

# Application to DHCD Submitted through CAMS

James City County

James City County / Cox Last Mile Broadband 2022

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**Application ID:** 86509132021085505

**Application Status:** Pending

**Program Name:** Virginia Telecommunications Initiative 2022

**Organization Name:** James City County

**Organization Address:** 101-A Mounts Bay  
WILLIAMSBURG, VA 23185

**Profile Manager Name:** Vaughn Poller

**Profile Manager Phone:** (757) 253-6694

**Profile Manager Email:** vaughn.poller@jamescitycountyva.gov

**Project Name:** James City County / Cox Last Mile Broadband 2022

**Project Contact Name:** Patrick Page

**Project Contact Phone:** (757) 253-6667

**Project Contact Email:** patrick.page@jamescitycountyva.gov

**Project Location:** 101F Mounts Bay Road  
Williamsburg, VA 23185-6569

**Project Service Area:** James City County

**Total Requested Amount:** \$527,622.00

**Required Annual Audit Status:** Accepted

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## Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$527,622.00	\$132,400.00	\$660,022.00
Construction	\$527,622.00	\$132,400.00	\$660,022.00
<b>Total:</b>	<b>\$527,622.00</b>	<b>\$132,400.00</b>	<b>\$660,022.00</b>

### Budget Narrative:

Other funding includes \$69,350 from James City County and \$63,050 from Cox Communication. All funds will be used for construction.

## Questions and Responses:

### 1. Project Description and Need

Describe why and how the project area(s) was selected. Describe the proposed geographic area including specific boundaries of the project area (e.g. street names, local and regional boundaries, etc.). Attach a copy of the map of your project area(s). Label map: Attachment 1 – Project Area Map.

### Answer:

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Project areas were selected through historical requests to Cox Communications for service where last mile costs exceeded the maximum linear distance to current service infrastructure. Some cases involve last mile distance of private property to homes and others are high installation costs to user density issues. All areas are in the western portion of James City County in primarily rural settings.

## Project Sites (Project Area Map – Page 1)

This overview map will show the northern most portion of James City County. Each labeled location is described below and references a page in the map PDF file.

## Arlington Island Road (Project Area Map – Pages 2 & 3)

During the late summer and fall of 2020 State CARES Act funding was approved to extend internet service to homes at 723 and 821 Arlington Island Road. This provided remote learning and passings to adjacent properties. Extending service to the end of Arlington Island Road and Forest Lake Road would complete the buildout in this area working toward universal coverage.

## Fire Tower Road (Project Area Map – Pages 4 & 5)

Last mile connection to properties at 10070 and 10102 Fire Tower Road. Each property is beyond the standard no charge installation distance for service. These installations move the county closer to universal coverage.

## Forge Road (Project Area Map – Pages 6, 7 & 8)

Last mile connection to the properties located at 2016 and 2526 Forge Road. The properties are beyond the standard no charge installation distance for service. These installations move the county closer to universal coverage.

## Hicks Island Road (Project Area Map – Pages 9 & 10)

Last mile connection to the property located at 8821 Hicks Island Road. The property is beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

## Jolly Pond Road (Project Area Map – Pages 11 & 12)

Last mile connection to the property located at 2050 Jolly Pond Road. The property is beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

## Menzels Road (Project Area Map – Pages 13, 14, & 15)

Last mile connection to the properties located at 6510, 6520, 6550 & 6575 Menzels Road. The properties are beyond the standard no charge installation distance for service and carry with them 9 passings. This installation moves the county closer to universal coverage.

## Mount Laurel Road and Ware Creek Road (Project Area Map – Pages 16, 17 & 18)

Last mile connection to the properties located at 4100 & 4110 Mount Laurel Road and 4316 Ware Creek Road. The properties are beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

## Richmond Road (Project Area Map – Pages 19 & 20)

Last mile connection to the property located at 8804 Richmond Road. The property is beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

## Riverview Plantation Drive and Greenway Circle (Project Area Map – Pages 21, 22 & 23)

Last mile connection to the properties located at 100 Riverview Plantation Drive and 109 Greenway Circle. The properties are beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

## Riverview Road (Project Area Map – Pages 24 & 25)

Last mile connection to the property located at 5198 Riverview Road. The property is beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

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2. List existing providers in the proposed project area and the speeds offered. Please do not include satellite. Describe your outreach efforts to identify existing providers and how this information was compiled with source(s).

**Answer:**

Terrestrial based providers in the project areas are identified by the Federal Communications Commission Fixed Broadband Deployment website. Accuracy of this data source is questionable at best as it will accept addresses that do not exist in our local mapping system. Verification of data was not possible for Verizon as representatives would not return our calls and the service request website could not verify service level availability. Cox Communication provided verified service levels available after infrastructure installation.

See Attachment 17 - Question Document with Charts Links and Images

3. Describe if any areas near the project have received funding from federal grant programs, including but not limited to Connect America Funds II (CAF II), ACAM, ReConnect, Community Connect, and Rural Digital Opportunity Funds (RDOF). If there have been federal funds awarded near the project area(s), provide a map showing these areas, verifying the proposed project area does not conflict with these areas. Do not include areas awarded to satellite broadband providers. Label Map: Attachment 2 – Documentation on Federal Funding Area.

**Answer:**

The property at 8821 Hick's Island Road is near an RDOF area. Cox communication our partner in this application is the holder of this RDOF area. All other properties look to be clear of RDOF areas.

4. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF), excluding those awarded to satellite internet service providers, are included in the VATI application area. If RDOF areas awarded to terrestrial internet service providers are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. Label Attachment: Attachment 3 – RDOF Awarded Areas Form in VATI Area

**Answer:**

The property at 8821 Hick's Island Road is near an RDOF area. Cox communication our partner in this application is the holder of this RDOF area. There is a single passing and this falls in census block number 803.01. See Attachment 3 – RDOF Awarded Areas Form in VATI Area.

5. Overlap: To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds below 25/3 mbps and with less than 25% service overlap within the project area for wireless projects and 10% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. Label Attachment: Attachment 4 – Documentation Unserved Area VATI Criteria.

**Answer:**

Terrestrial based providers in the project areas are identified by the Federal Communications Commission Fixed Broadband Deployment website. Accuracy of this data source is questionable at best as it will accept address that do not exist in our local mapping system. Verification of data was not possible for Verizon as representatives would not return our calls and the service request website could not verify service level availability. Cox Communication provided verified service levels available after infrastructure installation.

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6. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 10 Megabits per second download and 1 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 5 – Passings Form.
- Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area. (Up to 10 points for businesses and community anchor institutions)
  - If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
  - If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise. Describe the methodology used for these projections.
  - If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.
  - Provide the number of passings in the project area that have 10/1 mbps or less. Describe the methodology used for these projections. (up to 15 points)

**Answer:**

See Attachment 5 – Passings Form

**\*\*in localities where Dominion is the energy provider\*\*** (to support “special construction costs/considerations” part of this question)

Dominion Power is actively working on a strategic undergrounding project in the region. This project could potentially impact how our engineers design network expansion plans, which in turn could alter our costs significantly. If Cox needs to attach to utility poles owned by Dominion (for aerial construction) but Dominion has decided to underground lines in an area where we’re looking to expand, our build plans could be impacted; instead of being able to attach to a pole that has since been removed, we will need to plan an underground build which significantly alters the cost of the project. Since the Dominion project is ongoing, determination of aerial or underground could change over the course of the VATI judging and award process; these changes will not be known until a full walk-out of the project is complete, which will not take place until the project funding is awarded and there is an agreement in place to move forward with the project build.

7. **For wireless projects only:** Please explain the ownership of the proposed wireless infrastructure. Please describe if the private co-applicant will own or lease the radio mast, tower, or other vertical structure onto which the wireless infrastructure will be installed.

**Answer:**

NOT APPLICABLE

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8. Speeds: Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. List the private co-applicant's tiered price structure for all speed offerings in the proposed project area, including the lowest tiered speed offering at or above 25/3 mbps. (up to 10 points)

**Answer:**

The proposed project and construction will be incorporated into the existing hybrid fiber-coax (HFC) network owned and operated by Cox Communications; it will be capable of providing residential and home-based business customers with download speeds of up to 940 Mbps and upload speeds of up to 35 Mbps through the Docsis 3.1 platform.

Cox provides internet speeds ranging from 25Mbps/1Mbps to up to 940 Mbps/35Mbps. Cox continues to offer a 25Mbps/1Mbps service tier as a low-cost option, ideal for up to three devices and light web surfing, email, and social networking; this is an economical solution for customers who don't want to pay for higher speeds they don't need and won't use.

All Cox internet plans come with access to more than three million WiFi hotspots nationwide.

(\*\*if the build passes businesses that are unserved...) The build will also allow our commercial services team, Cox Business, to extend their services to any unserved businesses along the network expansion route, giving them access to the suite of business services available, including broadband speeds up to 100 gbps.

Prices include monthly charges and applicable discounts. Promotional pricing may differ depending on the customer's decision to bundle services and expiration of/changes to promotional pricing. One-time charges, activation fees and monthly equipment fees may apply.

\* For Cox Business Internet 100 and 200 levels, there is also a month-to-month option; this option increases the cost by \$15 per month.

Cox Business also offers customized enterprise internet solutions, dedicated fiber, HFC internet, and managed WiFi solutions to meet individual needs of businesses. With symmetrical speeds of up to 10+ Gbps, there are solutions to support any size business.

In response to the increase of residents shifting to a work-from-home model, Cox Business launched an enterprise-grade work-at-home connectivity solution which would be available to residents benefiting from this last mile extension. This is a separate internet connection that would go directly to the employee's home and will have the capability to provide remote staff with company-provided services, including broadband, WiFi, McAfee endpoint security and MalBlock to help ensure staff members have the same options for connectivity they would have if they were working in the office.

See Attachment 17 - Question Document with Charts Links and Images

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9. Network Design: Provide a description of the network system design used to deliver broadband service from the network's primary internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Provide a detailed explanation of how this information was determined with sources. Provide information on how capacity for scalability, or expansion, of how the network can adapt to future needs. If using a technology with shared bandwidth, describe how the equipment will handle capacity during peak intervals. For wireless projects, provide a propagation map for the proposed project area with a clearly defined legend for scale of map. Label Map: Attachment 6 – Propagation Map Wireless Project.

**Answer:**

Cox's highly redundant and resilient network is managed around the clock by a full staff of nationwide network professionals that can holistically monitor and manage the Cox network both physically from network operations centers and 100 percent virtually, if needed. Their forward-thinking network management and service assurance philosophy means they have software-enabled and virtualized significant portions of their network to proactively and reactively solve any temporary customer and network issues in a timely and efficient manner.

Cox operates a high-speed, national fiber optic backbone comprised of tens of thousands of fiber miles. The backbone is self-healing through strategic deployment of core infrastructure components. Multiple diverse connections help ensure backbone locations are not isolated in the event of an outage and that they maintain ample capacity to handle peak traffic periods. Their experience includes keeping customers online and connected during wildfires, mudslides, severe weather events and numerous other natural disasters.

Through the video franchise with James City County, Cox Communications has built and maintained a hybrid fiber-coax (HFC) network in the county for decades for distribution of the company's services (voice, video, data, security, business services) to its subscribers. The technology connects our subscribers to one of the company's 21 critical facilities located in Virginia. These critical facilities contain the company's core network hardware and connections to the internet and public switched telephone network. All network hardware and network connections in our critical facilities have at least two layers of redundancy.

Hybrid fiber coaxial (HFC) networks send signals from the Cox's critical facilities to the communities we service through fiber optic cables. At the local community, a box called an optical node translates the signal from a light beam to radio frequency (RF) and sends it over coaxial cable lines for distribution to our residential and business subscribers. The fiberoptic backbone feeding the communities we service provide adequate bandwidth to allow for timely future expansion and new bandwidth-intensive services.

Cox trains and employs engineers and technicians to ensure we maintain a 99.999% network reliability. Again, the network and hub site are monitored both locally and nationally 24 hours a day and 365 days a year.

The company constantly monitors its network and upgrades accordingly in order to meet subscriber demand. Typical surges in broadband traffic occur in the evenings, on weekends and on holidays. In light of the recent COVID crisis and the number of individuals working from home and students connecting virtually for their education, Cox implemented their processes for peak use to respond appropriately to meet the demand from this shift in usage. They've also successfully virtualized their network operations by executing long-term business continuity strategies, implementing new leading-edge collaboration and predictive analytic tools, providing full functionality mobile workstations and equipping their network operations teams with robust tools to work remotely.

10. Explain how the proposed project achieves universal broadband coverage for the locality or fits into a larger plan to achieve universal broadband coverage for the locality. If applicable, explain the remaining areas of need in the locality and a brief description of the plan to achieve universal broadband coverage. (up to 50 points)

**Answer:**

James City County is seeking to achieve Universal Broadband Service by partnering with Cox Communication and focusing on the last few citizens lacking service. Currently Cox Communication is the largest broadband provider in James City County. Customers seeking broadband connections in the western rural areas of the county have contacted Cox for service only to be faced with special construction costs for last-mile construction. Cox Communication deems their customer information proprietary, and the County relies on their request information to show progress toward universal broadband status. The County expects that future requests would fall into the category of special construction costs. The county would look to partner with Cox Communication in the future to fill in the remaining gaps.

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## 11. Project Readiness

Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants must include Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant; (up to 20 points)

### Answer:

The plan demonstrates a commitment to reach the 2022 completion date with a steady and phased-in process to include: creating project account, performing field survey for construction, completing Dominion Power pole application process, designing project, securing VDOT permits and private property easements, ordering project materials, setting power supply units, performing aerial and underground construction, activating the network, and releasing the addresses. Cox Communications personnel overseeing the planning and construction phases have thoroughly reviewed the project management plan and timeline to confirm that all resources are available to complete the project by the required time frame.

12. Has the applicant or co-applicant received any VATI grants? If so, provide a list of these grants, with a detailed summary of the status of each.

### Answer:

Cox is familiar with the VATI grant process, having worked with localities for each VATI grant cycle since the inception of the program.

Cox was part of one of the first VATI awards made in 2016, successfully partnering with Gloucester County to bring last mile broadband service to more than 100 homes and businesses in a previously unserved area of the County.

Cox is currently in the planning phase of a 2021-awarded VATI grant project in Chesapeake; we are on track to have customers connected within the 12-month deadline for project completion.

See Attachment 17 - Question Document with Charts Links and Images

13. Matching funds: Complete the funding sources table indicating the cash match and in-kind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum 20% match is required to be eligible for VATI, the private sector provider must provide 10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding

### Answer:

See Attachment 9 – Funding Sources Table

14. Leverage: Describe any leverage being provided by the applicant, co-applicant, and partner(s) in support of the proposed project. (up to 10 points)

### Answer:

The County would provide any services our departments can render towards the goal of universal broadband status. Our Community Development department can assist with any local environmental or construction permitting necessary to complete construction.

15. Marketing: Describe the broadband adoption plan.

a. Explain how you plan to promote customer take rate, including marketing activities, outreach plan, and other actions to reach the identified serviceable units within the project area. Provide the anticipated take rate and describe the basis for the estimate. (up to 10 points)

b. Describe any digital literacy efforts to ensure residents and businesses in the proposed project area sufficiently utilize broadband. Please list any partnering organizations for digital literacy, such as the local library or cooperative extension office.



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## Answer:

Cox has been serving James City County for more than several decades, with local employees servicing homes and businesses throughout the region. The Cox brand is well-recognized as a local technology leader and a company that is committed to the communities it serves.

Cox actively promotes its products and services in James City County through a multi-faceted, multi-million-dollar marketing campaign that includes both direct and indirect sales, outdoor billboards, digital advertising, social media presence, and television commercials.

This build will benefit from all national and local advertising investments by Cox Communications.

In addition to traditional marketing, Cox is also a strong supporter of local business and nonprofits through sponsorships at large venues and events that attract attendees from all across the region; these relationships are negotiated annually and have included the Virginia Beach Amphitheater, ODU Football, Virginia Tech Football, the Patriotic Festival and Something in the Water.

On September 8, 2021, Cox announced a collaboration with Malcolm Mitchell, Super Bowl champion and Share the Magic Foundation founder, to narrow the learning gap in diverse, low-income neighborhoods through its Connect2Comepte program. The new partnership builds upon Cox Communications' continued commitment to ensuring low-income, K-12 students are positioned for the future through technology. Cox also partners with Boys & Girls Clubs of America, where the company has provided Innovation Labs as a place for kids and teens to access the internet and grow digital literacy skills after school.

Cox has several resources for families and businesses in support of digital literacy and maximizing broadband capabilities, addressing the ongoing needs throughout the pandemic. In addition to being an early signee of the FCC's Keep America Connected pledge at the onset of the pandemic in 2020, several digital equity efforts by Cox have recently been put into place:

Cox announced its participation in the FCC's Emergency Connectivity Fund to deliver internet services to students, educational staff and library patrons who would otherwise lack a sufficient connection to the internet for remote learning and remote library services. For more information on the FCC's ECF program, visit [cox.com/ecf](http://cox.com/ecf).

Cox is a participant in the FCC's Emergency Broadband Benefit program which provides temporary financial assistance for internet service. Eligible families may qualify to receive up to \$50 off their monthly bill based on their current internet service and equipment rental, or up to \$75 if they live in a tribal area. Cox Connect2Compete customers are eligible for this benefit. For more information on the FCC's EBB program, visit [cox.com/ebb](http://cox.com/ebb).

Cox announced that the temporary connection speed increase for Connect2Compete, prompted by the COVID-19 pandemic, would become the new standard speed for Connect2Compete internet service. The connection speed was bolstered from 25 Mbps to 50 Mbps.

Last year, Cox suspended late fees and extended payment relief offerings for customers in the Connect2Compete program who expressed an inability to pay due to pandemic hardships.

The Digital Academy is the digital literacy arm of Cox's Connect2Compete program designed to connect families, educators, community leaders and students with free access to tips, educational videos and tutorials to ensure safe and effective online behavior. This platform is continuously updated with fresh and relevant information.

Cox added the MyFuture platform from the Boys and Girls Clubs of America recently to the Digital Academy. My Future empowers kids and teens to learn new skills, share accomplishments and earn recognition via gamification in a safe and fun online environment.

Cox also has a YouTube page with product how-to videos supporting digital literacy, troubleshooting and teaching users how to get the most out of their services. Cox also employs a technical support care team available 24/7 to help customers navigate their Cox technology in their homes.

For business customers, CoxBlue.com provides endless resources for small and medium sized businesses – everything

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from blog posts on small business trends to how to reopen your business after a shutdown.

James City County works closely with Williamsburg James City County Schools to assist with the broadband needs of students. Evidence of this was the joint identification of students needing broadband service during the COVID-19 pandemic. State CARES funding was used in 2020 to provide remote learning for students in need. The County currently promotes through social media posts federally funded discounts to service rates for students in need. The Williamsburg Regional Library also promotes broadband services and potential solutions for the disadvantaged and elderly in the community.

16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co applicant's history and experience with managing grants and constructing broadband communication facilities. Please attach any letters of support from stakeholders. If the applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality. Attachment 11 – Letters of Support.

## Answer:

James City County Project Manager: Patrick Page, Director of Information Resources Management.

Responsible for providing oversight for cable franchise with Cox Communications, public video production and distribution via cable service and streaming. Management of joint County and Schools fiber optic network in support of school and county communication and computing needs.

Cox Communications Project Manager: Mark Cosby, Planning & Construction Manager

Cox Communications Government/JCC Liaison: Sarah Buck, Public Affairs Sr. Manager

James City County is working with Cox Communications, a privately-held, nationally recognized provider of broadband, digital cable television and other telecommunications services. With 125,000 miles of network infrastructure nationwide, Cox Communications is the third largest telecommunications corporation in the United States, serving more than 6 million homes and businesses. Our culture values customer satisfaction, diversity, environmental responsibility, and employee well-being. Our employees are positive ambassadors for Cox; they share our natural commitment to the customer experience. Cox also takes great pride in utilizing SWaM subcontractors where possible to complete construction projects. We maintain our own Supplier Diversity Program to make a good faith effort to utilize small, women- and/or minority-owned business subcontractors and suppliers. Furthermore, our engineering, construction, and planning leaders bring decades of experience to the project team, ensuring the most effective and economic service delivery for this broadband expansion project.

Cox and James City County entered into their first cable television franchise agreement several decades ago. Since that time the city and Cox have experienced a collaborative and mutually beneficial working relationship.

Cox Communications provides broadband connectivity to James City County through its fiber-based network. However, there are homes in the more rural area of the county that still lack connectivity because of the proximity of the home to Cox's existing network. This grant opportunity presents a viable means and solution to expand services where it would otherwise be financially unfeasible for both Cox and the homeowner.

Cox is familiar with the VATI grant process, being part of one of the first VATI awards made in 2016. Cox successfully partnered with Gloucester County to bring last mile service to more than 100 homes and businesses in a previously unserved area of the County.

Additionally, Cox partnered James City County and several other localities including New Kent County, Stafford County, and Roanoke County to identify and complete broadband expansion projects using funds allocated from the CARES Act in 2020/2021.

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## 17. Project Budget and Cost Appropriateness

Budget: Applicants must provide a detailed budget that outlines how the grant funds will be utilized, including an itemization of equipment, construction costs, and a justification of proposed expenses. If designating more than one service area in a single application, each service area must have delineated budget information. For wireless projects, please include delineated budget information by each tower. Expenses should be substantiated by clear cost estimates. Include copies of vendor quotes or documented cost estimates supporting the proposed budget. Label Attachments: Attachment 12 – Derivation of Costs; Attachment 13 - Documentation of Supporting Cost Estimates. (up to 10 points)

### Answer:

See Attachment 13 – Documentation of Supporting Cost Estimates

18. The cost benefit index is comprised of state cost per unit passed. Individual cost benefit scores are calculated and averaged together to create a point scale for a composite score. Provide the following:

a. Total VATI funding request

b. Number of serviceable units  
(up to 125 points)

### Answer:

James City County and Cox Communication are asking VATI for \$502,927 with a cost per home to the state of \$14,369. The total project cost per passing is \$18,334

A majority of these homes are situated down long driveways which requires additional equipment to extend the network appropriately. As farmland or large lots are parceled off or sold to developers, the neighborhoods may meet a density requirement, the expense to extend the network to reach the neighborhood could presents financial barrier. Unless the builder is willing to absorb the cost of the network extension, the burden therein lies with the homeowner. Receiving funds to complete these builds will not only provide service for these 26 homes and 9 lots that are currently under construction, but will set us up for success as more builders choose JCC to build new neighborhoods and land becomes available. Connecting these 26 homes and wiring the 9 new lots in the County will ensure universal coverage for James City County.

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## 19. Commonwealth Priorities (Up to 40 points)

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. If applicable, describe the following:

- a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband.
- b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies.
- c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 25/3 mbps.

### Answer:

Cox has hundreds of miles of fiber throughout the Hampton Roads region, including James City County. With the exception of the homes we're focusing on in this grant application, any resident in James City County can access the Cox network for broadband service. The homes in this application are currently not able to access Cox service because of the proximity of their home to the existing Cox network, with cost to connectivity being the dominant barrier.

Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 25/3 mbps:

The Cox Connect2Compete program launched in Virginia in 2013. To date, more than 10,000 families in Virginia are benefiting from the program by having access to an in-home 50/3 mbps broadband connection. Families with a student in k-12 that participate in government assistance programs like Head Start, NSLP, WIC, LIHEAP, SNAP, TANF or who live in government housing qualify for this service option. We have tremendous local partners in this effort including school systems, libraries, youth-focused nonprofits, and social services organizations.

In addition to Connect2Compete, Cox offers a variety of options for connectivity including a pay-as-you-go option called Straight Up internet which is 25/3 mbps in-home internet with wifi for \$50 per month. This option does not require a contract, credit check or deposit. A modem and all fees are included in the \$50 per month pricing.

Cox is also a participating provider in the Emergency Broadband Benefit program as it aligns with our long-standing commitment to narrowing the digital divide. We raised our hand without hesitation to help administer the government's program and deliver whatever financial relief is available – for however long – in order to help our customers during this challenging time. Additionally, Cox is working with local schools and libraries to help provide internet service through the FCC's Emergency Connectivity Fund (ECF) program. Cox's ECF offering will equip customers with internet service with speeds of 50/3 mbps and a wifi modem. Again, we immediately raised our hand to participate in this federal program to help connect families afford an in-home connection.

In response to the COVID crisis in early 2020, Cox put several programs in place to help support residential and business customers respond to the pandemic and its uncertainty. Plans included offering a low-income internet tier with no annual contract and offering two months of free internet to new Connect2Compete customers. Cox was also able to set up a program to help third-party organizations (i.e., localities, non-profits) and businesses help pay for connectivity for families or employees in response to the pandemic.

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## 20. Additional Information

Provide the two most recent Form 477 submitted to the FCC, or equivalent, as well as point, polygon, and, for wireless providers, RSSI shapefiles for the project area **in .zip file form**. With attachments 17 through 20, attach any other information that the applicant desires to include. Applicants are limited to four additional attachments.

Label Additional Attachments as:

- a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 15 - Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area
- c. Attachment 16 - For wireless applicants: shapefiles, in .zip file form, indicating RSSI projections in the application area
- d. Attachment 17 – XXXXXXXX
- e. Attachment 18 – XXXXXXXX
- f. Attachment 19 – XXXXXXXX
- g. Attachment 20 – XXXXXXXX

### Answer:

A & B attachments submitted. D attachment used as a copy of all narratives plus tables, links and images.

### Attachments:

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMap914202134458.pdf

Documentation of Federal Funding (CAF/ACAM/USDA/RDOF, etc...) in and/or near proposed project area.

Attachment2DocumentationofFederalFundingArea914202134854.pdf

RDOF Awarded Areas included in VATI Application (Use template provided)

Attachment3RDOFAwardedAreainVATIProjectArea914202134929.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment4DocumentationUnservedAreaVATICriteria914202134947.pdf

# Application to DHCD Submitted through CAMS

James City County

James City County / Cox Last Mile Broadband 2022

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Passings Form (Use template provided)

Attachment5PassingsForm914202135001.pdf

Timeline/Project Management Plan

Attachment7TimelineProjectManagementPlanJCC914202135019.pdf

MOU/MOA between applicant/co-applicant (can be in draft form)

Attachment8MOUMOABetweenApplicantandCoApplicant914202135033.pdf

Funding Sources Table (Use template provided)

Attachment9FundingSourceTable914202135101.pdf

Documentation of Match Funding

Attachment10DocumentationofMatchFunding914202135117.pdf

Letters of Support

Attachment11LettersofSupport914202135128.pdf

Derivation of Cost/Project Budget (Use template provided)

Attachment12DerivationofCosts914202135141.pdf

Documentation of Supporting Cost Estimates

Attachment13DocumentationofSupportingCostEstimates914202135158.pdf

Two most recent Form 477 submitted to the FCC or equivalent

Attachment14TwoMostRecent477FormsSubmittedtotheFCC914202135223.pdf

Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area

JCCox914202135238.zip

Optional

Attachment17QuestionDocumentwithChartsLinksandImages914202135252.docx

# Application to DHCD Submitted through CAMS

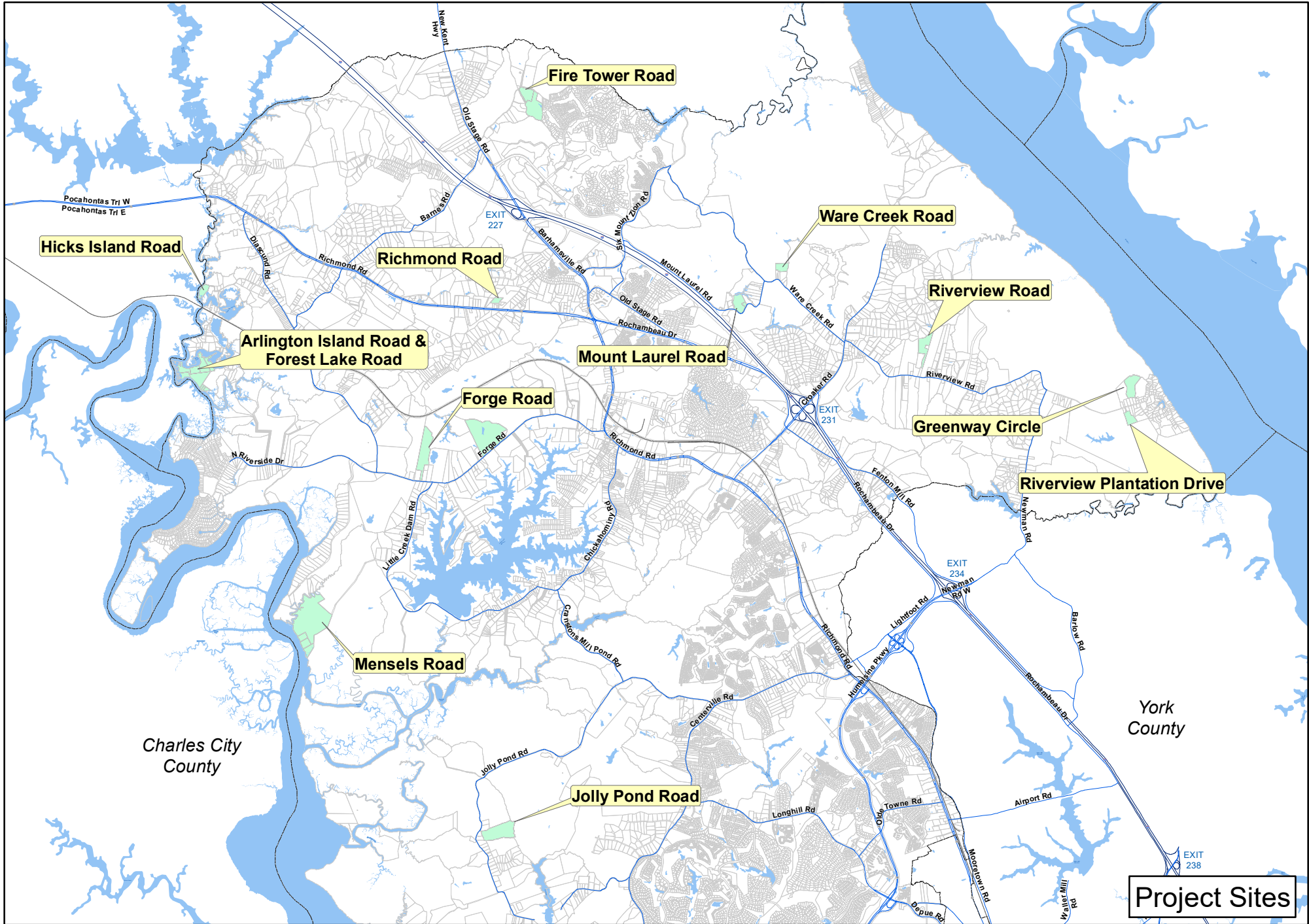
James City County

James City County / Cox Last Mile Broadband 2022

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**Notes:**

Thank you for this opportunity to assist our citizens with their broadband needs.



**Project Sites**



1 inch = 8,000 feet  
 0 4,000 8,000  
 Feet

# James City County

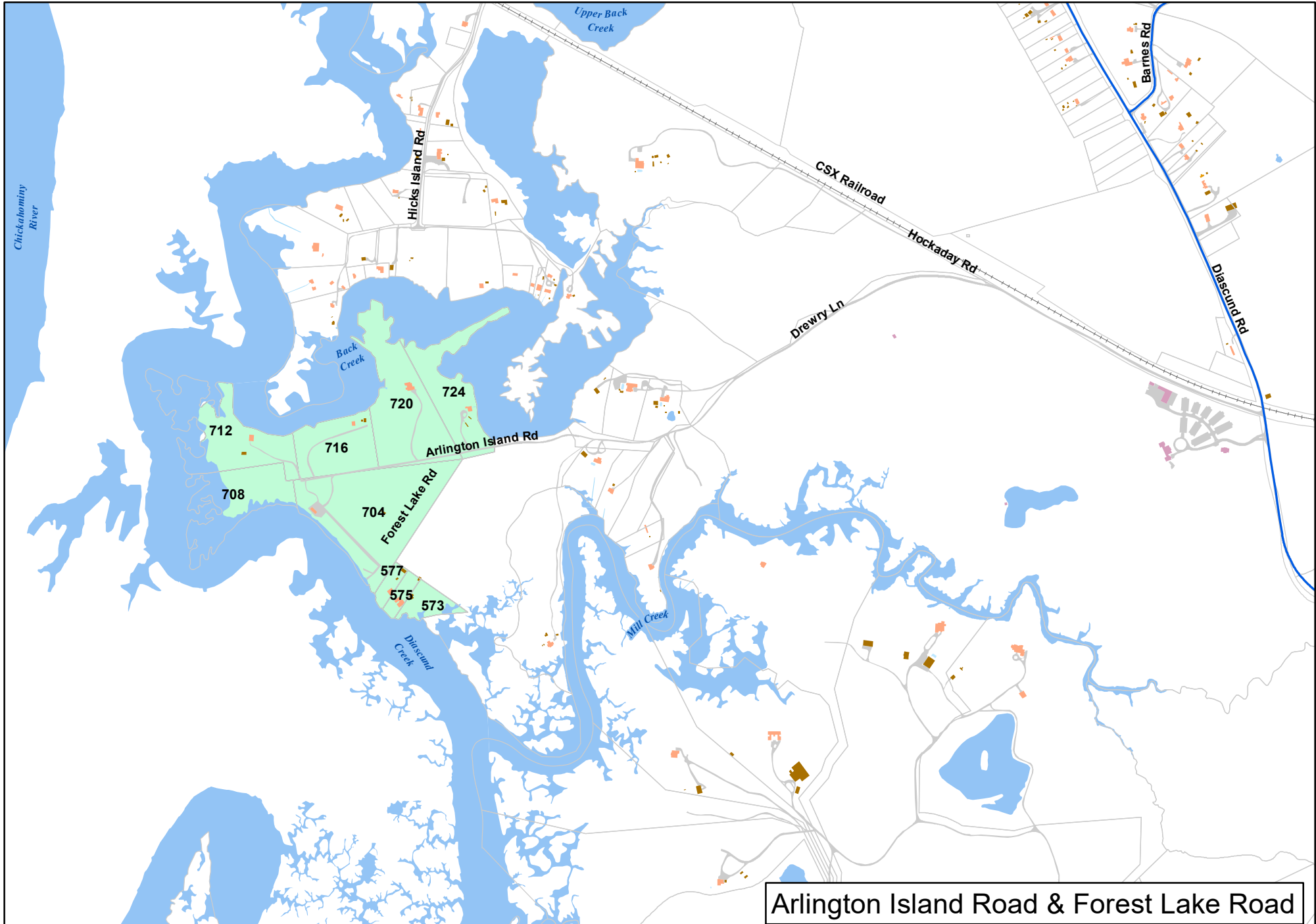


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### Arlington Island Road & Forest Lake Road



1 inch = 1,000 feet  
0 500 1,000 Feet

# James City County



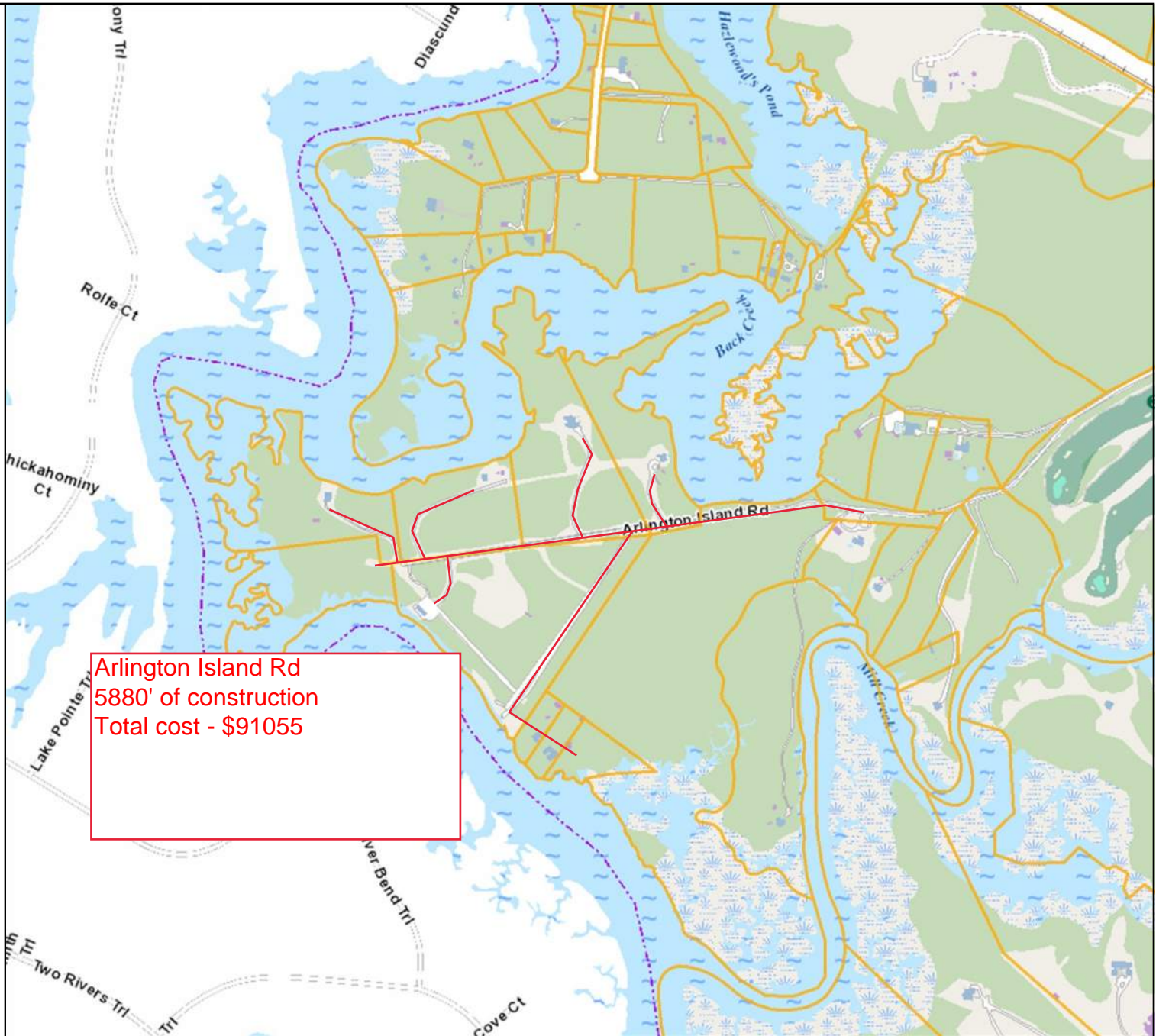
This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and James City County is not responsible for its accuracy or how current it may be.

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M:\Departments\IRM\Patrick\Cox\_Broadband\Location\_Maps\Cox\_Project\_2021\ArlingtonIslandRoad.mxd

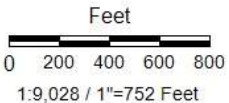


**Legend**

Parcels



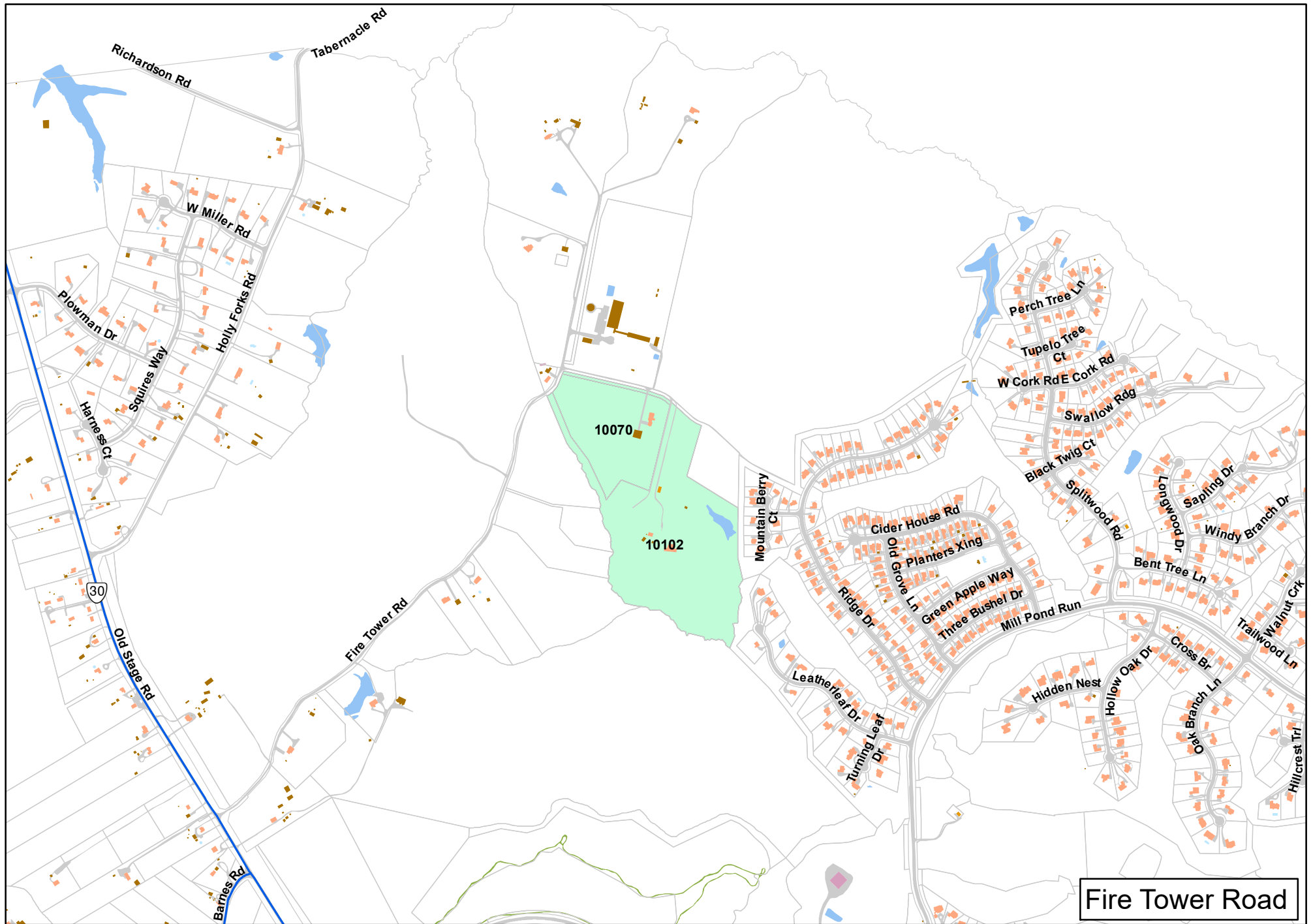
Arlington Island Rd  
5880' of construction  
Total cost - \$91055



**Title:**

**Date: 8/31/2021**

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Fire Tower Road



1 inch = 1,000 feet  
 0 500 1,000  
 Feet

# James City County



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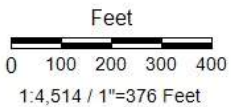
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**Legend**

- Parcels
- Preliminary REA Label & Addresses
- Street Names

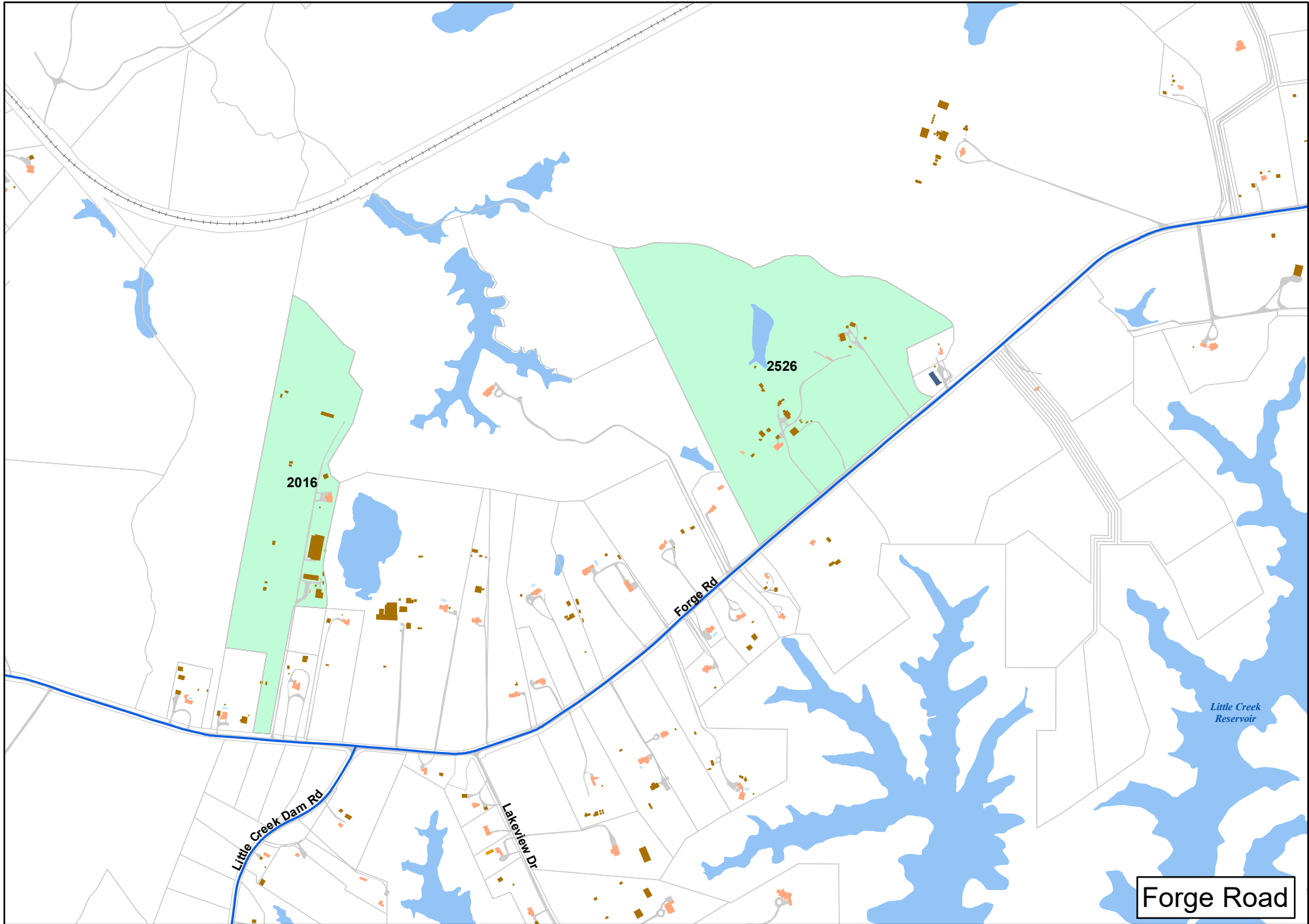
10070 and 10102 Fire Tower Rd  
2000' of construction  
Total cost - \$28420



**Title:**

**Date: 8/26/2021**

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1 inch = 1,000 feet  
0 500 1,000 Feet

# James City County



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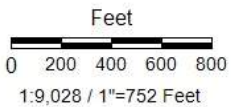
M:\Departments\IRM\Patrick\Cox\_Broadband\Location\_Maps\Cox\_Project\_2021\Final\_Maps\_Cox\ForgeRoad.mxd



**Legend**

Parcels

2016 Forge Rd  
2700' of construction  
Total cost - \$38367



**Title:**

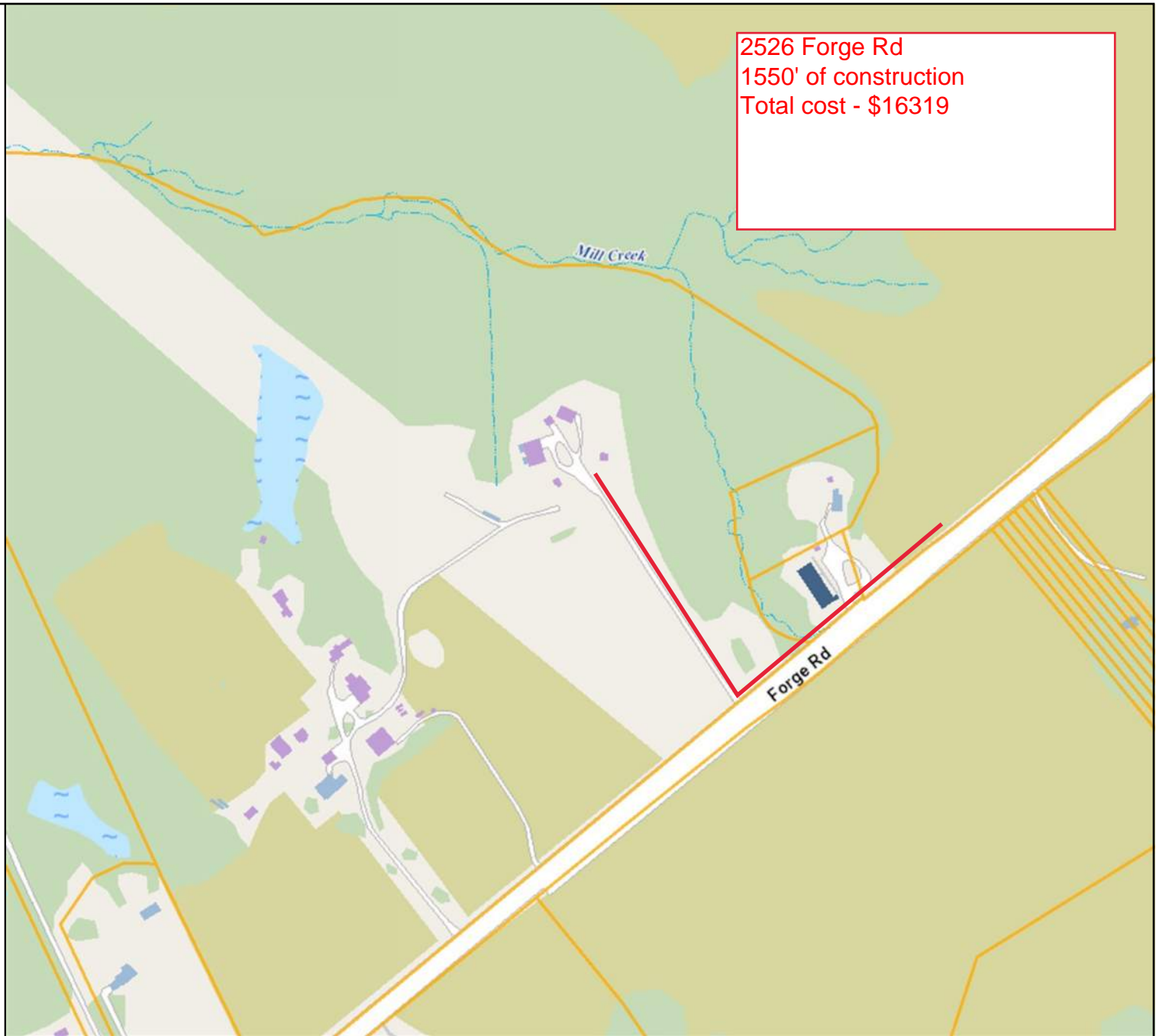
**Date: 8/27/2021**

*DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and James City County is not responsible for its accuracy or how current it may be.*

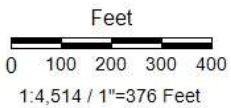


**Legend**

Parcels



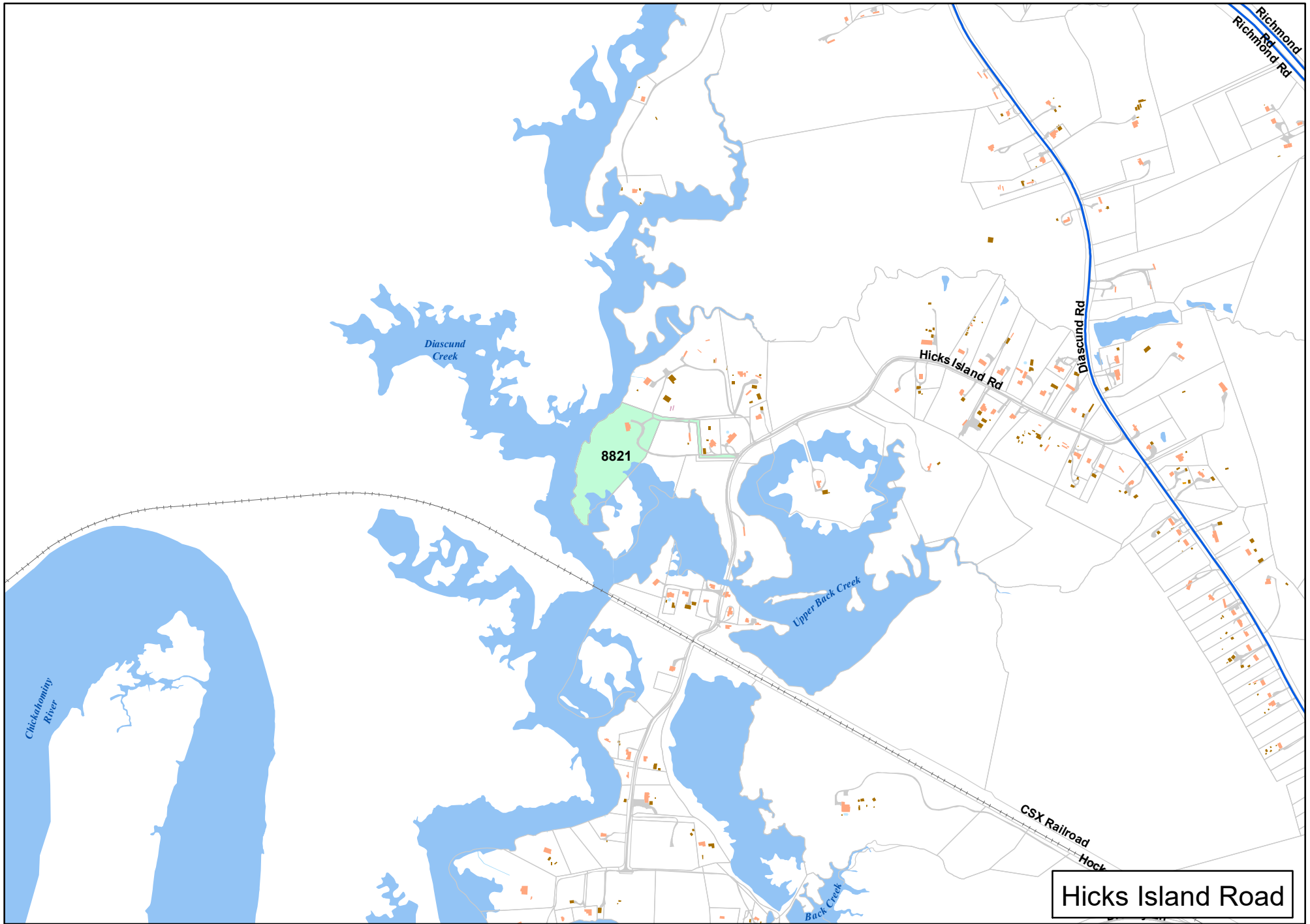
2526 Forge Rd  
1550' of construction  
Total cost - \$16319



**Title:**

**Date: 8/31/2021**

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Hicks Island Road



1 inch = 1,000 feet  
0 500 1,000  
Feet

# James City County



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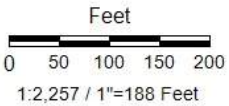


**Legend**

Parcels



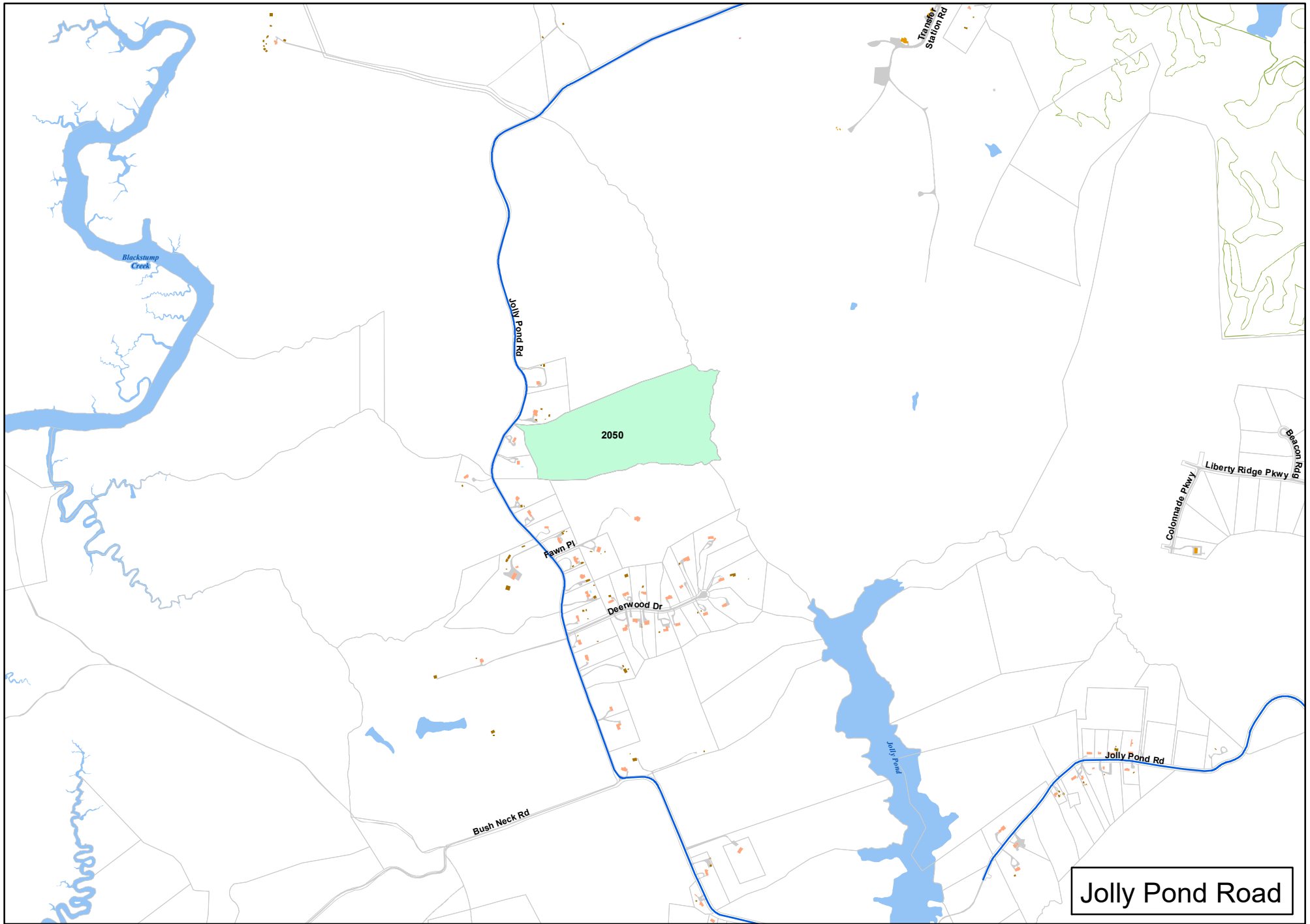
8821 Hicks Island Rd  
350' of construction  
Total cost - \$4973.50



**Title:**

**Date: 9/8/2021**

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Jolly Pond Road



1 inch = 1,381 feet  
0 650 1,300 Feet

James City County



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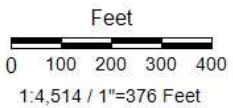
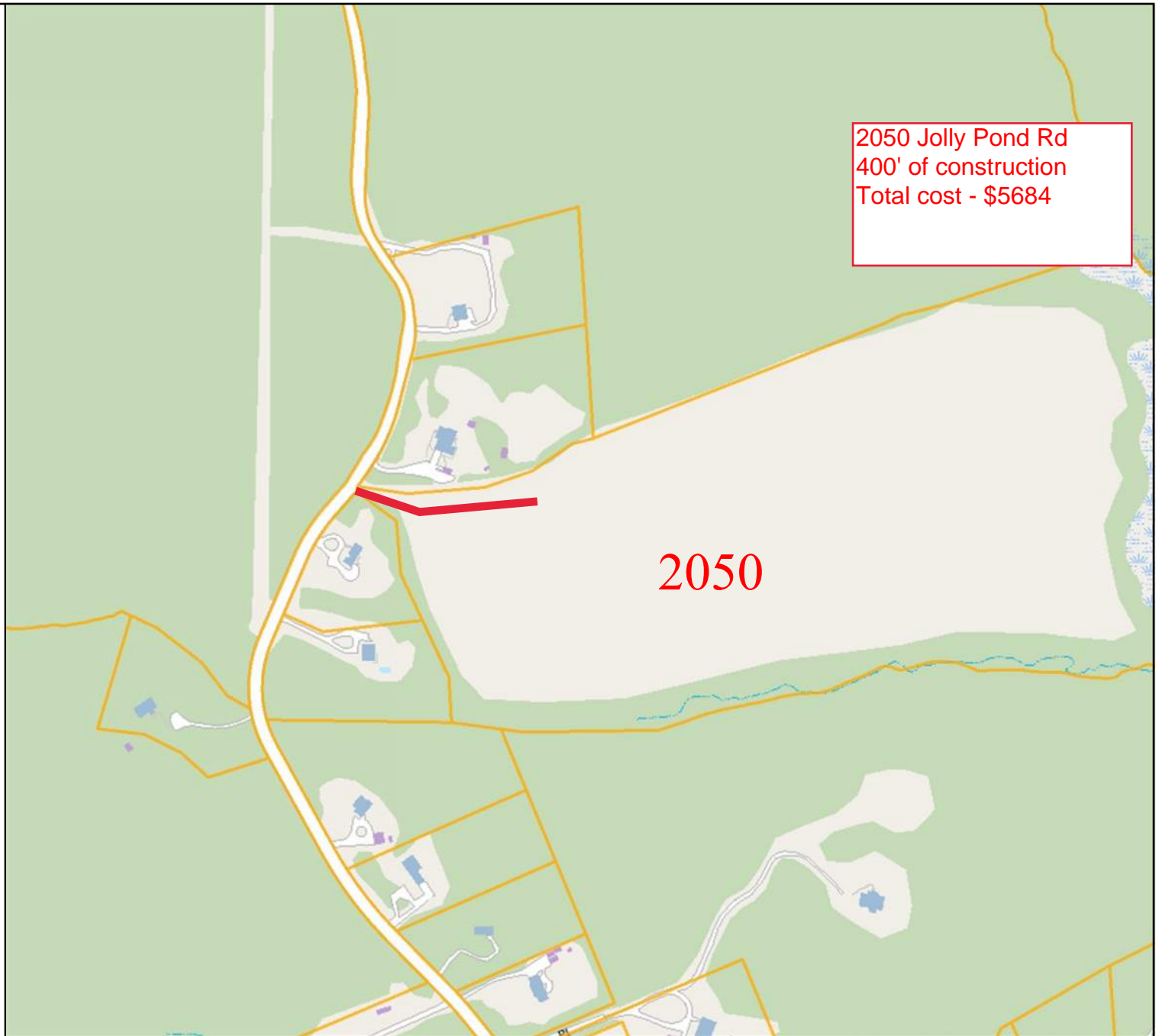
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**Legend**

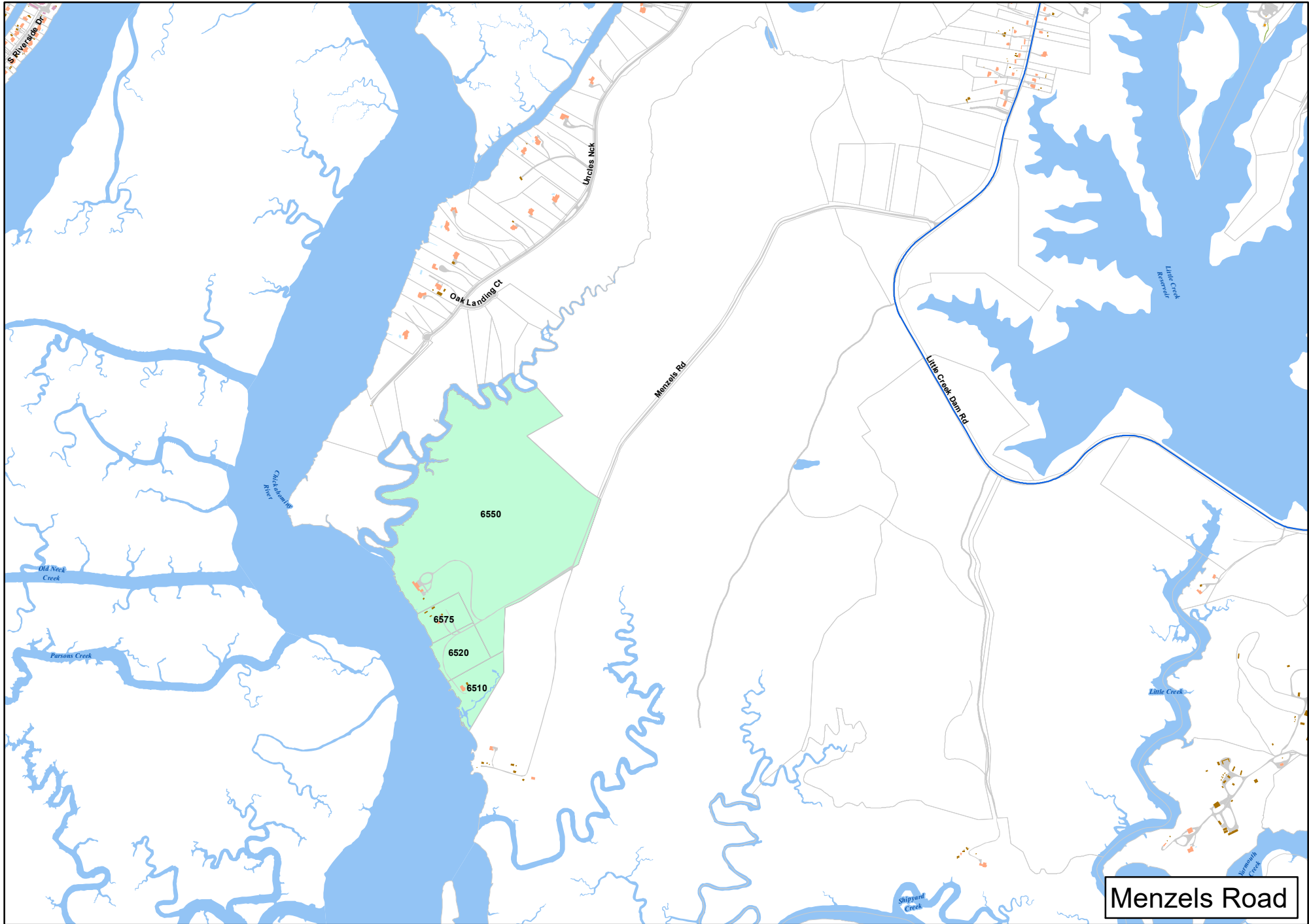
Parcels



**Title:**

**Date: 8/31/2021**

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Menzels Road



1 inch = 1,500 feet  
 0 750 1,500 Feet

# James City County



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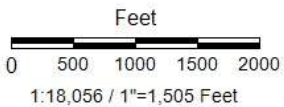
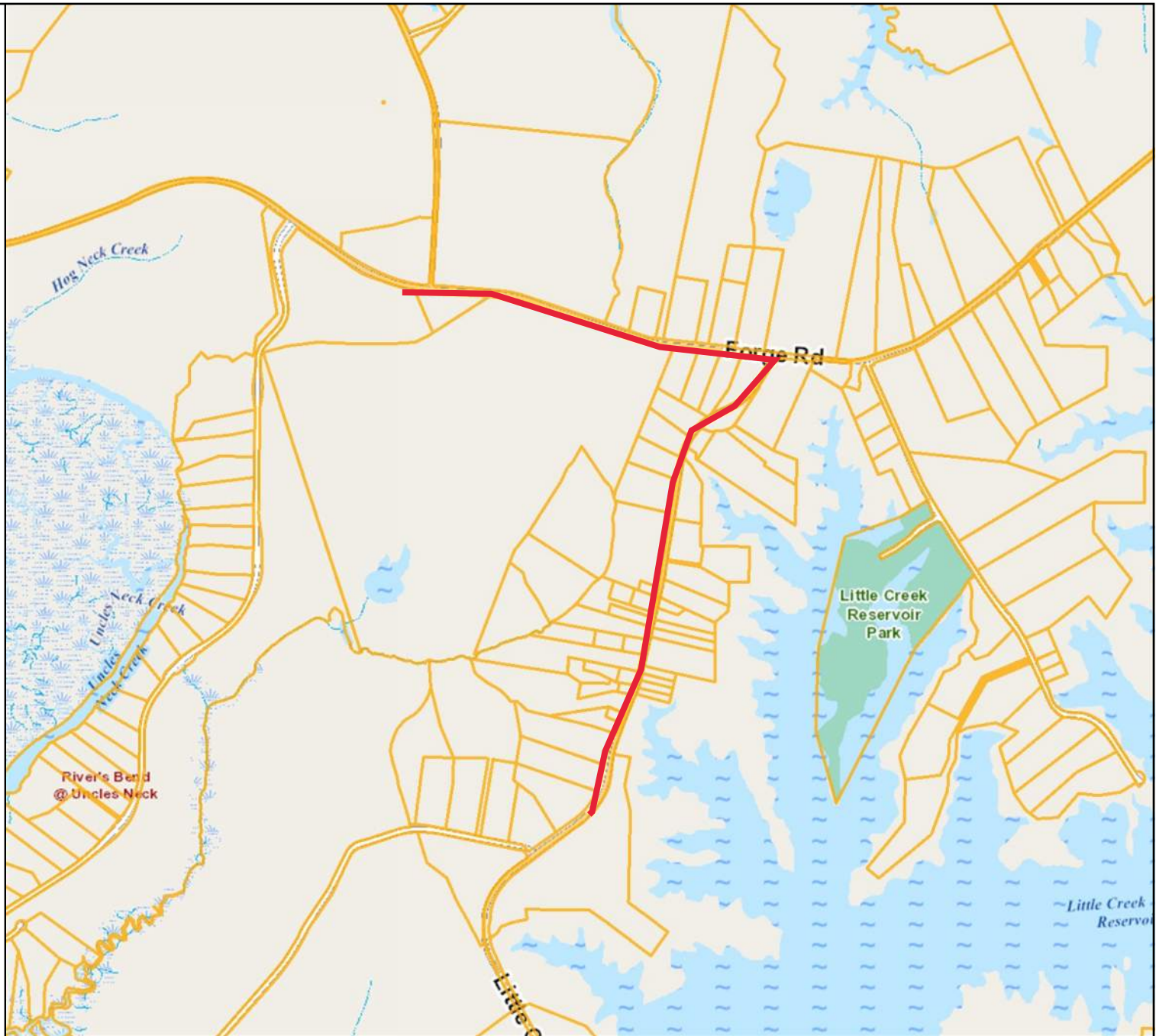
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**Legend**

Parcels



**Title:**

**Date: 9/13/2021**

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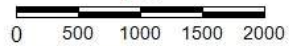


**Legend**

Parcels



Feet

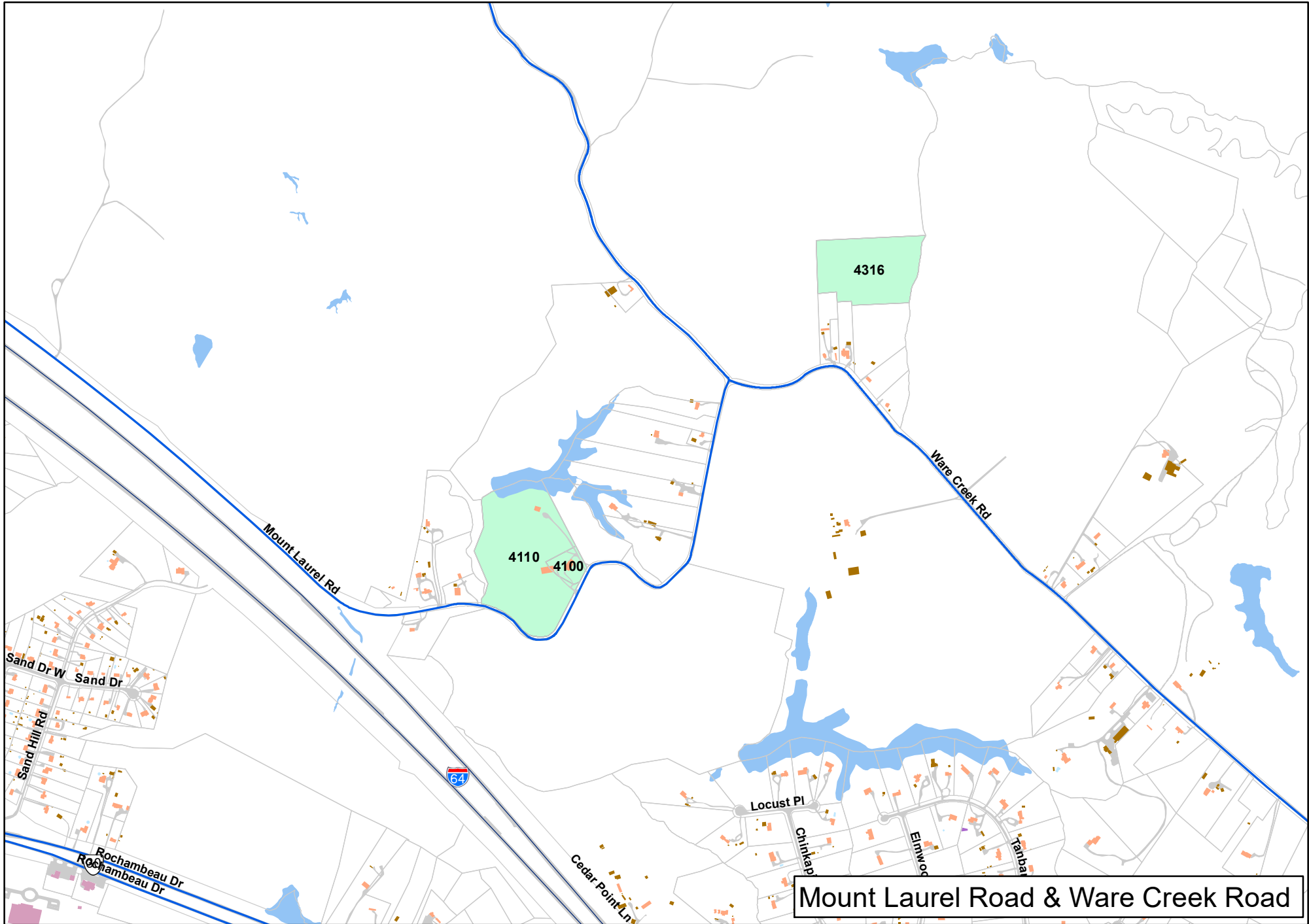


1:18,056 / 1"=1,505 Feet

**Title:**

**Date: 9/13/2021**

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Mount Laurel Road & Ware Creek Road



1 inch = 1,000 feet  
0 500 1,000 Feet

# James City County



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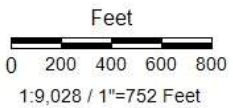
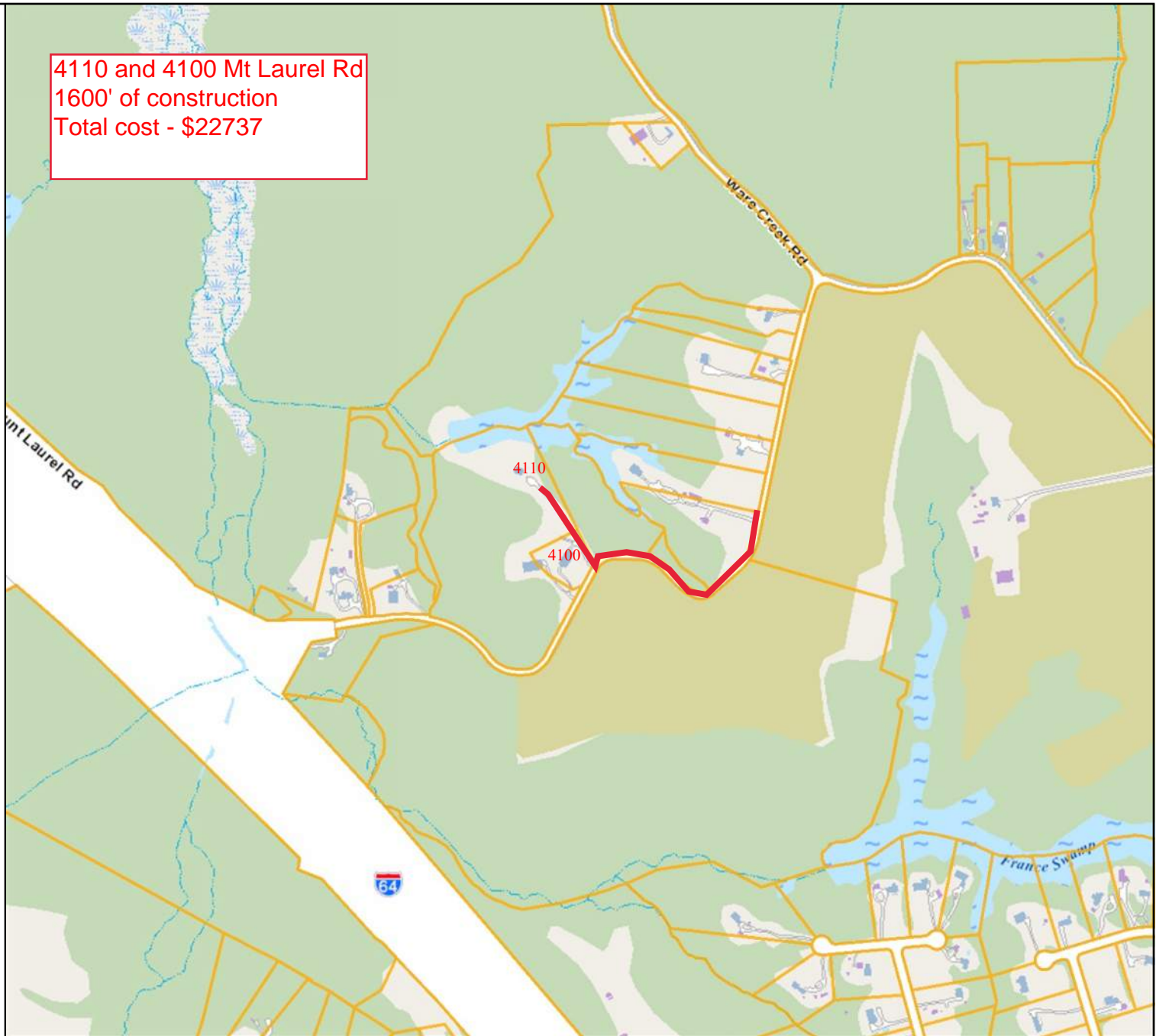
Copyright James City County GIS Office 9/14/2021



**Legend**

Parcels

4110 and 4100 Mt Laurel Rd  
1600' of construction  
Total cost - \$22737



**Title:**

**Date: 8/27/2021**

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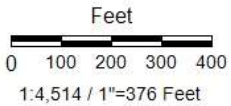
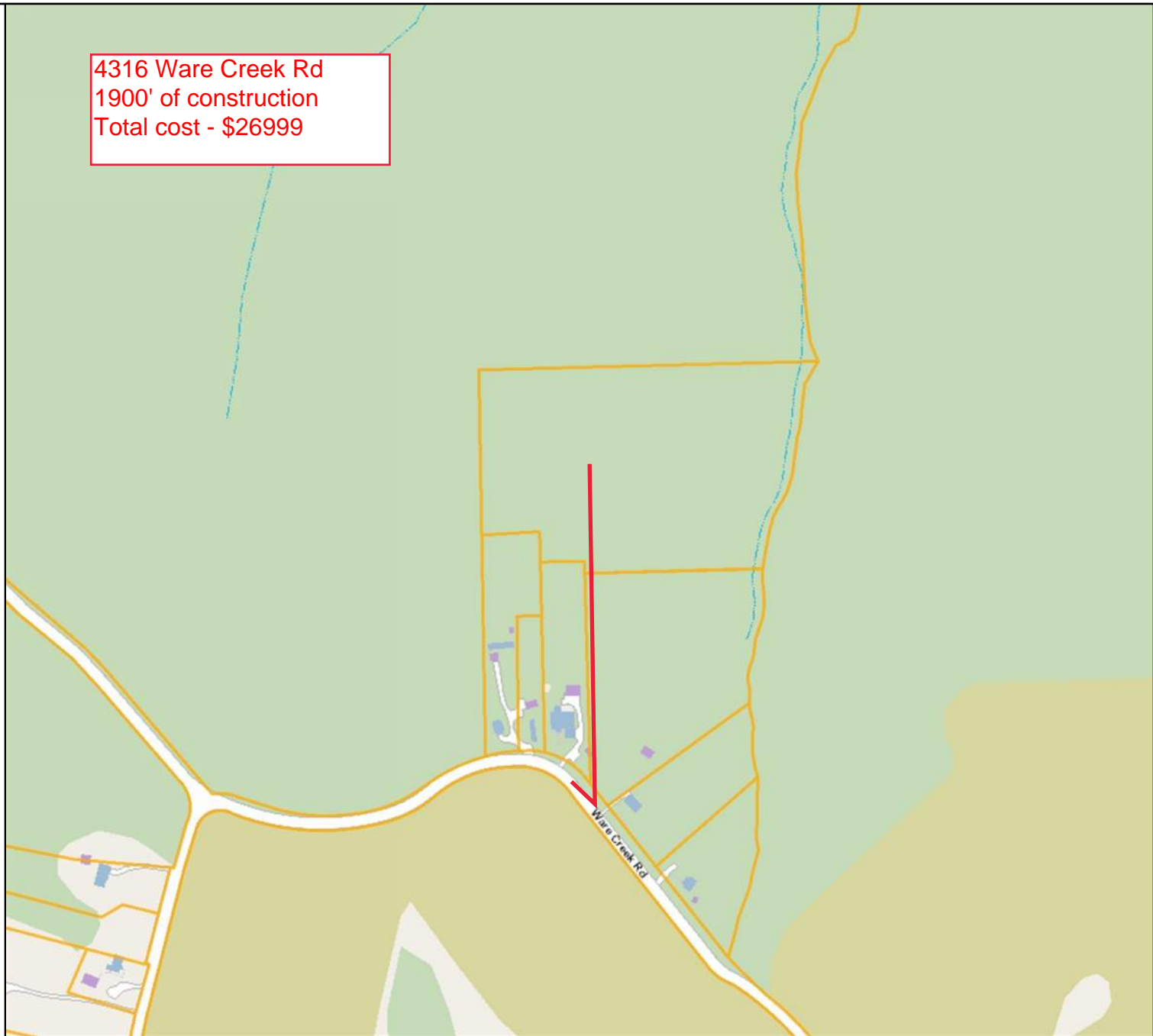




**Legend**

Parcels

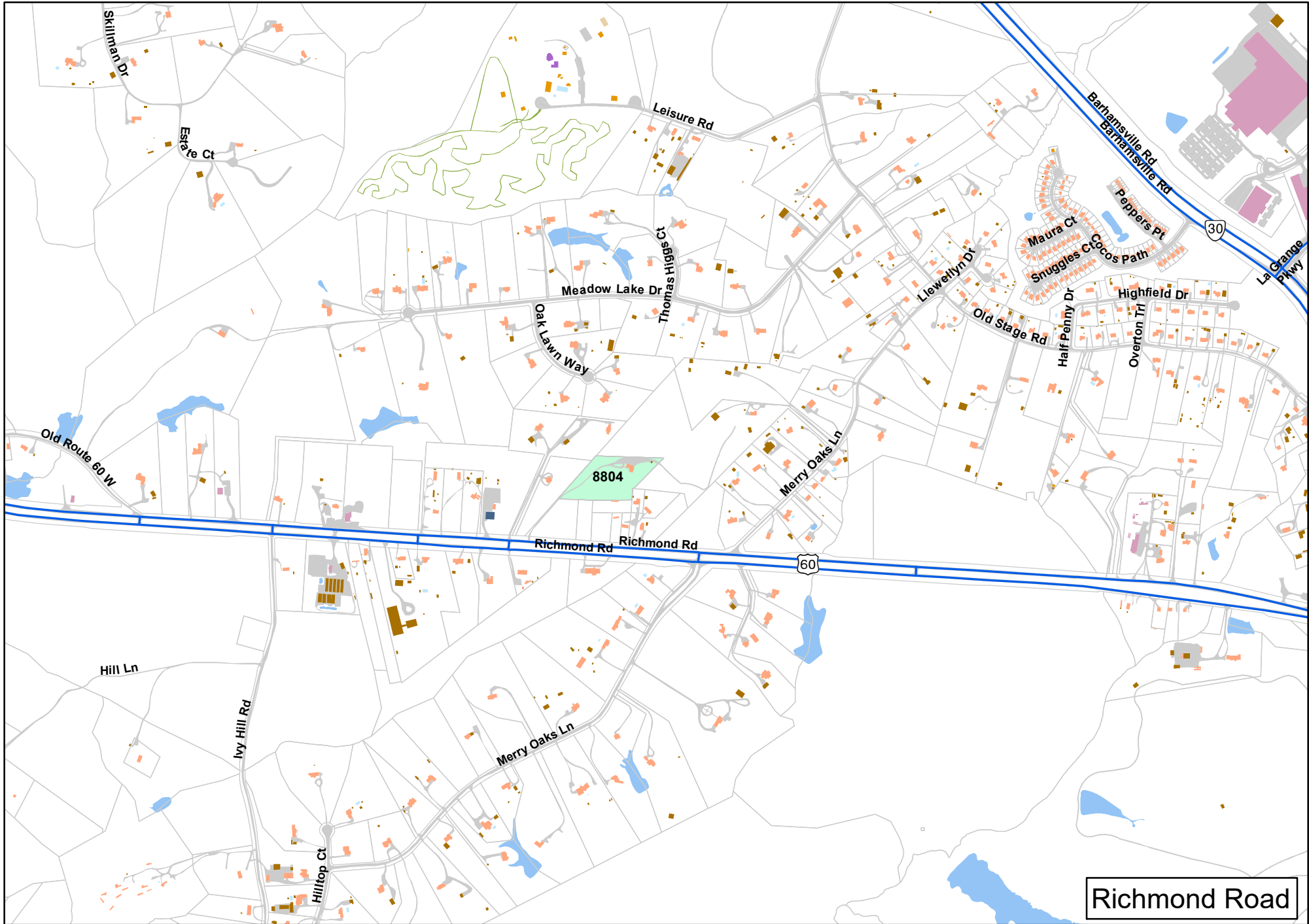
4316 Ware Creek Rd  
1900' of construction  
Total cost - \$26999



**Title:**

**Date: 8/27/2021**

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Richmond Road



1 inch = 1,000 feet  
 0 500 1,000  
 Feet

# James City County



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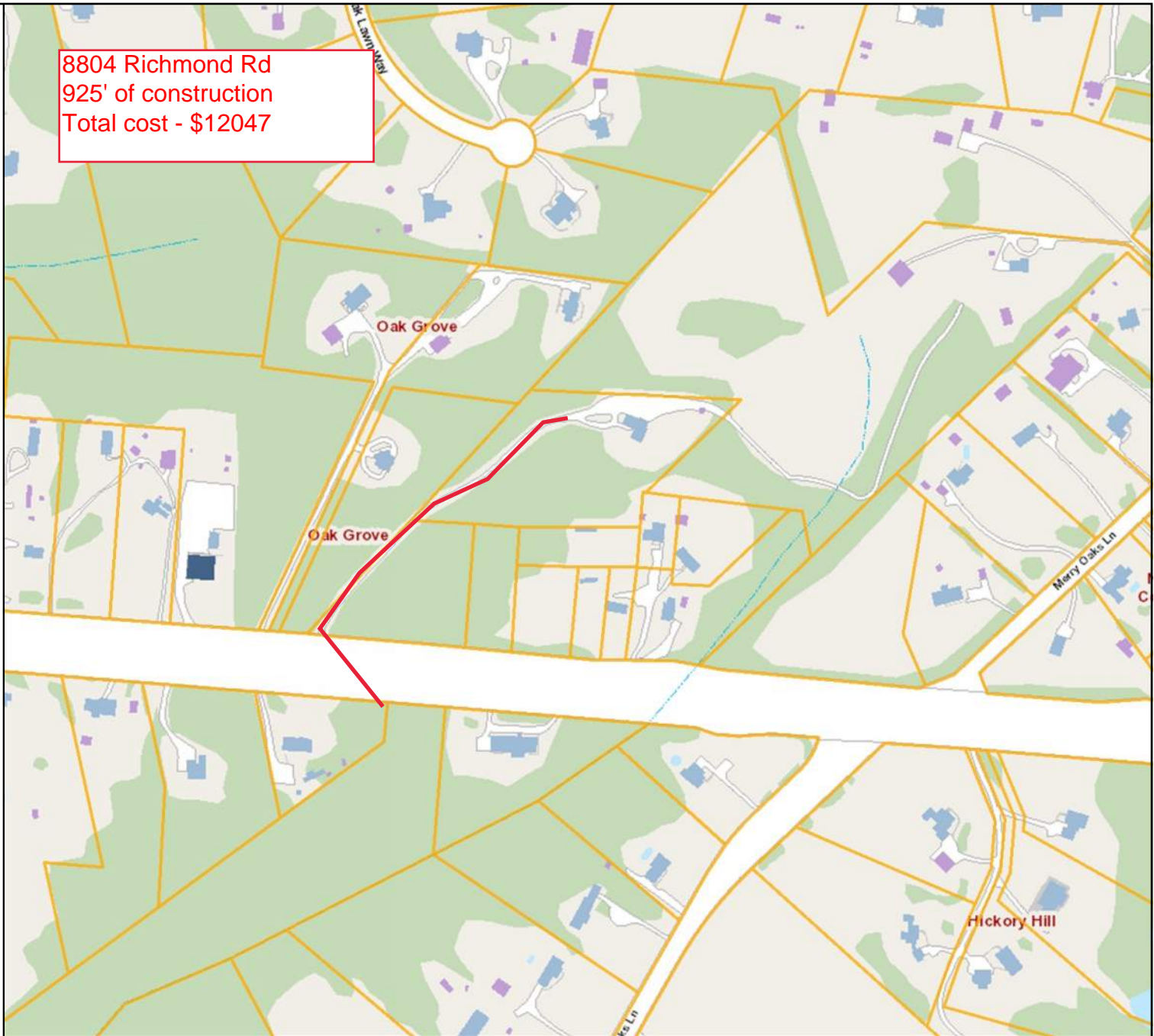
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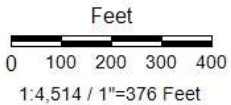


**Legend**

Parcels



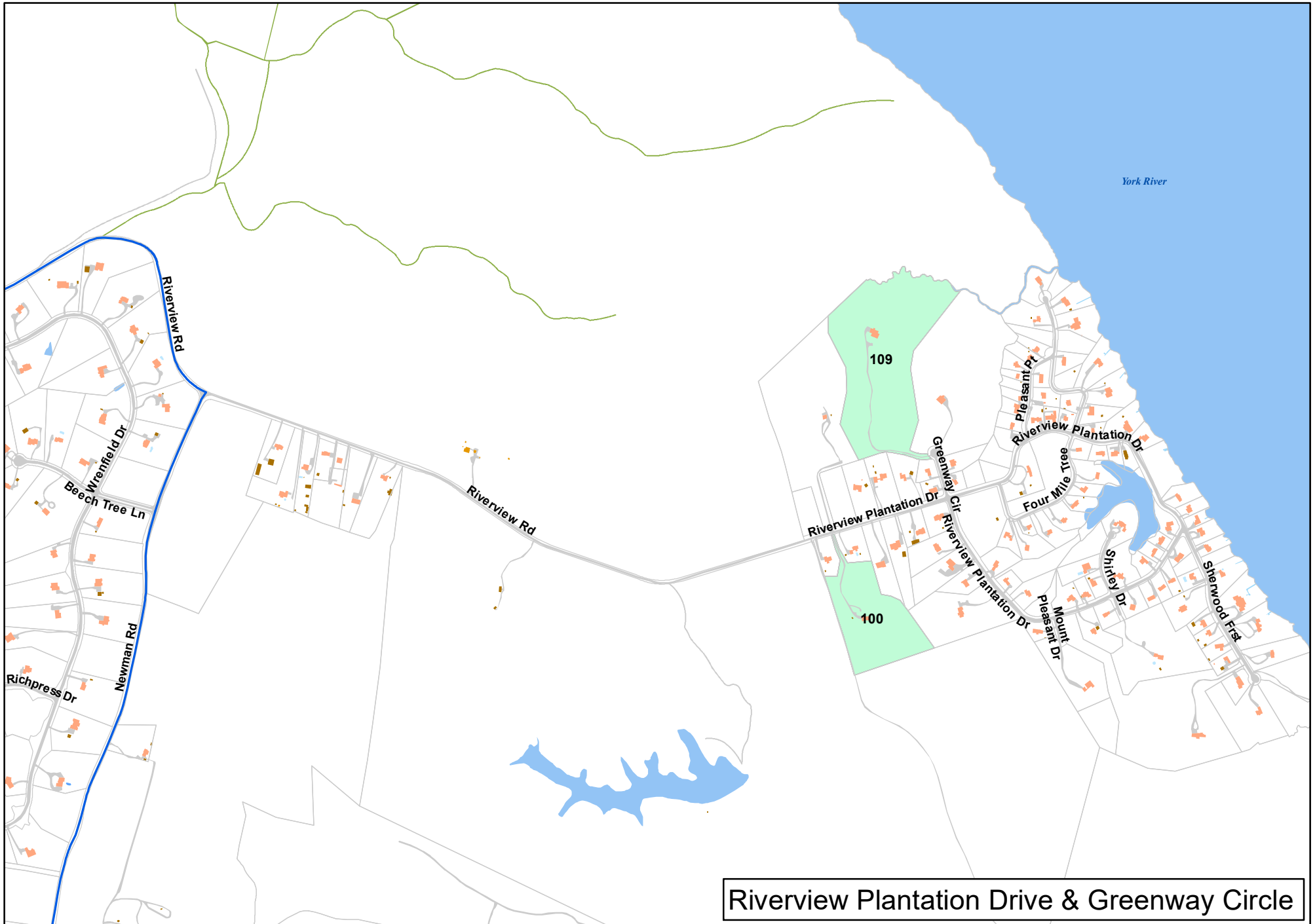
8804 Richmond Rd  
925' of construction  
Total cost - \$12047



**Title:**

**Date: 8/27/2021**

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Riverview Plantation Drive & Greenway Circle



1 inch = 1,000 feet  
 0 500 1,000 Feet

**James City County**



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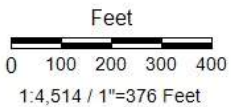
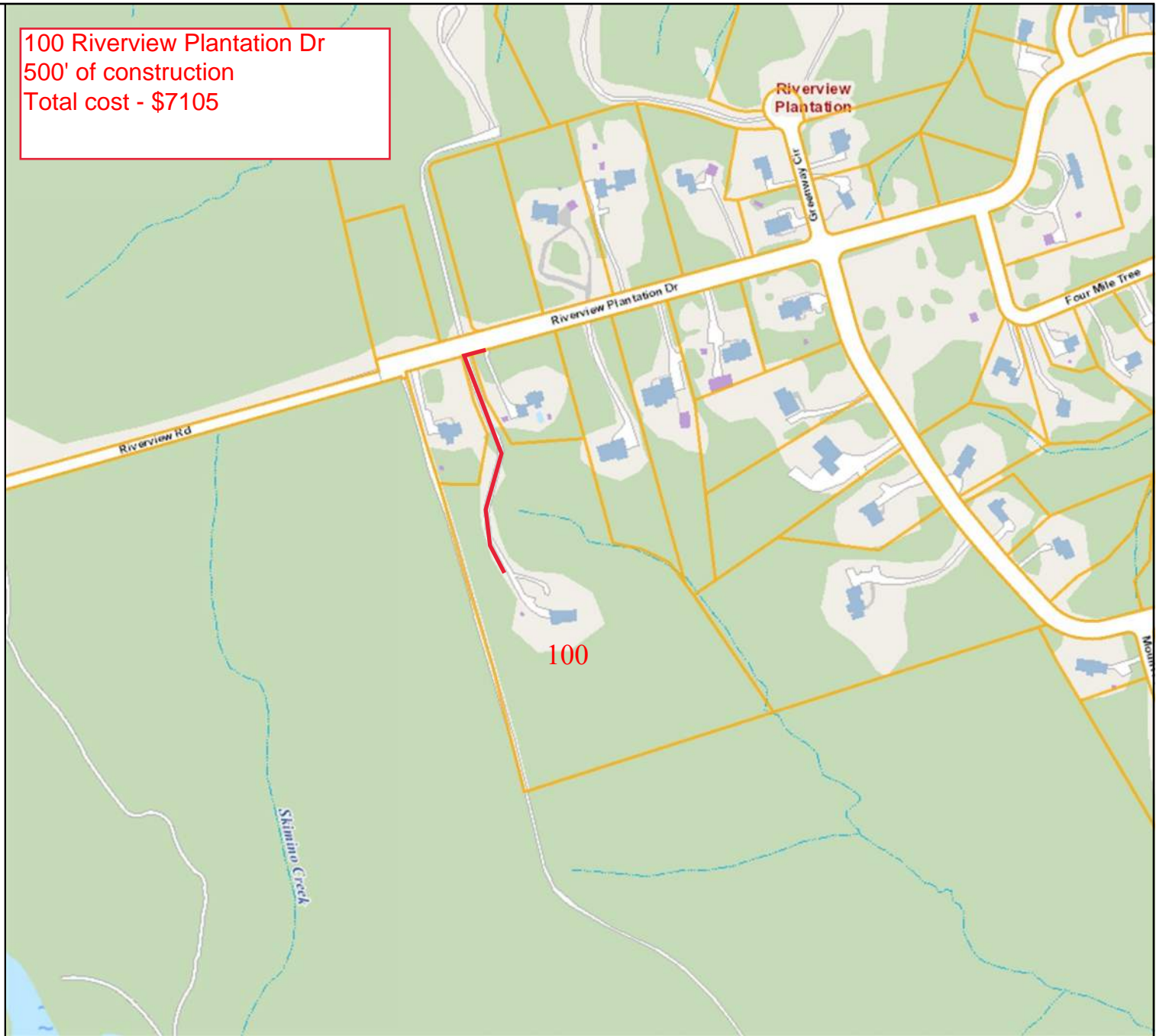
Copyright James City County GIS Office 9/14/2021



**Legend**

Parcels

100 Riverview Plantation Dr  
500' of construction  
Total cost - \$7105



**Title:**

**Date: 8/27/2021**

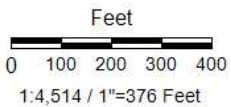
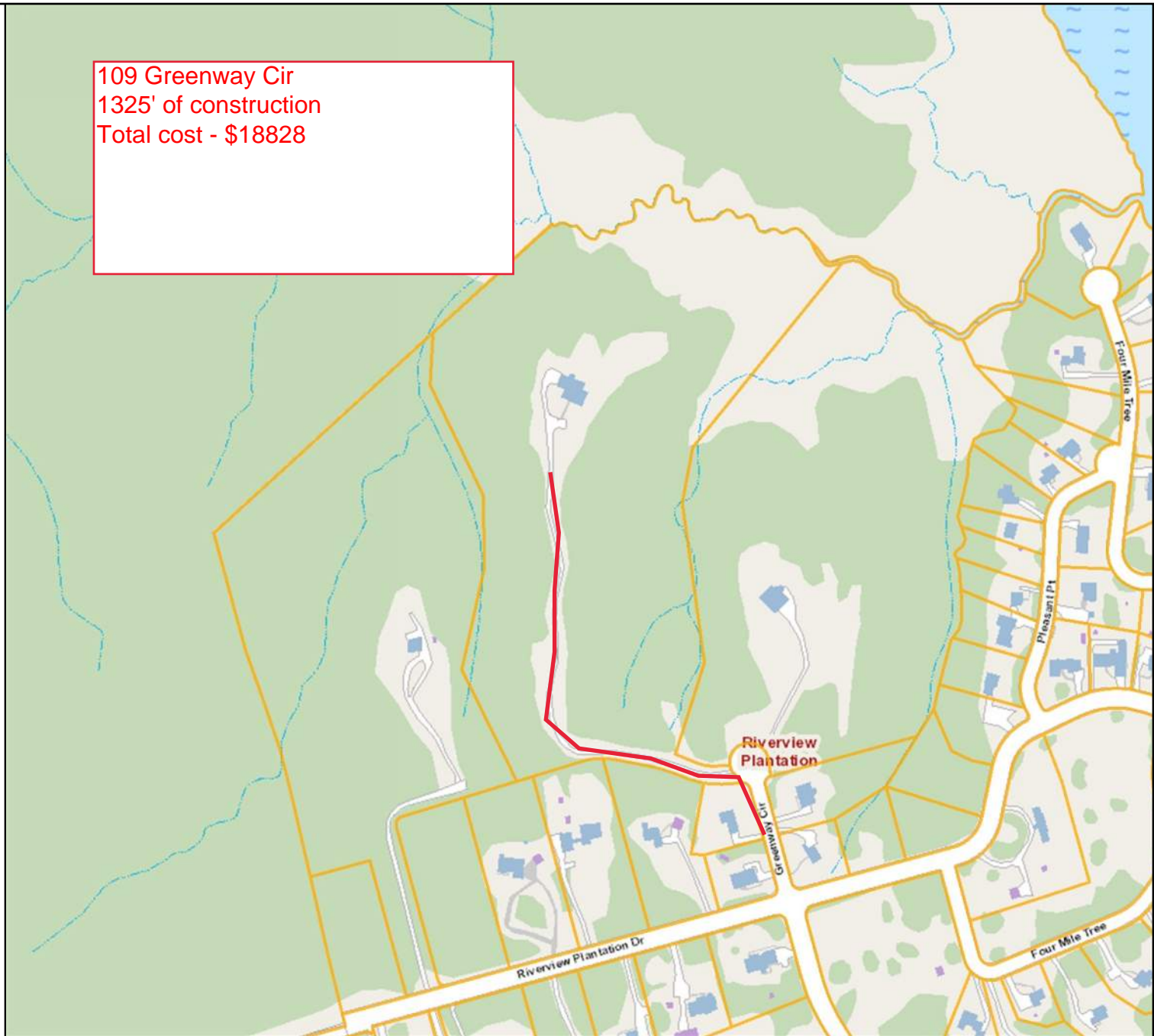
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**Legend**

Parcels

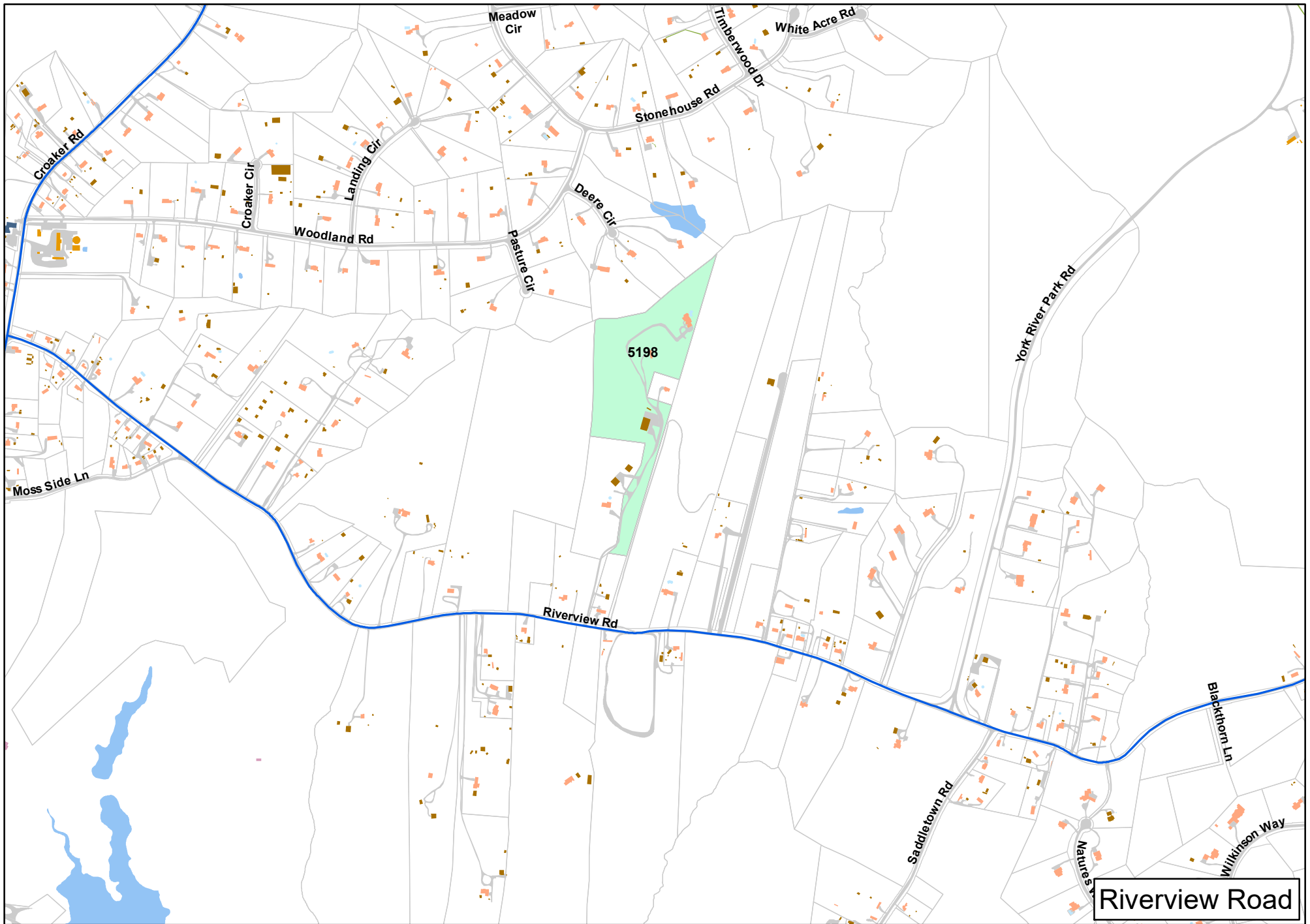
109 Greenway Cir  
1325' of construction  
Total cost - \$18828



**Title:**

**Date: 8/27/2021**

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Riverview Road



1 inch = 1,000 feet  
0 500 1,000  
Feet

**James City County**



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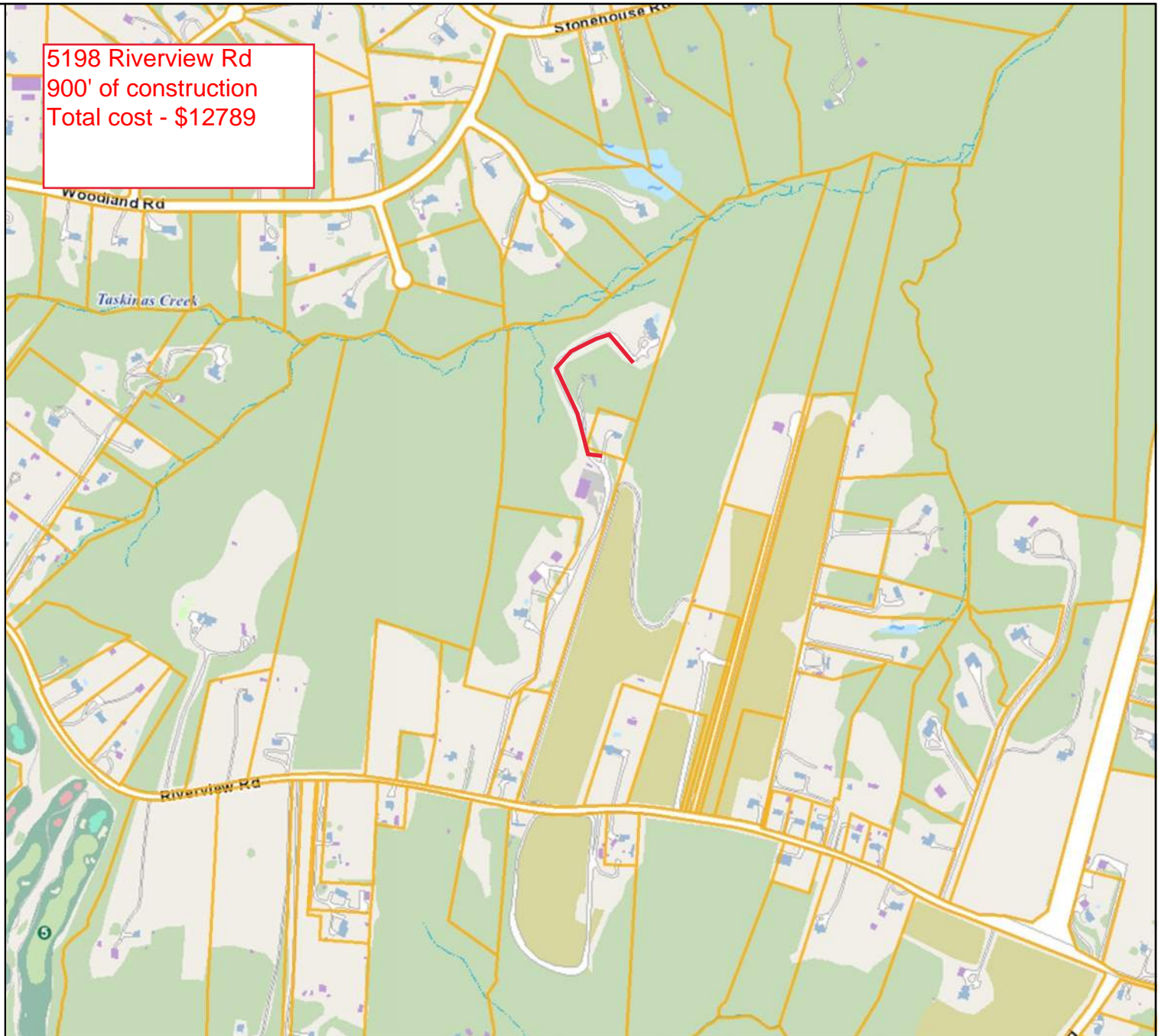
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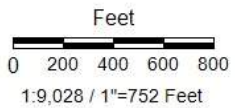
**Legend**

Parcels



**Title:**

**Date: 8/27/2021**

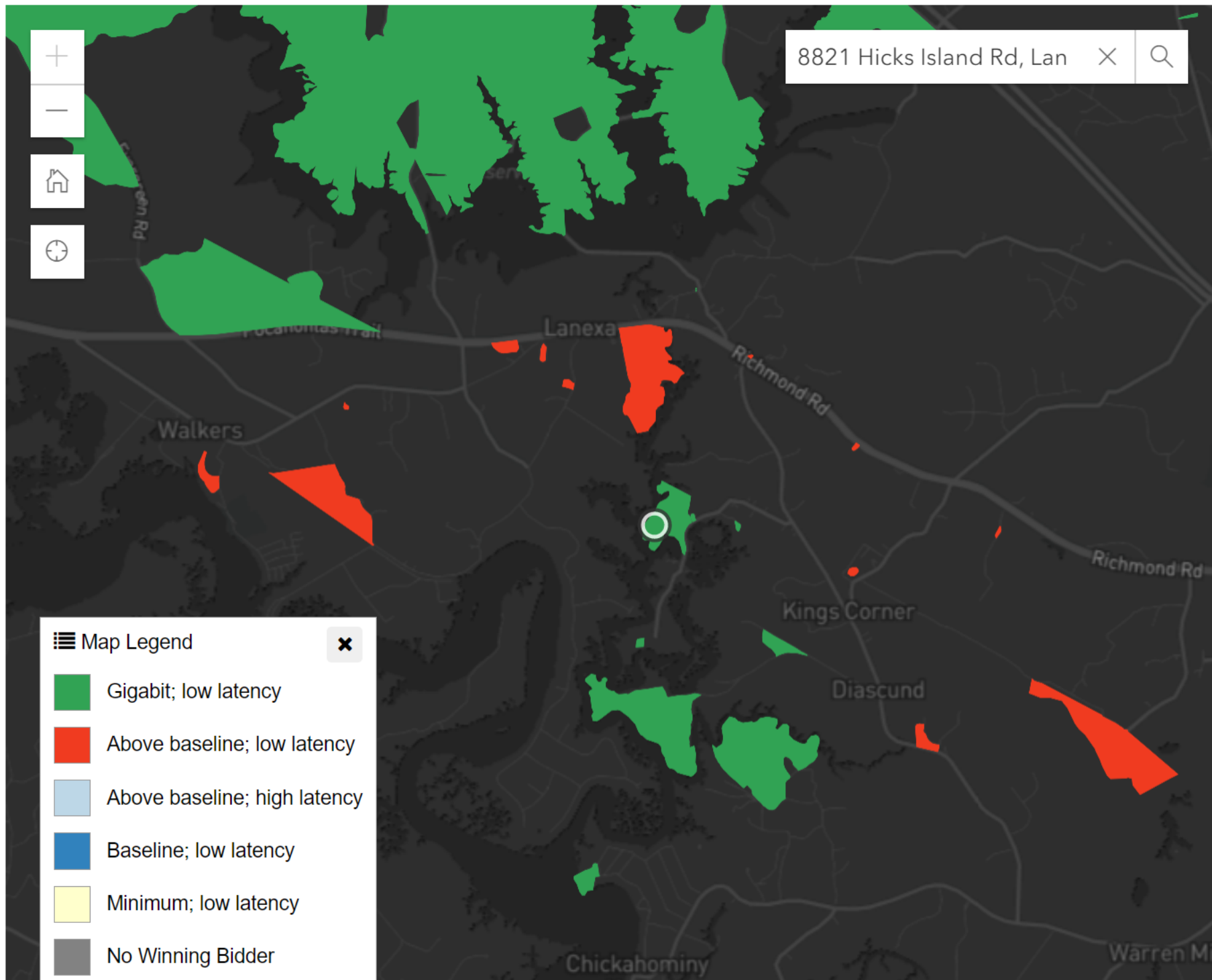


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# Rural Digital Opportunity Fund Phase I Results

Data as of 12/07/20



# 2022 Virginia Telecommunication Initiative (VATI) RDOF Passings Form

Type of Passings	Total Number of Passings in the Project Area that lie within Preliminarily Awarded RDOF Areas <sup>1</sup>
Residential	1
Businesses (non-home based)	0
Businesses (home-based)	0
Community Anchors	0
Non-residential	0
<b>Total Number of RDOF Passings</b>	<b>1</b>

*Note: The Total Number of RDOF Passings **MUST** be equal to the Residential, Business (non-home based), Non-residential and Community Anchors sum.*

## Definitions

**Passing** – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

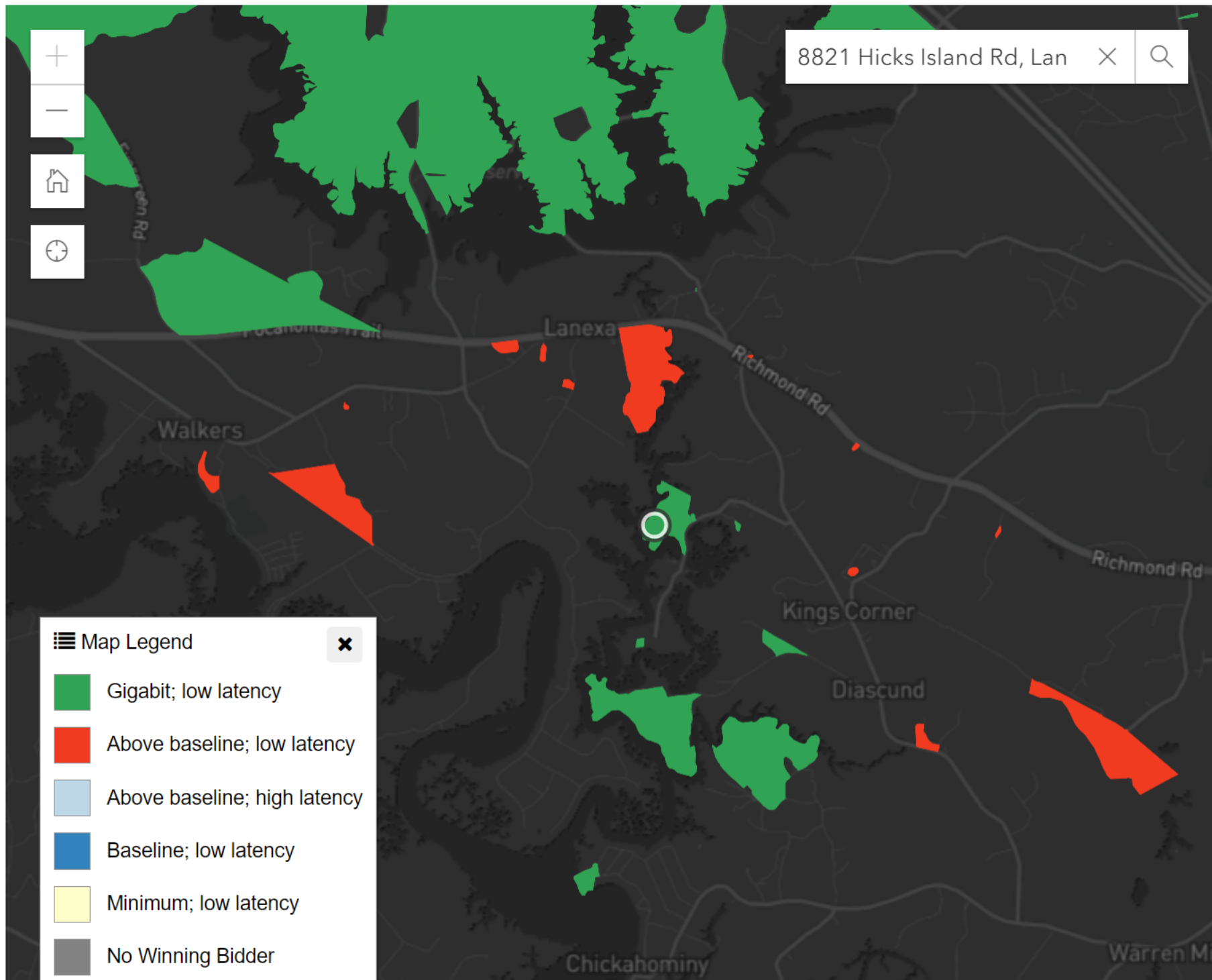
**Business** – An organization or entity that provides goods or services in order to generate profit. Businesses based in residential homes can count if they are a registered business (BPOL, LLC, etc.).

**Community Anchor** - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater use of broadband service by vulnerable populations, including low-income, unemployed, and the aged.

**Non-Residential Passing** – places of worship, federal, state, or local facilities or other potential customers that are neither a residence, business or a community anchor as defined above.

# Rural Digital Opportunity Fund Phase I Results

Data as of 12/07/20



<b><u>Project Area</u></b>	<b><u>Cox Communications</u></b>	<b><u>Verizon DSL</u></b>	<b><u>Verizon Fiber</u></b>
Arlington Island Road and Forest Lake Road	1000/35	3/.768	
Fire Tower Road	1000/35	15/1	
Forge Road	1000/35	5/.768	
Hicks Island Road	1000/35		
Jolly Pond Road	1000/35	5/.768	
Little Creek Dam Road and Menzels Road	1000/35	5/.768	
Mount Laurel Road and Ware Creek Road	1000/35	3/.768	
Richmond Road	1000/35	5/.768	
Riverview Plantation Drive and Greenway Circle	1000/35	3/.768	
Riverview Road	1000/35	5/.768	

Data Source - FCC Fixed Broadband  
Deployment Maps

## 2022 Virginia Telecommunication Initiative (VATI) Passing Form

Type of Passings	Total Number of Passings in the Project Area <sup>1</sup>	Passings in the Project Area, without Special Construction Costs Required <sup>2</sup>	Passings with Special Construction Costs budgeted in the Application <sup>3</sup>	Number of Passings with Speeds at 10/1 or below in Project Area <sup>4</sup>
Residential	35	9	27	35
Businesses (non-home based)	0	0	0	0
Businesses (home-based)	0	0	0	0
Community Anchors	0	0	0	0
Non-residential	0	0	0	0
<b>Total</b>	35	9	27	35

**Note:** The Total Number of Passings **MUST** be equal to the Residential, Business (non-home based), Non-residential and Community Anchors sum.

**Note:** Do not include passings in RDOF awarded areas that were awarded to the co-applicant; these passings should be included in the RDOF Passings Form. Passings included in this application in RDOF awarded areas that were not awarded to the co-applicant, unless successfully challenged, are considered unserved and should be counted as passings in this form.

<sup>1</sup>The total number of structures in the project area that can receive service. See definition of passing below for more detail.

<sup>2</sup>The number of structures in the project area that will not require special construction costs to provide service to. These passings fall within the broadband provider's standard service connection drop length and do not require nonstandard equipment or any additional fees above normal service connection fees required to provide broadband access to a premise.

<sup>3</sup>The number of structures in the project area with all construction costs budgeted in the application. These passings will not require any additional special construction costs beyond those budgeted for in the VATI application.

<sup>4</sup>The number of structures in the project area that do not have access to internet at speeds of at least 10 mbps download and 1mbps upload.

## Definitions

**Passing** – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

**Business** – An organization or entity that provides goods or services in order to generate profit. Businesses based in residential homes can count if they are a registered business (BPOL, LLC, etc.).

**Community Anchor** - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater use of broadband service by vulnerable populations, including low-income, unemployed, and the aged.

**Non-Residential Passing** – places of worship, federal, state, or local facilities or other potential customers that are neither a residence, business or a community anchor as defined above.

Task	Responsible Person	Entity	Project Time Line											
			Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Project review pending State Approval	State-County													
Create project account	Cox Planner & Leader	Cox												
Perform field survey for ug-aerial constr.	Cox Project Planner	Cox												
Secure private property easements	Cox Project Planner	Cox & Homeowners												
Dominion Power pole application process	Cox Project Planner	Cox & DVP												
Prepare field construction drawings	Cox Project Planner	Cox												
Secure City permits	Cox Project Planner	Cox & JCC												
Order project material	Cox Project Planner	Cox												
Set power supply units	Cox Project Planner	Cox & DVP												
Perform aerial construction	Cox Project Planner	Cox												
Perform underground construction	Cox Project Planner	Cox												
Activate-Test the network	Cox Project Planner	Cox												
Release the addresses for service	Cox Project Planner	Cox												

The construction and engineering team anticipates a completion time of 12-16 weeks for this project.

**JAMES CITY COUNTY, VIRGINIA  
AND  
COX COMMUNICATIONS HAMPTON ROADS, LLC  
MEMORANDUM OF AGREEMENT  
FOR**

**VIRGINIA TELECOMMUNICATIONS INITIATIVE (VATI) GRANT PARTNERSHIP**

THIS MEMORANDUM OF AGREEMENT (this “Agreement”) is made this \_\_\_\_\_ day of \_\_\_\_\_, 2021, by and between James City County, Virginia, a municipal corporation that is a political subdivision of the Commonwealth of Virginia (hereinafter “County”) and Cox Communications Hampton Roads, LLC, a Virginia Limited Liability Company (hereinafter “Cox”).

**WHEREAS**, The goal of this Memorandum of Agreement is to set forth the undertakings of the parties as it relates to partnering on the submission of a Virginia Telecommunications Initiative (VATI) Grant with the goal of obtaining funds to support the extension of existing Cox network to reach unserved residents of James City, Virginia.

**NOW THEREFORE**, for and in consideration of the mutual promises, covenants, and warranties, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, hereby agree as follows:

**REPRESENTATIONS, WARRANTIES AND COVENANTS OF THE COUNTY**

In addition to the covenants in other sections of this Agreement, the COUNTY represents, warrants and covenants as follows:

*Organization, Authorization and Validity.* The County of James City, Virginia, a municipal corporation that is a political subdivision of the Commonwealth of Virginia validly existing under the laws of the Commonwealth and has duly authorized, executed and delivered this Agreement. The Agreement is a valid, legal and binding agreement.

*Authority.* The COUNTY has all requisite authority to execute and deliver and perform its obligations under this Agreement and is not a party to any indenture, contract or other agreement or arrangement, the performance of which by the COUNTY would prevent or materially and adversely affect the COUNTY’s ability to perform the terms of this Agreement.

The COUNTY will contribute the cost of [TO BE DETERMINED] for the project.

The COUNTY will act as the project manager in relation to the DHCD VATI Grant process.

**REPRESENTATIONS, WARRANTIES AND COVENANTS OF COX**

In addition to the covenants in other sections of this Agreement, Cox represents, warrants and covenants for itself as follows:

*Organization, Authorization and Validity.* Cox is a duly organized Virginia Limited Liability Company validly existing under the laws of the Commonwealth and has duly authorized, executed and delivered this Agreement. The Agreement is a valid, legal and binding agreement.

*Authority.* The Cox has all requisite authority to execute and deliver and perform its obligations under this Agreement and is not a party to any indenture, contract or other agreement or arrangement, the performance of which by it would prevent or materially and adversely affect its individual performance under this Agreement.

Approval to be listed as a co-applicant for the 2022 VATI Grant.

Application support providing the following to James City by [DATE]:

Proposed network maps



Details to complete the derivation of costs and budget worksheets

Project management plan including scope of work and timelines

Information on service speeds and associated rates

The two most recent 477 FCC filing summary documents

Marketing tactics information

Other items upon request, as able, based on the ability of Cox to do so keeping in mind customer privacy and company interests

Dedicated company resources to gather the aforementioned information.

Funding to support a portion of the overall budget to help meet the 20% minimum contribution requirement from an ISP, locality or the combination of the two.

Confirmation that all projects included in this proposal can be and will be completed within the 12-18 month timeframe as required by the VATI 2022 guidelines.

### **MUTUAL REPRESENTATIONS, WARRANTIES AND COVENANTS OF THE PARTIES**

In addition to the covenants in other sections of this Agreement, the parties represents, warrants and covenants as follows:

Both parties will work together to, to the best of their ability, provide information to successfully meet the requirements as outlined in the VATI 2022 guidelines and evaluation criteria.

Both parties understand the deadline for submission is September 14, 2021 by 11:59 p.m. through the online CAMS process. The County of James City, as the Applicant, agrees to transfer all data to the online application prior to the deadline.

*Term of Agreement.* (a) The term of this Agreement shall be for two (2) years, with three (2) one (1) year renewal options upon the written agreement of the parties.

*Termination.* The COUNTY may terminate the contract for cause or for convenience after giving thirty (30) days' notice in writing to Cox. The written notice shall state whether the termination is for convenience or cause. The notice shall be delivered by a commercial courier service or mailed certified with return receipt requested to the address listed herein.

*Voluntary Termination.* The parties may additionally voluntarily terminate the contract giving sixty (60) days' notice in writing to the other party. The notice shall be delivered by a commercial courier service or mailed certified with return receipt requested to the address listed herein.

*Compliance With Applicable Law.* Cox shall at all times during the term of this Agreement, including any renewal period, comply with all applicable federal, state, and local laws, Agreements, and regulations. Expressly reserved to the COUNTY is the right to adopt, in addition to the provisions of this Agreement and existing laws, such additional Agreements and regulations as are necessary for the lawful exercise of its police power for the benefit and safety of the public.

*Payment of Fees.* The COUNTY shall pay all amounts (fees, costs, expenses, compensation, and taxes) allowed by the James City County Code, James City Zoning Agreement and the Code of Virginia, 1950.

*Liability of COUNTY and Indemnification.* The COUNTY, its officials, employees, agents, and attorneys, shall not be responsible for any liability of the Cox, any affiliated person or any other person, arising out of or in connection with the installation, maintenance, upgrade, repair or removal of facilities.

The COUNTY and its officials, employees, agents, and attorneys shall have no liability to the Cox, any affiliated Person or any other Person for any special, incidental, consequential or other damages as a result of the exercise of any right of the COUNTY pursuant to this Agreement or applicable law, including, without limitation, the rights of the COUNTY to approve or disapprove the grant, termination, amendment, renewal or transfer of the Franchise, or to otherwise modify all of any part of this Agreement or the Franchise.

To the extent permitted by law, Cox agrees to indemnify, defend and hold harmless the COUNTY, its officers, employees and agents from and against all claims, demands, losses, damages, liabilities, fines, and penalties, and all costs and expenses incurred in connection therewith, including, without limitation, reasonable attorney's fees and costs of defense (collectively, the losses), arising out of any breach by Cox of the terms and conditions of this Agreement, except to the extent proximately caused by the gross negligence or willful misconduct of the COUNTY, its officers, employees and agents. In addition, to the extent permitted by law, Cox shall protect, indemnify, and hold harmless the COUNTY, its officers, agents, and employees, from any and all demands for fees, claims, suits, actions, causes of action, or judgments based on the alleged infringement or violation of any patent, invention, article, arrangement, or other apparatus that may be used in the performance of any work or activity arising out of the use of any fiber optic cabling facilities except to the extent proximately caused by the gross negligence or willful misconduct of the COUNTY, its officers, employees or agents.

*General Provisions.*

(a)*Authority.* Cox warrants and represents that it has obtained all necessary and appropriate authority and approval from all applicable federal and state agencies or authorities, and upon request by the COUNTY will provide evidence of such authority.

(b)*Other remedies.* Nothing in this Agreement shall be construed as waiving or limiting any rights or remedies that the COUNTY or Cox may have, at law or in equity, for enforcement of this Agreement.

(c)*Severability.* If any section, subsection, sentence, clause, phrase, or other portion of this Agreement, or its application to any person, is, for any reason, declared invalid, in whole or in part by any court or agency of competent jurisdiction, said decision shall not affect the validity of the remaining portions hereof.

(d)*Nonenforcement.* Neither party shall be excused from complying with any of the provisions of this Agreement by any failure of the other party, upon any one or more occasions, to insist upon strict performance of this Agreement or to seek the other party's compliance with any one or more of such terms or conditions of this Agreement.

(e)*Conflicts of law.* If there is a conflict between the provisions of this Agreement and any law, whether federal, state, or COUNTY, including all future laws and Agreements, the law and conflicting Agreement provision will, to the extent reasonably possible, be construed so as to be consistent with each other and if such construction is not reasonably possible, the conflicting provision of this Agreement shall be deemed superseded by such law and have no effect, notwithstanding the contract clause of the United States Constitution.

(f) *Change of law.* Notwithstanding anything in this Agreement, if any federal, state, or local laws or regulations (including, but not limited to, those issued by the Federal Communications Commission or its successor agency) and any binding judicial interpretations thereof (collectively, "Laws") that govern any aspect of the rights or obligations of the parties under this Agreement shall change after the Effective Date and such change (a) declares this

Agreement invalid, in whole or in part, or (b) requires the Cox either to (i) perform any act that is inconsistent with any provision of this Agreement or (ii) cease performing any act required by any provision of this Agreement, including any obligations with respect to compensation or other financial obligations pursuant to this Agreement, or (c) alters the COUNTY's jurisdiction or rights related to this Franchise or similar franchises, then either the COUNTY or the Cox shall promptly notify the other of such fact.

Upon receipt of such notification, the parties, acting in good faith, shall determine whether such declaration or requirement has a material and adverse effect on this Agreement. If the parties, acting in good faith, determine that such declaration or requirement does not have a material and adverse effect on this Agreement, then the Cox shall comply with such declaration or requirement. If the parties, acting in good faith, determine that such declaration or requirement does have such an effect or that compliance with such declaration or requirement by the Cox would materially frustrate or impede the ability of the Cox, to carry out its obligations pursuant to, and the purposes of, this Agreement, then the Cox and the COUNTY may enter into good faith negotiations to amend this Agreement. Such materially frustration or impediment of the ability of the Cox shall not include the potential increase in cost or expense to the Cox, nor the choice of location, placement or other requirements of fiber optic cabling facilities. If the parties fail to produce an Agreement which is reasonably acceptable to both the COUNTY and the Cox, then the COUNTY or Cox may accelerate the expiration of the Term so that the Term shall expire on a date determined by the COUNTY and Cox not less than twelve (12) months after such determination.

(g)*Controlling law and venue.* By virtue of entering into this Agreement, Cox agrees and submits itself to the James City Circuit Court in the County of James City, Virginia or in the United States District Court for the Eastern District of Virginia, Norfolk Division, and further agrees that this Agreement is controlled by the laws of the Commonwealth of Virginia or any applicable federal laws and that all claims, disputes and other matters shall be decided only by such court according to the laws of the Commonwealth of Virginia or any applicable federal laws.

(h)*Captions.* The section captions and headings in this Agreement are for convenience and reference purposes only and shall not affect in any way the meaning or interpretation of this Agreement.

(i)*Nondiscrimination.* During the performance of this Agreement, Cox agrees that it will not discriminate against any employee or applicant for employment on the basis of race, religion, color, sex, handicap or national origin. Cox agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. Cox, in all solicitations or advertisements for employees placed by or on behalf of Cox, will state that Cox is an equal opportunity employer. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements herein.

(j)*Entire Agreement.* This Agreement, including all Appendices, embodies the entire understanding and Agreement of the COUNTY and the Cox with respect to the subject matter hereof and merges and supersedes all prior representations, agreements and understandings, whether oral or written, between the COUNTY and Cox with respect to the subject matter hereof, including, without limitation, all prior drafts of this Agreement and any Appendix to this Agreement and any and all written or oral statements or representations by any official, employee, agent, attorney, consultant or independent contractor of the COUNTY or the Cox.

(k)*Delays and Failures Beyond Control of Cox.* Notwithstanding any other provision of this Agreement, the Cox shall not be liable for delay in performance of, or failure to perform, in whole or in part, its obligations pursuant to this Agreement due to strike, war or act of war (whether an actual declaration of war is made or not), insurrection, riot, act of public enemy, fire, flood or other act of God, or sabotage, where the Cox has exercised all due care in the prevention thereof, to the extent that such causes or other events are beyond the control of the Cox and such delay in performance or failure to perform affects only part of the Cox's capaCounty to perform, the Cox shall perform to the maximum extent it is able to do so and shall take all steps within its power to correct such cause(s).

The Cox agrees that in correcting such cause(s), it shall take all reasonable steps to do so in as expeditious a manner as possible. The Cox shall notify the COUNTY in writing of the occurrence of an event covered by this Section within five (5) business days or a reasonable time period under the circumstances of the date upon which the Cox learns of its occurrence.

(1)*Notices.*

(1)Notices given pursuant to this Agreement shall be in writing and addressed as follows:

To the County:

[CONTACT]

[ADDRESS]

With a courtesy copy to:

[CONTACT]

[ADDRESS]

To COX COMMUNICATIONS HAMPTON ROADS, LLC:

To Cox: Manager, Government and Public Affairs

Attn: Sarah Buck

1341 Crossways Blvd.

James City, VA 23320

With an optional courtesy copy to:

Richard Strong

6205-B Peachtree Dunwoody Road NE #16-112

Atlanta, GA 30328

(2)Either party may change the address at which it will receive notices by providing written notice of the change to the other party.

(m)*No Agency.* The Cox shall conduct the work to be performed pursuant to this Agreement as an independent contractor and not as an agent of the COUNTY.

(n)*Survival.* All representations and warranties contained in this Agreement shall survive the Term. The Cox acknowledges that certain of the obligations to be performed under this Agreement are to be performed after the Franchise terminates or expires.

(o)*Delegation of COUNTY Rights.* The COUNTY reserves the right to delegate and re-delegate, from time to time, any of its rights or obligations under this Agreement to any body, organization or official. Upon such delegation or re-delegation, references to "COUNTY" in this Agreement shall refer to the body, organization or official to whom such delegation or re-delegation has been made.

Upon receipt of such notice by the Cox, the Cox shall be bound by all terms and conditions of the delegation not in conflict with this Agreement. Any such delegation, revocation or re-delegation, no matter how often made, shall not be deemed an amendment to this Agreement or require any consent of the Cox.

(p)*Modifications.* Except as otherwise provided in this Agreement, (including any Appendix to this Agreement), or applicable law, no provision of this Agreement (nor any Appendix to this Agreement), shall be amended or otherwise modified, in whole or in part, except by an instrument, in writing, duly executed by the COUNTY and the Cox, which amendment shall be authorized on behalf of the COUNTY through the adoption of an appropriate Agreement, resolution or order by the COUNTY, as required by applicable law.

(q)*Reservation of Rights.* The COUNTY reserves the right to adopt or issue such lawful rules, regulations, orders, or other directives governing the Cox's use of the public streets as it shall find necessary or appropriate in the exercise of its police power, and such other orders as the COUNTY shall find necessary or appropriate pursuant to and in furtherance of the purposes of this Agreement, and the Cox expressly agrees to comply with all such lawful rules, regulations, orders, or other directives. If any such exercise of right materially alters any of the terms or conditions of this Agreement, the parties may, acting in good faith, negotiate such change. No rule, regulation, order or other directive issued pursuant to this Section shall constitute an amendment to this Agreement.

(r)*Reports.* At the reasonable request of the COUNTY, the Cox shall promptly submit to the COUNTY such information, as maintained in the ordinary course of business, as the COUNTY may request and as allowed by federal and state law regarding the Cox's placement and location of equipment in the public streets and payments and collections made by Cox pursuant to this Agreement.

(s)*Books and Records, Right of Inspection.* Throughout the Term, the Cox shall maintain in the COUNTY, or make available at Cox's location in the COUNTY or as mutually agreed upon by the COUNTY and Cox within fifteen (15) business days after receipt of written request, or within the time that is reasonable under the circumstances though not to exceed thirty (30) days, complete and accurate books of account, documents and records, or copies thereof, of the business, ownership, and operations of the Cox with respect to Cox's installation, construction, maintenance, upgrade, repair, relocation and removing of the facilities in the Public streets that may be required under this Agreement, including without limitation, all records, as maintained in the ordinary course of business, adequate to enable the Cox to demonstrate, at all times throughout the Term that it is, and has been, in compliance with each term and condition of this Agreement. The COUNTY and its designated representatives shall have the right to inspect, examine and audit, during normal business hours and upon sixty (60) days' notice to the Cox, all such documents, records and other information of the Cox required to be maintained.

(t)*Treatment of Proprietary Information.* Access by the COUNTY to the documents, records or other information covered by this Agreement shall not be denied by the Cox on grounds that such documents, records or information are alleged by the Cox to contain proprietary information, provided that this requirement shall not be deemed to constitute a waiver of the Cox's right to assert that the proprietary information contained in such documents, records or other information, should not be disclosed and to withhold such information upon the agreement of the COUNTY. In order to determine the validity of such assertion and withholding by the Cox, the COUNTY agrees to review the alleged proprietary information at the Cox's

premises, subject to the terms as reasonably determined by the parties, and, to limit access to the alleged proprietary information to those individuals who require the information in the exercise of the COUNTY's rights under this Agreement, as reasonably determined by the parties. If the COUNTY Attorney concurs with the Cox's assertion regarding the proprietary nature of such information, the COUNTY will not disclose such information to any Person and will not remove from the Cox's premises the proprietary portion of any document or other tangible thing that contains such proprietary information. If the COUNTY Attorney does not concur with such assertion, then the Cox shall promptly provide such documents, including the alleged proprietary portion thereof, to the COUNTY, provided that the Cox shall not be required to provide the proprietary portion thereof if it promptly notifies the COUNTY of its intentions to challenge the COUNTY Attorney's decision or during the pendency of any court challenge to such provision. The labeling of documents, records or other information as proprietary shall be the sole responsibility of the Cox.

JAMES CITY COUNTY, VIRGINIA

\_\_\_\_\_  
County Administrator

APPROVED AS TO FORM:

\_\_\_\_\_  
County Attorney

The undersigned hereby agrees to comply with all the terms, requirements and conditions of the above Memorandum of Agreement.

COX COMMUNICATIONS HAMPTON ROADS, LLC

By: \_\_\_\_\_

Name: \_\_\_\_\_

Its: \_\_\_\_\_

Date: \_\_\_\_\_

State of \_\_\_\_\_

COUNTY/County of \_\_\_\_\_, TO WIT;

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 2021, by , \_\_\_\_\_ of Cox Communications Hampton Roads, LLC. He/she is personally known to me or has produced \_\_\_\_\_ as evidence of identification.

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_ My registration number: \_\_\_\_\_

DRAFT

VATI FUNDING SOURCES TABLE

Please fill in the chart below with a description of the project funding source (local, federal, state, private, other), the amount from that source, the percentage of total project funding that source represents, and a description of the current status of the funds (pending, secured, etc.).

Source	Amount	%	Status
REQUESTED VATI	\$ 525622	80	Pending
JAMES CITY COUNTY (LOCAL)	\$ 69350	10.5	PENDING
COX COMMUNICATION (OTHER)	\$ 63050	9.5	PENDING
	\$		
	\$		
	\$		
	\$		
<b>TOTAL</b>	<b>\$ 660022</b>	<b>100 %</b>	





**Information Resources Management**

101-F Mounts Bay Road  
P.O. Box 8784  
Williamsburg, VA 23187-8784  
P: 757-253-6667  
F: 757-253-6663

[jamescitycountyva.gov](http://jamescitycountyva.gov)

September 13, 2021

Ms. Sarah Buck  
Sr. Manager, Public Affairs  
Cox Communications  
1341 Crossway Blvd.  
Chesapeake, VA 23320

Dear Ms. Buck:

We are pleased to partner with Cox Communication in applying for grant funding to extend broadband service to unserved residents of the County.

The intent of this letter is to confirm our commitment to meet the 20% matching fund requirement for the VATI grant. The cash value of the James City County contribution that is not reimbursed by VATI is \$69,350. This will allow the County funds and Cox funding of \$63,050 to meet the 20% necessary under current project cost estimates.

Please accept this letter as our documented commitment to the funding of this project.

Sincerely,

Patrick Page  
Director, Information Resources Management

PP/tlc  
sbuck-ltr

## ATTACHMENT 10 – Documentation of Match Funding



Government and Public Affairs  
1341 Crossways Blvd.  
Chesapeake, VA 23320

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August 31, 2021

Mr. Patrick Page  
Information Resources Management  
101F Mounts Bay Road, Suite 400  
Williamsburg, VA 23185

Dear Mr. Page,

We are pleased to partner with James City County to apply for grant funding to extend broadband service to the remaining unserved residents in the County.

The intent of this letter is to confirm our commitment to matching funds for this project and to provide assurance of our financial ability to do so.

Cox Communications is the largest private telecom company in America, proudly serving six million homes and businesses across 18 states. Cox Communications is the largest division of Cox Enterprises, a family-owned, global company founded in 1898 by Governor James M. Cox, that reported \$21B in annual revenues in 2019.

Cox will be providing all the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project. The cash value of the Cox contribution that is not reimbursed by VATI or other matching funds from James City County is \$63,050. Cox is committed to provide this amount of match funding.

Please accept this letter in lieu of a financial statement documenting current assets due to our position as a privately-held company.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sarah'.

Sarah Buck  
Sr. Manager, Public Affairs



**Information Resources Management**

101-F Mounts Bay Road  
P.O. Box 8784  
Williamsburg, VA 23187-8784  
P: 757-253-6667  
F: 757-253-6663

[jamescitycountyva.gov](http://jamescitycountyva.gov)

September 13, 2021

Ms. Sarah Buck  
Sr. Manager, Public Affairs  
Cox Communications  
1341 Crossway Blvd.  
Chesapeake, VA 23320

Dear Ms. Buck:

Thank you for joining James City County (JCC) in this year's VATI grant application process. The Board of Supervisors and County Administration are committed to expanding broadband service to unserved citizens. JCC seeks to achieve universal broadband service throughout the County to allow citizen and business access to online education, healthcare, and economic prosperity. Reliable and affordable broadband service provides opportunity for all.

JCC values our partnership with Cox Communication and appreciates your willingness to submit the joint VATI grant application.

Sincerely,

Patrick Page  
Director, Information Resources Management

PP/tlc  
VATI2021-ltr

## Attachment 11 – Letter of Support



Government and Public Affairs  
1341 Crossways Blvd.  
Chesapeake, VA 23320

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August 31, 2021

Mr. Scott Stevens  
County Administrator  
101 Mounts Bay Road  
Building D  
Williamsburg, VA 23185

Dear Mr. Stevens,

Thank you for the opportunity to work with your team on a grant application to extend broadband service to unserved residents in James City County. Cox is a committed partner to this project, and we appreciate the opportunity to work together to submit a VATI grant application this year.

Cox has been providing video and telecommunications service in the Commonwealth for more than 40 years and we have continually worked to enhance and expand our network to meet the needs of our customers. Over the past decade, Cox has invested billions of dollars in its Virginia network to bring gigabit service to all Cox residential customers; we've committed \$10B more nationwide over the next five years to continue the work that needs to be done to meet the needs of our customers, which we anticipate will be 10 gigabits in the very near future. These investments and services have significant impact on economic development by increasing opportunities for residents to engage in virtual learning, have access to telehealth options, telework, and allowing more home-based businesses to thrive.

With the demand for broadband connectivity as high as it's ever been, partnering to reach the unserved is of the utmost importance. It's an exciting time and we appreciate the County trusting Cox to deliver the connectivity its residents desire and deserve.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sarah Buck'.

Sarah Buck  
Sr. Manager, Public Affairs

**ROBERT J. WITTMAN**  
1ST DISTRICT, VIRGINIA

HOUSE ARMED SERVICES COMMITTEE  
RANKING MEMBER, SEAPOWERS AND PROJECTION FORCES  
TACTICAL AIR AND LAND FORCES

NATURAL RESOURCES COMMITTEE  
WATER, OCEANS, AND WILDLIFE

CO-CHAIR, CONGRESSIONAL  
SHIPBUILDING CAUCUS

CO-CHAIR, CONGRESSIONAL  
CHESAPEAKE BAY WATERSHED TASK FORCE

CO-CHAIR, CONGRESSIONAL  
PUBLIC HEALTH CAUCUS

CO-CHAIR, CONGRESSIONAL  
RURAL BROADBAND CAUCUS



**Congress of the United States**  
**House of Representatives**  
**Washington, DC 20515**

September 14, 2021

WASHINGTON OFFICE:  
2055 RAYBURN HOUSE OFFICE BUILDING  
WASHINGTON, DC 20515  
(202) 225-4261

DISTRICT OFFICES:

STAFFORD OFFICE  
95 DUNN DRIVE SUITE 201  
STAFFORD, VA 22556  
(540) 659-2734

MECHANICSVILLE OFFICE  
6501 MECHANICSVILLE TURNPIKE SUITE 102  
MECHANICSVILLE, VA 23111  
(804) 730-6595

MIDDLE PENINSULA OFFICE  
508 CHURCH LANE  
P.O. BOX 3106  
TAPPAHANNOCK, VA 22560  
(804) 443-0668

[WWW.WITTMAN.HOUSE.GOV](http://WWW.WITTMAN.HOUSE.GOV)

Tamarah Holmes, Ph.D.  
Director, Office of Broadband  
Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, VA 23219

Dear Director Holmes:

I am writing in support of the James City County FY 2022 Virginia Department of Housing and Community Development Virginia Telecommunication Initiative (VATI) grant application to expand high-speed broadband availability in the First Congressional District through a partnership with Cox Communication. Approval of this application would help meet the critical need to buildout high-speed broadband service to residents of James City County.

Rural residents in Virginia's First Congressional District appreciate the value of high-speed broadband access. Providing reliable broadband access is vital for commercial stability, job creation, distance learning, and telehealth service expansion. Throughout the First Congressional District of Virginia, as in other largely rural areas, economic incentives are needed to expand broadband access, and the VATI program has been a successful vehicle of meeting that need. VATI encourages private telecommunications providers to enlarge their coverage and gives localities the ability to design the expansion that is right for their communities. This eases the financial burden associated with construction costs, broadens service, and creates a successful public-private partnership (P3) for the awardees and for the Commonwealth.

James City County and their key partner Cox Communication seek this VATI grant to move them closer to universal broadband coverage. Together they are targeting 26 properties, 9 passing (or benefitting) properties encompassing 10 areas in the western part of the county. The 26 targeted properties are considered high-cost installations due to their distance from the nearest connection on the Cox Communication network. The current cost estimate is \$660,022 for the construction of 9.61 miles of cabling and the installation of equipment. This proposed application will increase educational opportunities and economic growth in the county.

Thank you for your consideration of the James City County application. Moreover, if you have any concerns or questions, please do not hesitate to contact my office.

Sincerely,

A handwritten signature in blue ink, reading "Robert J. Wittman". The signature is fluid and cursive, with a long horizontal stroke at the end.

Robert J. Wittman  
Member of Congress

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE</b>					
<b>Construction</b>					
200 LF of fiber @\$150/LF	\$30,000	\$15,000	\$15,000	Company A	9/5/2016
Tower	\$100,000	\$80,000	\$20,000	Company B	9/5/2016
Engineering	\$20,000	\$0	\$20,000	ABC Engineering Firm	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Riverview Plantation - Construct approx. 500' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 7,102	\$ 4,652	\$ 2,450	Cox Communications	8/31/2021
Firetower Rd - Construct approx. 2000' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 28,420	\$ 22,695	\$ 5,725	Cox Communications	8/31/2021
Greenway Cir - Construct approx. 1325' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 18,828	\$ 15,678	\$ 3,150	Cox Communications	8/31/2021
Forge (1) - Construct approx. 2700' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 38,367	\$ 34,042	\$ 4,325	Cox Communications	8/31/2021
Jolly Pond - Construct approx. 400' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 5,684	\$ 3,334	\$ 2,350	Cox Communications	8/31/2021
Forge (2) - Construct approx. 900' of new UG coaxial network to include electronics @ \$14.21 per ft. AND Construct approx. 650' of new aerial coaxial network to include electronics @ \$5.43 per ft.	\$ 16,319	\$ 13,319	\$ 3,000	Cox Communications	8/31/2021
Mt. Laurel - Construct approx. 1600' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 22,737	\$ 17,362	\$ 5,375	Cox Communications	8/31/2021
Ware Creek - Construct approx. 1900' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 26,999	\$ 23,374	\$ 3,625	Cox Communications	8/31/2021
Riverview Rd - Construct approx. 900' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 12,789	\$ 10,014	\$ 2,775	Cox Communications	8/31/2021
Richmond Rd. - Construct approx. 800' of new UG coaxial network to include electronics @ \$14.21 per ft. AND Construct approx. 125' of new aerial coaxial network to include electronics @ \$5.43 per ft.	\$ 12,047	\$ 9,322	\$ 2,725	Cox Communications	8/31/2021
Hicks Island Rd. - Construct approx. 500' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 4,974	\$ 2,674	\$ 2,300	Cox Communications	8/31/2021
Arlington Island Rd. - Construct approx. 5880' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$ 91,055	\$ 71,955	\$ 19,100	Cox Communications	8/31/2021
Little Creek Dam/Menzels - Construct approx. 22716' of new UG fiber network @ \$14.19 per ft.; Construct approx. 5500' of existing aerial fiber network @ \$3.66 per ft.; Construct approx 2340' of existing UG fiber network @ \$3.09 per ft.; Headend eq and fiber cabinets	\$ 374,701	\$ 299,201	\$ 75,500	Cox Communications	9/13/2021
	\$ -	\$ -	\$ -	Cox Communications	
	\$ -	\$ -	\$ -	Cox Communications	

	Product	Total	Cox Contribution	Remaining Balance	County Contribution	VATI Request Amount	Source of Estimate	Date
Riverview Plantation	Construct approx. 500' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$7,102	\$2,000	\$5,102	\$450	\$4,652	Cox Communications	8/31/2021
Firetower Rd	Construct approx. 2000' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$28,420	\$4,000	\$24,420	\$1,725	\$22,695	Cox Communications	8/31/2021
Greenway Cir	Construct approx. 1325' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$18,828	\$2,000	\$16,828	\$1,150	\$15,678	Cox Communications	8/31/2021
Forge (1)	Construct approx. 2700' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$38,367	\$2,000	\$36,367	\$2,325	\$34,042	Cox Communications	8/31/2021
Jolly Pond	Construct approx. 400' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$5,684	\$2,000	\$3,684	\$350	\$3,334	Cox Communications	8/31/2021
Forge (2)	Construct approx. 900' of new UG coaxial network to include electronics @ \$14.21 per ft. AND Construct approx. 650' of new aerial coaxial network to include electronics @ \$5.43 per ft.	\$16,319	\$2,000	\$14,319	\$1,000	\$13,319	Cox Communications	8/31/2021
Mt. Laurel	Construct approx. 1600' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$22,737	\$4,000	\$18,737	\$1,375	\$17,362	Cox Communications	8/31/2021
Ware Creek	Construct approx. 1900' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$26,999	\$2,000	\$24,999	\$1,625	\$23,374	Cox Communications	8/31/2021
Riverview Rd	Construct approx. 900' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$12,789	\$2,000	\$10,789	\$775	\$10,014	Cox Communications	8/31/2021
Richmond Rd.	Construct approx. 800' of new UG coaxial network to include electronics @ \$14.21 per ft. AND Construct approx. 125' of new aerial coaxial network to include electronics @ \$5.43 per ft.	\$12,047	\$2,000	\$10,047	\$725	\$9,322	Cox Communications	8/31/2021
Hicks Island Rd.	Construct approx. 500' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$4,974	\$2,000	\$2,974	\$300	\$2,674	Cox Communications	8/31/2021
Arlington Island Rd.	Construct approx. 5880' of new UG coaxial network to include electronics @ \$14.21 per ft.	\$91,055	\$13,550	\$77,505	\$5,550	\$71,955	Cox Communications	8/31/2021
Little Creek Dam/Menzels	Construct approx. 22716' of new UG fiber network @ \$14.19 per ft.; Construct approx. 5500' of existing aerial fiber network @ \$3.66 per ft.; Construct approx 2340' of existing UG fiber network @ \$3.09 per ft.; Headend eq and fiber cabinets	\$374,701	\$23,500	\$351,201	\$52,000	\$299,201	Cox Communications	9/13/2021
<b>TOTALS</b>		<b>\$660,022</b>	<b>\$63,050</b>	<b>\$596,972</b>	<b>\$69,350</b>	<b>\$527,622</b>		
			<b>9.5%</b>		<b>10.50%</b>	<b>80%</b>		



## ATTACHMENT 13 – Documentation of Supporting Cost Estimates



Government and Public Affairs  
1341 Crossways Blvd.  
Chesapeake, VA 23320

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August 31, 2021

Mr. Patrick Page  
Information Resources Management  
101F Mounts Bay Road, Suite 400  
Williamsburg, VA 23185

Dear Mr. Page,

In reviewing the VATI grant application it has come to our attention that documents are required to verify or back up our cost estimates for the chosen project area(s).

As a nationwide company, Cox uses internal employees and corporate contracted resources to complete and perform the proposed works as outlined in this grant application. Cox is able to leverage its scale when it comes to the purchasing of equipment and establishing reasonable contract rates for additional labor as needed. Therefore, we have the benefit of not having to request quotes for individual projects; the costs are standard so we're able to build them into the costs presented in the table provided and are not adjusted based on geographic location, project size, source of funding, or any other factors. Contracted rates are considered proprietary.

It is our hope that this letter will be sufficient in demonstrating to the review board that our company has done its due diligence to negotiate rates that reflect a reasonable use of resources both for the planning and completion of these last mile projects.

Please accept this letter as an explanation for the absence of attached documentation of supporting cost estimates as requested in the 2022 VATI grant application (attachment 13).

Sincerely,

A handwritten signature in black ink, appearing to read 'Sarah Buck'.

Sarah Buck  
Sr. Manager, Public Affairs

[Skip to main content](#)[Skip to footer and contact information](#)



(RETAIN FOR YOUR RECORDS) Form 477 Filing Summary

FRN:

**0001834696**

Data as of:

**Jun 30, 2020**

Operations:

**Non-ILEC**

Submission Status:

**Original - Submitted**

Last Updated:

**Aug 24, 2020 09:38:26**

**Filer Identification**

Section	Question	Response
<b>Filer Information</b>	Company Name	Cox Communications
	Holding Company Name	Cox Communications, Inc.
	SAC ID	279011, 439003, 549017
	499 ID	827138

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Data Contact Information</b>	Data Contact Name	Paul Cain
	Data Contact Phone Number	(404) 269-8139
	Data Contact E-mail	paul.cain@cox.com
<b>Emergency Operations Contact Information</b>	Emergency Operations Name	Mark Peay
	Emergency Operations Phone Number	(404) 227-6704
	Emergency Operations E-mail	mark.peay@cox.com
<b>Certifying Official Contact Information</b>	Certifying Official Name	Joiava T. Philpott
	Certifying Official Phone Number	(404) 269-0983
	Certifying Official E-mail	joiava.philpott@cox.com

**Data Submitted**

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Fixed_Broadband_Deployment_FCC_06302020.txt	Aug 3, 2020 16:00:46	314097
Fixed Broadband Subscription	Fixed_Broadband_Subscription_FCC_06302020.txt	Aug 4, 2020 14:20:30	111104
Fixed Voice Subscription	Voice_Telephone_Subscription_Detail_06302020.txt	Aug 5, 2020 14:39:59	6332

### Fixed Broadband Deployment

#### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Arizona	Cox Communications	Cable Modem – DOCSIS 3.0	1687
		Cable Modem – DOCSIS 3.1	54642
		Optical Carrier/Fiber to the End User	4835

<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
<b>Arkansas</b>	Cox Communications	Cable Modem – DOCSIS 3.1	12767
		Optical Carrier/Fiber to the End User	212
<b>California</b>	Cox Communications	Cable Modem – DOCSIS 3.0	1340
		Cable Modem – DOCSIS 3.1	27554
		Optical Carrier/Fiber to the End User	1109
<b>Connecticut</b>	Cox Communications	Cable Modem – DOCSIS 3.1	6066
		Optical Carrier/Fiber to the End User	51
<b>District of Columbia</b>	Cox Communications	Cable Modem – DOCSIS 3.1	5
		Optical Carrier/Fiber to the End User	3

<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
<b>Florida</b>	Cox Communications	Cable Modem – DOCSIS 3.0	13
		Cable Modem – DOCSIS 3.1	14048
		Optical Carrier/Fiber to the End User	150
<b>Georgia</b>	Cox Communications	Cable Modem – DOCSIS 3.0	6
		Cable Modem – DOCSIS 3.1	5426
		Optical Carrier/Fiber to the End User	97
<b>Idaho</b>	Cox Communications	Cable Modem – DOCSIS 3.1	742
		Optical Carrier/Fiber to the End User	8
<b>Iowa</b>	Cox Communications	Cable Modem – DOCSIS 3.1	1450

<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
		Optical Carrier/Fiber to the End User	7
<b>Kansas</b>	Cox Communications	Cable Modem – DOCSIS 3.0	24
		Cable Modem – DOCSIS 3.1	28932
		Optical Carrier/Fiber to the End User	190
<b>Louisiana</b>	Cox Communications	Cable Modem – DOCSIS 3.0	8
		Cable Modem – DOCSIS 3.1	36052
		Optical Carrier/Fiber to the End User	344
<b>Massachusetts</b>	Cox Communications	Cable Modem – DOCSIS 3.1	101
		Optical Carrier/Fiber to the End User	1

<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
<b>Nebraska</b>	Cox Communications	Cable Modem – DOCSIS 3.0	10
		Cable Modem – DOCSIS 3.1	12187
		Optical Carrier/Fiber to the End User	339
<b>Nevada</b>	Cox Communications	Cable Modem – DOCSIS 3.0	17
		Cable Modem – DOCSIS 3.1	17132
		Optical Carrier/Fiber to the End User	352
<b>North Carolina</b>	Cox Communications	Cable Modem – DOCSIS 3.1	24
		Optical Carrier/Fiber to the End User	2
<b>Ohio</b>	Cox Communications	Cable Modem – DOCSIS 3.0	1



<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
		Cable Modem – DOCSIS 3.1	2109
		Optical Carrier/Fiber to the End User	4
<b>Oklahoma</b>	Cox Communications	Cable Modem – DOCSIS 3.0	12
		Cable Modem – DOCSIS 3.1	30012
		Optical Carrier/Fiber to the End User	992
<b>Rhode Island</b>	Cox Communications	Cable Modem – DOCSIS 3.0	2
		Cable Modem – DOCSIS 3.1	18570
		Optical Carrier/Fiber to the End User	53
<b>Virginia</b>	Cox Communications	Cable Modem – DOCSIS 3.0	27

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	34158
		Optical Carrier/Fiber to the End User	224
<b>Total</b>			<b>314097</b>

### Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End-user Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Arizona	Cable Modem	19408	1223891	89287	1313178
	Optical Carrier/Fiber to the End User	4769	78130	4480	82610
Arkansas	Cable Modem	2342	133306	12043	145349

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	445	4261	454	4715
<b>California</b>	Cable Modem	11723	844658	55928	900586
	Optical Carrier/Fiber to the End User	2525	23570	5485	29055
<b>Connecticut</b>	Cable Modem	1985	121046	9864	130910
	Optical Carrier/Fiber to the End User	177	1042	147	1189
<b>District of Columbia</b>	Optical Carrier/Fiber to the End User	3	0	3	3
<b>Florida</b>	Cable Modem	3352	238491	19148	257639

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	542	5382	744	6126
Georgia	Cable Modem	1244	77307	6578	83885
	Optical Carrier/Fiber to the End User	233	3148	235	3383
Idaho	Cable Modem	75	6836	655	7491
	Optical Carrier/Fiber to the End User	7	0	8	8
Iowa	Cable Modem	431	18962	1275	20237
	Optical Carrier/Fiber to the End User	50	94	48	142

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Kansas	Cable Modem	5213	263229	20776	284005
	Optical Carrier/Fiber to the End User	684	1829	819	2648
Louisiana	Cable Modem	9249	425052	36497	461549
	Optical Carrier/Fiber to the End User	1712	6363	2444	8807
Massachusetts	Cable Modem	25	1118	15	1133
	Optical Carrier/Fiber to the End User	2	0	2	2
Nebraska	Cable Modem	3494	202249	14905	217154

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	835	8734	745	9479
Nevada	Cable Modem	8130	574154	40791	614945
	Optical Carrier/Fiber to the End User	1686	28533	2063	30596
North Carolina	Cable Modem	19	488	9	497
	Optical Carrier/Fiber to the End User	3	0	3	3
Ohio	Cable Modem	1291	49377	3009	52386
	Optical Carrier/Fiber to the End User	43	119	44	163

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Oklahoma	Cable Modem	9127	421317	40352	461669
	Optical Carrier/Fiber to the End User	2432	13809	3478	17287
Rhode Island	Cable Modem	4137	201258	17257	218515
	Optical Carrier/Fiber to the End User	380	1176	451	1627
Virginia	Cable Modem	11527	557531	53323	610854
	Optical Carrier/Fiber to the End User	1804	7991	2743	10734
<b>Total</b>		<b>111104</b>	<b>5544451</b>	<b>446108</b>	<b>5990559</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
0.256	0.256	0	157	157
0.384	0.384	0	3490	3490
0.512	0.512	0	5	5
0.768	0.768	0	1	1
1.000	0.256	0	5	5
1.000	1.000	0	47	47
1.500	0.384	0	230	230
1.500	0.512	0	2	2
1.500	1.500	0	266	266



<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
2.000	0.384	0	76	76
2.000	2.000	0	2582	2582
3.000	0.512	0	1349	1349
3.000	3.000	0	130	130
4.000	4.000	0	7	7
5.000	1.000	36	584	620
5.000	2.000	0	471	471
5.000	5.000	0	311	311
6.000	1.000	0	790	790

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
6.000	2.000	0	45	45
6.000	6.000	0	53	53
7.000	7.000	0	3	3
8.000	2.000	0	7	7
8.000	8.000	0	6	6
9.000	1.000	0	820	820
9.000	9.000	0	1	1
10.000	1.000	243916	0	243916
10.000	2.000	0	55526	55526

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
10.000	3.000	0	49	49
10.000	10.000	0	988	988
15.000	1.500	0	1	1
15.000	2.000	18146	0	18146
15.000	3.000	0	6236	6236
15.000	5.000	0	356	356
15.000	15.000	0	15	15
15.500	5.000	0	30	30
20.000	3.000	0	9380	9380

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
20.000	4.000	0	4	4
20.000	20.000	0	1678	1678
25.000	3.000	155539	0	155539
25.000	4.000	0	1478	1478
25.000	5.000	21578	82730	104308
25.000	10.000	0	75	75
25.000	15.000	0	2	2
25.000	25.000	0	55	55
28.000	4.000	0	152	152

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
30.000	10.000	0	155	155
30.000	30.000	0	761	761
40.000	40.000	0	318	318
45.000	45.000	0	7	7
50.000	3.000	838118	0	838118
50.000	5.000	0	6708	6708
50.000	10.000	98002	105590	203592
50.000	15.000	0	166	166
50.000	50.000	0	3624	3624

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
60.000	15.000	0	129	129
60.000	60.000	0	14	14
70.000	70.000	0	9	9
75.000	10.000	0	4	4
75.000	25.000	0	602	602
75.000	75.000	0	16	16
80.000	10.000	0	5	5
80.000	20.000	0	23	23
80.000	80.000	0	2	2

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
90.000	90.000	0	3	3
100.000	10.000	33124	95	33219
100.000	20.000	0	95192	95192
100.000	30.000	0	86	86
100.000	40.000	0	1	1
100.000	50.000	0	1	1
100.000	100.000	0	6482	6482
120.000	120.000	0	1	1
130.000	130.000	0	2	2

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
140.000	30.000	0	4	4
150.000	10.000	2581188	26	2581214
150.000	20.000	5988	669	6657
150.000	40.000	0	8	8
150.000	150.000	0	117	117
155.000	155.000	0	10	10
200.000	10.000	241430	0	241430
200.000	20.000	0	26053	26053
200.000	50.000	0	1	1



<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
200.000	200.000	0	2256	2256
250.000	250.000	0	58	58
300.000	30.000	864745	15910	880655
300.000	50.000	0	2	2
300.000	75.000	0	14	14
300.000	80.000	0	1	1
300.000	300.000	0	1140	1140
400.000	400.000	0	242	242
500.000	35.000	0	3460	3460

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
500.000	500.000	0	1200	1200
600.000	600.000	0	22	22
700.000	700.000	0	18	18
800.000	800.000	0	3	3
900.000	900.000	0	1	1
1000.000	35.000	404628	2592	407220
1000.000	1000.000	38013	1782	39795
2000.000	2000.000	0	127	127
3000.000	3000.000	0	39	39

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
4000.000	4000.000	0	22	22
5000.000	5000.000	0	58	58
6000.000	6000.000	0	4	4
8000.000	8000.000	0	5	5
10000.000	10000.000	0	67	67
12000.000	12000.000	0	1	1
20000.000	20000.000	0	2	2
40000.000	40000.000	0	2	2
100000.000	100000.000	0	3	3

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
<b>Total</b>		<b>5544451</b>	<b>446108</b>	<b>5990559</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
<b>Cable Modem</b>	0.256	0.256	0	152	152
	0.384	0.384	0	3483	3483
	1.000	0.256	0	5	5
	1.500	0.384	0	230	230
	1.500	1.500	0	3	3
	2.000	0.384	0	76	76
	2.000	2.000	0	2497	2497

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	3.000	0.512	0	1349	1349
	3.000	3.000	0	16	16
	5.000	1.000	31	554	585
	5.000	2.000	0	449	449
	5.000	5.000	0	3	3
	6.000	1.000	0	790	790
	6.000	2.000	0	44	44
	9.000	1.000	0	820	820
	10.000	1.000	240288	0	240288

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	10.000	2.000	0	55503	55503
	10.000	10.000	0	2	2
	15.000	1.500	0	1	1
	15.000	2.000	18116	0	18116
	15.000	3.000	0	6127	6127
	15.000	5.000	0	121	121
	20.000	3.000	0	9380	9380
	20.000	4.000	0	4	4
	20.000	20.000	0	4	4

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	25.000	3.000	154700	0	154700
	25.000	4.000	0	1478	1478
	25.000	5.000	21497	82600	104097
	25.000	15.000	0	2	2
	28.000	4.000	0	152	152
	30.000	10.000	0	155	155
	30.000	30.000	0	2	2
	50.000	3.000	821871	0	821871
	50.000	5.000	0	6708	6708

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	50.000	10.000	95651	105342	200993
	50.000	15.000	0	8	8
	60.000	15.000	0	129	129
	80.000	10.000	0	5	5
	100.000	10.000	32909	95	33004
	100.000	20.000	0	94973	94973
	140.000	30.000	0	4	4
	150.000	10.000	2504935	26	2504961
	150.000	20.000	5956	669	6625



<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	200.000	10.000	239491	0	239491
	200.000	20.000	0	25939	25939
	300.000	30.000	824688	15786	840474
	500.000	35.000	0	3442	3442
	1000.000	35.000	400137	2584	402721
<b>Optical Carrier/Fiber to the End User</b>	0.256	0.256	0	5	5
	0.384	0.384	0	7	7
	0.512	0.512	0	5	5
	0.768	0.768	0	1	1

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	1.000	1.000	0	47	47
	1.500	0.512	0	2	2
	1.500	1.500	0	263	263
	2.000	2.000	0	85	85
	3.000	3.000	0	114	114
	4.000	4.000	0	7	7
	5.000	1.000	5	30	35
	5.000	2.000	0	22	22
	5.000	5.000	0	308	308

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	6.000	2.000	0	1	1
	6.000	6.000	0	53	53
	7.000	7.000	0	3	3
	8.000	2.000	0	7	7
	8.000	8.000	0	6	6
	9.000	9.000	0	1	1
	10.000	1.000	3628	0	3628
	10.000	2.000	0	23	23
	10.000	3.000	0	49	49

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	10.000	10.000	0	986	986
	15.000	2.000	30	0	30
	15.000	3.000	0	109	109
	15.000	5.000	0	235	235
	15.000	15.000	0	15	15
	15.500	5.000	0	30	30
	20.000	20.000	0	1674	1674
	25.000	3.000	839	0	839
	25.000	5.000	81	130	211

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	25.000	10.000	0	75	75
	25.000	25.000	0	55	55
	30.000	30.000	0	759	759
	40.000	40.000	0	318	318
	45.000	45.000	0	7	7
	50.000	3.000	16247	0	16247
	50.000	10.000	2351	248	2599
	50.000	15.000	0	158	158
	50.000	50.000	0	3624	3624

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	60.000	60.000	0	14	14
	70.000	70.000	0	9	9
	75.000	10.000	0	4	4
	75.000	25.000	0	602	602
	75.000	75.000	0	16	16
	80.000	20.000	0	23	23
	80.000	80.000	0	2	2
	90.000	90.000	0	3	3
	100.000	10.000	215	0	215

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	100.000	20.000	0	219	219
	100.000	30.000	0	86	86
	100.000	40.000	0	1	1
	100.000	50.000	0	1	1
	100.000	100.000	0	6482	6482
	120.000	120.000	0	1	1
	130.000	130.000	0	2	2
	150.000	10.000	76253	0	76253
	150.000	20.000	32	0	32

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	150.000	40.000	0	8	8
	150.000	150.000	0	117	117
	155.000	155.000	0	10	10
	200.000	10.000	1939	0	1939
	200.000	20.000	0	114	114
	200.000	50.000	0	1	1
	200.000	200.000	0	2256	2256
	250.000	250.000	0	58	58
	300.000	30.000	40057	124	40181



<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	300.000	50.000	0	2	2
	300.000	75.000	0	14	14
	300.000	80.000	0	1	1
	300.000	300.000	0	1140	1140
	400.000	400.000	0	242	242
	500.000	35.000	0	18	18
	500.000	500.000	0	1200	1200
	600.000	600.000	0	22	22
	700.000	700.000	0	18	18

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	800.000	800.000	0	3	3
	900.000	900.000	0	1	1
	1000.000	35.000	4491	8	4499
	1000.000	1000.000	38013	1782	39795
	2000.000	2000.000	0	127	127
	3000.000	3000.000	0	39	39
	4000.000	4000.000	0	22	22
	5000.000	5000.000	0	58	58
	6000.000	6000.000	0	4	4

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	8000.000	8000.000	0	5	5
	10000.000	10000.000	0	67	67
	12000.000	12000.000	0	1	1
	20000.000	20000.000	0	2	2
	40000.000	40000.000	0	2	2
	100000.000	100000.000	0	3	3
<b>Total</b>			<b>5544451</b>	<b>446108</b>	<b>5990559</b>

### **Fixed Voice Subscription**

**VGE Lines and VoIP Subscriptions by State and End-user Type**

<b>State</b>	<b>Total VGE Lines</b>	<b>Consumer VGE Lines</b>	<b>Total VoIP Subscriptions</b>	<b>Consumer VoIP Subscriptions</b>
<b>Alabama</b>	0	0	46	0
<b>Arizona</b>	1326	0	586445	370596
<b>Arkansas</b>	0	0	56265	26155
<b>California</b>	3884	1	512848	314347
<b>Colorado</b>	0	0	1120	0
<b>Connecticut</b>	4	0	80974	58324
<b>Florida</b>	0	0	106487	61241
<b>Georgia</b>	0	0	38272	23126
<b>Idaho</b>	0	0	3191	2079

<b>State</b>	<b>Total VGE Lines</b>	<b>Consumer VGE Lines</b>	<b>Total VoIP Subscriptions</b>	<b>Consumer VoIP Subscriptions</b>
<b>Illinois</b>	0	0	33	0
<b>Indiana</b>	0	0	36	0
<b>Iowa</b>	2	0	13990	8375
<b>Kansas</b>	449	0	137632	68626
<b>Louisiana</b>	35	1	239513	135485
<b>Maryland</b>	0	0	101	0
<b>Massachusetts</b>	0	0	92	0
<b>Minnesota</b>	0	0	4	0
<b>Missouri</b>	0	0	58	0

<b>State</b>	<b>Total VGE Lines</b>	<b>Consumer VGE Lines</b>	<b>Total VoIP Subscriptions</b>	<b>Consumer VoIP Subscriptions</b>
<b>Nebraska</b>	807	0	128334	68779
<b>Nevada</b>	0	0	284475	184464
<b>Ohio</b>	0	0	24839	18240
<b>Oklahoma</b>	3358	0	280159	135782
<b>Oregon</b>	0	0	48	0
<b>Pennsylvania</b>	0	0	48	0
<b>Rhode Island</b>	260	0	157315	92589
<b>South Dakota</b>	0	0	4	0
<b>Tennessee</b>	0	0	145	0

<b>State</b>	<b>Total VGE Lines</b>	<b>Consumer VGE Lines</b>	<b>Total VoIP Subscriptions</b>	<b>Consumer VoIP Subscriptions</b>
<b>Texas</b>	0	0	236	0
<b>Utah</b>	0	0	65	0
<b>Virginia</b>	7423	114	390277	204992
<b>Washington</b>	0	0	18	0
<b>West Virginia</b>	0	0	13	0
<b>Total</b>	<b>17548</b>	<b>116</b>	<b>3043083</b>	<b>1773200</b>

### **Fixed Voice Subscription (VGE Lines)**

#### **VGE Lines Provided to Unaffiliated Providers by State**

<b>State</b>	<b>Wholesale</b>	<b>UNE-L</b>
<b>Arizona</b>	0	0

<b>State</b>	<b>Wholesale</b>	<b>UNE-L</b>
<b>California</b>	0	0
<b>Connecticut</b>	0	0
<b>Iowa</b>	0	0
<b>Kansas</b>	0	0
<b>Louisiana</b>	0	0
<b>Nebraska</b>	0	0
<b>Oklahoma</b>	0	0
<b>Rhode Island</b>	0	0
<b>Virginia</b>	0	0



State	Wholesale	UNE-L
<b>Total</b>	<b>0</b>	<b>0</b>

**VGE Lines Provided to End Users by State, Bundle and Product Type**

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
<b>Arizona</b>	1326	37	1289	0	0	909	417
<b>California</b>	3884	93	3791	0	1	2399	1484
<b>Connecticut</b>	4	0	4	0	0	3	1
<b>Iowa</b>	2	0	2	0	0	1	1
<b>Kansas</b>	449	12	437	0	0	328	121

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Louisiana	35	4	31	0	1	31	3
Nebraska	807	19	788	0	0	622	185
Oklahoma	3358	69	3289	0	0	1785	1573
Rhode Island	260	18	242	0	0	123	137
Virginia	7423	92	7331	1	113	5877	1432
<b>Total</b>	<b>17548</b>	<b>344</b>	<b>17204</b>	<b>1</b>	<b>115</b>	<b>12078</b>	<b>5354</b>

VGE Lines Provided to End Users by State, Ownership and Last-mile Medium

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Arizona	1326	1221	105	0	8	1318	0	0
California	3884	3503	381	0	1113	2771	0	0
Connecticut	4	4	0	0	0	4	0	0
Iowa	2	2	0	0	0	2	0	0
Kansas	449	427	22	0	0	449	0	0
Louisiana	35	32	3	0	10	25	0	0
Nebraska	807	783	24	0	0	807	0	0
Oklahoma	3358	3093	265	0	358	3000	0	0

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Rhode Island	260	252	8	0	0	260	0	0
Virginia	7423	7065	358	0	470	6953	0	0
<b>Total</b>	<b>17548</b>	<b>16382</b>	<b>1166</b>	<b>0</b>	<b>1959</b>	<b>15589</b>	<b>0</b>	<b>0</b>

### Fixed Voice Subscription (iVoIP)

#### Over-the-top VoIP Subscriptions by State and End-user Type

State	Total	Consumer	Business / Govt
Alabama	46	0	46
Arizona	565	0	565
Arkansas	354	0	354
California	7831	0	7831

<b>State</b>	<b>Total</b>	<b>Consumer</b>	<b>Business / Govt</b>
<b>Colorado</b>	1120	0	1120
<b>Connecticut</b>	11	0	11
<b>Florida</b>	129	0	129
<b>Georgia</b>	23	0	23
<b>Idaho</b>	52	0	52
<b>Illinois</b>	33	0	33
<b>Indiana</b>	36	0	36
<b>Iowa</b>	74	0	74
<b>Kansas</b>	1145	0	1145

<b>State</b>	<b>Total</b>	<b>Consumer</b>	<b>Business / Govt</b>
<b>Louisiana</b>	247	0	247
<b>Maryland</b>	101	0	101
<b>Massachusetts</b>	82	0	82
<b>Minnesota</b>	4	0	4
<b>Missouri</b>	58	0	58
<b>Nebraska</b>	804	0	804
<b>Nevada</b>	542	0	542
<b>Ohio</b>	67	0	67
<b>Oklahoma</b>	503	0	503

<b>State</b>	<b>Total</b>	<b>Consumer</b>	<b>Business / Govt</b>
<b>Oregon</b>	48	0	48
<b>Pennsylvania</b>	48	0	48
<b>Rhode Island</b>	89	0	89
<b>South Dakota</b>	4	0	4
<b>Tennessee</b>	145	0	145
<b>Texas</b>	236	0	236
<b>Utah</b>	65	0	65
<b>Virginia</b>	2499	0	2499
<b>Washington</b>	18	0	18





State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Connecticut	80963	58324	22639	70541	10422	284	80679	0	0
Florida	106358	61241	45117	90591	15767	1656	104702	0	0
Georgia	38249	23126	15123	33394	4855	656	37593	0	0
Idaho	3139	2079	1060	2755	384	0	3139	0	0
Illinois	0	0	0	0	0	0	0	0	0
Indiana	0	0	0	0	0	0	0	0	0
Iowa	13916	8375	5541	10635	3281	25	13891	0	0
Kansas	136487	68626	67861	103541	32946	678	135809	0	0

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Louisiana	239266	135485	103781	194981	44285	1598	237668	0	0
Maryland	0	0	0	0	0	0	0	0	0
Massachusetts	10	0	10	0	10	10	0	0	0
Minnesota	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0	0	0
Nebraska	127530	68779	58751	96219	31311	1625	125905	0	0
Nevada	283933	184464	99469	244363	39570	7077	276856	0	0
Ohio	24772	18240	6532	21725	3047	26	24746	0	0



State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Virginia	387778	204992	182786	289354	98424	3954	383824	0	0
Washington	0	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>3026091</b>	<b>1773200</b>	<b>1252891</b>	<b>2423129</b>	<b>602962</b>	<b>70109</b>	<b>2955982</b>	<b>0</b>	<b>0</b>

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(RETAIN FOR YOUR RECORDS) Form 477 Filing Summary

FRN:

**0001834696**

Data as of:

**Dec 31, 2020**

Operations:

**Non-ILEC**

Submission Status:

**Original - Submitted**

Last Updated:

**Mar 1, 2021 13:47:48**

**Filer Identification**

<b>Section</b>	<b>Question</b>	<b>Response</b>
<b>Filer Information</b>	Company Name	Cox Communications
	Holding Company Name	Cox Communications, Inc.
	SAC ID	279011, 439003, 549017
	499 ID	827138
<b>Data Contact Information</b>	Data Contact Name	Paul Cain
	Data Contact Phone Number	(404) 269-8139
	Data Contact E-mail	paul.cain@cox.com

Section	Question	Response
<b>Emergency Operations Contact Information</b>	Emergency Operations Name	Mark Peay
	Emergency Operations Phone Number	(404) 227-6704
	Emergency Operations E-mail	mark.peay@cox.com
<b>Certifying Official Contact Information</b>	Certifying Official Name	Joiava T. Philpott
	Certifying Official Phone Number	(404) 269-0983
	Certifying Official E-mail	joiava.philpott@cox.com

### Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Fixed_Broadband_Deployment_FCC_12312020.txt	Feb 9, 2021 10:17:17	315393

<b>Form Section</b>	<b>File Name</b>	<b>Date &amp; Time</b>	<b>Number of Rows</b>
Fixed Broadband Subscription	Fixed_Broadband_Subscription_FCC_12312020.txt	Feb 10, 2021 08:16:25	117757
Fixed Voice Subscription	Voice_Telephone_Subscription_Detail_FCC_12312020.txt	Feb 10, 2021 08:41:02	6314

### **Fixed Broadband Deployment**

#### **Census Block Counts by State, DBA Name and Technology**

<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
<b>Arizona</b>	Cox Communications	Cable Modem – DOCSIS 3.0	1687
		Cable Modem – DOCSIS 3.1	54687
		Optical Carrier/Fiber to the End User	5284
<b>Arkansas</b>	Cox Communications	Cable Modem – DOCSIS 3.1	12776

<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
		Optical Carrier/Fiber to the End User	275
<b>California</b>	Cox Communications	Cable Modem – DOCSIS 3.0	302
		Cable Modem – DOCSIS 3.1	28640
		Optical Carrier/Fiber to the End User	1211
<b>Connecticut</b>	Cox Communications	Cable Modem – DOCSIS 3.1	6068
		Optical Carrier/Fiber to the End User	49
<b>District of Columbia</b>	Cox Communications	Cable Modem – DOCSIS 3.1	5
		Optical Carrier/Fiber to the End User	3
<b>Florida</b>	Cox Communications	Cable Modem – DOCSIS 3.0	5



<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
		Cable Modem – DOCSIS 3.1	14058
		Optical Carrier/Fiber to the End User	178
<b>Georgia</b>	Cox Communications	Cable Modem – DOCSIS 3.0	7
		Cable Modem – DOCSIS 3.1	5440
		Optical Carrier/Fiber to the End User	114
<b>Idaho</b>	Cox Communications	Cable Modem – DOCSIS 3.1	742
		Optical Carrier/Fiber to the End User	8
<b>Iowa</b>	Cox Communications	Cable Modem – DOCSIS 3.1	1451
		Optical Carrier/Fiber to the End User	25

<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
<b>Kansas</b>	Cox Communications	Cable Modem – DOCSIS 3.0	24
		Cable Modem – DOCSIS 3.1	28928
		Optical Carrier/Fiber to the End User	259
<b>Louisiana</b>	Cox Communications	Cable Modem – DOCSIS 3.0	9
		Cable Modem – DOCSIS 3.1	36068
		Optical Carrier/Fiber to the End User	426
<b>Massachusetts</b>	Cox Communications	Cable Modem – DOCSIS 3.1	101
		Optical Carrier/Fiber to the End User	1
<b>Nebraska</b>	Cox Communications	Cable Modem – DOCSIS 3.0	10

<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
		Cable Modem – DOCSIS 3.1	12191
		Optical Carrier/Fiber to the End User	410
<b>Nevada</b>	Cox Communications	Cable Modem – DOCSIS 3.0	16
		Cable Modem – DOCSIS 3.1	17129
		Optical Carrier/Fiber to the End User	443
<b>North Carolina</b>	Cox Communications	Cable Modem – DOCSIS 3.1	24
		Optical Carrier/Fiber to the End User	2
<b>Ohio</b>	Cox Communications	Cable Modem – DOCSIS 3.0	1
		Cable Modem – DOCSIS 3.1	2110

<b>State</b>	<b>DBA Name</b>	<b>Technology</b>	<b>Blocks</b>
		Optical Carrier/Fiber to the End User	4
<b>Oklahoma</b>	Cox Communications	Cable Modem – DOCSIS 3.0	12
		Cable Modem – DOCSIS 3.1	30053
		Optical Carrier/Fiber to the End User	1038
<b>Rhode Island</b>	Cox Communications	Cable Modem – DOCSIS 3.0	2
		Cable Modem – DOCSIS 3.1	18583
		Optical Carrier/Fiber to the End User	57
<b>Virginia</b>	Cox Communications	Cable Modem – DOCSIS 3.0	26
		Cable Modem – DOCSIS 3.1	34194

State	DBA Name	Technology	Blocks
		Optical Carrier/Fiber to the End User	257
<b>Total</b>			<b>315393</b>

### Fixed Broadband Subscription

#### Fixed Broadband Subscriptions by State, Technology and End-user Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
<b>Arizona</b>	Cable Modem	20386	1287174	91447	1378621
	Optical Carrier/Fiber to the End User	5310	96451	5146	101597
<b>Arkansas</b>	Cable Modem	2455	136152	12044	148196
	Optical Carrier/Fiber to the End User	519	4989	519	5508

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
California	Cable Modem	12410	860192	55931	916123
	Optical Carrier/Fiber to the End User	2691	26499	5596	32095
Connecticut	Cable Modem	2081	123749	9875	133624
	Optical Carrier/Fiber to the End User	196	1216	173	1389
District of Columbia	Optical Carrier/Fiber to the End User	4	0	4	4
Florida	Cable Modem	3501	244012	19400	263412
	Optical Carrier/Fiber to the End User	612	6348	860	7208

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Georgia	Cable Modem	1286	80145	6690	86835
	Optical Carrier/Fiber to the End User	283	3663	275	3938
Idaho	Cable Modem	81	7176	697	7873
	Optical Carrier/Fiber to the End User	9	0	13	13
Iowa	Cable Modem	456	19211	1273	20484
	Optical Carrier/Fiber to the End User	59	162	53	215
Kansas	Cable Modem	5505	271194	20758	291952

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	767	2188	902	3090
Louisiana	Cable Modem	9683	437696	36825	474521
	Optical Carrier/Fiber to the End User	1836	7492	2617	10109
Massachusetts	Cable Modem	26	1075	14	1089
	Optical Carrier/Fiber to the End User	2	0	2	2
Nebraska	Cable Modem	3688	203576	14877	218453
	Optical Carrier/Fiber to the End User	917	10869	818	11687



State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Nevada	Cable Modem	8620	595992	41757	637749
	Optical Carrier/Fiber to the End User	1851	35231	2236	37467
North Carolina	Cable Modem	21	515	9	524
	Optical Carrier/Fiber to the End User	3	0	3	3
Ohio	Cable Modem	1345	50506	2995	53501
	Optical Carrier/Fiber to the End User	47	127	49	176
Oklahoma	Cable Modem	9607	428780	40387	469167

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	2708	16436	3685	20121
<b>Rhode Island</b>	Cable Modem	4322	200562	17336	217898
	Optical Carrier/Fiber to the End User	412	1630	476	2106
<b>Virginia</b>	Cable Modem	12132	566476	53615	620091
	Optical Carrier/Fiber to the End User	1926	10216	2863	13079
<b>Total</b>		<b>117757</b>	<b>5737700</b>	<b>452220</b>	<b>6189920</b>

**Fixed Broadband Subscriptions by Bandwidths and End-user Type**

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
0.256	0.256	0	143	143
0.384	0.384	0	3720	3720
0.512	0.512	0	4	4
1.000	0.256	0	6	6
1.000	1.000	0	44	44
1.500	0.384	0	226	226
1.500	0.512	0	2	2
1.500	1.500	0	241	241
2.000	0.384	0	71	71

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
2.000	2.000	0	2375	2375
3.000	0.512	0	1110	1110
3.000	3.000	0	112	112
4.000	4.000	0	6	6
5.000	1.000	10	521	531
5.000	2.000	0	515	515
5.000	5.000	0	295	295
6.000	1.000	0	716	716
6.000	2.000	0	40	40

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
6.000	6.000	0	45	45
7.000	7.000	0	3	3
8.000	2.000	0	7	7
8.000	8.000	0	3	3
9.000	1.000	0	714	714
9.000	9.000	0	1	1
10.000	1.000	226333	0	226333
10.000	2.000	0	48805	48805
10.000	3.000	0	40	40

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
10.000	10.000	0	939	939
15.000	2.000	15337	0	15337
15.000	3.000	0	5671	5671
15.000	5.000	0	307	307
15.000	15.000	0	10	10
15.500	5.000	0	27	27
20.000	3.000	0	9703	9703
20.000	4.000	0	2	2
20.000	20.000	0	1585	1585

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
25.000	3.000	170729	0	170729
25.000	4.000	0	1393	1393
25.000	5.000	18273	75932	94205
25.000	10.000	0	64	64
25.000	15.000	0	2	2
25.000	25.000	0	49	49
28.000	4.000	0	126	126
30.000	10.000	0	128	128
30.000	30.000	0	764	764

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
40.000	40.000	0	304	304
45.000	45.000	0	7	7
50.000	3.000	847686	0	847686
50.000	5.000	0	6654	6654
50.000	10.000	0	106059	106059
50.000	15.000	0	146	146
50.000	50.000	0	3771	3771
60.000	15.000	0	108	108
60.000	60.000	0	13	13



<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
70.000	70.000	0	6	6
75.000	10.000	0	4	4
75.000	25.000	0	539	539
75.000	75.000	0	13	13
80.000	10.000	0	4	4
80.000	20.000	0	19	19
80.000	80.000	0	1	1
90.000	90.000	0	3	3
100.000	10.000	27789	104	27893

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
100.000	20.000	0	103299	103299
100.000	30.000	0	69	69
100.000	50.000	0	1	1
100.000	100.000	0	7045	7045
130.000	130.000	0	1	1
140.000	30.000	0	4	4
150.000	10.000	2590853	40	2590893
150.000	20.000	4407	739	5146
150.000	40.000	0	6	6

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
150.000	150.000	0	128	128
155.000	155.000	0	5	5
200.000	10.000	190041	0	190041
200.000	20.000	0	31168	31168
200.000	200.000	0	2562	2562
250.000	250.000	0	56	56
300.000	30.000	646284	19119	665403
300.000	50.000	0	2	2
300.000	75.000	0	12	12

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
300.000	80.000	0	1	1
300.000	300.000	0	1378	1378
400.000	400.000	0	292	292
500.000	10.000	372539	0	372539
500.000	35.000	0	4749	4749
500.000	500.000	0	1382	1382
600.000	600.000	0	22	22
700.000	700.000	0	17	17
800.000	800.000	0	3	3

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
900.000	900.000	0	3	3
1000.000	35.000	577483	3275	580758
1000.000	1000.000	49936	2214	52150
2000.000	2000.000	0	142	142
3000.000	3000.000	0	43	43
4000.000	4000.000	0	26	26
5000.000	5000.000	0	66	66
6000.000	6000.000	0	3	3
8000.000	8000.000	0	7	7

<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
10000.000	10000.000	0	103	103
20000.000	20000.000	0	4	4
30000.000	30000.000	0	1	1
40000.000	40000.000	0	6	6
100000.000	100000.000	0	5	5
<b>Total</b>		<b>5737700</b>	<b>452220</b>	<b>6189920</b>

**Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type**

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
<b>Cable Modem</b>	0.256	0.256	0	138	138
	0.384	0.384	0	3714	3714

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	1.000	0.256	0	6	6
	1.500	0.384	0	226	226
	1.500	1.500	0	9	9
	2.000	0.384	0	71	71
	2.000	2.000	0	2304	2304
	3.000	0.512	0	1110	1110
	3.000	3.000	0	15	15
	5.000	1.000	10	495	505
	5.000	2.000	0	497	497

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	5.000	5.000	0	3	3
	6.000	1.000	0	716	716
	6.000	2.000	0	39	39
	9.000	1.000	0	714	714
	10.000	1.000	222665	0	222665
	10.000	2.000	0	48775	48775
	10.000	10.000	0	1	1
	15.000	2.000	15307	0	15307
	15.000	3.000	0	5571	5571



<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	15.000	5.000	0	99	99
	20.000	3.000	0	9703	9703
	20.000	4.000	0	2	2
	20.000	20.000	0	3	3
	25.000	3.000	169517	0	169517
	25.000	4.000	0	1393	1393
	25.000	5.000	18191	75786	93977
	25.000	15.000	0	2	2
	28.000	4.000	0	126	126

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	30.000	10.000	0	128	128
	30.000	30.000	0	2	2
	50.000	3.000	828613	0	828613
	50.000	5.000	0	6654	6654
	50.000	10.000	0	105727	105727
	50.000	15.000	0	9	9
	60.000	15.000	0	108	108
	80.000	10.000	0	4	4
	100.000	10.000	27602	104	27706

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	100.000	20.000	0	102988	102988
	140.000	30.000	0	4	4
	150.000	10.000	2500165	40	2500205
	150.000	20.000	4376	739	5115
	200.000	10.000	188393	0	188393
	200.000	20.000	0	30991	30991
	300.000	30.000	613354	18935	632289
	500.000	10.000	354462	0	354462
	500.000	35.000	0	4720	4720

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	1000.000	35.000	571528	3259	574787
<b>Optical Carrier/Fiber to the End User</b>	0.256	0.256	0	5	5
	0.384	0.384	0	6	6
	0.512	0.512	0	4	4
	1.000	1.000	0	44	44
	1.500	0.512	0	2	2
	1.500	1.500	0	232	232
	2.000	2.000	0	71	71
	3.000	3.000	0	97	97

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	4.000	4.000	0	6	6
	5.000	1.000	0	26	26
	5.000	2.000	0	18	18
	5.000	5.000	0	292	292
	6.000	2.000	0	1	1
	6.000	6.000	0	45	45
	7.000	7.000	0	3	3
	8.000	2.000	0	7	7
	8.000	8.000	0	3	3

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	9.000	9.000	0	1	1
	10.000	1.000	3668	0	3668
	10.000	2.000	0	30	30
	10.000	3.000	0	40	40
	10.000	10.000	0	938	938
	15.000	2.000	30	0	30
	15.000	3.000	0	100	100
	15.000	5.000	0	208	208
	15.000	15.000	0	10	10

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	15.500	5.000	0	27	27
	20.000	20.000	0	1582	1582
	25.000	3.000	1212	0	1212
	25.000	5.000	82	146	228
	25.000	10.000	0	64	64
	25.000	25.000	0	49	49
	30.000	30.000	0	762	762
	40.000	40.000	0	304	304
	45.000	45.000	0	7	7

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	50.000	3.000	19073	0	19073
	50.000	10.000	0	332	332
	50.000	15.000	0	137	137
	50.000	50.000	0	3771	3771
	60.000	60.000	0	13	13
	70.000	70.000	0	6	6
	75.000	10.000	0	4	4
	75.000	25.000	0	539	539
	75.000	75.000	0	13	13



<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	80.000	20.000	0	19	19
	80.000	80.000	0	1	1
	90.000	90.000	0	3	3
	100.000	10.000	187	0	187
	100.000	20.000	0	311	311
	100.000	30.000	0	69	69
	100.000	50.000	0	1	1
	100.000	100.000	0	7045	7045
	130.000	130.000	0	1	1

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	150.000	10.000	90688	0	90688
	150.000	20.000	31	0	31
	150.000	40.000	0	6	6
	150.000	150.000	0	128	128
	155.000	155.000	0	5	5
	200.000	10.000	1648	0	1648
	200.000	20.000	0	177	177
	200.000	200.000	0	2562	2562
	250.000	250.000	0	56	56

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	300.000	30.000	32930	184	33114
	300.000	50.000	0	2	2
	300.000	75.000	0	12	12
	300.000	80.000	0	1	1
	300.000	300.000	0	1378	1378
	400.000	400.000	0	292	292
	500.000	10.000	18077	0	18077
	500.000	35.000	0	29	29
	500.000	500.000	0	1382	1382

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	600.000	600.000	0	22	22
	700.000	700.000	0	17	17
	800.000	800.000	0	3	3
	900.000	900.000	0	3	3
	1000.000	35.000	5955	16	5971
	1000.000	1000.000	49936	2214	52150
	2000.000	2000.000	0	142	142
	3000.000	3000.000	0	43	43
	4000.000	4000.000	0	26	26

<b>Technology</b>	<b>Downstream Bandwidth (in Mbps)</b>	<b>Upstream Bandwidth (in Mbps)</b>	<b>Consumer</b>	<b>Business / Govt</b>	<b>Total</b>
	5000.000	5000.000	0	66	66
	6000.000	6000.000	0	3	3
	8000.000	8000.000	0	7	7
	10000.000	10000.000	0	103	103
	20000.000	20000.000	0	4	4
	30000.000	30000.000	0	1	1
	40000.000	40000.000	0	6	6
	100000.000	100000.000	0	5	5
<b>Total</b>			<b>5737700</b>	<b>452220</b>	<b>6189920</b>

**Fixed Voice Subscription**

**VGE Lines and VoIP Subscriptions by State and End-user Type**

<b>State</b>	<b>Total VGE Lines</b>	<b>Consumer VGE Lines</b>	<b>Total VoIP Subscriptions</b>	<b>Consumer VoIP Subscriptions</b>
<b>Alabama</b>	0	0	46	0
<b>Arizona</b>	1148	0	566546	349060
<b>Arkansas</b>	0	0	53994	24761
<b>California</b>	2993	0	494349	298496
<b>Colorado</b>	0	0	1126	0
<b>Connecticut</b>	4	0	78175	55644
<b>Florida</b>	0	0	101764	56974
<b>Georgia</b>	0	0	36775	21683

<b>State</b>	<b>Total VGE Lines</b>	<b>Consumer VGE Lines</b>	<b>Total VoIP Subscriptions</b>	<b>Consumer VoIP Subscriptions</b>
<b>Idaho</b>	0	0	3120	2014
<b>Illinois</b>	0	0	62	0
<b>Indiana</b>	0	0	38	0
<b>Iowa</b>	2	0	13444	8046
<b>Kansas</b>	401	0	132968	65300
<b>Kentucky</b>	0	0	4	0
<b>Louisiana</b>	33	0	228251	126779
<b>Maryland</b>	0	0	135	0
<b>Massachusetts</b>	0	0	92	0

<b>State</b>	<b>Total VGE Lines</b>	<b>Consumer VGE Lines</b>	<b>Total VoIP Subscriptions</b>	<b>Consumer VoIP Subscriptions</b>
<b>Michigan</b>	0	0	25	0
<b>Missouri</b>	0	0	63	0
<b>Nebraska</b>	685	0	125098	65921
<b>Nevada</b>	0	0	270915	171771
<b>New York</b>	0	0	4	0
<b>Ohio</b>	0	0	23427	16998
<b>Oklahoma</b>	2636	0	267197	127983
<b>Oregon</b>	0	0	48	0
<b>Pennsylvania</b>	0	0	48	0



<b>State</b>	<b>Total VGE Lines</b>	<b>Consumer VGE Lines</b>	<b>Total VoIP Subscriptions</b>	<b>Consumer VoIP Subscriptions</b>
<b>Rhode Island</b>	111	0	150718	86838
<b>South Carolina</b>	0	0	4	0
<b>South Dakota</b>	0	0	4	0
<b>Tennessee</b>	0	0	164	0
<b>Texas</b>	0	0	449	0
<b>Utah</b>	0	0	76	0
<b>Virginia</b>	5796	0	375915	190655
<b>Washington</b>	0	0	18	0
<b>West Virginia</b>	0	0	13	0

<b>State</b>	<b>Total VGE Lines</b>	<b>Consumer VGE Lines</b>	<b>Total VoIP Subscriptions</b>	<b>Consumer VoIP Subscriptions</b>
<b>Total</b>	<b>13809</b>	<b>0</b>	<b>2925075</b>	<b>1668923</b>

**Fixed Voice Subscription (VGE Lines)**

**VGE Lines Provided to Unaffiliated Providers by State**

<b>State</b>	<b>Wholesale</b>	<b>UNE-L</b>
<b>Arizona</b>	<b>0</b>	<b>0</b>
<b>California</b>	<b>0</b>	<b>0</b>
<b>Connecticut</b>	<b>0</b>	<b>0</b>
<b>Iowa</b>	<b>0</b>	<b>0</b>
<b>Kansas</b>	<b>0</b>	<b>0</b>
<b>Louisiana</b>	<b>0</b>	<b>0</b>

State	Wholesale	UNE-L
Nebraska	0	0
Oklahoma	0	0
Rhode Island	0	0
Virginia	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

**VGE Lines Provided to End Users by State, Bundle and Product Type**

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Arizona	1148	27	1121	0	0	761	387

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
California	2993	65	2928	0	0	1752	1241
Connecticut	4	0	4	0	0	3	1
Iowa	2	0	2	0	0	1	1
Kansas	401	8	393	0	0	328	73
Louisiana	33	3	30	0	0	30	3
Nebraska	685	12	673	0	0	532	153
Oklahoma	2636	50	2586	0	0	1394	1242
Rhode Island	111	10	101	0	0	7	104

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Virginia	5796	66	5730	0	0	4782	1014
<b>Total</b>	<b>13809</b>	<b>241</b>	<b>13568</b>	<b>0</b>	<b>0</b>	<b>9590</b>	<b>4219</b>

**VGE Lines Provided to End Users by State, Ownership and Last-mile Medium**

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Arizona	1148	1057	91	0	8	1140	0	0
California	2993	2700	293	0	902	2091	0	0
Connecticut	4	4	0	0	0	4	0	0

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Iowa	2	2	0	0	0	2	0	0
Kansas	401	381	20	0	0	401	0	0
Louisiana	33	30	3	0	10	23	0	0
Nebraska	685	664	21	0	0	685	0	0
Oklahoma	2636	2428	208	0	152	2484	0	0
Rhode Island	111	108	3	0	0	111	0	0
Virginia	5796	5512	284	0	467	5329	0	0
<b>Total</b>	<b>13809</b>	<b>12886</b>	<b>923</b>	<b>0</b>	<b>1539</b>	<b>12270</b>	<b>0</b>	<b>0</b>

### Fixed Voice Subscription (iVoIP)

Over-the-top VoIP Subscriptions by State and End-user Type

<b>State</b>	<b>Total</b>	<b>Consumer</b>	<b>Business / Govt</b>
<b>Alabama</b>	46	0	46
<b>Arizona</b>	555	0	555
<b>Arkansas</b>	362	0	362
<b>California</b>	7551	0	7551
<b>Colorado</b>	1126	0	1126
<b>Connecticut</b>	11	0	11
<b>Florida</b>	142	0	142
<b>Georgia</b>	23	0	23
<b>Idaho</b>	53	0	53

<b>State</b>	<b>Total</b>	<b>Consumer</b>	<b>Business / Govt</b>
<b>Illinois</b>	62	0	62
<b>Indiana</b>	38	0	38
<b>Iowa</b>	76	0	76
<b>Kansas</b>	1116	0	1116
<b>Kentucky</b>	4	0	4
<b>Louisiana</b>	245	0	245
<b>Maryland</b>	135	0	135
<b>Massachusetts</b>	82	0	82
<b>Michigan</b>	25	0	25



<b>State</b>	<b>Total</b>	<b>Consumer</b>	<b>Business / Govt</b>
<b>Missouri</b>	63	0	63
<b>Nebraska</b>	932	0	932
<b>Nevada</b>	436	0	436
<b>New York</b>	4	0	4
<b>Ohio</b>	67	0	67
<b>Oklahoma</b>	580	0	580
<b>Oregon</b>	48	0	48
<b>Pennsylvania</b>	48	0	48
<b>Rhode Island</b>	88	0	88

<b>State</b>	<b>Total</b>	<b>Consumer</b>	<b>Business / Govt</b>
<b>South Carolina</b>	4	0	4
<b>South Dakota</b>	4	0	4
<b>Tennessee</b>	164	0	164
<b>Texas</b>	449	0	449
<b>Utah</b>	76	0	76
<b>Virginia</b>	2543	0	2543
<b>Washington</b>	18	0	18
<b>West Virginia</b>	13	0	13
<b>Total</b>	<b>17189</b>	<b>0</b>	<b>17189</b>

All other VoIP Subscriptions by State, End-user Type, Bundle and Last-mile Medium

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Alabama	0	0	0	0	0	0	0	0	0
Arizona	565991	349060	216931	467903	98088	14623	551368	0	0
Arkansas	53632	24761	28871	43310	10322	470	53162	0	0
California	486798	298496	188302	391248	95550	26363	460435	0	0
Colorado	0	0	0	0	0	0	0	0	0
Connecticut	78164	55644	22520	67847	10317	335	77829	0	0
Florida	101622	56974	44648	86630	14992	1735	99887	0	0
Georgia	36752	21683	15069	32070	4682	669	36083	0	0



State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Massachusetts	10	0	10	0	10	10	0	0	0
Michigan	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0	0	0
Nebraska	124166	65921	58245	93463	30703	1811	122355	0	0
Nevada	270479	171771	98708	233004	37475	7417	263062	0	0
New York	0	0	0	0	0	0	0	0	0
Ohio	23360	16998	6362	20456	2904	34	23326	0	0
Oklahoma	266617	127983	138634	202034	64583	11790	254827	0	0



State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Virginia	373372	190655	182717	276004	97368	4354	369018	0	0
Washington	0	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2907886</b>	<b>1668923</b>	<b>1238963</b>	<b>2330578</b>	<b>577308</b>	<b>72369</b>	<b>2835517</b>	<b>0</b>	<b>0</b>

## **Project Description and Need (85 points)**

1. Describe why and how the project area(s) was selected. Describe the proposed geographic area including specific boundaries of the project area (e.g. street names, local and regional boundaries, etc.). Attach a copy of the map of your project area(s). **Label map: Attachment 1 – Project Area Map.**

### **James City County**

Project areas were selected through historical requests to Cox Communications for service where last mile costs exceeded the maximum linear distance to current service infrastructure. Some cases involve last mile distance of private property to homes and others are high installation costs to user density issues. All areas are in the western portion of James City County in primarily rural settings.

#### **Project Sites (Project Area Map – Page 1)**

This overview map will show the northern most portion of James City County. Each labeled location is described below and references a page in the map PDF file.

#### **Arlington Island Road (Project Area Map – Pages 2 & 3)**

During the late summer and fall of 2020 State CARES Act funding was approved to extend internet service to homes at 723 and 821 Arlington Island Road. This provided remote learning and passings to adjacent properties. Extending service to the end of Arlington Island Road and Forest Lake Road would complete the buildout in this are working toward universal coverage.

#### **Fire Tower Road (Project Area Map – Pages 4 & 5)**

Last mile connection to properties at 10070 and 10102 Fire Tower Road. Each property is beyond the standard no charge installation distance for service. These installations move the county closer to universal coverage.

#### **Forge Road (Project Area Map – Pages 6, 7 & 8)**

Last mile connection to the properties located at 2016 and 2526 Forge Road. The properties are beyond the standard no charge installation distance for service. These installations move the county closer to universal coverage.

#### **Hicks Island Road (Project Area Map – Pages 9 & 10)**

Last mile connection to the property located at 8821 Hicks Island Road. The property is beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

#### **Jolly Pond Road (Project Area Map – Pages 11 & 12)**

Last mile connection to the property located at 2050 Jolly Pond Road. The property is beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

#### **Menzels Road (Project Area Map – Pages 13, 14, & 15)**



Last mile connection to the properties located at 6510, 6520, 6550 & 6575 Menzels Road. The properties are beyond the standard no charge installation distance for service and carry with them 9 passings. This installation moves the county closer to universal coverage.

**Mount Laurel Road and Ware Creek Road (Project Area Map – Pages 16, 17 & 18)**

Last mile connection to the properties located at 4100 & 4110 Mount Laurel Road and 4316 Ware Creek Road. The properties are beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

**Richmond Road (Project Area Map – Pages 19 & 20)**

Last mile connection to the property located at 8804 Richmond Road. The property is beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

**Riverview Plantation Drive and Greenway Circle (Project Area Map – Pages 21, 22 & 23)**

Last mile connection to the properties located at 100 Riverview Plantation Drive and 109 Greenway Circle. The properties are beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

**Riverview Road (Project Area Map – Pages 24 & 25)**

Last mile connection to the property located at 5198 Riverview Road. The property is beyond the standard no charge installation distance for service. This installation moves the county closer to universal coverage.

2. List existing providers in the proposed project area and the speeds offered. Please do not include satellite. Describe your outreach efforts to identify existing providers and how this information was compiled with source(s).

**James City County**

Terrestrial based providers in the project areas are identified by the Federal Communications Commission [Fixed Broadband Deployment](#) website. Accuracy of this data source is questionable at best as it will accept addresses that do not exist in our local mapping system. Verification of data was not possible for Verizon as representatives would not return our calls and the service request website could not verify service level availability. Cox Communication provided verified service levels available after infrastructure installation.

<b><u>Project Area</u></b>	<b><u>Cox Communications</u></b>	<b><u>Verizon DSL</u></b>	<b><u>Verizon Fiber</u></b>
Arlington Island Road and Forest Lake Road	940/35	3/.768	
Fire Tower Road	940/35	15/1	
Forge Road	940/35	5/.768	
Hicks Island Road	940/35		
Jolly Pond Road	940/35	5/.768	
Little Creek Dam Road and Menzels Road	940/35	5/.768	
Mount Laurel Road and Ware Creek Road	940/35	3/.768	

Richmond Road	940/35	5/.768
Riverview Plantation Drive and Greenway Circle	940/35	3/.768
Riverview Road	940/35	5/.768

Data Source - FCC Fixed Broadband Deployment Maps

3. Describe if any areas near the project have received funding from federal grant programs, including but not limited to Connect America Funds II (CAF II), ACAM, ReConnect, Community Connect, and Rural Digital Opportunity Funds (RDOF). If there have been federal funds awarded near the project area(s), provide a map showing these areas, verifying the proposed project area does not conflict with these areas. **Label Map: Attachment 2 – Documentation on Federal Funding Area.**

**James City County**

The property at 8821 Hick’s Island Road is near an RDOF area. Cox communication our partner in this application is the holder of this RDOF area. All other properties look to be clear of RDOF areas.

4. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF), excluding those awarded to satellite internet service providers, are included in the VATI application area. If RDOF areas awarded to terrestrial internet service providers are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. **Label Attachment: Attachment 3 – RDOF Awarded Areas Form in VATI Area**

**James City County**

The property at 8821 Hick’s Island Road is near an RDOF area. Cox communication our partner in this application is the holder of this RDOF area. There is a single passing and this falls in census block number 803.01. See Attachment 3 – RDOF Awarded Areas Form in VATI Area.

5. Overlap: To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is **unserved**. An unserved area is defined as an area with speeds below 25/3 mbps and with less than 25% service overlap within the project area for wireless projects and 10% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. **Label Attachment: Attachment 4 – Documentation Unserved Area VATI Criteria.**

**James City County**

Terrestrial based providers in the project areas are identified by the Federal Communications Commission Fixed Broadband Deployment website. Accuracy of this data source is questionable at best as it will accept address that do not exist in our local mapping system. Verification of data was not possible for Verizon as representatives would not return our calls and the service request website could not verify service level availability. Cox Communication provided verified service levels available after infrastructure installation.

6. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 10 Megabits per second download and 1 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. **Label Attachment: Attachment 5 – Passings Form.** a. Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area. (Up to 10 points for businesses and community anchor institutions) b. If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area. c. If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise. Describe the methodology used for these projections d. If applicable, provide the number of passings included in the application that will receive broadband access because **special construction costs** have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application. e. Provide the number of passings in the project area that have 10/1 mbps or less. Describe the methodology used for these projections. (up to 15 points)

#### **James City County**

See Attachment 5 – Passings Form

#### **COX**

**\*\*in localities where Dominion is the energy provider\*\*** (to support “special construction costs/considerations” part of this question)

Dominion Power is actively working on a strategic undergrounding project in the region. This project could potentially impact how our engineers design network expansion plans, which in turn could alter our costs significantly. If Cox needs to attach to utility poles owned by Dominion (for aerial construction) but Dominion has decided to underground lines in an area where we’re looking to expand, our build plans could be impacted; instead of being able to attach to a pole that has since been removed, we will need to plan an underground build which significantly alters the cost of the project. Since the Dominion project is ongoing, determination of aerial or underground could change over the course of the VATI judging and award process; these changes will not be known until a full walk-out of the project is complete, which will not take place until the project funding is awarded and there is an agreement in place to move forward with the project build.

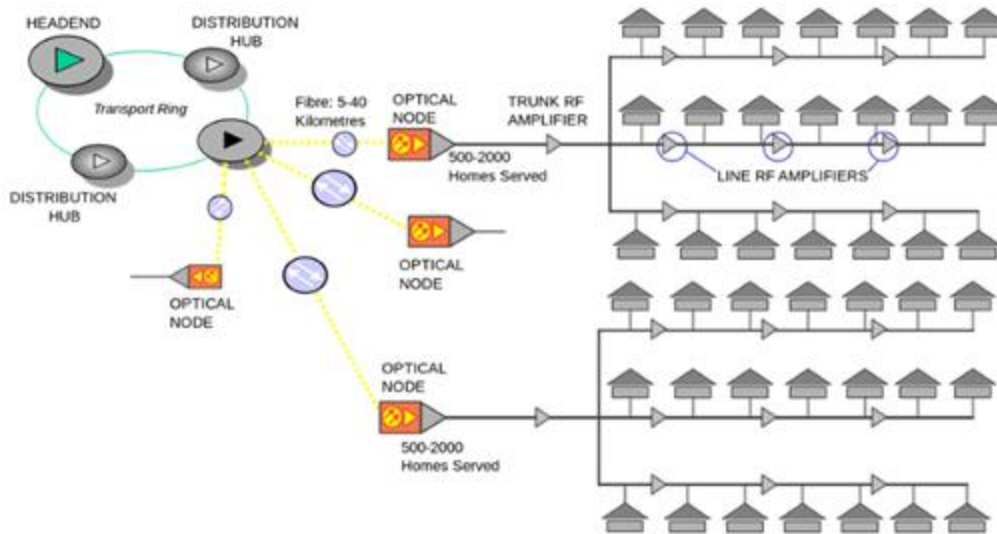
7. For wireless projects only: Please explain the ownership of the proposed wireless infrastructure. Please describe if the private co-applicant will own or lease the radio mast, tower, or other vertical structure onto which the wireless infrastructure will be installed. **NOT APPLICABLE**

8. Speeds: Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. List the private co-applicant’s tiered price structure for all

speed offerings in the proposed project area, including the lowest tiered speed offering at or above 25/3 mbps. (up to 10 points)

The proposed project and construction will be incorporated into the existing hybrid fiber-coax (HFC) network owned and operated by Cox Communications; it will be capable of providing residential and home-based business customers with download speeds of up to 940 Mbps and upload speeds of up to 35 Mbps through the Docsis 3.1 platform.

### Example Hybrid Fiber-Coax Network Configuration



Cox provides internet speeds ranging from 25Mbps/1Mbps to up to 940 Mbps/35Mbps. Cox continues to offer a 25Mbps/1Mbps service tier as a low-cost option, ideal for up to three devices and light web surfing, email, and social networking; this is an economical solution for customers who don't want to pay for higher speeds they don't need and won't use.

All Cox internet plans come with access to more than three million WiFi hotspots nationwide.

(\*\*if the build passes businesses that are unserved...) The build will also allow our commercial services team, Cox Business, to extend their services to any unserved businesses along the network expansion route, giving them access to the suite of business services available, including broadband speeds up to 100 gbps.

**Residential pricing structure:**

Package	Speed (up to)	Rack Rate (monthly)	New Customer Promo (monthly, 12 mo. term)
Connect2Compete*	50/3 Mbps	\$9.95	\$9.95

Straight Up Internet	25/3 Mbps	\$50.00	\$50.00
Cox Internet Starter	25/3 Mbps	\$44.99	\$29.99
Cox Internet Essential	50/3 Mbps	\$65.99	\$39.99
Cox Internet Preferred	150/10 Mbps	\$83.99	\$59.99
Cox Internet Ultimate	500/10 Mbps	\$99.99	\$79.99
Cox Internet Gigablast	940/35Mbps	\$119.99	\$99.99

\*for qualifying families

Prices include monthly charges and applicable discounts. Promotional pricing may differ depending on the customer's decision to bundle services and expiration of/changes to promotional pricing. One-time charges, activation fees and monthly equipment fees may apply.

## Business/Commercial Internet Pricing Structure:

Business Internet 100	Business Internet 200	Business Internet 300	Business Internet 500	Business Internet 940
\$59 <sup>00</sup> /mo. with 12 month agreement <a href="#">Offer Details &amp; Terms</a>	\$89 <sup>00</sup> /mo. with 12 month agreement <a href="#">Offer Details &amp; Terms</a>	\$109 <sup>00</sup> /mo. with 12 month agreement <a href="#">Offer Details &amp; Terms</a>	\$139 <sup>00</sup> /mo. with 12 month agreement <a href="#">Offer Details &amp; Terms</a>	\$219 <sup>00</sup> /mo. with 12 month agreement <a href="#">Offer Details &amp; Terms</a>
<a href="#">Add to Cart to Customize</a>	<a href="#">Add to Cart to Customize</a>	<a href="#">Add to Cart to Customize</a>	<a href="#">Add to Cart to Customize</a>	<a href="#">Add to Cart to Customize</a>
<b>Internet</b> <ul style="list-style-type: none"> <li>Up to 100 Mbps Download</li> <li>Up to 20 Mbps Upload</li> <li>25 Security Suite Licenses</li> </ul>	<b>Internet</b> <ul style="list-style-type: none"> <li>Up to 200 Mbps Download</li> <li>Up to 20 Mbps Upload</li> <li>25 Security Suite Licenses</li> </ul>	<b>Internet</b> <ul style="list-style-type: none"> <li>Up to 300 Mbps Download</li> <li>Up to 30 Mbps Upload</li> <li>25 Security Suite Licenses</li> </ul>	<b>Internet</b> <ul style="list-style-type: none"> <li>Up to 500 Mbps Download</li> <li>Up to 35 Mbps Upload</li> <li>25 Security Suite Licenses</li> </ul>	<b>Internet</b> <ul style="list-style-type: none"> <li>Up to 940 Mbps Download</li> <li>Up to 35 Mbps Upload</li> <li>25 Security Suite Licenses</li> </ul>
<b>Ideal for:</b> <ul style="list-style-type: none"> <li>up to 10 users at once</li> <li>small, single-office daily tasks</li> <li>point-of-sale systems</li> </ul>	<b>Ideal for:</b> <ul style="list-style-type: none"> <li>up to 20 users at once</li> <li>video conferencing &amp; VoIP security systems</li> <li>file transfer &amp; backup</li> </ul>	<b>Ideal for:</b> <ul style="list-style-type: none"> <li>up to 30 users at once</li> <li>VoIP/other remote work collaboration</li> <li>remote working features</li> </ul>	<b>Ideal for:</b> <ul style="list-style-type: none"> <li>up to 30 users at once</li> <li>video conferencing &amp; VoIP security systems</li> <li>file transfer &amp; backup</li> </ul>	<b>Ideal for:</b> <ul style="list-style-type: none"> <li>up to 30 users at once</li> <li>high-end remote equipment</li> <li>videoconferencing &amp; file conferencing</li> </ul>
<b>BONUS OFFER</b> Get a \$100 VISA Prepaid Card after online redemption*.	<b>BONUS OFFER</b> Get a \$100 VISA Prepaid Card after online redemption*.	<b>BONUS OFFER</b> Get a \$100 VISA Prepaid Card after online redemption*.	<b>BONUS OFFER</b> Get a \$100 VISA Prepaid Card after online redemption*.	<b>BONUS OFFER</b> Get a \$100 VISA Prepaid Card after online redemption*.

\* For Cox Business Internet 100 and 200 levels, there is also a month-to-month option; this option increases the cost by \$15 per month.

Cox Business also offers customized enterprise internet solutions, dedicated fiber, HFC internet, and managed WiFi solutions to meet individual needs of businesses. With symmetrical speeds of up to 10+ Gbps, there are solutions to support any size business. In response to the increase of residents shifting to a work-from-home model, Cox Business launched an enterprise-grade work-at-home connectivity solution which would be available to residents benefiting from this last mile extension. This is a separate internet connection that would go directly to the employee's home and will have the capability to provide remote staff with company-provided services, including broadband, WiFi, McAfee endpoint security and MalBlock to help ensure staff members have the same options for connectivity they would have if they were working in the office.

9. Network Design: Provide a description of the network system design used to deliver broadband service from the network's primary internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Provide a detailed explanation of how this information was determined with sources. Provide information on how capacity for scalability, or expansion, of how the network can adapt to future needs. If using a technology with shared bandwidth, describe how the equipment will handle capacity during peak intervals. For wireless projects, provide a propagation map for the proposed project area with a clearly defined legend for scale of map. **Label Map: Attachment 6 – Propagation Map Wireless Project. (MAP NOT APPLICABLE)**

COX

Cox's highly redundant and resilient network is managed around the clock by a full staff of nationwide network professionals that can holistically monitor and manage the Cox network both physically from network operations centers and 100 percent virtually, if needed. Their forward-thinking network management and service assurance philosophy means they have software-enabled and virtualized significant portions of their network to proactively and reactively solve any temporary customer and network issues in a timely and efficient manner.

Cox operates a high-speed, national fiber optic backbone comprised of tens of thousands of fiber miles. The backbone is self-healing through strategic deployment of core infrastructure components. Multiple diverse connections help ensure backbone locations are not isolated in the event of an outage and that they maintain ample capacity to handle peak traffic periods. Their experience includes keeping customers online and connected during wildfires, mudslides, severe weather events and numerous other natural disasters.

Through the video franchise with James City County, Cox Communications has built and maintained a hybrid fiber-coax (HFC) network in the county for decades for distribution of the company's services (voice, video, data, security, business services) to its subscribers. The technology connects our subscribers to one of the company's 21 critical facilities located in Virginia. These critical facilities contain the company's core network hardware and connections to the internet and public switched telephone network. All network hardware and network connections in our critical facilities have at least two layers of redundancy.

Hybrid fiber coaxial (HFC) networks send signals from the Cox's critical facilities to the communities we service through fiber optic cables. At the local community, a box called an optical node translates the signal from a light beam to radio frequency (RF) and sends it over coaxial cable lines for distribution to our residential and business subscribers. The fiberoptic backbone feeding the communities we service provide adequate bandwidth to allow for timely future expansion and new bandwidth-intensive services.

Cox trains and employs engineers and technicians to ensure we maintain a 99.999% network reliability. Again, the network and hub site are monitored both locally and nationally 24 hours a day and 365 days a year.

The company constantly monitors its network and upgrades accordingly in order to meet subscriber demand. Typical surges in broadband traffic occur in the evenings, on weekends and on holidays. In light of the recent COVID crisis and the number of individuals working from home and students connecting virtually for their education, Cox implemented their processes for peak use to respond appropriately to meet the demand from this shift in usage. They've also successfully virtualized their network operations by executing long-term business continuity strategies, implementing new leading-edge collaboration and predictive analytic tools, providing full functionality mobile workstations and equipping their network operations teams with robust tools to work remotely.

10. Explain how the proposed project achieves universal broadband coverage for the locality or fits into a larger plan to achieve universal broadband coverage for the locality. If applicable, explain the remaining areas of need in the locality and a brief description of the plan to achieve universal broadband coverage. (up to 50 points)

### **James City County**

James City County is seeking to achieve Universal Broadband Service by partnering with Cox Communication and focusing on the last few citizens lacking service. Currently Cox Communication is the largest broadband provider in James City County. Customers seeking broadband connections in the western rural areas of the county have contacted Cox for service only to be faced with special construction costs for last-mile construction. Cox Communication deems their customer information proprietary, and the County relies on their request information to show progress toward universal broadband status. The County expects that future requests would fall into the category of special construction costs. The county would look to partner with Cox Communication in the future to fill in the remaining gaps.

### **Project Readiness (40 points)**

11. Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants must include Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). **Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant;** (up to 20 points)

### **COX**

The plan demonstrates a commitment to reach the 2022 completion date with a steady and phased-in process to include: creating project account, performing field survey for construction, completing Dominion Power pole application process, designing project, securing VDOT permits and private property easements, ordering project materials, setting power supply units, performing aerial and underground construction, activating the network, and releasing the addresses. Cox Communications personnel overseeing the planning and construction phases have thoroughly reviewed the project management plan and timeline to confirm that all resources are available to complete the project by the required time frame.

12. Has the applicant or co-applicant received any VATI grants? If so, provide a list of these grants, with a detailed summary of the status of each.

### **COX**



Cox is familiar with the VATI grant process, having worked with localities for each VATI grant cycle since the inception of the program.

Cox was part of one of the first VATI awards made in 2016, successfully partnering with Gloucester County to bring last mile broadband service to more than 100 homes and businesses in a previously unserved area of the County.

Cox is currently in the planning phase of a 2021-awarded VATI grant project in Chesapeake; we are on track to have customers connected within the 12-month deadline for project completion.

Task	Responsible Person	Entity	Estimated Time Line										% Complete
			April	May	June	July	Aug	Sep	Oct	Nov	Dec	update monthly	
Meet all stakeholders & discuss next steps	Cox Project Sponsor	Cox & City of Ches	█										100%
Perform field survey for ug-aerial constr.	Cox Planner- Leader	Cox		█									100%
Create project account & set up workflow	Cox Project Planner	Cox			█								100%
Secure private property easements	Cox Project Planner	Cox-Home owners				█	█						75%
Dominion Energy pole application process	Cox Project Planner	Cox & DVP				█	█						75%
Dominion Energy make-ready construction	Dominion Energy	Dominion Energy				█	█	█					25%
Design the project	Cox Corporate Team	Cox				█	█						100%
Secure City permits	Cox Project Planner	Cox & City of Ches				█	█	█					50%
Order & Receive project material	Cox Project Planner	Cox				█	█						25%
Perform aerial construction	Cox Project Planner	Cox						█	█	█			0%
Perform underground construction	Cox Project Planner	Cox						█	█	█			0%
Splice-Activate-Test the network	Cox Project Planner	Cox								█	█		0%
Release the addresses for service	Cox Project Planner	Cox									█		0%
Submit documents for payment	Cox Project Sponsor	Cox & City of Ches										█	0%

13. Matching funds: Complete the funding sources table indicating the cash match and in-kind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum 20% match is required to be eligible for VATI, the private sector provider must provide 10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. Label Attachments: **Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding;**

**COX**

**James City County**

See Attachment 9 – Funding Sources Table

14. Leverage: Describe any leverage being provided by the applicant, co-applicant, and partner(s) in support of the proposed project. (up to 10 points)

**James City County**

The County would provide any services our departments can render towards the goal of universal broadband status. Our Community Development department can assist with any local environmental or construction permitting necessary to complete construction.

15. Marketing: Describe the broadband adoption plan. a. Explain how you plan to promote customer take rate, including marketing activities, outreach plan, and other actions to reach the identified serviceable units within the project area. Provide the anticipated take rate and describe the basis for the estimate. (up to 10 points) b. Describe any digital literacy efforts to ensure residents and businesses in the proposed project area sufficiently utilize broadband. Please list any partnering organizations for digital literacy, such as the local library or cooperative extension office.

## **COX**

Cox has been serving James City County for more than several decades, with local employees servicing homes and businesses throughout the region. The Cox brand is well-recognized as a local technology leader and a company that is committed to the communities it serves.

Cox actively promotes its products and services in James City County through a multi-faceted, multi-million-dollar marketing campaign that includes both direct and indirect sales, outdoor billboards, digital advertising, social media presence, and television commercials.

This build will benefit from all national and local advertising investments by Cox Communications.

In addition to traditional marketing, Cox is also a strong supporter of local business and nonprofits through sponsorships at large venues and events that attract attendees from all across the region; these relationships are negotiated annually and have included the Virginia Beach Amphitheater, ODU Football, Virginia Tech Football, the Patriotic Festival and Something in the Water.

On September 8, 2021, Cox announced a collaboration with Malcolm Mitchell, Super Bowl champion and *Share the Magic Foundation* founder, to narrow the learning gap in diverse, low-income neighborhoods through its Connect2Comepte program. The new partnership builds upon Cox Communications' continued commitment to ensuring low-income, K-12 students are positioned for the future through technology. Cox also partners with Boys & Girls Clubs of America, where the company has provided Innovation Labs as a place for kids and teens to access the internet and grow digital literacy skills after school.

Cox has several resources for families and businesses in support of digital literacy and maximizing broadband capabilities, addressing the ongoing needs throughout the pandemic. In addition to being an early signee of the FCC's Keep America Connected pledge at the onset of the pandemic in 2020, several digital equity efforts by Cox have recently been put into place:

Cox [announced its participation in the FCC's Emergency Connectivity Fund](#) to deliver internet services to students, educational staff and library patrons who would otherwise lack a sufficient connection to the internet for remote learning and remote library services. For more information on the FCC's ECF program, visit [cox.com/ecf](https://www.cox.com/ecf).

Cox is a participant in the FCC's [Emergency Broadband Benefit](#) program which provides temporary financial assistance for internet service. Eligible families may qualify to receive up to \$50 off their

monthly bill based on their current internet service and equipment rental, or up to \$75 if they live in a tribal area. Cox Connect2Compete customers are eligible for this benefit. For more information on the FCC's EBB program, visit [cox.com/ebb](http://cox.com/ebb).

[Cox announced that the temporary connection speed increase for Connect2Compete](#), prompted by the COVID-19 pandemic, would become the new standard speed for Connect2Compete internet service. The connection speed was bolstered from 25 Mbps to 50 Mbps. Last year, Cox suspended late fees and extended payment relief offerings for customers in the Connect2Compete program who expressed an inability to pay due to pandemic hardships.

[The Digital Academy](#) is the digital literacy arm of Cox's Connect2Compete program designed to connect families, educators, community leaders and students with free access to tips, educational videos and tutorials to ensure safe and effective online behavior. This platform is continuously updated with fresh and relevant information.

Cox [added the MyFuture platform](#) from the Boys and Girls Clubs of America recently to the Digital Academy. My Future empowers kids and teens to learn new skills, share accomplishments and earn recognition via gamification in a safe and fun online environment.

Cox also has a [YouTube page](#) with product how-to videos supporting digital literacy, troubleshooting and teaching users how to get the most out of their services. Cox also employs a technical support care team available 24/7 to help customers navigate their Cox technology in their homes.

For business customers, CoxBlue.com provides endless resources for small and medium sized businesses – everything from blog posts on small business trends to how to reopen your business after a shutdown.

James City County works closely with Williamsburg James City County Schools to assist with the broadband needs of students. Evidence of this was the joint identification of students needing broadband service during the COVID-19 pandemic. State CARES funding was used in 2020 to provide remote learning for students in need. The County currently promotes through social media posts federally funded discounts to service rates for students in need. The Williamsburg Regional Library also promotes broadband services and potential solutions for the disadvantaged and elderly in the community.

16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co-applicant's history and experience with managing grants and constructing broadband communication facilities. Please attach any letters of support from stakeholders. If the applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality. **Attachment 11 – Letters of Support.**

### **James City County**

James City County Project Manager: Patrick Page, Director of Information Resources Management.

Responsible for providing oversight for cable franchise with Cox Communications, public video production and distribution via cable service and streaming. Management of joint County and Schools fiber optic network in support of school and county communication and computing needs.

## **COX**

Cox Communications Project Manager: Mark Cosby, Planning & Construction Manager  
Cox Communications Government/JCC Liaison: Sarah Buck, Public Affairs Sr. Manager

James City County is working with Cox Communications, a privately-held, nationally recognized provider of broadband, digital cable television and other telecommunications services. With 125,000 miles of network infrastructure nationwide, Cox Communications is the third largest telecommunications corporation in the United States, serving more than 6 million homes and businesses. Our culture values customer satisfaction, diversity, environmental responsibility, and employee well-being. Our employees are positive ambassadors for Cox; they share our natural commitment to the customer experience. Cox also takes great pride in utilizing SWaM subcontractors where possible to complete construction projects. We maintain our own Supplier Diversity Program to make a good faith effort to utilize small, women- and/or minority-owned business subcontractors and suppliers. Furthermore, our engineering, construction, and planning leaders bring decades of experience to the project team, ensuring the most effective and economic service delivery for this broadband expansion project.

Cox and James City County entered into their first cable television franchise agreement several decades ago. Since that time the city and Cox have experienced a collaborative and mutually beneficial working relationship.

Cox Communications provides broadband connectivity to James City County through its fiber-based network. However, there are homes in the more rural area of the county that still lack connectivity because of the proximity of the home to Cox's existing network. This grant opportunity presents a viable means and solution to expand services where it would otherwise be financially unfeasible for both Cox and the homeowner.

Cox is familiar with the VATI grant process, being part of one of the first VATI awards made in 2016. Cox successfully partnered with Gloucester County to bring last mile service to more than 100 homes and businesses in a previously unserved area of the County.

Additionally, Cox partnered James City County and several other localities including New Kent County, Stafford County, and Roanoke County to identify and complete broadband expansion projects using funds allocated from the CARES Act in 2020/2021.

### **Project Budget and Cost Appropriateness (135 points)**

17. Budget: Applicants must provide a detailed budget that outlines how the grant funds will be utilized, including an itemization of equipment, construction costs, and a justification of proposed expenses. If designating more than one service area in a single application, each service area must have delineated

budget information. For wireless projects, please include delineated budget information by each tower. Expenses should be substantiated by clear cost estimates. Include copies of vendor quotes or documented cost estimates supporting the proposed budget. **Label Attachments: Attachment 12 – Derivation of Costs; Attachment 13 - Documentation of Supporting Cost Estimates.** (up to 10 points)

**COX**

See Attachment 13 – Documentation of Supporting Cost Estimates

18. The cost benefit index comprises state cost per unit passed. Individual cost benefit scores are calculated and averaged together to create a point scale for a composite score. Provide the following: a. Total VATI funding request b. Number of serviceable units i. (up to 125 points)

**COX**

James City County and Cox Communication are asking VATI for \$525,622 with a cost per home to the state of \$15,017. The total project cost per passing is \$18,857

A majority of these homes are situated down long driveways which requires additional equipment to extend the network appropriately. As farmland or large lots are parceled off or sold to developers, the neighborhoods may meet a density requirement, the expense to extend the network to reach the neighborhood could presents financial barrier. Unless the builder is willing to absorb the cost of the network extension, the burden therein lies with the homeowner. Receiving funds to complete these builds will not only provide service for these 26 homes and 9 lots that are currently under construction but will set us up for success as more builders choose JCC to build new neighborhoods and land becomes available. Connecting these 26 homes and wiring the 9 new lots in the County will ensure universal coverage for James City County.

**Commonwealth Priorities (40 points)**

19. Additional points will be awarded to proposed projects that reflect Commonwealth priorities. If applicable, describe the following: a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband. b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies. c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 25/3 mbps.

**COX**

Cox has hundreds of miles of fiber throughout the Hampton Roads region, including James City County. With the exception of the homes we're focusing on in this grant application, any resident in James City County can access the Cox network for broadband service. The homes in this application are currently not able to access Cox service because of the proximity of their home to the existing Cox network, with cost to connectivity being the dominant barrier.

**Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 25/3 mbps:**

The Cox Connect2Compete program launched in Virginia in 2013. To date, more than 10,000 families in Virginia are benefiting from the program by having access to an in-home 50/3 mbps broadband connection. Families with a student in k-12 that participate in government assistance programs like Head Start, NSLP, WIC, LIHEAP, SNAP, TANF or who live in government housing qualify for this service option. We have tremendous local partners in this effort including school systems, libraries, youth-focused nonprofits, and social services organizations.

In addition to Connect2Compete, Cox offers a variety of options for connectivity including a pay-as-you-go option called Straight Up internet which is 25/3 mbps in-home internet with wifi for \$50 per month. This option does not require a contract, credit check or deposit. A modem and all fees are included in the \$50 per month pricing.

Cox is also a participating provider in the Emergency Broadband Benefit program as it aligns with our long-standing commitment to narrowing the digital divide. We raised our hand without hesitation to help administer the government's program and deliver whatever financial relief is available – for however long – in order to help our customers during this challenging time. Additionally, Cox is working with local schools and libraries to help provide internet service through the FCC's Emergency Connectivity Fund (ECF) program. Cox's ECF offering will equip customers with internet service with speeds of 50/3 mbps and a wifi modem. Again, we immediately raised our hand to participate in this federal program to help connect families afford an in-home connection.

In response to the COVID crisis in early 2020, Cox put several programs in place to help support residential and business customers respond to the pandemic and its uncertainty. Plans included offering a low-income internet tier with no annual contract and offering two months of free internet to new Connect2Compete customers. Cox was also able to set up a program to help third-party organizations (i.e., localities, non-profits) and businesses help pay for connectivity for families or employees in response to the pandemic.