJECT

Lunenburg County, VA

PHOTO SIMULATIONS
Option A

Key Observation Point 13

Sneads Store Rd



Photograph Information

Time of photograph:	3:30pm
Date of photograph:	1/27/2022
Weather condition:	Clear
Viewing direction:	North
Latitude:	36.912195°
Longtitude:	-78.173477°

Disclaimer: visualizations and plans are for reference only; Not for construction

APPENDIX B: PROJECT PHOTOLOG

KOP 1: ORAL OAKS ROAD/VA 635/ US BICYCLE ROUTE 1

PHOTO INFORMATION

Date Taken:	1/27/2022
Time:	11:00am
Latitude:	36.9124°
Longitude:	-78.1942°
View Direction:	East

KOP 2: PLANK ROAD NEAR FLAT ROCK HISTORIC SITE

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	4:15pm
Latitude:	36.7051°
Longitude:	-78.0038°
View Direction:	Southwest

KOP 3: LAUREL BRANCH ROAD, SOUTH

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	2:30pm
Latitude:	36.8975°
Longitude:	-78.1752°
View Direction:	Northwest

KOP 4: PLANK ROAD, SOUTH

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	10:45am
Latitude:	36.9177°
Longitude:	-78.193°
View Direction:	Northeast

KOP 5: SNEADS STORE ROAD, EAST A

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	3:00pm
Latitude:	36.9115°
Longitude:	-78.1665°
View Direction:	West, Southwest

KOP 6: LAUREL BRANCH ROAD, NORTH

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	2:00pm
Latitude:	36.9082°
Longitude:	-78.1802°
View Direction:	East

KOP 7: SNEADS STORE ROAD, WEST

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	10:00am
Latitude:	36.9094°
Longitude:	-78.1929°
View Direction:	North, Northeast

KOP 8: CRAIG MILL ROAD/VA 637

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	8:30am
Latitude:	36.9321°
Longitude:	-78.1442°
View Direction:	West

KOP 9: PLANK ROAD, CENTRAL

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	12:30pm
Latitude:	36.9275°
Longitude:	-78.1749°
View Direction:	Southeast

KOP 10: SNEADS STORE ROAD

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	3:15pm
Latitude:	36.9116°
Longitude:	-78.1657°
View Direction:	South

KOP 12: ORAL OAKS ROAD AT PLANK ROAD

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	11:50am
Latitude:	36.9156°
Longitude:	-78.1961°
View Direction:	East

KOP 13: SNEADS STORE ROAD

PHOTO INFORMATION

Date Taken:	01/27/2022
Time:	3:30pm
Latitude:	36.9122°
Longitude:	-78.1735°
View Direction:	North

TAB G

Preliminary Site Plan

LAUREL BRANCH SOLAR PROJECT
CONDITIONAL USE PERMIT SITE PLAN
PRELIMINARY - NOT FOR CONSTRUCTION

LUNENBURG COUNTY, VIRGINIA

MARCH 2022

SITE METRICS TO INCLUDE	ACRES
TOTAL PROPERTY ACRES	1,969.4
ESTIMATED ACRES WITHIN FENCE	499
WETLAND ACRES	630
LANDSCAPE BUFFER ACRES	124.7
APPROXIMATE NUMBER OF MODULES	190,998
ESTIMATED ACRES USED FOR SOLAR PANELS	270
ACRES TO BE DISTURBED	720
ESTIMATED FORESTED ACRES WITHIN LOD	399
ESTIMATED AGRICULTURAL ACRES WITHIN LOD	108
ESTIMATED FORESTED ACRES WITHIN FENCE	256
ESTIMATED AGRICULTURAL ACRES WITHIN FENCE	86
INVERTER SIZE	840 kW
INVERTER QUANTITY	100
AC CAPACITY	80 MW
DC CAPACITY	101.2 MW
LF OF FENCE	119,133
LF OF ROAD	40,625

DRAWING INDEX

No.	Name	APN	Address	ZONING	Acreage	SHEET LOCATION
1	Dixie Lee Farms Inc	058-0A-0-68	121 Laurel Branch Road	AGRI	83.8	CP101, CP103
2	Dixie Lee Farms Inc	058-0A-0-69	Null (owner address: 464 Laurel Branch Road)	AGRI	2.0	CP101
3	Dixie Lee Farms Inc	058-0A-0-68	464 Laurel Branch Road	AGRI	381.9	CP101, CP102, CP103, CP104
4	Campbell, James M. and Wanda S.	058-0A-0-5A	Null (owner address: 10663 Plank Road)	AGRI	80.0	CP102
5	Dixie Lee Farms Inc	058-0A-0-54	Null (owner address: 464 Laurel Branch Road)	AGRI	191.7	CP102, CP104
6	Dixie Lee Farms Inc	058-0A-0-56B	Null (owner address: 464 Laurel Branch Road)	AGRI	9.0	CP102, CP104
7	Dixie Lee Farms Inc	046-0A-0-20	Null (owner address: 464 Laurel Branch Road)	AGRI	81.5	CP103
8	Wrenn, Mark E. or Robin Gunn	046-06-0-2	11668 Plank Road	AGRI	5.0	CP107, CP108
9	Wrenn, Robin G. or Mark Edwin	046-06-0-1	Null (owner address: 121 Laurel Branch Road)	AGRI	58.7	CP103, CP104, CP106, CP107
10	Long, Johnny K.	058-0A-0-67	Null (owner address: 3502 Laurel Branch Road)	AGRI	105.0	CP103, CP104
11	Long, Ronald E.	059-0A-0-1	1663 Sneads Store Road	AGRI	35.7	CP107
12	Dixie Lee Farms Inc	058-0A-0-63	Null (owner address: 464 Laurel Branch Road)	AGRI	259.8	CP104, CP108
13	Richard, Hite T.	047-04-0-13	12052 Plank Road	AGRI	137.0	CP106
14	Lindberg, Stephen P. or Wendy A.	059-0A-0-1A	Null (owner address: PO Box 396, Chesterfield, VA 23832)	AGRI	119.2	CP106, CP107
15	Long, Johnny K.	058-0A-0-66A	Null (owner address: 3502 Laurel Branch Road)	AGRI	46.0	CP104, CP107
16	Dixie Lee Farms Inc	059-0A-0-27	Null (owner address: 464 Laurel Branch Road)	AGRI	100.0	CP107, CP108
17	Long, Johnny K.	047-04-0-B1	13194 Plank Road	AGRI	5.0	CP105
18	Long, Johnny K.	047-04-0-B1B	Null (owner address: 3502 Laurel Branch Road)	AGRI	86.3	CP105, CP106
19	Long, Johnny K.	047-0A-0-38	626 Hilltop Road	AGRI	88.6	CP105, CP106
20	Arthur, Bernard R.	047-04-0-6	13476 Plank Road	AGRI	93.4	CP105, CP106
21	Spencer, Frank T.	047-04-0-B1A	Null (owner address: 3610 Ghent Drive, Chesterfield, VA 23832)	AGRI	Easement Only	CP105, CP106

PREPARED BY:

TETRA TECH

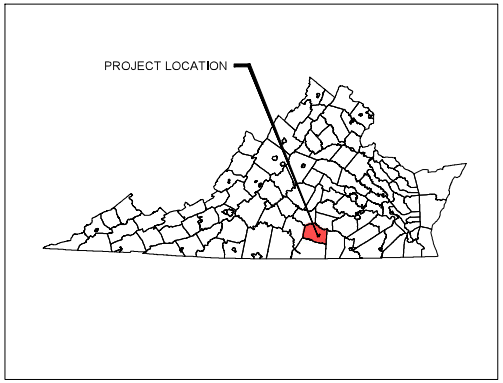
complex world | CLEAR SOLUTIONS™

4104 COX ROAD - SUITE 120, GLEN ALLEN, VA 23060
TEL: (804) 290-4321 | FAX: (804) 270-2739

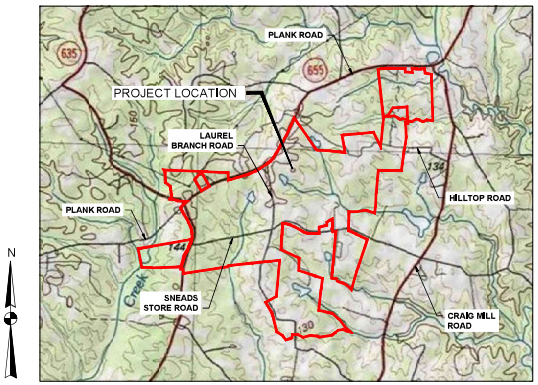
PREPARED FOR:

Dominion Energy®

600 E CANAL STREET, RICHMOND, VA 23219



STATE VICINITY MAP
LAUREL BRANCH SOLAR PROJECT
LUNENBURG COUNTY , VIRGINIA



COUNTY VICINITY MAP
LAUREL BRANCH SOLAR PROJECT
LUNENBURG COUNTY , VIRGINIA

Dominion Energy®

TETRA TECH
TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT
DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
COVER SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
N/A

SHEET NO.:
CP000

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No.	Name	APN	Address	ZONING	Acreage	SHEET LOCATION
1	Dixie Lee Farms In:	058-0A-0-68	121 Laurel Branch Road	AGRI	83.8	CP101, CP103
2	Dixie Lee Farms In:	058-0A-0-69	Null (owner address: 464 Laurel Branch Road)	AGRI	2.0	CP101
3	Dixie Lee Farms In:	058-0A-0-68	464 Laurel Branch Road	AGRI	381.9	CP101, CP102, CP103, CP104
4	Campbell, James M. and Wanda S.	058-0A-0-5A	Null (owner address: 10663 Plank Road)	AGRI	80.0	CP102
5	Dixie Lee Farms In:	058-0A-0-54	Null (owner address: 464 Laurel Branch Road)	AGRI	191.7	CP102, CP104
6	Dixie Lee Farms In:	058-9A-0-56B	Null (owner address: 464 Laurel Branch Road)	AGRI	9.0	CP102, CP104
7	Dixie Lee Farms In:	046-0A-0-20	Null (owner address: 464 Laurel Branch Road)	AGRI	81.5	CP103
8	Wrenn, Mark E. or Robin Gunn	046-06-0-2	11668 Plank Road	AGRI	5.0	CP107, CP108
9	Wrenn, Robin G. or Mark Edwin	046-06-0-1	Null (owner address: 121 Laurel Branch Road)	AGRI	58.7	CP103, CP104, CP106, CP107
10	Long, Johnny K.	058-0A-0-67	Null (owner address: 1502 Laurel Branch Road)	AGRI	105.0	CP103, CP104
11	Long, Ronald E.	059-0A-0-1	1663 Sneads Store Road	AGRI	35.7	CP107
12	Dixie Lee Farms In:	058-0A-0-63	Null (owner address: 464 Laurel Branch Road)	AGRI	259.8	CP104, CP108
13	Richard, Hite T.	047-04-0-13	12052 Plank Road	AGRI	137.0	CP106
14	Lindberg, Stephen P. or Wendy A.	059-0A-0-1A	Null (owner address: PO Box 396, Chesterfield, VA 23832)	AGRI	119.2	CP106, CP107
15	Long, Johnny K.	058-9A-0-66A	Null (owner address: 1502 Laurel Branch Road)	AGRI	46.0	CP104, CP107
16	Dixie Lee Farms In:	059-0A-0-27	Null (owner address: 464 Laurel Branch Road)	AGRI	100.0	CP107, CP108
17	Long, Johnny K.	047-04-0-B1	13194 Plank Road	AGRI	5.0	CP105
18	Long, Johnny K.	047-04-0-B1B	Null (owner address: 1502 Laurel Branch Road)	AGRI	86.3	CP105, CP106
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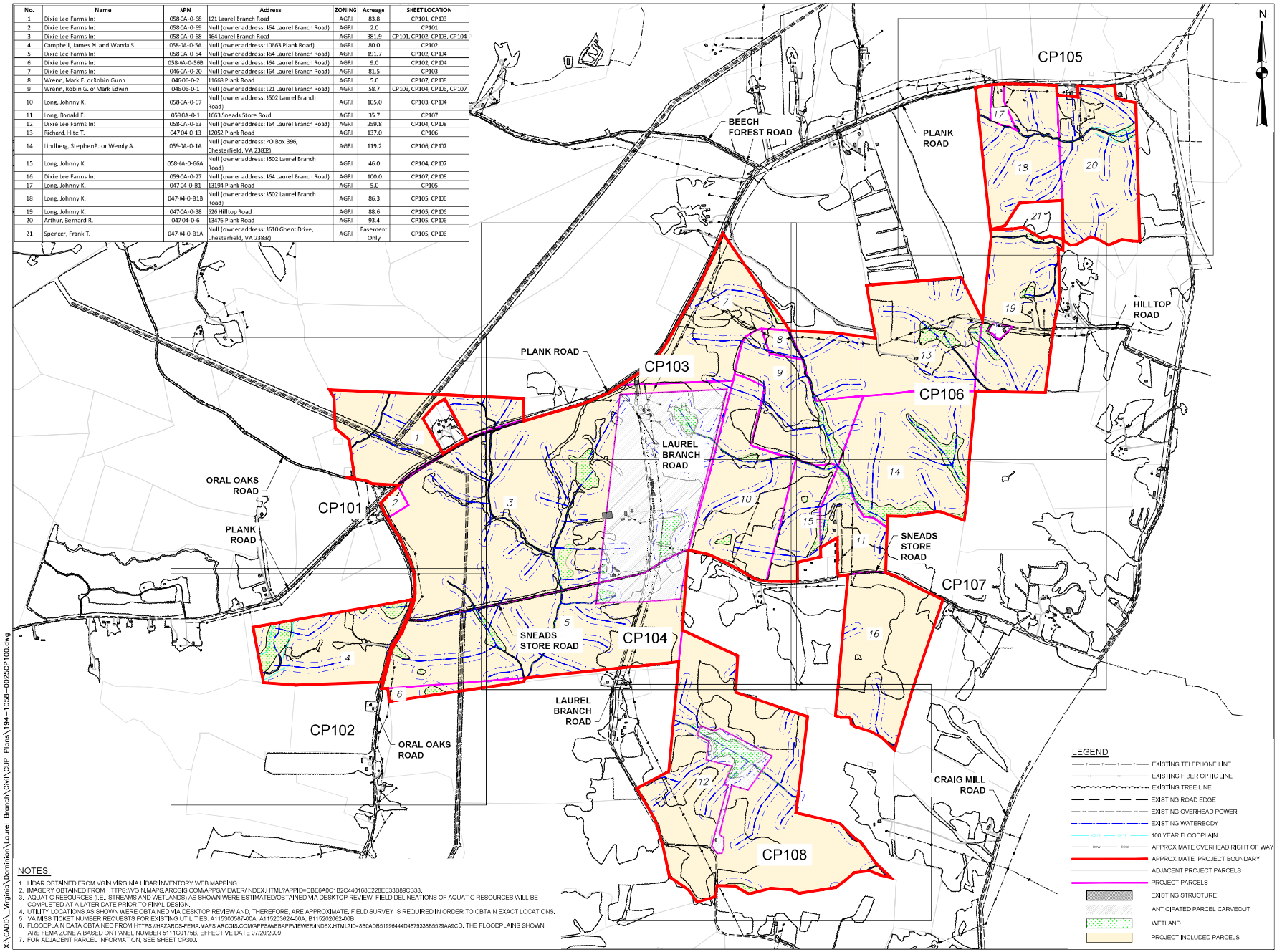
20	Arthur, Bernard R.	047-04-0-6	13476 Plank Road	AGRI	93.4	CP105, CP106
21	Spencer, Frank T.	047-04-0-B1A	Null (owner address: 3610 Ghent Drive, Chesterfield, VA 23831)	AGRI	Easement Only	CP105, CP106



NOTES:

1. LIDAR OBTAINED FROM VGIN VIRGINIA LIDAR INVENTORY WEB MAPPING.
2. IMAGERY OBTAINED FROM HTTPS://VGIN.MAPS.ARCGIS.COM/APPS/MEWER/INDEX.HTML?APPID=CBE6A0C1B2C440168E228EE33B89CB38.
3. AQUATIC RESOURCES (I.E., STREAMS AND WETLANDS) AS SHOWN WERE ESTIMATED/OBTAINED VIA DESKTOP REVIEW. FIELD DELINEATIONS OF AQUATIC RESOURCES WILL BE COMPLETED AT A LATER DATE PRIOR TO FINAL DESIGN.
4. UTILITY LOCATIONS AS SHOWN WERE OBTAINED VIA DESKTOP REVIEW AND, THEREFORE, ARE APPROXIMATE. FIELD SURVEY IS REQUIRED IN ORDER TO OBTAIN EXACT LOCATIONS.
5. VA MISS TICKET NUMBER REQUESTS FOR EXISTING UTILITIES: A115300587-00A, A115203624-00A, B115202062-00B
6. FLOODPLAIN DATA OBTAINED FROM HTTPS://HAZARDS-FEMA.MAPS.ARCGIS.COM/APPS/WEBAPPVIEWER/INDEX.HTML?ID=88DADB51996444D4879338B5529AA9CD. THE FLOODPLAINS SHOWN ARE FEMA ZONE A BASED ON PANEL NUMBER 5111C0175B, EFFECTIVE DATE 07/20/2009.
7. FOR ADJACENT PARCEL INFORMATION, SEE SHEET CP300.

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Dominion Energy

TETRA TECH
TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT
DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
EXISTING CONDITIONS INDEX SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

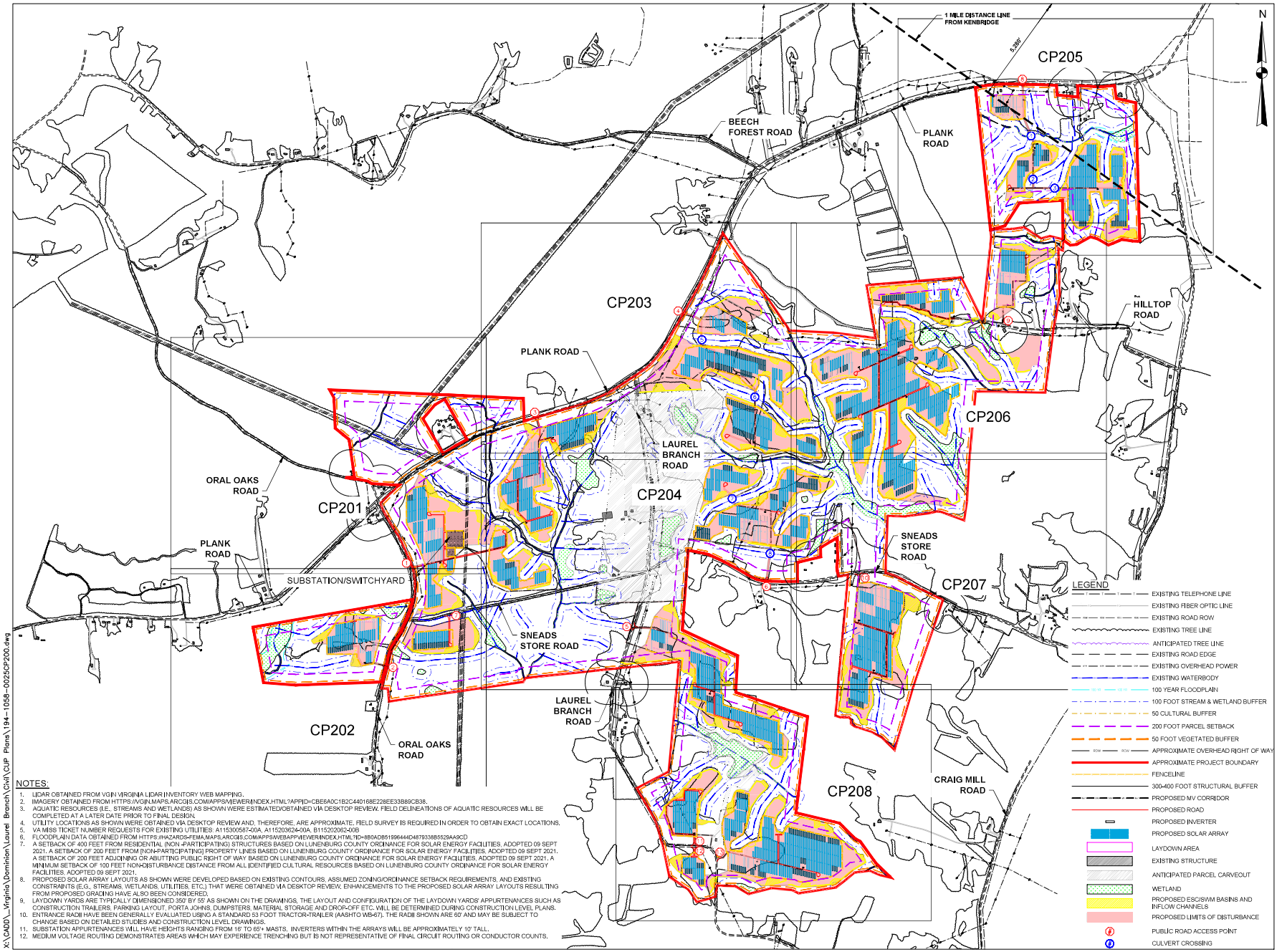
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 800'

SHEET NO.:
CP100



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1. LIDAR OBTAINED FROM VGIN VIRGINIA LIDAR INVENTORY WEB MAPPING.
2. IMAGERY OBTAINED FROM HTTPS://VGIN.MAPS.ARCGIS.COM/APPS/VIEWER/INDEX.HTML?APPID=CBE6A0C1B2C440168E228EE33B89CB38.
3. AQUATIC RESOURCES (I.E., STREAMS AND WETLANDS) AS SHOWN WERE ESTIMATED/OBTAINED VIA DESKTOP REVIEW. FIELD DELINEATIONS OF AQUATIC RESOURCES WILL BE COMPLETED AT A LATER DATE PRIOR TO FINAL DESIGN.
4. UTILITY LOCATIONS AS SHOWN WERE OBTAINED VIA DESKTOP REVIEW AND, THEREFORE, ARE APPROXIMATE. FIELD SURVEY IS REQUIRED IN ORDER TO OBTAIN EXACT LOCATIONS.
5. VA MISS TICKET NUMBER REQUESTS FOR EXISTING UTILITIES: A115300587-00A, A115203624-00A, B115202062-00B
6. FLOODPLAIN DATA OBTAINED FROM HTTPS://HAZARDS-FEMA.MAPS.ARCGIS.COM/APPS/WEBAPPVIEWER/INDEX.HTML?ID=880AD8519964440487933885529A93CD
7. A SETBACK OF 400 FEET FROM RESIDENTIAL (NON-PARTICIPATING) STRUCTURES BASED ON LUNENBURG COUNTY ORDINANCE FOR SOLAR ENERGY FACILITIES, ADOPTED 09 SEPT 2021. A SETBACK OF 200 FEET FROM (NON-PARTICIPATING) PROPERTY LINES BASED ON LUNENBURG COUNTY ORDINANCE FOR SOLAR ENERGY FACILITIES, ADOPTED 09 SEPT 2021. A SETBACK OF 200 FEET ADJOINING OR ABUTTING PUBLIC RIGHT OF WAY BASED ON LUNENBURG COUNTY ORDINANCE FOR SOLAR ENERGY FACILITIES, ADOPTED 09 SEPT 2021. A MINIMUM SETBACK OF 100 FEET NON-DISTURBANCE DISTANCE FROM ALL IDENTIFIED CULTURAL RESOURCES BASED ON LUNENBURG COUNTY ORDINANCE FOR SOLAR ENERGY FACILITIES, ADOPTED 09 SEPT 2021.
8. PROPOSED SOLAR ARRAY LAYOUTS AS SHOWN WERE DEVELOPED BASED ON EXISTING CONTOURS, ASSUMED ZONING/ORDINANCE SETBACK REQUIREMENTS, AND EXISTING CONSTRAINTS (E.G., STREAMS, WETLANDS, UTILITIES, ETC.) THAT WERE OBTAINED VIA DESKTOP REVIEW. ENHANCEMENTS TO THE PROPOSED SOLAR ARRAY LAYOUTS RESULTING FROM PROPOSED GRADING HAVE ALSO BEEN CONSIDERED.
9. LAYDOWN YARDS ARE TYPICALLY DIMENSIONED 350' BY 55' AS SHOWN ON THE DRAWINGS. THE LAYOUT AND CONFIGURATION OF THE LAYDOWN YARDS' APPURTENANCES SUCH AS CONSTRUCTION TRAILERS, PARKING LAYOUT, PORTA JOHNS, DUMPSTERS, MATERIAL STORAGE AND DROP-OFF ETC. WILL BE DETERMINED DURING CONSTRUCTION LEVEL PLANS.
10. ENTRANCE RADII HAVE BEEN GENERALLY EVALUATED USING A STANDARD 53 FOOT TRACTOR-TRAILER (AASHTO WB-67). THE RADII SHOWN ARE 60' AND MAY BE SUBJECT TO CHANGE BASED ON DETAILED STUDIES AND CONSTRUCTION LEVEL DRAWINGS.
11. SUBSTATION APPURTENANCES WILL HAVE HEIGHTS RANGING FROM 16' TO 65'+ MASTS. INVERTERS WITHIN THE ARRAYS WILL BE APPROXIMATELY 10' TALL.
12. MEDIUM VOLTAGE ROUTING DEMONSTRATES AREAS WHICH MAY EXPERIENCE TRENCHING BUT IS NOT REPRESENTATIVE OF FINAL CIRCUIT ROUTING OR CONDUCTOR COUNTS.

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Dominion Energy

TETRA TECH

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STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
POST-DEVELOPMENT CONDITIONS INDEX SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

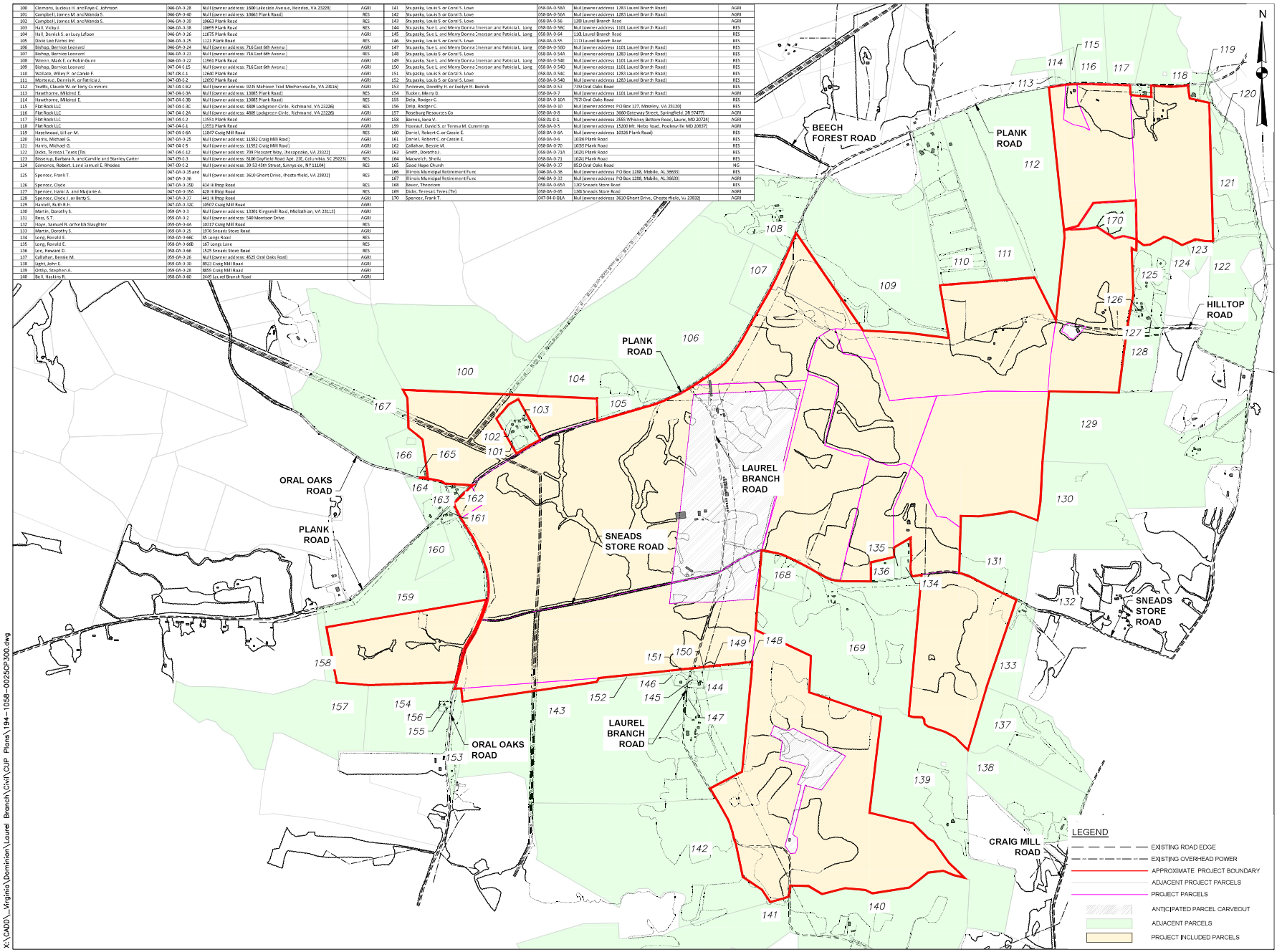
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 800'

SHEET NO.:
CP200



100	Clemons, Lucious H. and Faye C. Johnson	046-0A-3-28	Null (owner address: 1600 Lakeside Avenue, Henrico, VA 23223)	AGRI
101	Campbell, James M. and Wanda S.	046-0A-3-40	Null (owner address: 10663 Plank Road)	RES
102	Campbell, James M. and Wanda S.	046-0A-3-39	10663 Plank Road	RES
103	Hall, Vicky J.	046-0A-3-38	10695 Plank Road	RES
104	Hall, Donick S. or Lucy Lifson	046-0A-3-26	11075 Plank Road	AGRI
105	Dixie Lee Farms Inc	046-0A-3-25	1121 Plank Road	RES
106	Bishop, Bernice Leonard	046-0A-3-24	Null (owner address: 716 East 6th Avenue)	AGRI
107	Bishop, Bernice Leonard	046-0A-3-23	Null (owner address: 716 East 6th Avenue)	RES
108	Wrenn, Mark E. or Robin Gunn	046-0A-3-22	11961 Plank Road	AGRI
109	Bishop, Bernice Leonard	047-04-E-15	Null (owner address: 716 East 6th Avenue)	AGRI
110	Wallace, Wiley P. or Carole F.	047-08-C-1	12640 Plank Road	AGRI
111	Montanez, Dennis R. or Patricia J.	047-08-E-2	12690 Plank Road	AGRI
112	Yeatts, Claude W. or Terry Cummins	047-04-E-B2	Null (owner address: 9235 Mahoon Trail Mechanicsville, VA 23116)	AGRI
113	Hawthorne, Millared E.	047-04-C-3A	Null (owner address: 13085 Plank Road)	RES
114	Hawthorne, Millared E.	047-04-C-3B	Null (owner address: 13085 Plank Road)	RES
115	Flat Rock LLC	047-04-C-3C	Null (owner address: 4809 Lodgegreen Circle, Richmond, VA 23226)	RES
116	Flat Rock LLC	047-04-C-2A	Null (owner address: 4809 Lodgegreen Circle, Richmond, VA 23226)	AGRI
117	Flat Rock LLC	047-04-C-2	13551 Plank Road	AGRI
118	Flat Rock LLC	047-04-C-1	13551 Plank Road	AGRI
119	Hazelwood, Lillian M.	047-04-E-6A	11667 Craig Mill Road	RES
120	Harris, Michael G.	047-04-3-25	Null (owner address: 11992 Craig Mill Road)	AGRI
121	Harris, Michael G.	047-04-E-5	Null (owner address: 11992 Craig Mill Road)	AGRI
122	Dicks, Teresa L Teres (Tte)	047-04-E-12	Null (owner address: 709 Hasspatt Way , Petersburg, VA 23322)	AGRI
123	Bissinger, Barbara A. and Camille and Stanley Carter	047-09-C-3	Null (owner address: 3100 Dayfield Road Apt. 23E, Columbia, SC 29223)	RES
124	Simmons, Robert. L and Samuel E. Rhodes	047-09-C-2	Null (owner address: 39-53 45th Street, Sunnyside, NY 11104)	RES
125	Spencer, Frank T.	047-0A-3-35 and 047-0A-3-36	Null (owner address: 3610 Ghent Drive, Chesterfield, VA 23832)	RES
126	Spencer, Clyde	047-0A-3-35B	434 Hilltop Road	RES
127	Spencer, Nanci A. and Marjorie A.	047-0A-3-35A	428 Hilltop Road	RES
128	Spencer, Clyde J. or Betty S.	047-0A-3-37	441 Hilltop Road	AGRI
129	Harwell, Ruth B.H.	047-0A-3-32C	10507 Craig Mill Road	AGRI
130	Martin, Dorothy S.	059-0A-3-3	Null (owner address: 13301 Kingsmill Road, Midlothian, VA 23113)	AGRI
131	Ross, S.T.	059-0A-3-2	Null (owner address: 540 Morrison Drive	AGRI
132	Hoyt, Samuel R. or Nelda Slaughter	059-0A-3-4A	10317 Craig Mill Road	RES
133	Martin, Dorothy S.	059-0A-3-25	1936 Sneads Store Road	AGRI
134	Long, Ronald E.	058-0A-3-66C	85 Longs Road	RES
135	Long, Ronald E.	058-0A-3-66B	167 Longs Lane	RES
136	Lee, Howard D.	058-0A-3-66	1525 Sneads Store Road	RES
137	Callahan, Bessie M.	059-0A-3-26	Null (owner address: 4525 Oral Oaks Road)	AGRI
138	Light, John E.	059-0A-3-30	8923 Craig Mill Road	AGRI
139	Ortiz, Stephen A.	059-0A-3-28	8850 Craig Mill Road	AGRI
140	Bell, Hasling R.	058-0A-3-60	2449 Laurel Branch Road	AGRI
141	Stupasky, Louis S. or Coni S. Love	058-0A-3-58A	Null (owner address: 1283 Laurel Branch Road)	AGRI
142	Stupasky, Louis S. or Coni S. Love	058-0A-3-56A	Null (owner address: 1283 Laurel Branch Road)	AGRI
143	Stupasky, Louis S. or Coni S. Love	058-0A-3-56	1288 Laurel Branch Road	RES
144	Stupasky, Sue L. and Merry Donna Emerson and Patricia L. Long	058-0A-3-56C	Null (owner address: 1101 Laurel Branch Road)	RES
145	Stupasky, Sue L. and Merry Donna Emerson and Patricia L. Long	058-0A-3-64	1108 Laurel Branch Road	RES
146	Stupasky, Louis S. or Coni S. Love	058-0A-3-55	1110 Laurel Branch Road	RES
147	Stupasky, Sue L. and Merry Donna Emerson and Patricia L. Long	058-0A-3-56D	Null (owner address: 1101 Laurel Branch Road)	RES
148	Stupasky, Louis S. or Coni S. Love	058-0A-3-54A	Null (owner address: 1283 Laurel Branch Road)	RES
149	Stupasky, Sue L. and Merry Donna Emerson and Patricia L. Long	058-0A-3-54E	Null (owner address: 1101 Laurel Branch Road)	RES
150	Stupasky, Sue L. and Merry Donna Emerson and Patricia L. Long	058-0A-3-54D	Null (owner address: 1101 Laurel Branch Road)	RES
151	Stupasky, Louis S. or Coni S. Love	058-0A-3-54C	Null (owner address: 1283 Laurel Branch Road)	RES
152	Stupasky, Louis S. or Coni S. Love	058-0A-3-54B	Null (owner address: 1283 Laurel Branch Road)	RES
153	Andrews, Dorothy H. or Evelyn H. Bedrick	058-0A-3-53	7353 Oral Oaks Road	RES
154	Tucker, Merry D.	058-0A-3-7	Null (owner address: 1101 Laurel Branch Road)	AGRI
155	Delp, Rodger C.	058-0A-3-10A	7575 Oral Oaks Road	RES
156	Delp, Rodger C.	058-0A-3-10	Null (owner address: PO Box 127, Moseley, VA 23120)	RES
157	Rosebaug Resources Co	058-0A-3-8	Null (owner address: 3660 Gateway Street, Springfield, OR 97477)	AGRI
158	Barnes, Iona V.	058-0A-3-1	Null (owner address: 3555 Whiskey Bottom Road, Laurel, MD 20724)	AGRI
159	Hanauf, David S. or Teresa M. Cummings	058-0A-3-5	Null (owner address: 15200 Mt. Nebo Road, Poolesville MD 20837)	AGRI
160	Daniel, Robert C. or Cassie E.	058-0A-3-6A	Null (owner address: 10026 Plank Road)	RES
161	Daniel, Robert C. or Cassie E.	058-0A-3-6	10100 Plank Road	RES
162	Callahan, Bessie M.	058-0A-3-70	10300 Plank Road	RES
163	Smith, Dorothy J.	058-0A-3-71A	10201 Plank Road	RES
164	Maxwitch, Sheila	058-0A-3-71	10261 Plank Road	RES
165	Good Hope Church	046-0A-3-37	8510 Oral Oaks Road	NG
166	Illinois Municipal Retirement Func	046-0A-3-36	Null (owner address: PO Box 1288, Mobile, AL 36633)	RES
167	Illinois Municipal Retirement Func	046-0A-3-33	Null (owner address: PO Box 1288, Mobile, AL 36633)	AGRI
168	Baker, Theodore	058-0A-3-66A	1707 Sneads Store Road	RES
169	Dicks, Teresa L Teres (Tte)	058-0A-3-65	1765 Sneads Store Road	AGRI
170	Spencer, Frank T	047-04-E-B1A	Null (owner address: 3610 Ghent Drive, Chesterfield, Va 23832)	AGRI

Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
ADJACENT PARCEL INFORMATION SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

va811.com Dig With CARE

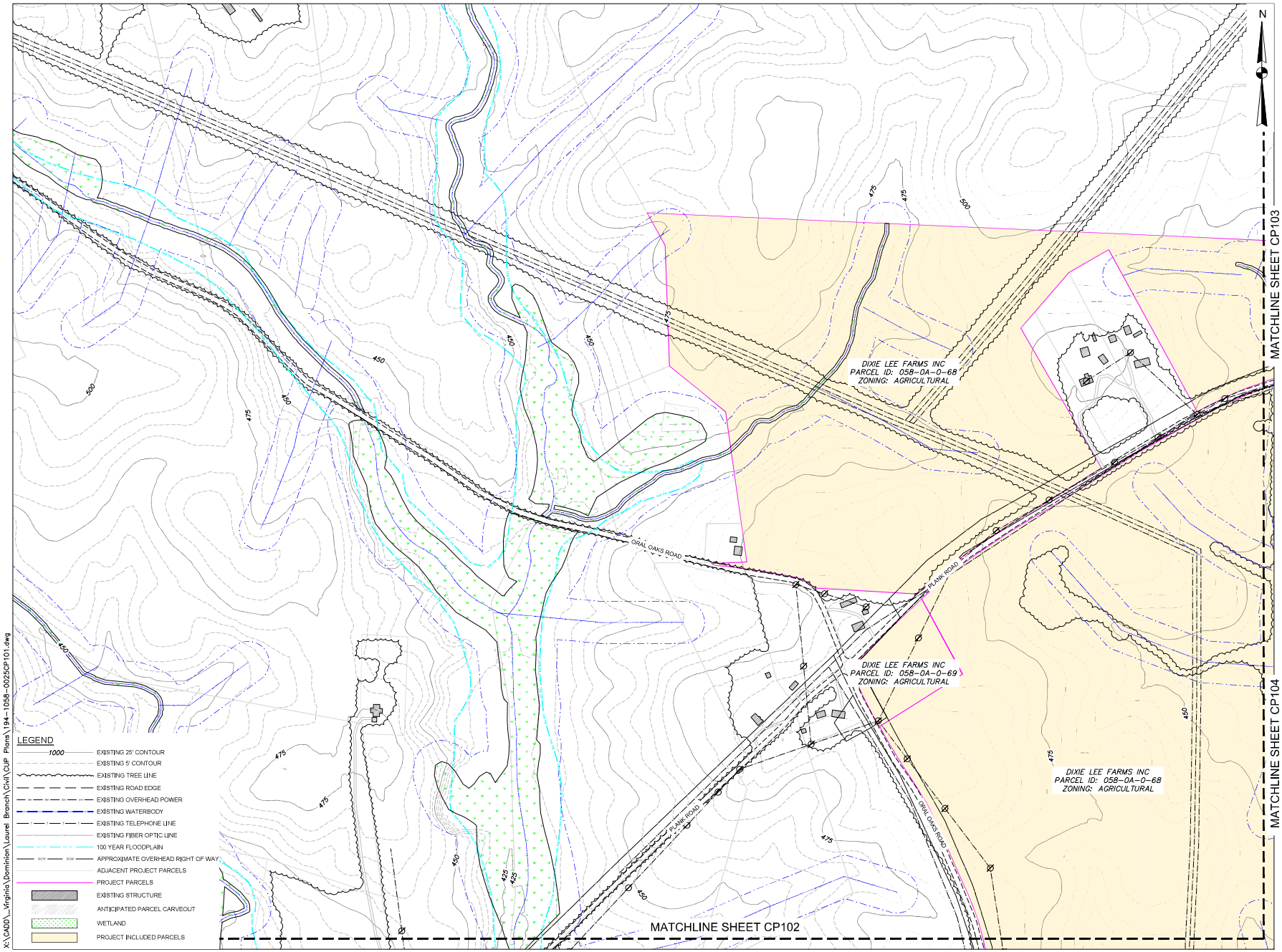
DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 800'

SHEET NO.:
CP300

X:\CADD_Virginia\Dominion\Laurel Branch\Civil\CUP Plans\194-1058-0025CP300.dwg



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD;
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
EXISTING CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

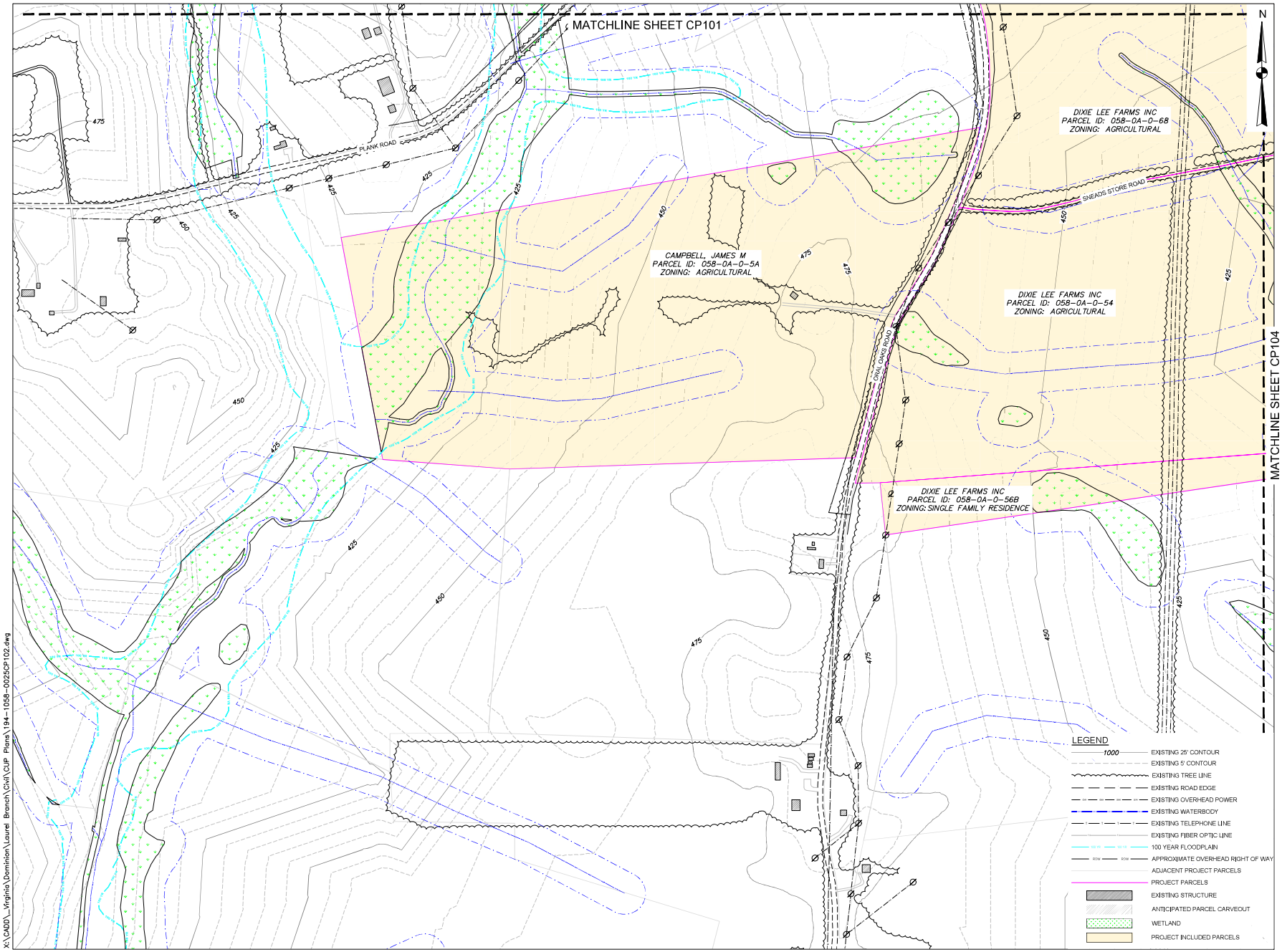
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP101



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
EXISTING CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

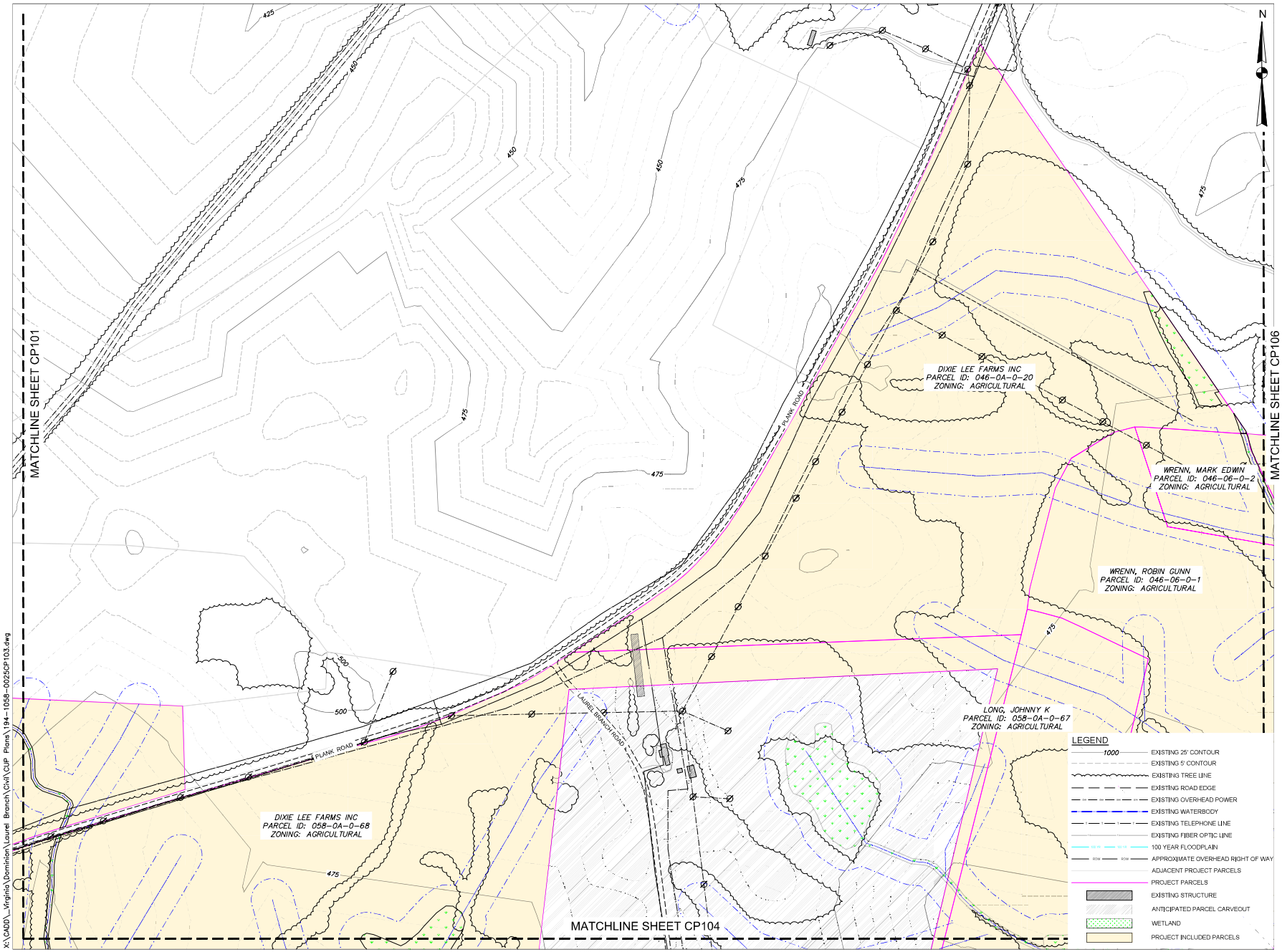
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP102



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD;
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
EXISTING CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

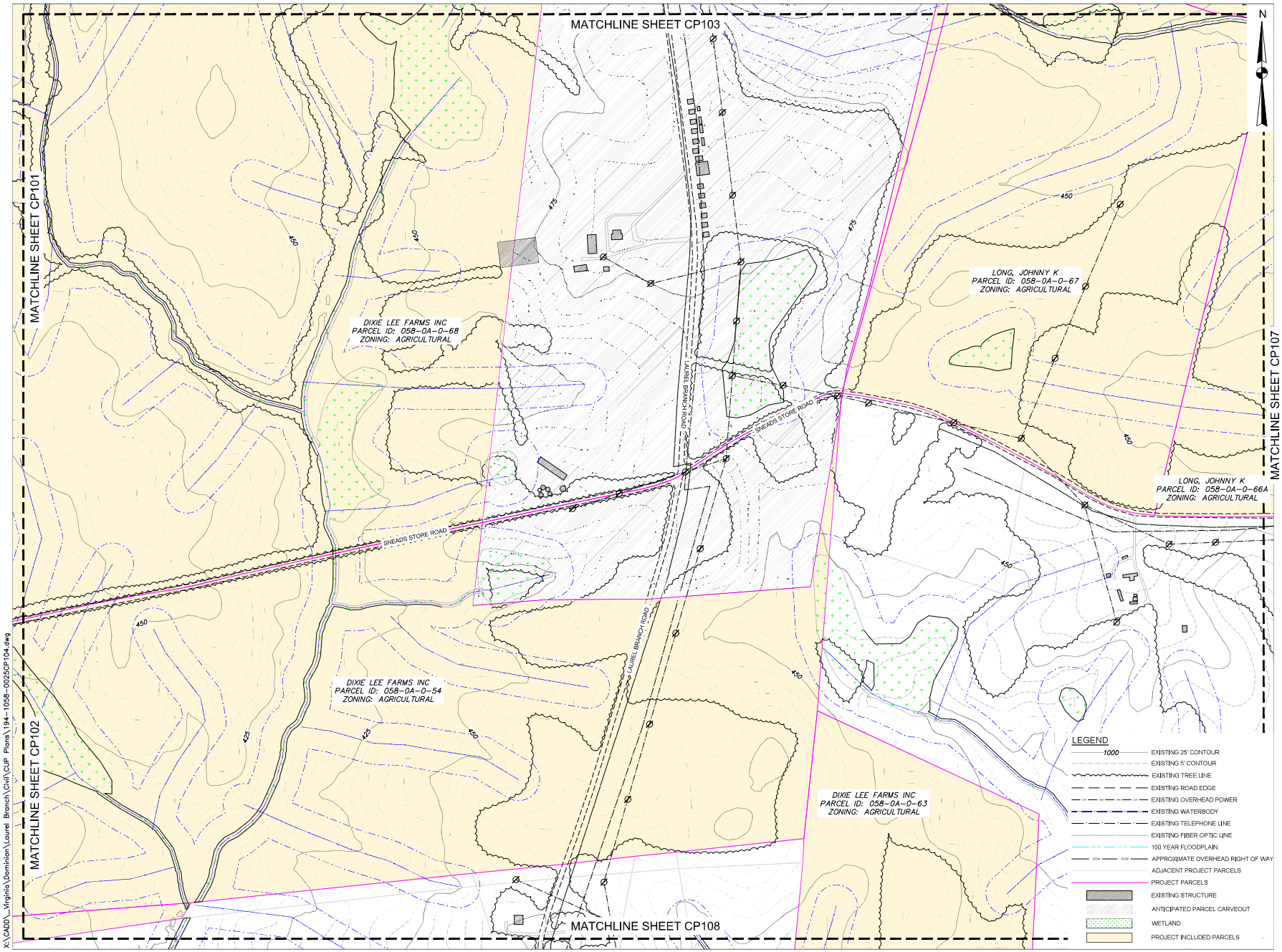
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP103



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

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PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
EXISTING CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

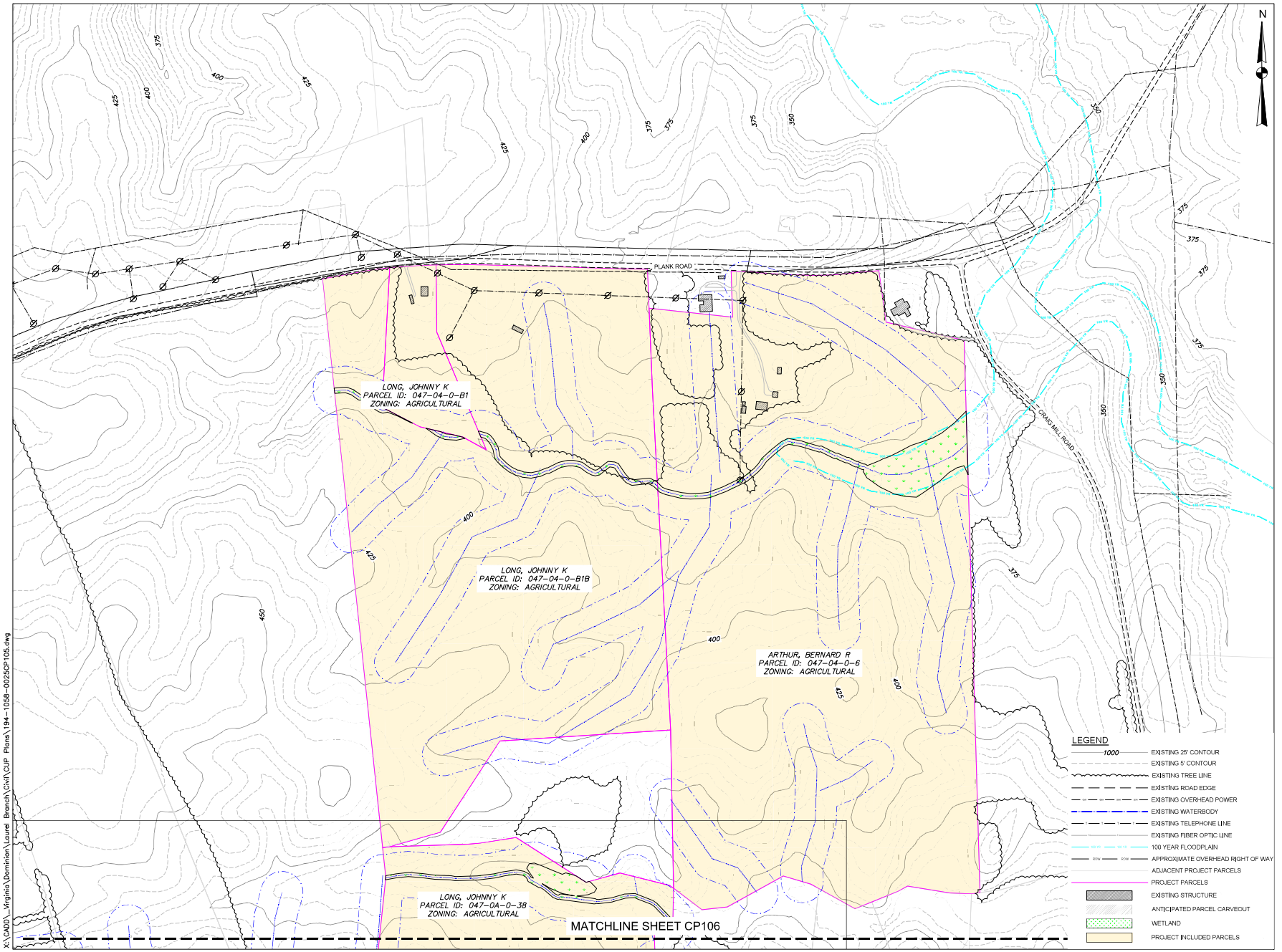
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP104



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
EXISTING CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

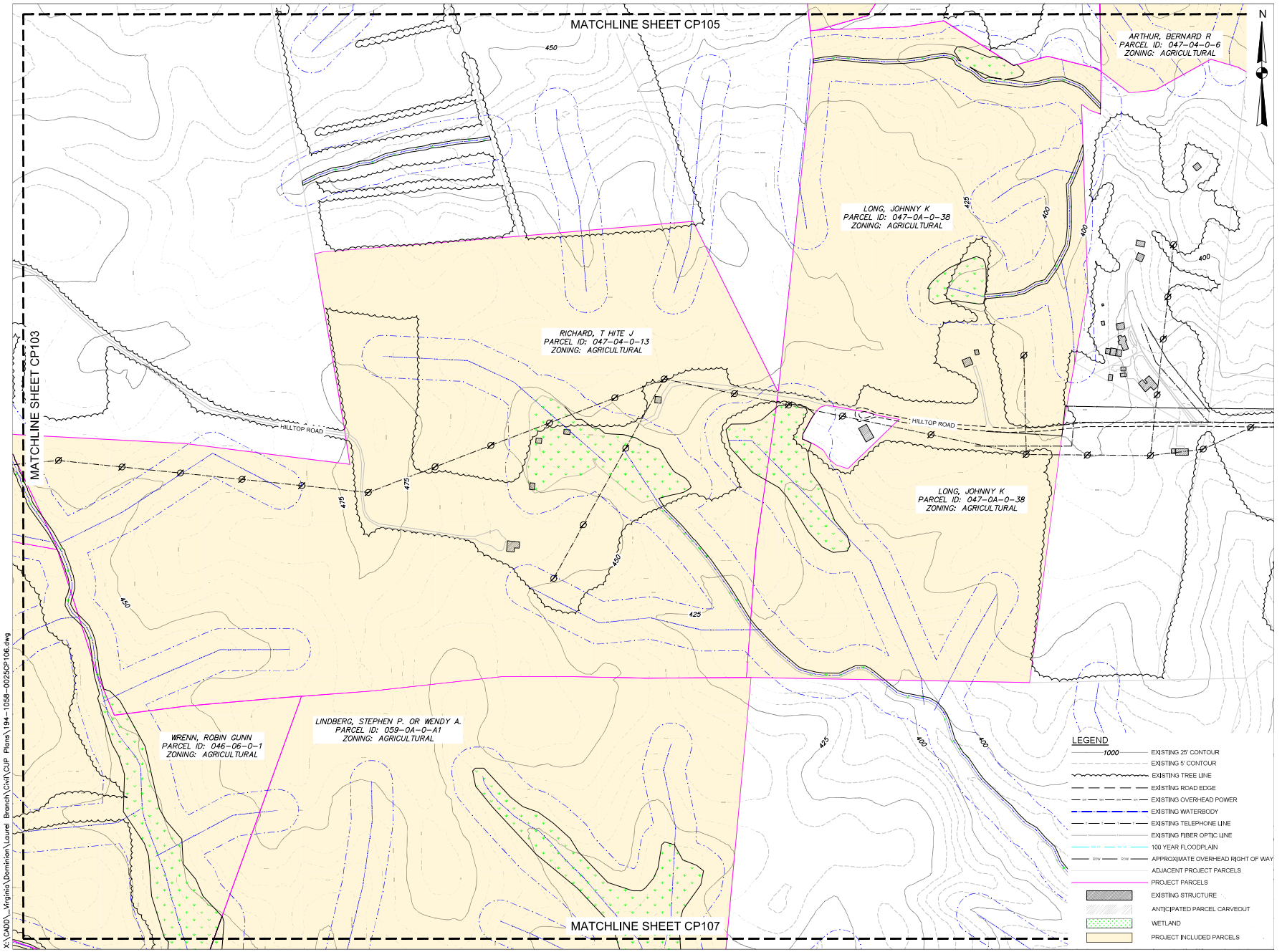
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP105



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
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GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
EXISTING CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

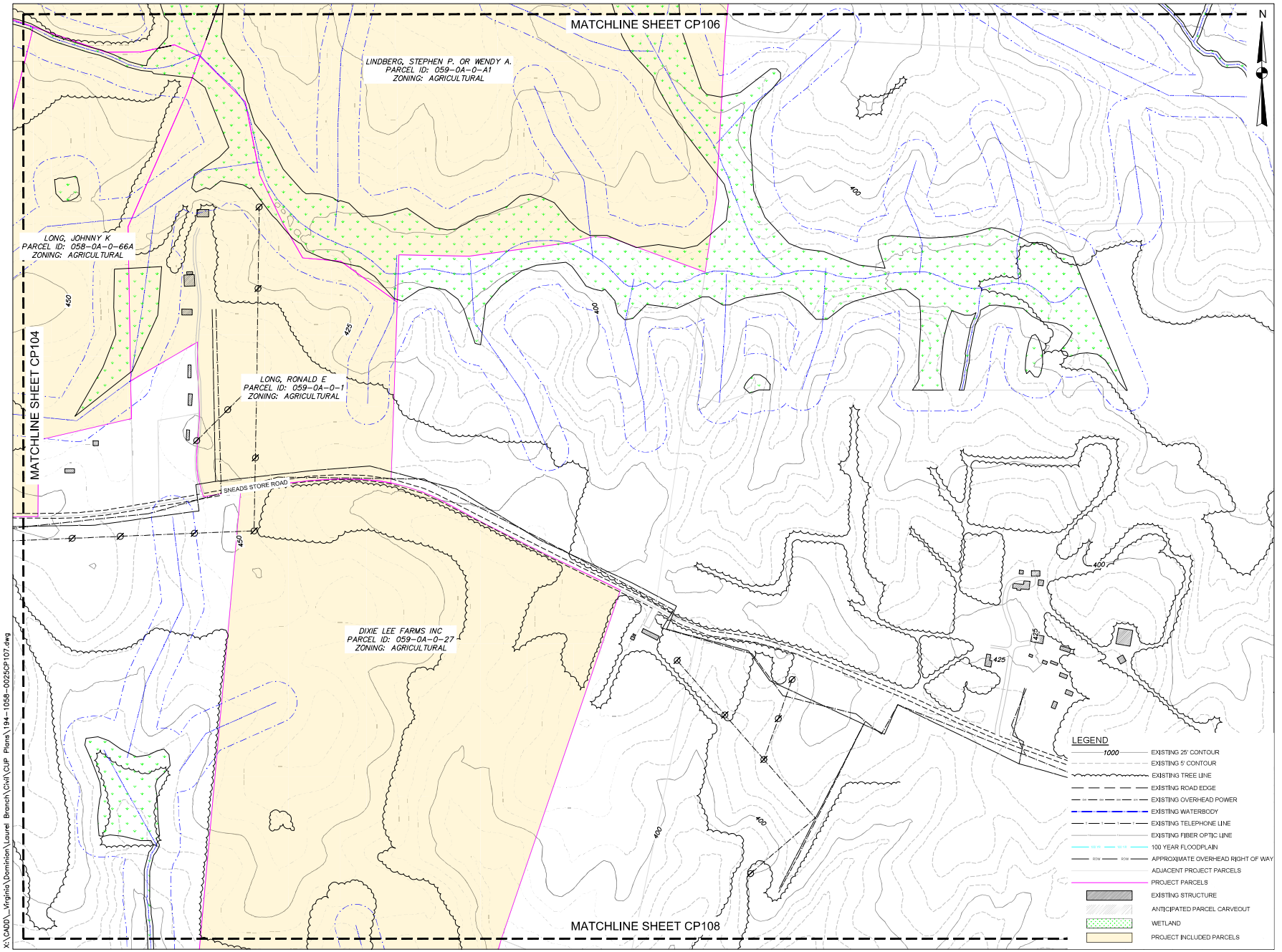
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP106



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

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PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
EXISTING CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

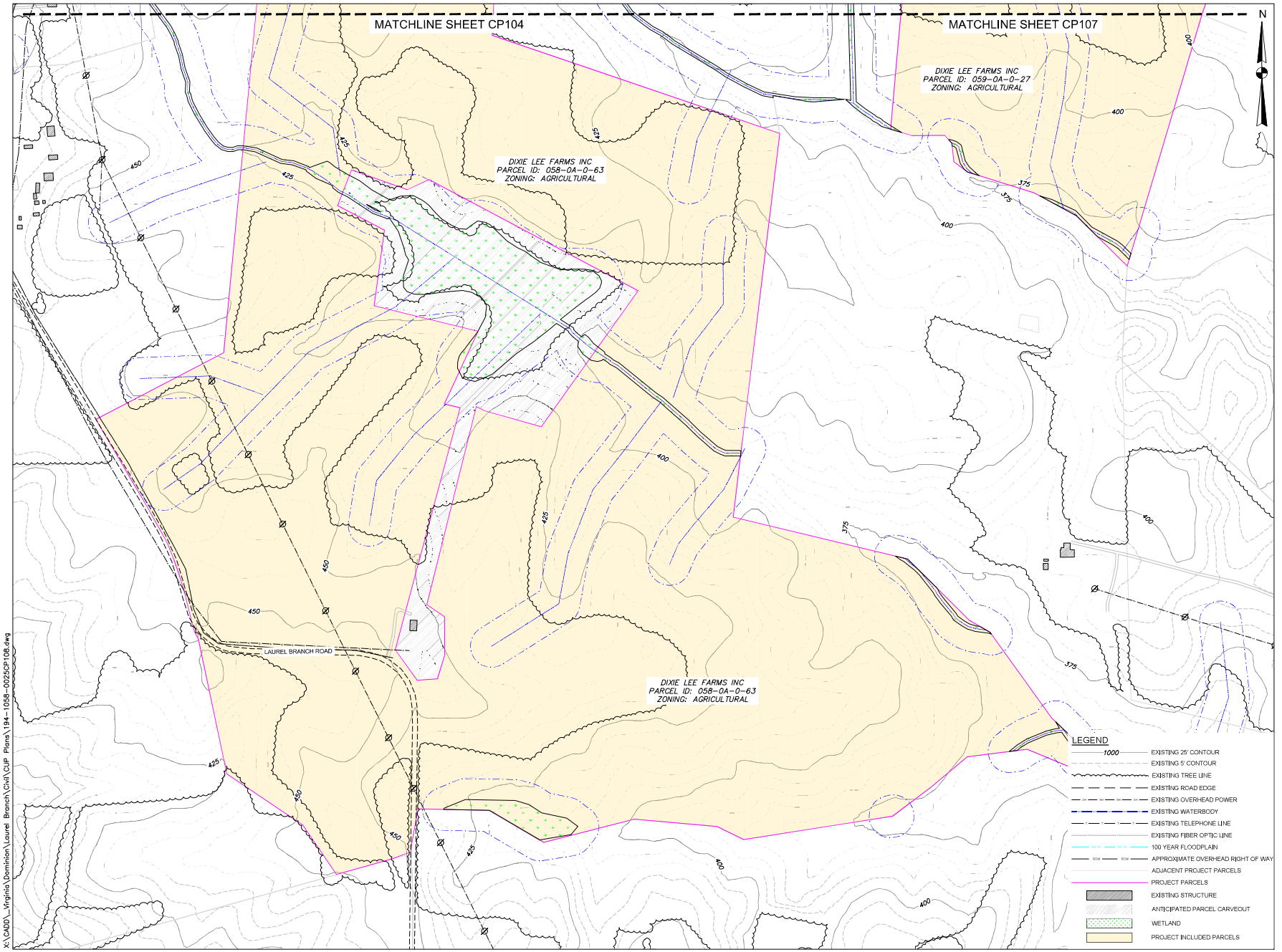
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP107



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
EXISTING CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

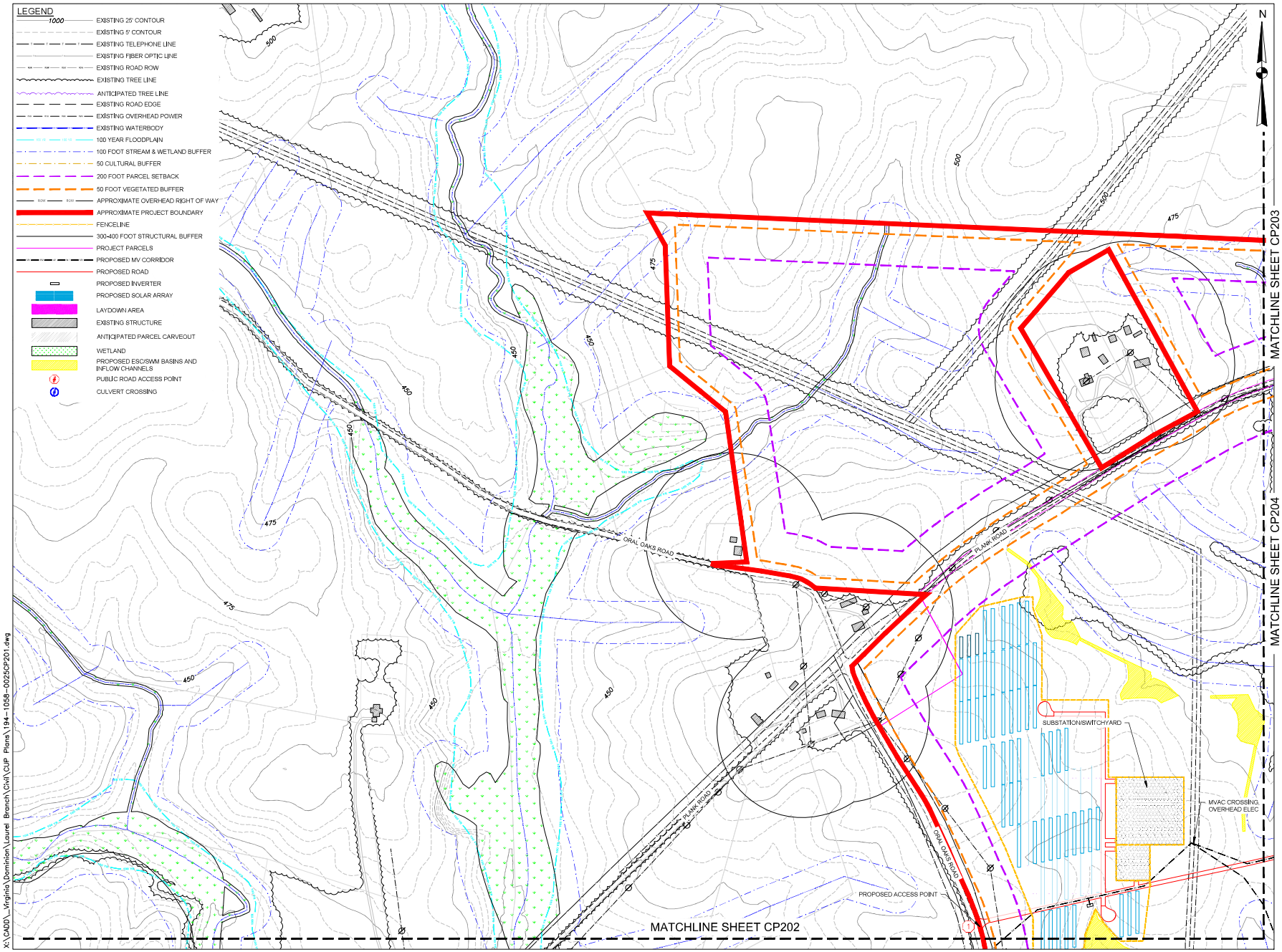
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP108



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
POST-DEVELOPMENT CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

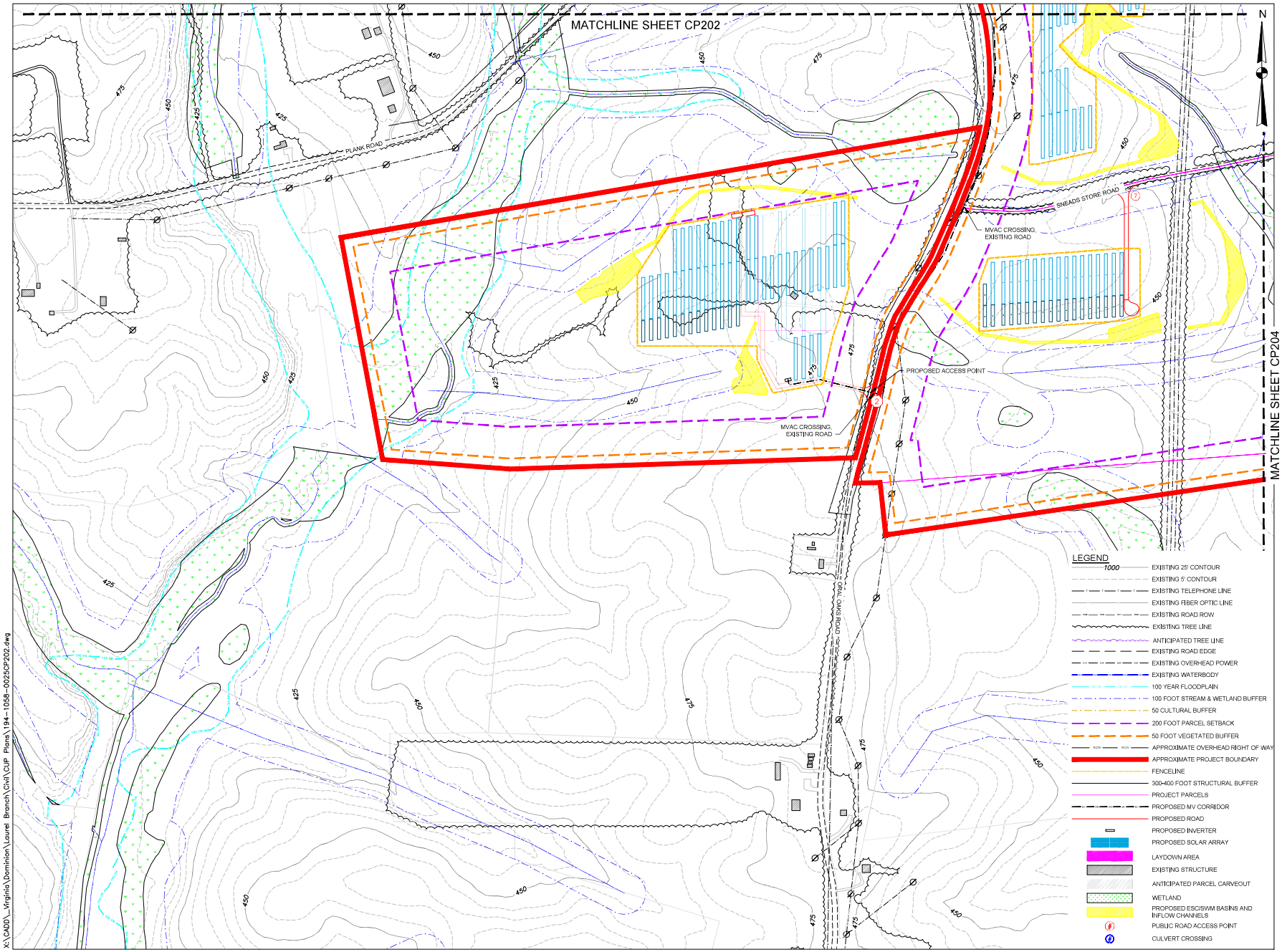
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP201



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
POST-DEVELOPMENT CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

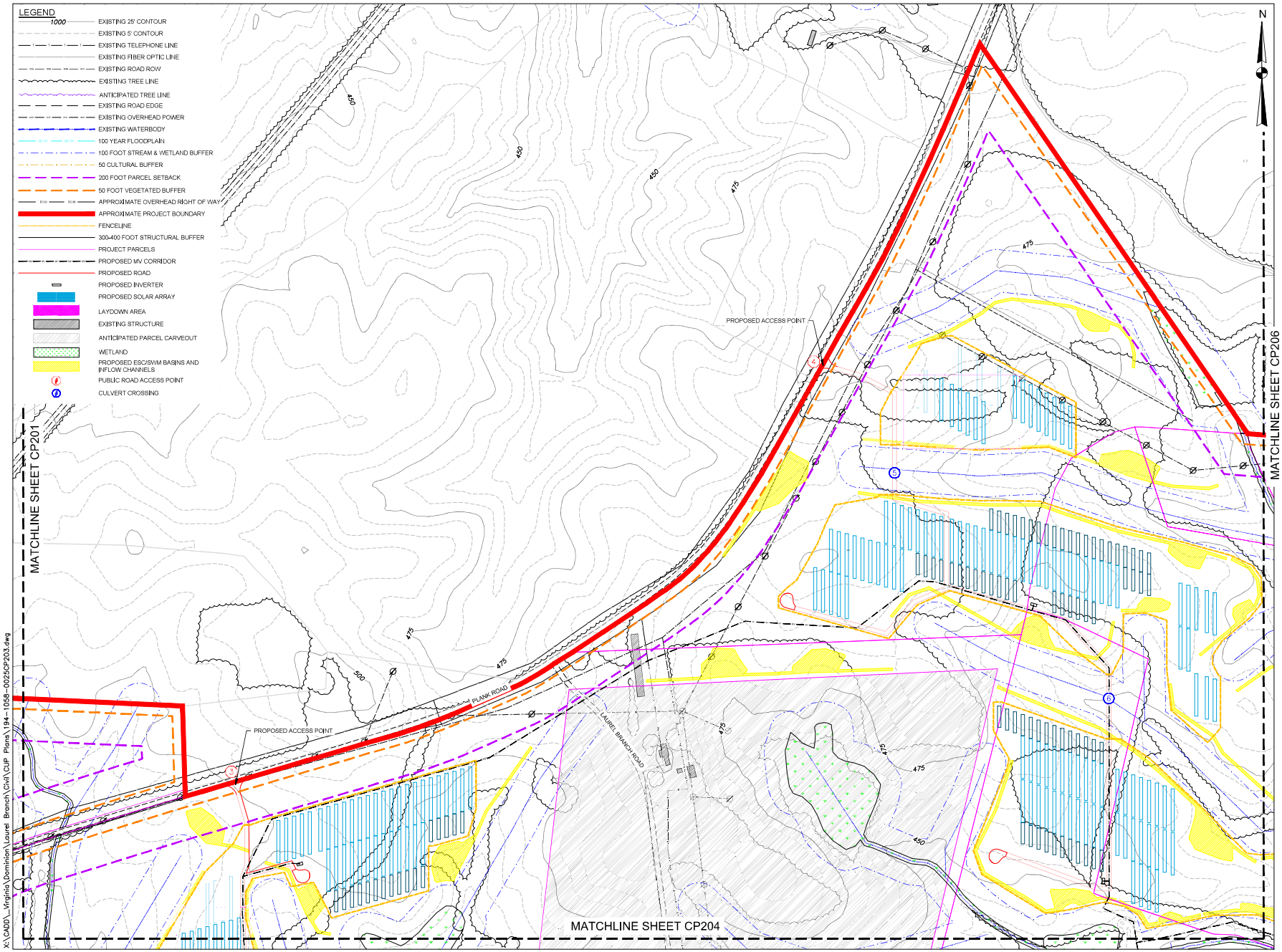
va811.com Dig With Care

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP202



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
POST-DEVELOPMENT CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

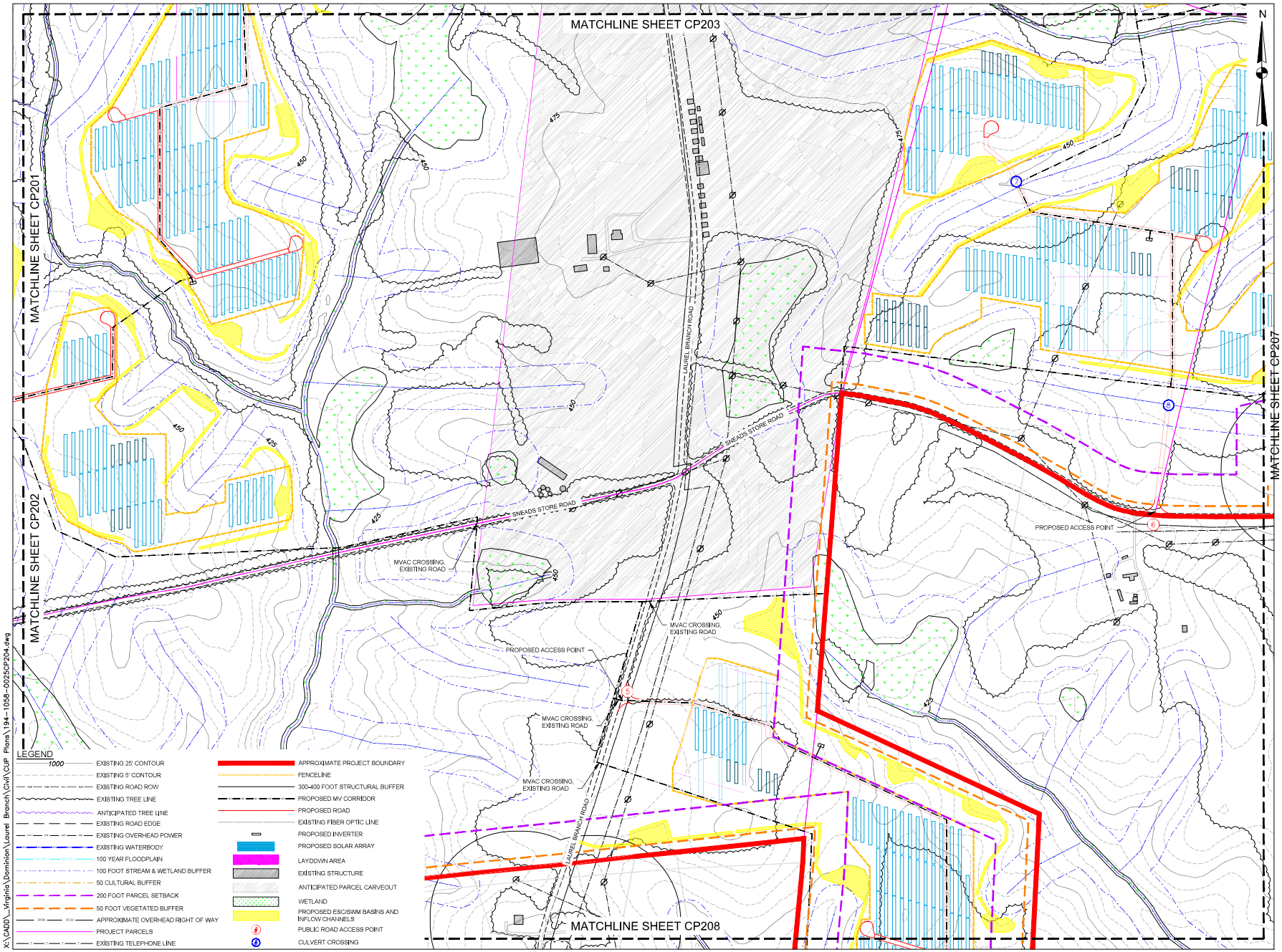
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP203



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
POST-DEVELOPMENT CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

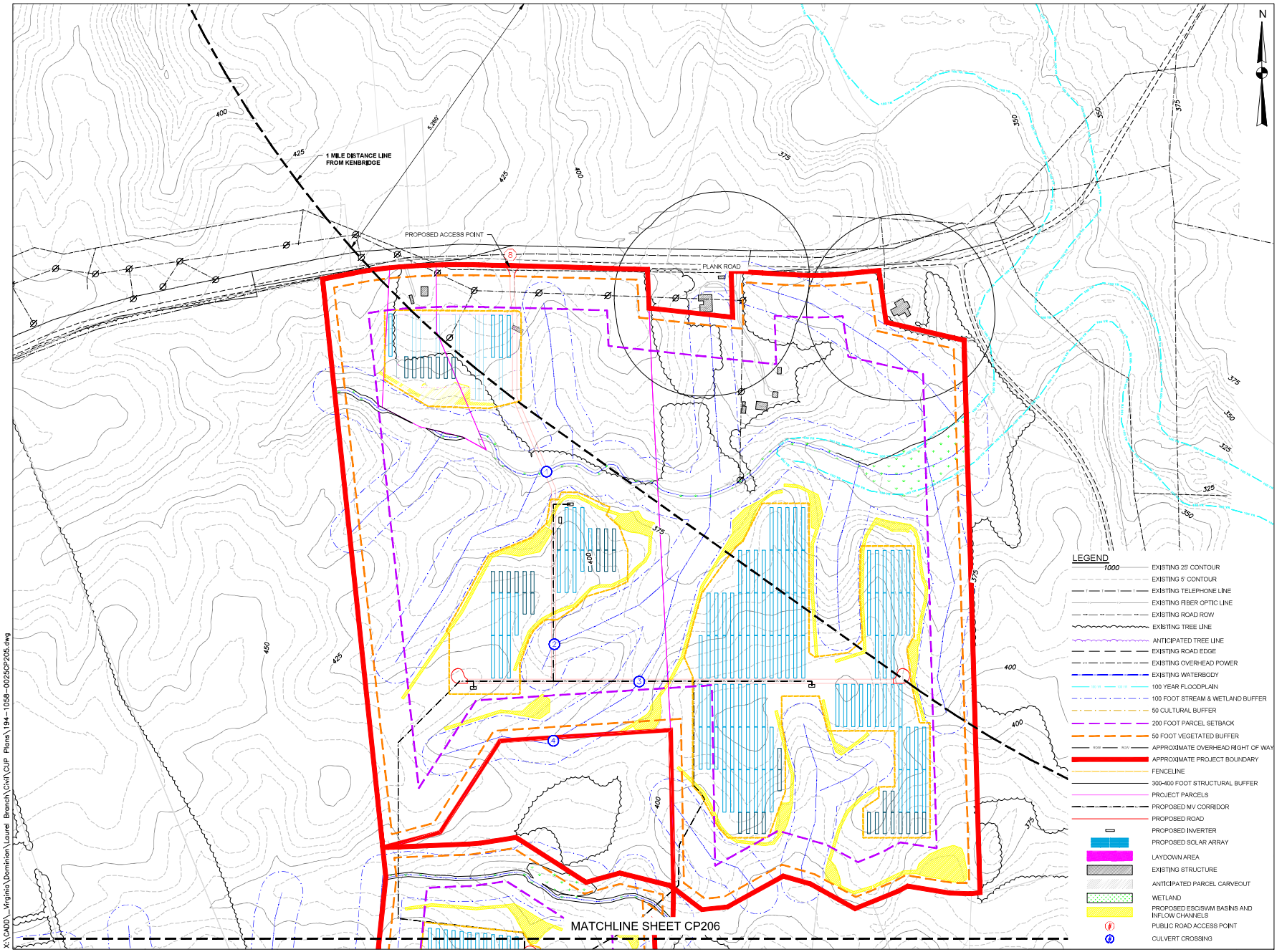
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP204



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

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PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
POST-DEVELOPMENT CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

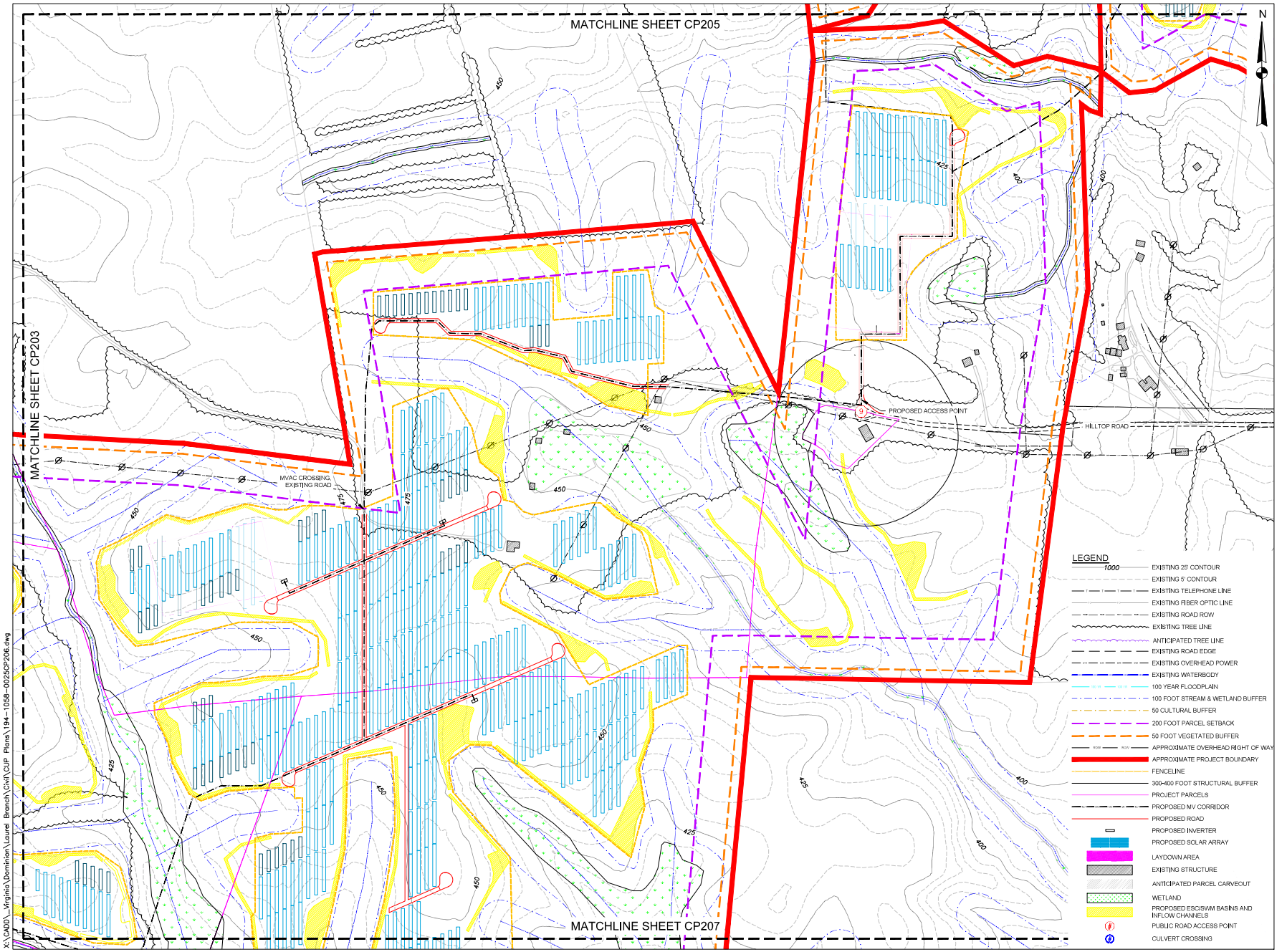
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP205



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

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PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
POST-DEVELOPMENT CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

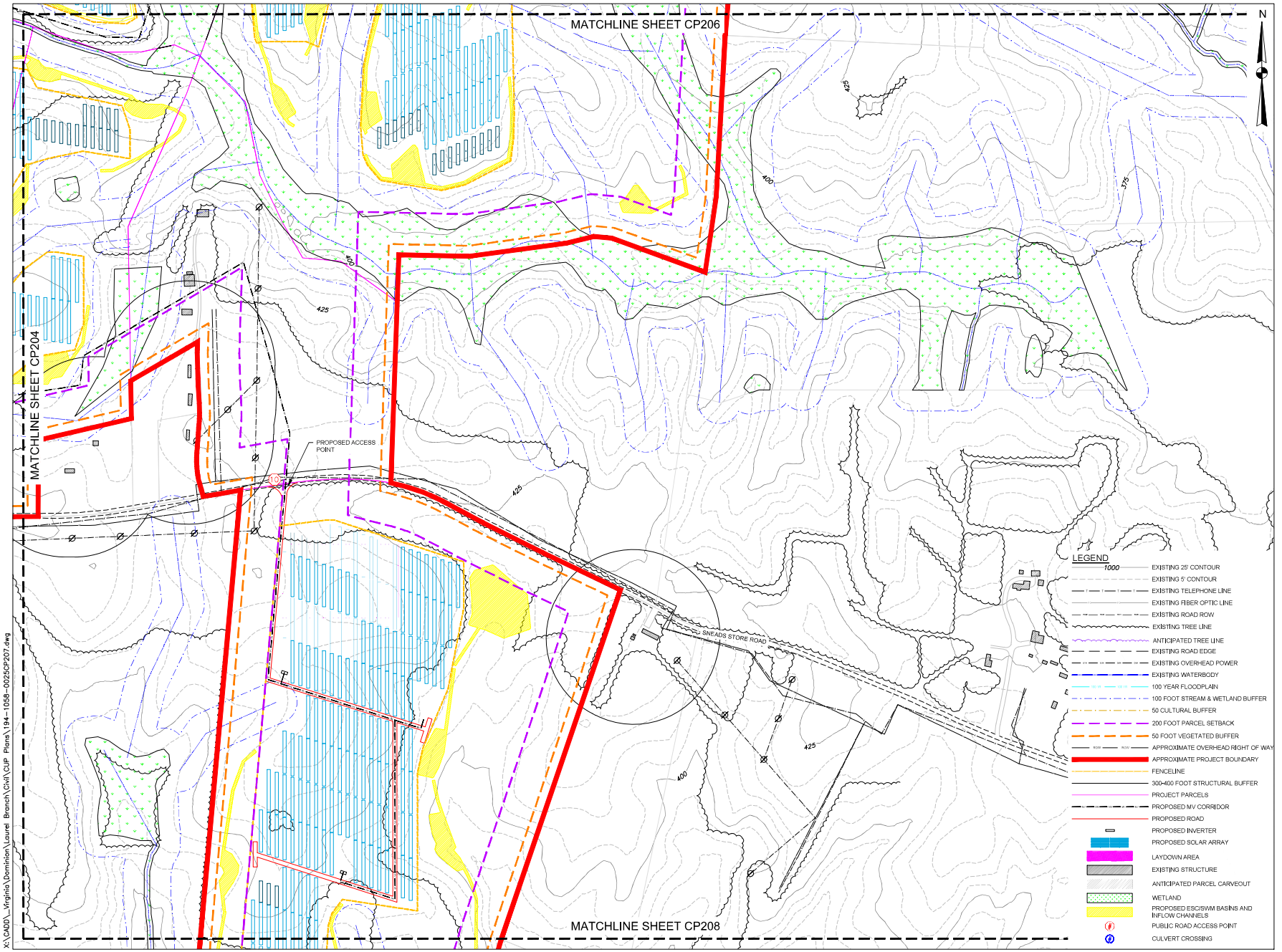
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP206



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
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GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

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PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
POST-DEVELOPMENT CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

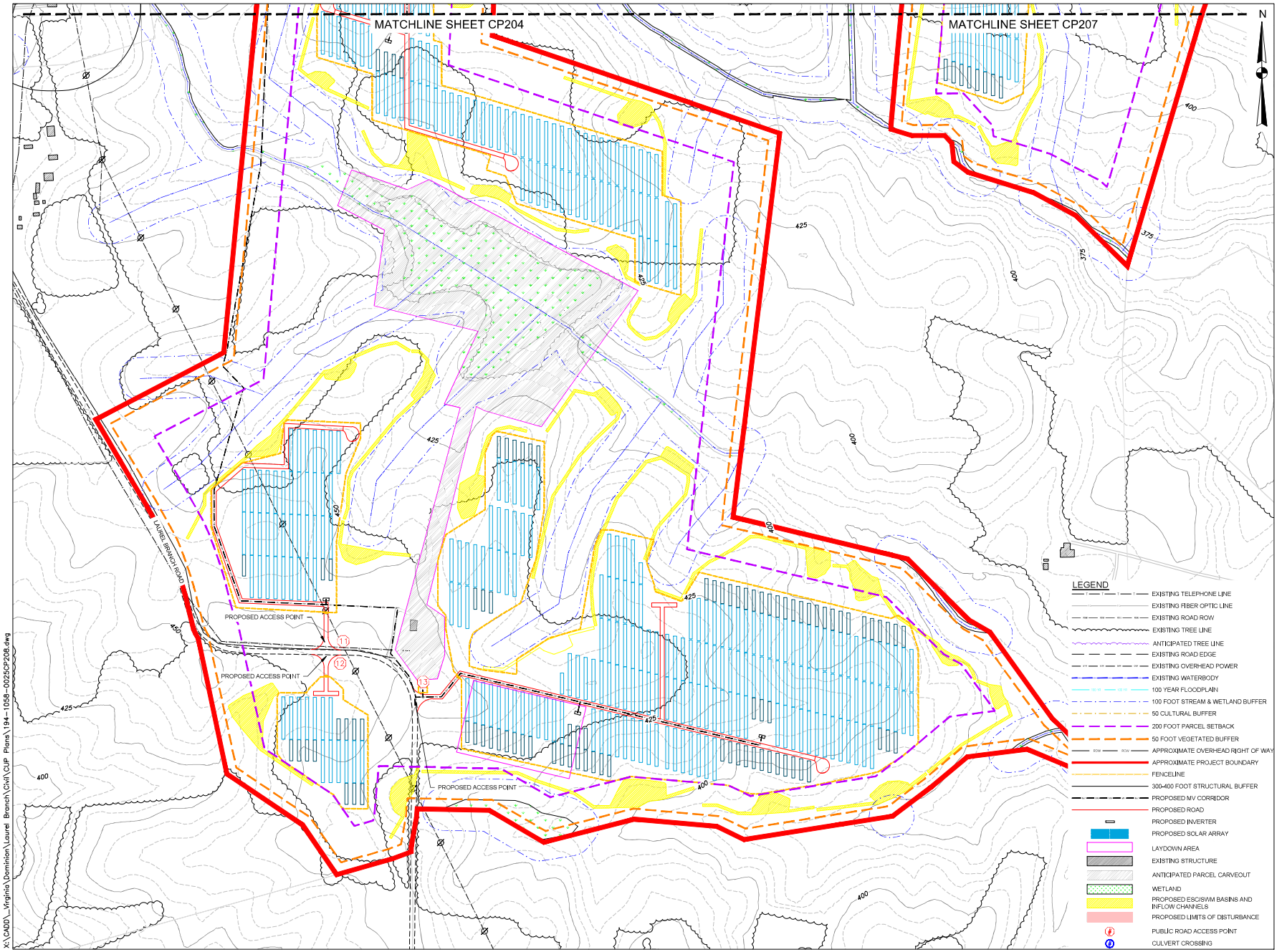
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP207



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Dominion Energy

TETRA TECH

TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
POST-DEVELOPMENT CONDITIONS PLAN SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

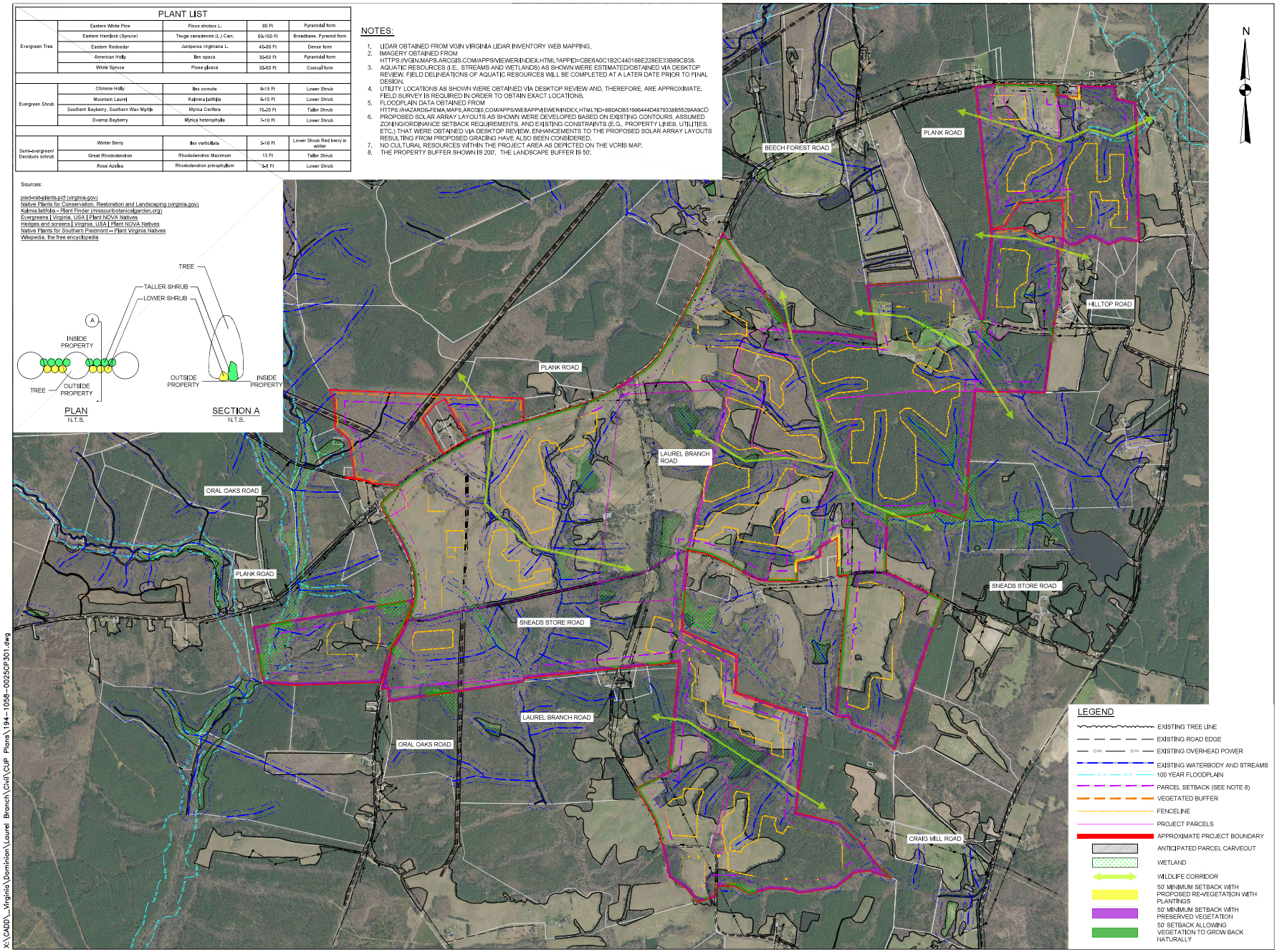
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 200'

SHEET NO.:
CP208



X:\CADD_Virginia\Dominion\Laurel Branch\Civil\CUP Plans\194-1058-0025CP301.dwg

Dominion Energy

TETRA TECH
TETRA TECH, INC.
4101 COX ROAD,
SUITE 120
GLEN ALLEN, VA 23060
TEL: (804) 290-4321
FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
LANDSCAPE BUFFER SHEET

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

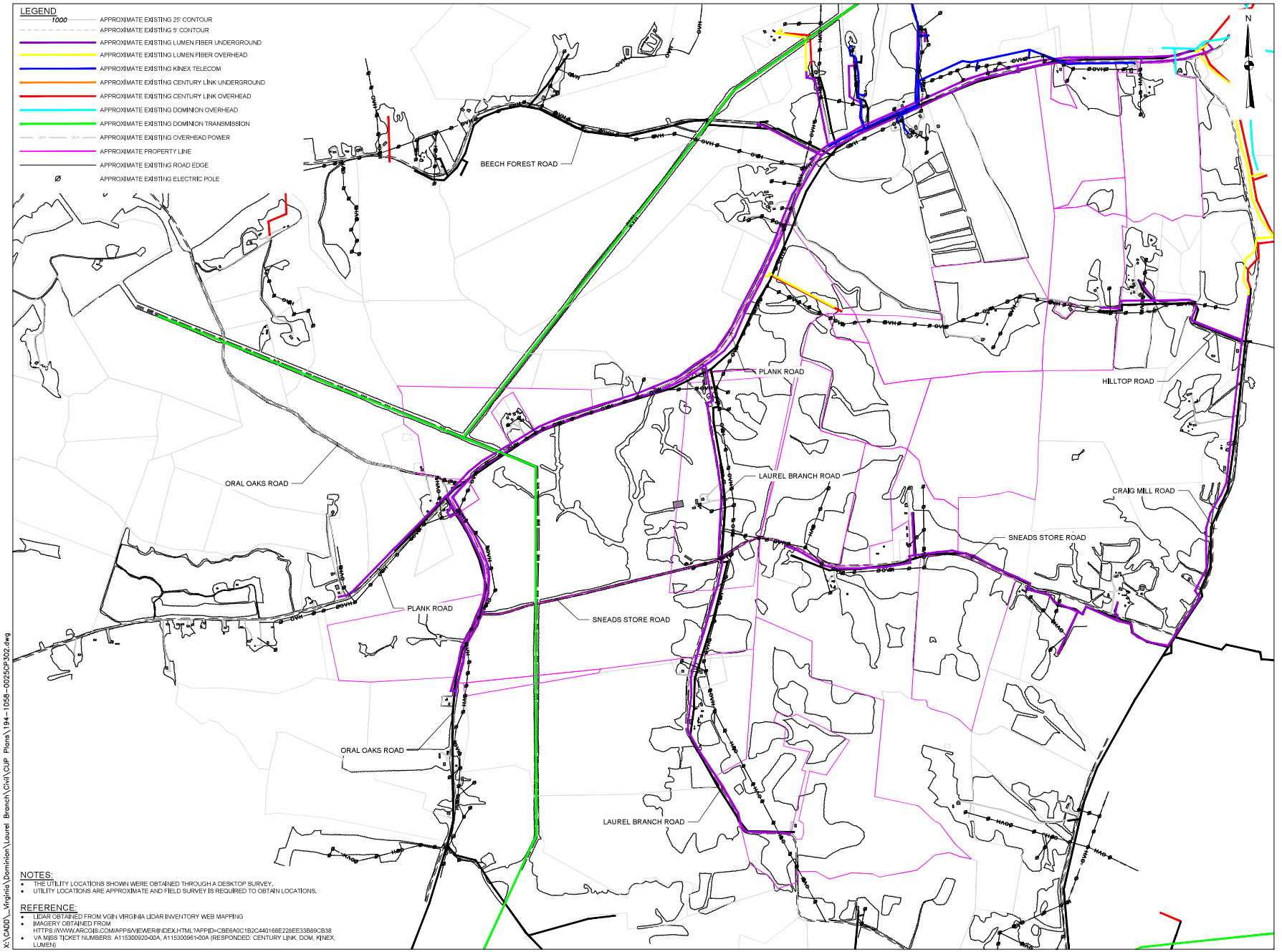
va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 800'

SHEET NO.:
CP301



NOTES:
- THE UTILITY LOCATIONS SHOWN WERE OBTAINED THROUGH A DESKTOP SURVEY.
- UTILITY LOCATIONS ARE APPROXIMATE AND FIELD SURVEY IS REQUIRED TO OBTAIN LOCATIONS.

REFERENCE:
- LIDAR OBTAINED FROM VGIN VIRGINIA LIDAR INVENTORY WEB MAPPING
- IMAGERY OBTAINED FROM HTTPS://WWW.ARCGIS.COM/APPS/VIEWER/INDEX.HTML?APPID=CBE6A0C1B2C440168E228EE33B89CB38
- VA MISS TICKET NUMBERS: A115300920-00A, A115300961-00A (RESPONDED: CENTURY LINK, DOM, KINEX, LUMEN)

X:\CADD_Virginia\Dominion\Laurel Branch\Civil\CUP Plans\194-1058-0025CP302.dwg

Dominion Energy®

TETRA TECH
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GLEN ALLEN, VA 23060
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FAX: (804) 270-2739

STAMP:

NOT FOR CONSTRUCTION

PRELIMINARY

LAUREL BRANCH SOLAR PROJECT

DOMINION ENERGY VIRGINIA
LUNENBURG COUNTY
VIRGINIA

PROJECT NUMBERS:
194-1058-0025

SHEET TITLE:
DESKTOP EVALUATION
UTILITY MAP

SHEET SIZE: ARCH "D"
24" X 36" (610 x 914)
0 ½" 1"

NO.	REVISION	DATE	INIT.
00	CUP APPLICATION	03/01/2022	GAR

va811.com Dig With CARE

DATE:	01/14/2022
DRAWN BY:	GR
ENGINEER:	MS
APPROVED BY:	EO

PROJECT PHASE:
CONDITIONAL USE PERMIT SITE PLANS

SCALE:
1" = 800'

SHEET NO.:
CP302