

# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

**Application ID:** 59811062018170629  
**Application Status:** In Progress - DHCD  
**Program Name:** Virginia Telecommunications Initiative 2019  
**Organization Name:** City of Chesapeake  
**Organization Address:** 301 Albemarle Drive  
Chesapeake, VA 23322  
**Profile Manager Name:** Mary Riley  
**Profile Manager Phone:** (757) 382-2000  
**Profile Manager Email:** mriley@CityofChesapeake.net

**Project Name:** Under/Unserved Chesapeake Residents 2019  
**Project Contact Name:** Chuck Williams  
**Project Contact Phone:** (757) 382-8796  
**Project Contact Email:** cmwilliams@cityofchesapeake.net  
**Project Location:** 300 Shea Dr  
Chesapeake, VA 23322-5565  
**Project Service Area:** Chesapeake City

**Total Requested Amount:** \$433,839.00

**Required Annual Audit Status:** No Current Audits Found

# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

## Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
<b>Telecommunications</b>	<b>\$433,839.00</b>	<b>\$116,727.00</b>	<b>\$550,566.00</b>
Construction	\$417,665.00	\$104,416.00	\$522,081.00
Construction Related Soft Costs	\$9,059.00	\$2,265.00	\$11,324.00
Other: System Power units	\$7,115.00	\$1,779.00	\$8,894.00
Other: City Project Management	\$0.00	\$7,829.00	\$7,829.00
Other: ROW in-kind	\$0.00	\$150.00	\$150.00
Other: Pilot Online in-kind	\$0.00	\$288.00	\$288.00
<b>Total:</b>	<b>\$433,839.00</b>	<b>\$116,727.00</b>	<b>\$550,566.00</b>

### Budget Narrative:

The total estimated costs are included above minus in-kind right of way, advertising fees, and project management offered by the City of Chesapeake.

## Questions and Responses:

### 1. Project Area

Provide a map and description of the proposed geographic area including specific boundaries of the project area e.g.; street names, local and regional boundaries, etc. Explain why and how the project area(s) was selected. Attach a copy of your map(s).

### Answer:

The specific unserved area selected Beaver Dam and Sanderson Roads is an unserved residential area in the rural southern portion of Chesapeake. The proposed project will provide 300/30mbps high-speed broadband availability to 113 homes and 10 ready-to-be-developed home sites. DSL/LTE services sporadically available in parts of this area lack reliability, consistency and speed/strength to be effective, especially for home-based businesses and telecommuting.

The area was selected based on significant need due to sporadic telephone service outages, repeated requests for service extensions, and difficulty in receiving wireless service due to interference from equipment utilized at Fentress Airfield, the Navy's nearby Outlying Landing Field (OLF).

### 2.

Describe your outreach efforts to identify existing providers in the selected project area. Provide a map and list of all existing providers (fixed and wireless), and speeds offered within the project area. Provide a detailed explanation of how this information was compiled and the source(s).

# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

**Answer:**

The City of Chesapeake is not aware of any franchised providers who offer broadband service in this area and receive numerous complaints annually from citizens in this rural section of Chesapeake asking that the City either supply service or force providers to do so. Due to FCC regulations and City fiscal constraints the City is prohibited from offering services to these residents. Unfortunately, due to the lack of population density and vast stretches of land it also proves to be cost prohibitive to the providers to offer services.

Additionally, Cox Communications would provide substantially and consistently higher quality broadband coverage and faster service of up to 300/30mbps, not available through any other provider.

Center for Innovative Technology and Virginia Tech offer a tool box to see coverage throughout Virginia for this specific area refer to the attached document CurrentCoverageForBeaverDamAndSanderson . Maps can be reviewed at <https://broadband.cgit.vt.edu/IntegratedToolbox/>

### 3. Project Need/Description

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 of 10 Mbps/1 Mbps or less, and with less than 10% service overlap within the project area. Describe the anticipated service overlap with current providers within the project area.

**Answer:**

Based on a review of the Virginia Broadband Availability Map developed by CIT and Virginia Tech, there are no fiber or fixed wireless service providers offering service in the proposed project area. Cox is the only provider in the area and the two areas in question are not currently covered by Cox broadband service.

See attached file: CurrentCoverageForBeaverDamAndSanderson maps can be reviewed at <https://broadband.cgit.vt.edu/IntegratedToolbox/>

### 4. Describe population both in terms of absolute numbers within the project area and the eligible users that will be served by the proposed project. Describe the basis for these projections.

**Answer:**

The proposed network will pass 113 homes and 10 ready-to-be-developed residential lots in a currently unserved area of Chesapeake. This area also includes twelve (12) licensed home businesses.

The proposed project will also be of benefit for adult learners, telecommuting, and/or home-based businesses, which currently are not possible due to inferior internet connectivity.

# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

5. Indicate the numbers of businesses and community anchor institutions the proposed project will pass in the project area.

**Answer:**

The number of home businesses licensed in the proposed new service area is twelve (12). The proposed project will be of great benefit for home-based businesses, which currently have limited options and inferior internet connectivity.

6. Provide the anticipated take rate for the proposed service within one year of project completion and describe the basis for the estimate. Also provide all actions to be implemented to reach the identified potential customers within the project area.

**Answer:**

The proposed network will pass 113 homes as well as 10 ready-to-be-developed residential lots. It is anticipated that the expected subscriber/user numbers will be nearly 100% based on individual citizen complaints, City Hall meetings, town hall meetings in the area, and Chesapeake Small Farmers Coalition meetings about the current lack of high speed internet access in the area. Cox offers several low-cost promotional offers to new residential customers and also offers discounted internet (\$9.95) through the Connect2Compete program for qualifying families with a student (K-12) receiving free or reduced lunch through the National School Lunch Program.

Citizens have had their hopes dashed several times and most recently with WildFire5G and Microsoft promises. Unfortunately, this system never was implemented and the City has not heard from the WildFire5G team in over six months despite numerous attempts to contact them.

[https://pilotonline.com/news/local/science/technology/is-a-month-for-wireless-internet-possible-in-rural-areas/article\\_54753e26-0f22-5df9-b463-63204e5abc45.htm](https://pilotonline.com/news/local/science/technology/is-a-month-for-wireless-internet-possible-in-rural-areas/article_54753e26-0f22-5df9-b463-63204e5abc45.htm)

Previous articles show citizens desire to get broadband access. Article: In rural parts of Chesapeake, broadband internet access is limited. Residents want help overcoming the "digital divide"

[https://pilotonline.com/news/local/science/technology/is-a-month-for-wireless-internet-possible-in-rural-areas/article\\_54753e26-0f22-5df9-b463-63204e5abc45.htm](https://pilotonline.com/news/local/science/technology/is-a-month-for-wireless-internet-possible-in-rural-areas/article_54753e26-0f22-5df9-b463-63204e5abc45.htm)

7. A statement whether the proposed project is targeting the "last mile," "middle mile," or "backbone" portion of the broadband infrastructure.

**Answer:**

The proposed project and construction is targeting the "last mile" which will be incorporated into the existing hybrid fiber-coax (HFC) network owned and operated by Cox Communications and will be capable of providing residential and business customers with download speeds of up to 300Mbps and upload speeds of up to 30 Mbps through the Docsis 3.0 platform. Cox is in the process of completing a national upgrade to provide all residential customers access to 1 gigabit download speeds by the end of 2019.

8. For wireless projects only: Please explain the ownership of the proposed wireless infrastructure. Will the wireless co-applicant own or lease the radio mast, tower, or other raised structure onto which the wireless infrastructure will be installed?

**Answer:**

N/A

# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

9. Provide a description of the broadband service to be provided, including estimated download and upload speeds, whether that speed is based on dedicated or shared bandwidth, and the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate.

**Answer:**

The proposed project and construction will be incorporated into the existing hybrid fiber-coax (HFC) network owned and operated by Cox Communications and will be capable of providing residential and business customers with download speeds of up to 300Mbps and upload speeds of up to 30 Mbps through the Docsis 3.0 platform. Upon completion of a nationwide upgrade project, all residential customers will have access to 1 gigabit download speeds by the end of 2019.

Businesses will have the option of requesting dedicated fiber services to their facility for an additional cost. Residents and businesses will also benefit from future speed increases as Cox works toward deploying Docsis 3.1 in the coming year which will enable customers to access gigabit speeds over the existing Cox network. The network will also enable customers to access video, telephone and home security/automation services available through Cox Communications.

10. 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. Also describe specific advantages of using this technology. Provide a detailed explanation on how this information was compiled and source(s). For wireless projects, provide a propagation map including the proposed project.

**Answer:**

Through the video franchise with the City of Chesapeake, Cox Communications has built and maintained a hybrid fiber-coax (HFC) network in the City for several decades. This network has enabled Cox to offer video, data, telephony, and home security/automation services to residents. This grant will allow Cox to extend the network to an area of the City that is currently unserved.

Services are delivered over the Cox network from one of several hubsites that Cox owns and operates in Hampton Roads. This hubsite is fed from Cox's national fiber backbone which provides several redundant connections to Hampton Roads. Cox trains and employs engineers and technicians to ensure we maintain a 99.999% network reliability. The network and hubsite are monitored both locally and nationally 24 hours a day and 365 days a year.

11. Project Readiness

What is the current state of project development (i.e. planning, preliminary engineering, final design, etc.)? Prepare a detailed project timeline or construction schedule, which identifies specific tasks, staff, contractor responsible(s), collection of data, etc., and estimated start and completion dates. The timeline should include all activities being completed within 12 months of contract execution with DHCD.

**Answer:**

The plan demonstrates a commitment to reach the 2019 completion date with a steady and phased-in progress to

# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

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.

Please refer to Attachment: Project Management Plan.

12. Matching funds: Provide a description of the matching funds the applicant and co-applicant will invest in the proposed project, (VATI funding cannot exceed 80% of total project cost). The Funding Sources Table should be completed.

i. For each element of matching funds in the description, indicate the type of match (cash, salary expense, or in-kind contribution).

ii. Identify whether the applicant or co-applicant is responsible for providing each element of the proposed matching funds.

iii. Include copies of vendor quotes or documented cost estimates supporting the proposed budget.

**Answer:**

Please refer to Attachment: Contributions

13. Identify key individuals, including name and title, who will be responsible for the management of the project. Describe their role and responsibilities for the project. Present this information in table format.

**Answer:**

Chesapeake Fiscal Agent:	Marc Stein, IT Fiscal Admin	Chesapeake Grant/Project
Manager:	Chuck Williams, Assistant Director of IT	
Chesapeake Cox Liaison:	Chuck Williams, Assistant Director of IT	
Cox Communications Project Manager:	Chris Tobin, Planning & Construction Supervisor	
Cox Communications Government/Chesapeake Liaison:	Sarah Buck, Public Affairs Manager	

The project management role will be shared. Cox Communications will manage project design, construction and service provision to customers. The City of Chesapeake will serve as the fiscal agent, contract administrator, and provide project oversight to ensure strict compliance with local ordinances and grant requirements, as well as ensure project completion by December 2019. Cox will provide well in excess of the minimum 20% required grant match. The City of Chesapeake will provide in-kind services such as credit any permit fees levied by the city, assisting Cox in securing easements if needed and staff time dedicated to project and financial management as well as grant report requirements.

14. Applicant and Co-Applicant: A description of the public-private partnership involved in the project. Detail the local government assistance: Local government co-applicants should demonstrate assistance to project that will lower overall cost and further assist in the timely completion of construction, including assistance with permits, rights of way, easement and other issues that may hinder or delay timely construction and increase cost.

# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

- i. If the partnership is formalized in a written agreement provide a copy of that agreement.
- ii. If the partnership has not been formalized, provide a short description of the project management role, financial commitment, or other contribution to the project for the applicant and co-applicant and any additional partners.

**Answer:**

The City of Chesapeake is working with Cox Communications, a nationally recognized provider of digital cable television and telecommunications services. Cox Communications is the third largest telecommunications corporation in the United States, serving more than 6.2 million customers, including nearly 4 million internet subscribers. Cox and Chesapeake 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. The unserved area identified is in the southern portion of the city, and is rural in nature. Cox Communications has been greatly challenged to provide broadband services to certain rural areas and this grant opportunity presents a viable means and solution to expand services where it would otherwise be financially unfeasible.

Please refer to Attachments/ Documentation of relationship: This compilation of documents includes (1) Letter from Cox Communications verifying partnership with the City of Chesapeake and long-term relationship; (2) Chesapeake Cable Television Franchise Agreement with Cox Communications demonstrating 15+ years of continuous partnership relationship.

The project management role will be shared. Cox Communications will manage project design, construction and service provision to customers. Chesapeake will serve as the fiscal agent, contract administrator, and provide project oversight to ensure strict compliance with local ordinances and grant requirements, as well as ensure project completion by December 2019. Cox will provide the 20% required grant match. Chesapeake will provide in-kind services such as credit any permit fees levied by the city, assisting Cox in securing easements, and staff time dedicated to project and fiscal management.

Please refer to Attachment: Documentation of relationship between applicant and co-applicant

## 15. Project Budget and Cost Appropriateness

Applicants shall provide a detailed budget as to how the grant funds will be utilized, including an itemization of equipment and construction costs and a justification of proposed expenses. Expenses should be substantiated by clear cost estimates.

**Answer:**

Please refer to Attachment: Cox Derivation of Costs Worksheet - Beaver Dam and Sanderson Roads InKinds

16. The cost benefit index is comprised of three factors: (i) state share for the total project cost, (ii) state cost per unit passed, and (iii) the internet speed. From these statistics, individual cost benefit scores are calculated. Finally, the three component scores are averaged together and converted to a 30 point scale to form a composite score.

**Answer:**

- i. \$191,962
- ii. \$1,698.78

# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

iii. 1Gbps

17. A description of applicant and co-applicant's history or experience with managing grants and constructing broadband communications facilities in the Commonwealth of Virginia and elsewhere.

**Answer:**

Cox Communications is the third largest cable television company in the United States and provides video and telecommunications services in Hampton Roads, Northern Virginia, and Roanoke. Cox has been operating in Hampton Roads for 40 years and continues to invest heavily in its network. In the past 10 years alone, Cox has invested nearly \$2 billion dollars in its Virginia network. These investments have not only allowed Cox to continue upgrading broadband speeds, it has allowed Cox to be the first national provider to begin deploying one gigabit ("Gigablast") broadband to residents in Virginia. Cox will continue investing in the network to ensure gigabit broadband is available to all customers throughout the Cox footprint in Virginia by the end of 2019. Offering gigabit speed is nothing new for Cox; it has been offering business access to multi-gigabit services for years through dedicated fiber networks.

For many years, the City of Chesapeake has been managing federal, state and local grants. The City also collaborated and partnered with many non-profits, for-profits, and businesses in the application and execution of grant awards. Grants have ranged from youth activities to Emergency Management, to park enhancements, along with mitigation and infrastructure improvements. The City also has a grant approval process that must meet legal, budgeting, procurement, City Manager and City Council guidelines.

18. Service

Describe the Internet service offerings to be provided after completion of this project and your price structure for these services. The service offerings should include all relevant tiers.

**Answer:**

Cox offers four (4) advertised tiers of service for residential internet access: Cox Internet Starter at \$29.99 monthly; Essential at \$39.99 monthly; Preferred at \$59.99 monthly; and Ultimate at \$79.99 monthly. For businesses, there are also three (3) plans: Internet 100 at \$84.99 per month; Internet 200 at \$134.99 per month; and Internet 300 at \$184.99 per month. It is important to note that Cox offers discounted internet (\$9.95) through the Connect2Compete program for qualifying families with a student (K-12) receiving free or reduced lunch through the National School Lunch Program or families with a K-12 student receiving SNAP or TANF benefits.

See Attached Document: Connect2Compete

19. Additional Information

Any other equitable factor that the applicant desires to include.

**Answer:**

N/A



# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

## **Attachments:**

Derivation of Cost (Project Budget)

CoxDerivationofCostsWorksheetBeaverDamandSandersonRoadsInKinds1213201863013.xlsx

Project Management Plan

CoxBeaverDamandSandersonProjectManagementPlan127201812841.xlsx

Supporting documentation for costs estimates

CoxDerivationofCostsWorksheetBeaverDamandSandersonRoadsFINAL1212201844707.xlsx

Map(s) of project area, including proposed infrastructure

CoCSandersonHungarianRdCoxroute2018cocbeaverdamrdcoxroute20181213201862801.pdf

Map(s) or schematic of existing broadband providers (inventory of existing assets)

CurrentCoverageForBeaverDamAndSanderson12132018110707.docx

Documentation of relationship between applicant and co-applicant (formal or informal)

CoxLetterToCityManager18121012132018111441.pdf

Two most recent Form 477 submitted to FCC

FCC4771213201894833.docx

Documentation for in-kind contributions, including value(s)

Contributions12132018110113.xlsx

Documentation supporting project costs (i.e. vendor quotes)

CoxDerivationofCostsWorksheetBeaverDamandSandersonRoadsInKinds12132018110236.xlsx

Documentation of source of match funding

Contributions12132018110143.xlsx

# Application to DHCD Submitted through CAMS

City of Chesapeake

Under/Unserved Chesapeake Residents 2019

---

Documentation that proposed project area is unserved based on VATI criteria

SupportingAbsenceOfCoverageVATI12132018111349.docx

Documentation that proposed project area is not designated for Connect America Funding (CAF)

ConnectAmericaFundMap18121212132018111326.jpg

Funding Sources Table

VATIFundingSourcesTable12132018112920.docx

(Optional)

InternetPackageSpeeds12132018113824.docx

(Optional)

Connect2Compete12132018113612.docx

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE - Sewer Installation</b>					
<u>Construction</u>					
9,000 LF of 8-inch sewer line @ \$50/LF	\$450,000	\$400,000	\$50,000	PER	9/5/2016
5,000 LF of 2-inch force main @ \$16/LF	\$80,000	\$50,000	\$30,000	PER	9/5/2016
4,175 LF of 6-inch service laterals @ \$20/LF	\$83,500	\$0	\$83,500	PER	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 22,757' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Beaver Dam Road.	\$ 229,844	\$ 183,875	\$ 45,969	Cox Communications	12/6/2018
Add (1) system power supply units @ \$4,447 per unit	\$ 4,447	\$ 3,558	\$ 889	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	\$ 5,662	\$ 4,530	\$ 1,132	Cox Communications	12/6/2018
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
<b>Total Cost of Project</b>	\$ 239,953	\$ 191,962	\$ 47,991		

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE - Sewer Installation</b>					
<u>Construction</u>					
<i>9,000 LF of 8-inch sewer line @ \$50/LF</i>	\$450,000	\$400,000	\$50,000	PER	9/5/2016
<i>5,000 LF of 2-inch force main @ \$16/LF</i>	\$80,000	\$50,000	\$30,000	PER	9/5/2016
<i>4,175 LF of 6-inch service laterals @ \$20/LF</i>	\$83,500	\$0	\$83,500	PER	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 28,934' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Sanderson Rd. & Hungarian Rd.	\$ 292,237	\$ 233,790	\$ 58,447	Cox Communications	12/6/2018
Add (1) system power supply units @ \$4,447 per unit	\$ 4,447	\$ 3,558	\$ 889	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	\$ 5,662	\$ 4,530	\$ 1,132	Cox Communications	12/6/2018
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
<b>Total Cost of Project</b>	\$ 302,346	\$ 241,877	\$ 60,469		

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE - Sewer Installation</b>					
<u>Construction</u>					
9,000 LF of 8-inch sewer line @ \$50/LF	\$450,000	\$400,000	\$50,000	PER	9/5/2016
5,000 LF of 2-inch force main @ \$16/LF	\$80,000	\$50,000	\$30,000	PER	9/5/2016
4,175 LF of 6-inch service laterals @ \$20/LF	\$83,500	\$0	\$83,500	PER	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 51,691' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Beaver Dam Road.	\$ 522,081	\$ 417,665	\$ 104,416	Cox Communications	12/6/2018
Add (2) system power supply units @ \$4,447 per unit	\$ 8,894	\$ 7,115	\$ 1,779	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	\$ 11,324	\$ 9,059	\$ 2,265	Cox Communications	12/6/2018
City Project Management time 140 hours @ \$55.92	\$ 7,829	\$ -	\$ 7,829	City of Chesapeake	12/12/2018
Right of way fees @\$50 per roadway franchise	\$ 150	\$ -	\$ 150	City of Chesapeake	12/12/2018
Pilot online advertising fees	\$ 288	\$ -	\$ 288	City of Chesapeake	12/12/2018
<b>Total Cost of Project</b>	\$ 550,566	\$ 433,839	\$ 116,727		





CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE - Sewer Installation</b>					
<u>Construction</u>					
9,000 LF of 8-inch sewer line @ \$50/LF	\$450,000	\$400,000	\$50,000	PER	9/5/2016
5,000 LF of 2-inch force main @ \$16/LF	\$80,000	\$50,000	\$30,000	PER	9/5/2016
4,175 LF of 6-inch service laterals @ \$20/LF	\$83,500	\$0	\$83,500	PER	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 22,757' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Beaver Dam Road.	\$ 229,844	\$ 183,875	\$ 45,969	Cox Communications	12/6/2018
Add (1) system power supply units @ \$4,447 per unit	\$ 4,447	\$ 3,558	\$ 889	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	\$ 5,662	\$ 4,530	\$ 1,132	Cox Communications	12/6/2018
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
<b>Total Cost of Project</b>	\$ 239,953	\$ 191,962	\$ 47,991		



CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE - Sewer Installation</b>					
<u>Construction</u>					
<i>9,000 LF of 8-inch sewer line @ \$50/LF</i>	\$450,000	\$400,000	\$50,000	PER	9/5/2016
<i>5,000 LF of 2-inch force main @ \$16/LF</i>	\$80,000	\$50,000	\$30,000	PER	9/5/2016
<i>4,175 LF of 6-inch service laterals @ \$20/LF</i>	\$83,500	\$0	\$83,500	PER	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 28,934' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Sanderson Rd. & Hungarian Rd.	\$ 292,237	\$ 233,790	\$ 58,447	Cox Communications	12/6/2018
Add (1) system power supply units @ \$4,447 per unit	\$ 4,447	\$ 3,558	\$ 889	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	\$ 5,662	\$ 4,530	\$ 1,132	Cox Communications	12/6/2018
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
<b>Total Cost of Project</b>	\$ 302,346	\$ 241,877	\$ 60,469		

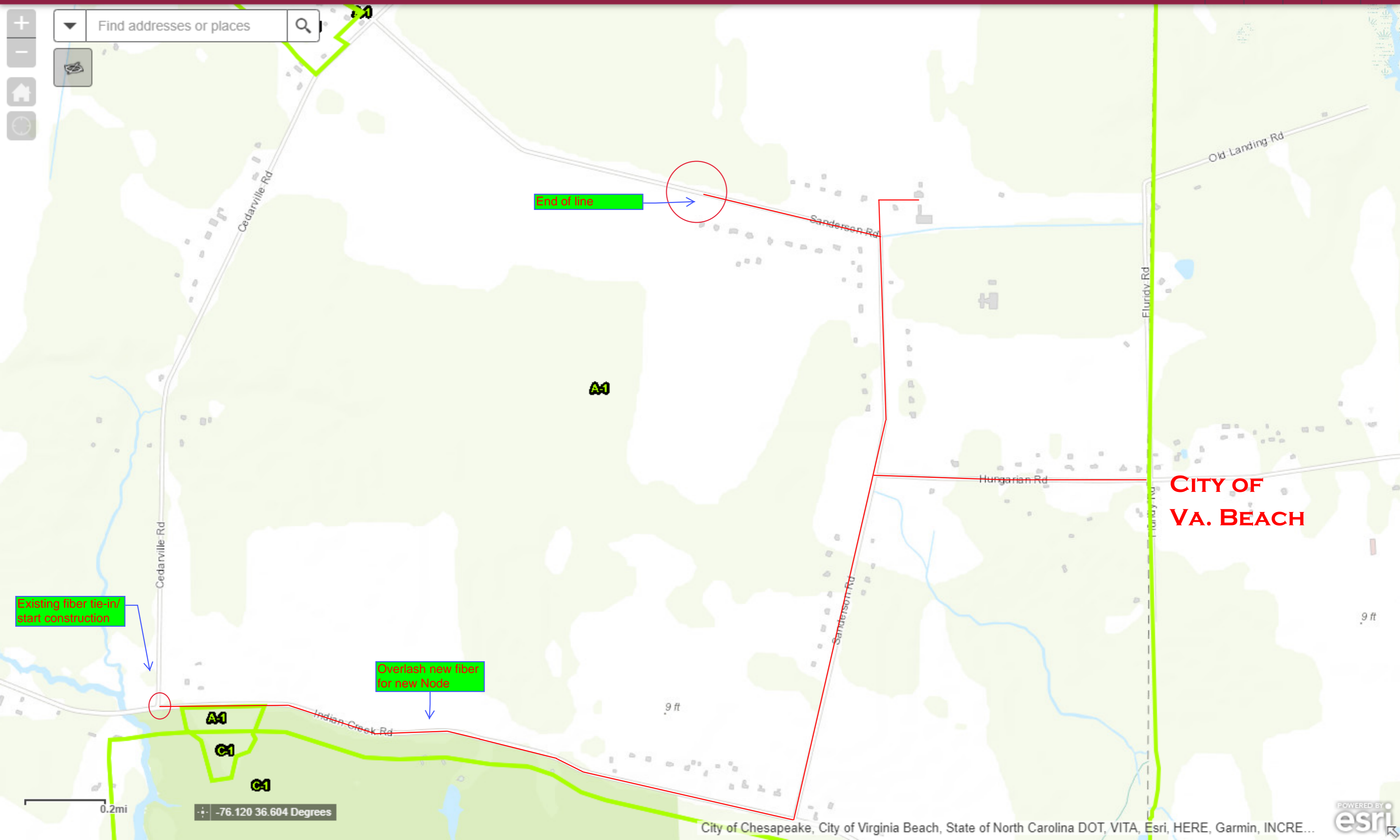
CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE - Sewer Installation</b>					
<u>Construction</u>					
9,000 LF of 8-inch sewer line @ \$50/LF	\$450,000	\$400,000	\$50,000	PER	9/5/2016
5,000 LF of 2-inch force main @ \$16/LF	\$80,000	\$50,000	\$30,000	PER	9/5/2016
4,175 LF of 6-inch service laterals @ \$20/LF	\$83,500	\$0	\$83,500	PER	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 51,691' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Beaver Dam Road.	\$ 522,081	\$ 417,665	\$ 104,416	Cox Communications	12/6/2018
Add (2) system power supply units @ \$4,447 per unit	\$ 8,894	\$ 7,115	\$ 1,779	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	\$ 11,324	\$ 9,059	\$ 2,265	Cox Communications	12/6/2018
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
<b>Total Cost of Project</b>	\$ 542,299	\$ 433,839	\$ 108,460		



Find addresses or places



End of line

Existing fiber tie-in/  
start construction

Overlash new fiber  
for new Node

CITY OF  
VA. BEACH

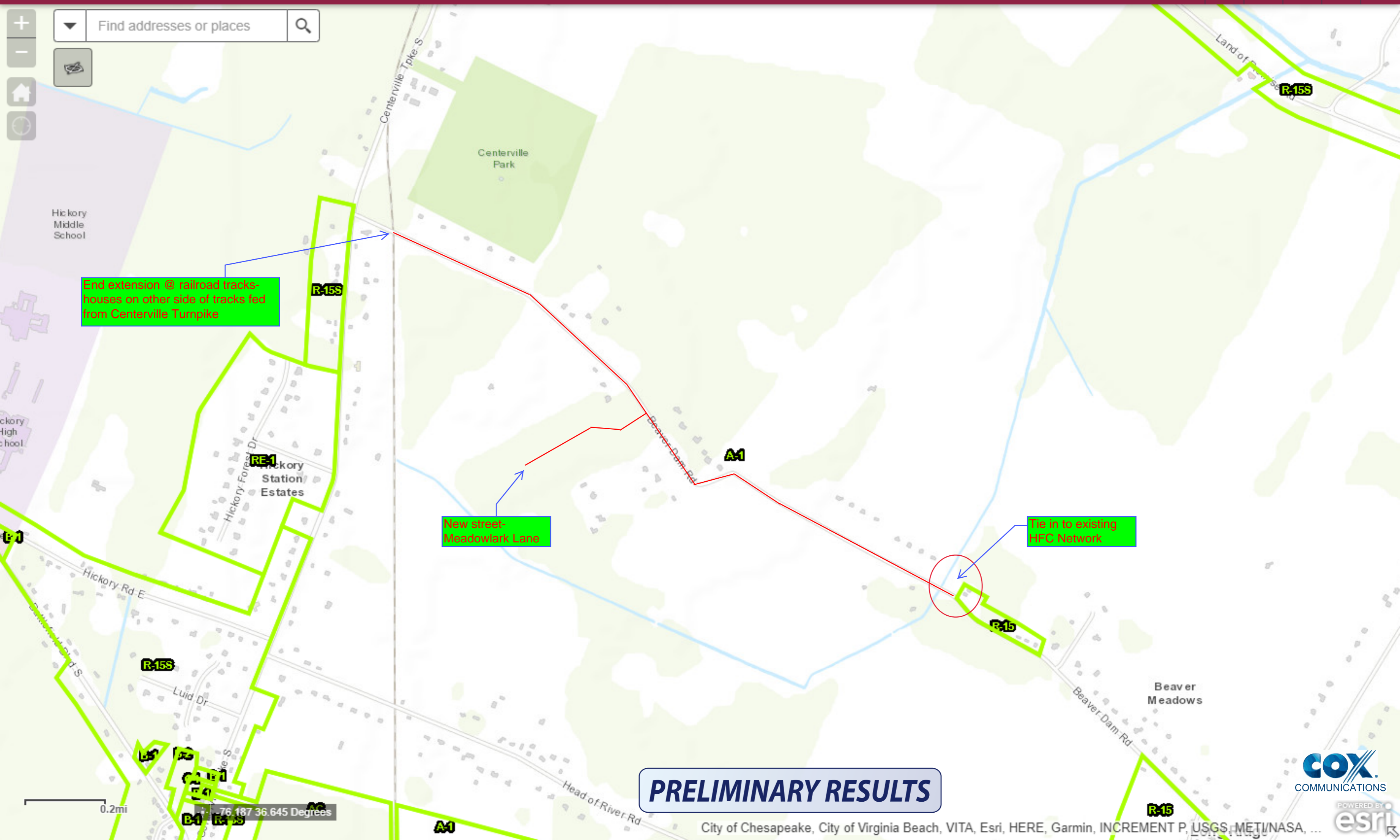
0.2mi

-76.120 36.604 Degrees





Find addresses or places



End extension @ railroad tracks-houses on other side of tracks fed from Centerville Turnpike

New street-Meadowlark Lane

Tie in to existing HFC Network

# PRELIMINARY RESULTS

0.2mi 76.187 36.645 Degrees







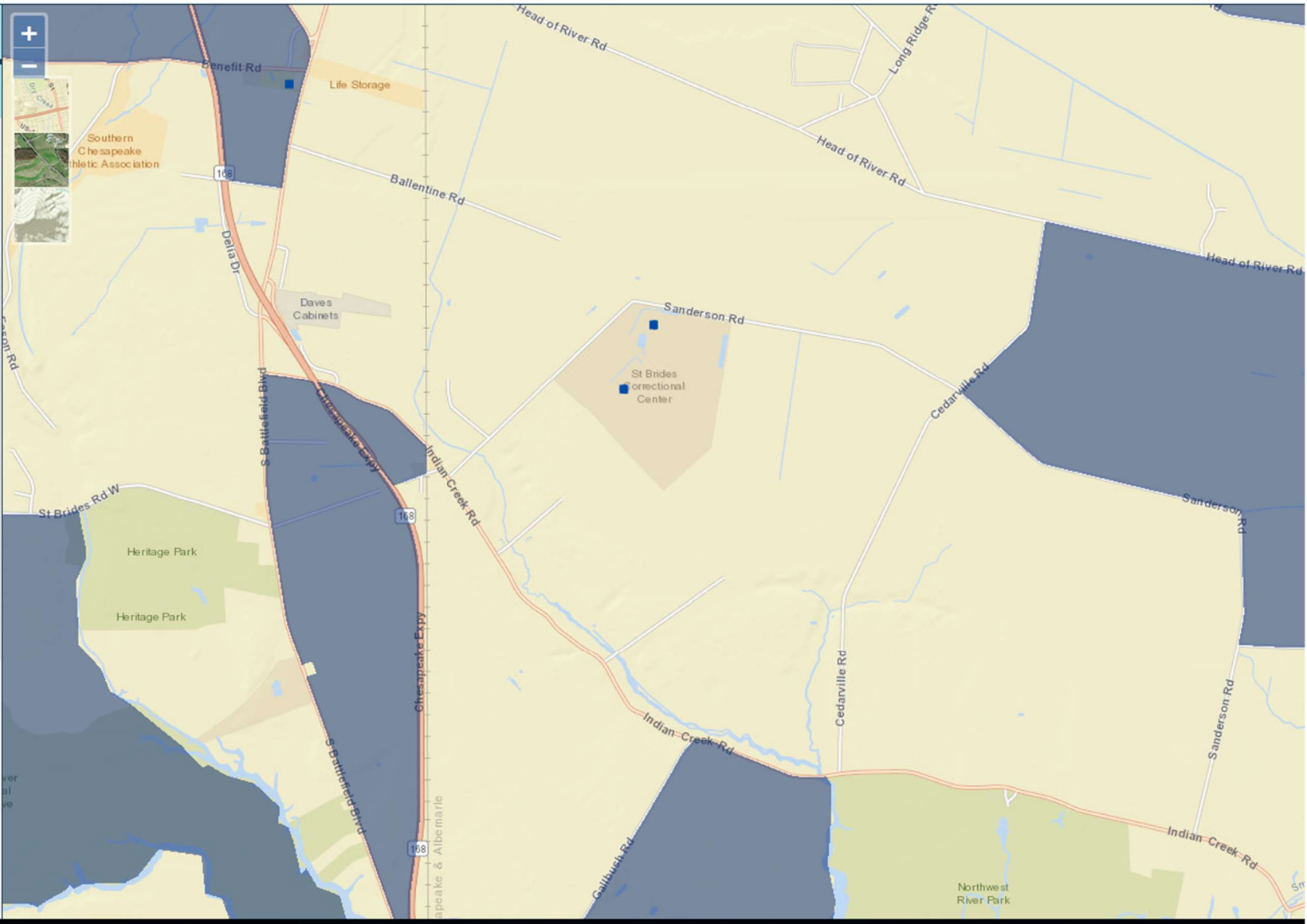
# Virginia Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox



OFF ?

### Choose Some Layers

- Cities/Counties
- Cable Wireline Coverage (Jun. 2017)
- DSL Wireline Coverage (Jun. 2017)
- Cable/DSL Intersect Wireline Coverage (Jun. 2017)
- Copper Wireline Coverage (Jun. 2017)
- Fiber Optic Coverage (Jun. 2017)
- Fixed Wireless Coverage (Jun. 2017)
- Mobile Wireless Coverage (Dec. 2016)
- 4G/LTE Wireless Coverage (Dec. 2016)
- Satellite Coverage (Jun. 2017)
- Underserved Areas (June 2017)  
[greater than 10 Mbps download and 1 Mbps upload and less than 25 Mbps download and 3 Mbps upload]
- Unserved Areas (June 2017)  
[below or equal to 10 Mbps download and 1 Mbps upload]
- Vertical Assets (updated daily)
- Community Anchor Institutions (Jul. 2015)
  - School
  - Library
  - Hospital
  - Public Safety Entity
  - Government Building
  - Other
- DataCardinal Desktop Download Speeds (updated daily)
  - < 769 Kbps
  - 768 Kbps - 3 Mbps
  - 3 - 25 Mbps
  - 25 - 50 Mbps
  - > 50 Mbps
- DataCardinal Desktop Upload Speeds (undated daily)





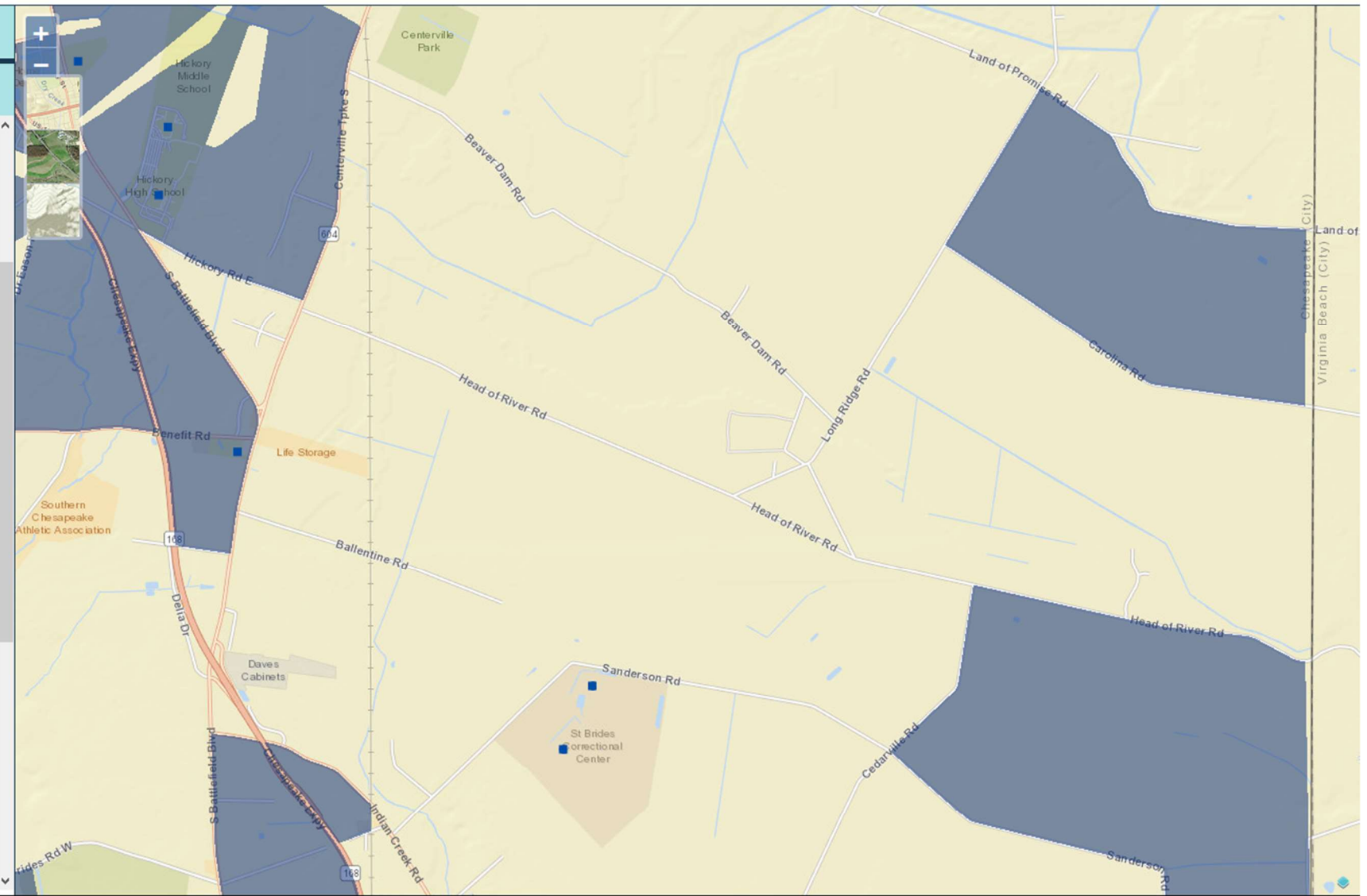
# Virginia Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox



OFF ?

### Choose Some Layers

- Cities/Counties
- Cable Wireline Coverage (Jun. 2017)
- DSL Wireline Coverage (Jun. 2017)
- Cable/DSL Intersect Wireline Coverage (Jun. 2017)
- Copper Wireline Coverage (Jun. 2017)
- Fiber Optic Coverage (Jun. 2017)
- Fixed Wireless Coverage (Jun. 2017)
- Mobile Wireless Coverage (Dec. 2016)
- 4G/LTE Wireless Coverage (Dec. 2016)
- Satellite Coverage (Jun. 2017)
- Underserved Areas (June 2017)  
[greater than 10 Mbps download and 1 Mbps upload and less than 25 Mbps download and 3 Mbps upload]
- Unserved Areas (June 2017)  
[below or equal to 10 Mbps download and 1 Mbps upload]
- Vertical Assets (updated daily)
  - Community Anchor Institutions (Jul. 2015)
    - School
    - Library
    - Hospital
    - Public Safety Entity
    - Government Building
    - Other
- DataCardinal Desktop Download Speeds (updated daily)
  - < 769 Kbps
  - 768 Kbps - 3 Mbps
  - 3 - 25 Mbps
  - 25 - 50 Mbps
  - > 50 Mbps
- DataCardinal Desktop Upload Speeds (updated daily)





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

---

December 1, 2018

James Baker  
Chesapeake City Manager  
306 Cedar Road  
Chesapeake, VA 23322

Dear Mr. Baker,

Thank you for the opportunity to work with the City on a grant application to help provide broadband service to residents in the southern portion of Chesapeake. Cox Communications is a committed partner to this project and we look forward to coordinating with your great team to make this grant application successful.

Cox Communications has been providing video and telecommunications service in the Commonwealth for 40 years and we have continually looked for ways to enhance and expand our network to meet the needs of our customers. Since 2006, Cox has invested nearly \$2 billion in our Virginia network which has allowed us to repeatedly increase internet speeds and be the first national communications company in Virginia to commit to, and begin deploying, 1 Gigabit internet ("Gigablast") service to our residential customers. These investments and services have significant impact on economic development by increasing opportunities for residents to telework and by allowing more home-based businesses to thrive.

This is an exciting time and we appreciate the opportunity to work with the City of Chesapeake on a grant application for this last-mile project that could help to bring broadband service to 52 residences (plus 10 to-be-developed lots) on Beaver Dam Road and 61 residences in the Sanderson Road/Hungarian Road area who have been eager to gain broadband access.

As always, please feel free to contact me with any questions you may have.

Sincerely,

A handwritten signature in blue ink that reads "Sarah Buck".

Sarah Buck  
Manager, Public Affairs



# (RETAIN FOR YOUR RECORDS) Form 477 Filing Summary

FRN:

0001834696

Data as of:

Dec 31, 2017

Operations:

Non-ILEC

Submission Status:

Original - Submitted

Last Updated:

Mar 8, 2018 11:04:07

## Filer Identification

Section	Question	Response
<b>Filer Information</b>	Provider Name	Cox Communications, Inc
	Holding Company Name	Cox Communications, Inc.
	SAC ID	139001, 199018, 219019, 229011, 279011, 359019, 379001, 409029, 419021, 439003, 459012, 549017, 559017, 589001
	499 ID	827138
<b>Data Contact Information</b>	Data Contact Name	Paul Cain
	Data Contact Phone Number	(404) 269-8139
	Data Contact E-mail	<a href="mailto:paul.cain@cox.com">paul.cain@cox.com</a>
	Emergency Operations Name	Mark Peay
<b>Emergency Operations Contact Information</b>	Emergency Operations Phone Number	(404) 843-5175
	Emergency Operations E-mail	<a href="mailto:mark.peay@cox.com">mark.peay@cox.com</a>
	Certifying Official Name	Joiava T. Philpott
<b>Certifying Official Contact Information</b>	Certifying Official Phone Number	(404) 269-0983
	Certifying Official E-mail	<a href="mailto:joiava.philpott@cox.com">joiava.philpott@cox.com</a>



# (RETAIN FOR YOUR RECORDS) Form 477 Filing Summary

FRN:

0001834696

Data as of:

Jun 30, 2018

Operations:

Non-ILEC

Submission Status:

Original - Submitted

Last Updated:

Aug 7, 2018 10:59:49

## Filer Identification

Section	Question	Response
<b>Filer Information</b>	Provider Name	Cox Communications, Inc
	Holding Company Name	Cox Communications, Inc.
	SAC ID	139001, 199018, 219019, 229011, 279011, 359019, 379001, 409029, 419021, 439003, 459012, 549017, 559017, 589001
	499 ID	827138
<b>Data Contact Information</b>	Data Contact Name	Paul Cain
	Data Contact Phone Number	(404) 269-8139
	Data Contact E-mail	<a href="mailto:paul.cain@cox.com">paul.cain@cox.com</a>
	Emergency Operations Name	Mark Peay
<b>Emergency Operations Contact Information</b>	Emergency Operations Phone Number	(404) 843-5175
	Emergency Operations E-mail	<a href="mailto:mark.peay@cox.com">mark.peay@cox.com</a>
	Certifying Official Name	Joiava T. Philpott
<b>Certifying Official Contact Information</b>	Certifying Official Phone Number	(404) 269-0983
	Certifying Official E-mail	<a href="mailto:joiava.philpott@cox.com">joiava.philpott@cox.com</a>



<b>Product</b>	<b>Contribution Type</b>	<b>Non-VATI</b>	<b>Source of Estimate</b>	<b>Date</b>
Construct approx. 51,691' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Beaver Dam Road.	in-kind	\$104,416.20	<b>Cox Communications</b>	<b>12/6/2018</b>
Add (2) system power supply units @ \$4,447 per unit	in-kind	\$1,778.80	<b>Cox Communications</b>	<b>12/6/2018</b>
Perform network engineering & design & make-ready	in-kind	\$2,264.80	<b>Cox Communications</b>	<b>12/6/2018</b>
City Proeject Management time 140 hours @ \$55.92	in-kind salary	\$7,829.00	<b>City of Chesapeake</b>	<b>12/12/2018</b>
Right of way fees @\$50 per roadway franchise	in-kind	\$150.00	<b>City of Chesapeake</b>	<b>12/12/2018</b>
Pilot online advertising fees	in-kind	\$288.00	<b>City of Chesapeake</b>	<b>12/12/2018</b>
<b>Contributions</b>		<b>\$ 116,727</b>		

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE - Sewer Installation</b>					
<u>Construction</u>					
9,000 LF of 8-inch sewer line @ \$50/LF	\$450,000	\$400,000	\$50,000	PER	9/5/2016
5,000 LF of 2-inch force main @ \$16/LF	\$80,000	\$50,000	\$30,000	PER	9/5/2016
4,175 LF of 6-inch service laterals @ \$20/LF	\$83,500	\$0	\$83,500	PER	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 22,757' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Beaver Dam Road.	\$ 229,844	\$ 183,875	\$ 45,969	Cox Communications	12/6/2018
Add (1) system power supply units @ \$4,447 per unit	\$ 4,447	\$ 3,558	\$ 889	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	\$ 5,662	\$ 4,530	\$ 1,132	Cox Communications	12/6/2018
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
<b>Total Cost of Project</b>	\$ 239,953	\$ 191,962	\$ 47,991		

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE - Sewer Installation</b>					
<u>Construction</u>					
9,000 LF of 8-inch sewer line @ \$50/LF	\$450,000	\$400,000	\$50,000	PER	9/5/2016
5,000 LF of 2-inch force main @ \$16/LF	\$80,000	\$50,000	\$30,000	PER	9/5/2016
4,175 LF of 6-inch service laterals @ \$20/LF	\$83,500	\$0	\$83,500	PER	9/5/2016

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 28,934' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Sanderson Rd. & Hungarian Rd.	\$ 292,237	\$ 233,790	\$ 58,447	Cox Communications	12/6/2018
Add (1) system power supply units @ \$4,447 per unit	\$ 4,447	\$ 3,558	\$ 889	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	\$ 5,662	\$ 4,530	\$ 1,132	Cox Communications	12/6/2018
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
	\$ -	\$ -	\$ -		
<b>Total Cost of Project</b>	\$ 302,346	\$ 241,877	\$ 60,469		

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
<b>EXAMPLE - Sewer Installation</b>					
<u>Construction</u>					
9,000 LF of 8-inch sewer line @ \$50/LF	\$450,000	\$400,000	\$50,000	PER	9/5/2016
5,000 LF of 2-inch force main @ \$16/LF	\$80,000	\$50,000	\$30,000	PER	9/5/2016
4,175 LF of 6-inch service laterals @ \$20/LF	\$83,500	\$0	\$83,500	PER	9/5/2016

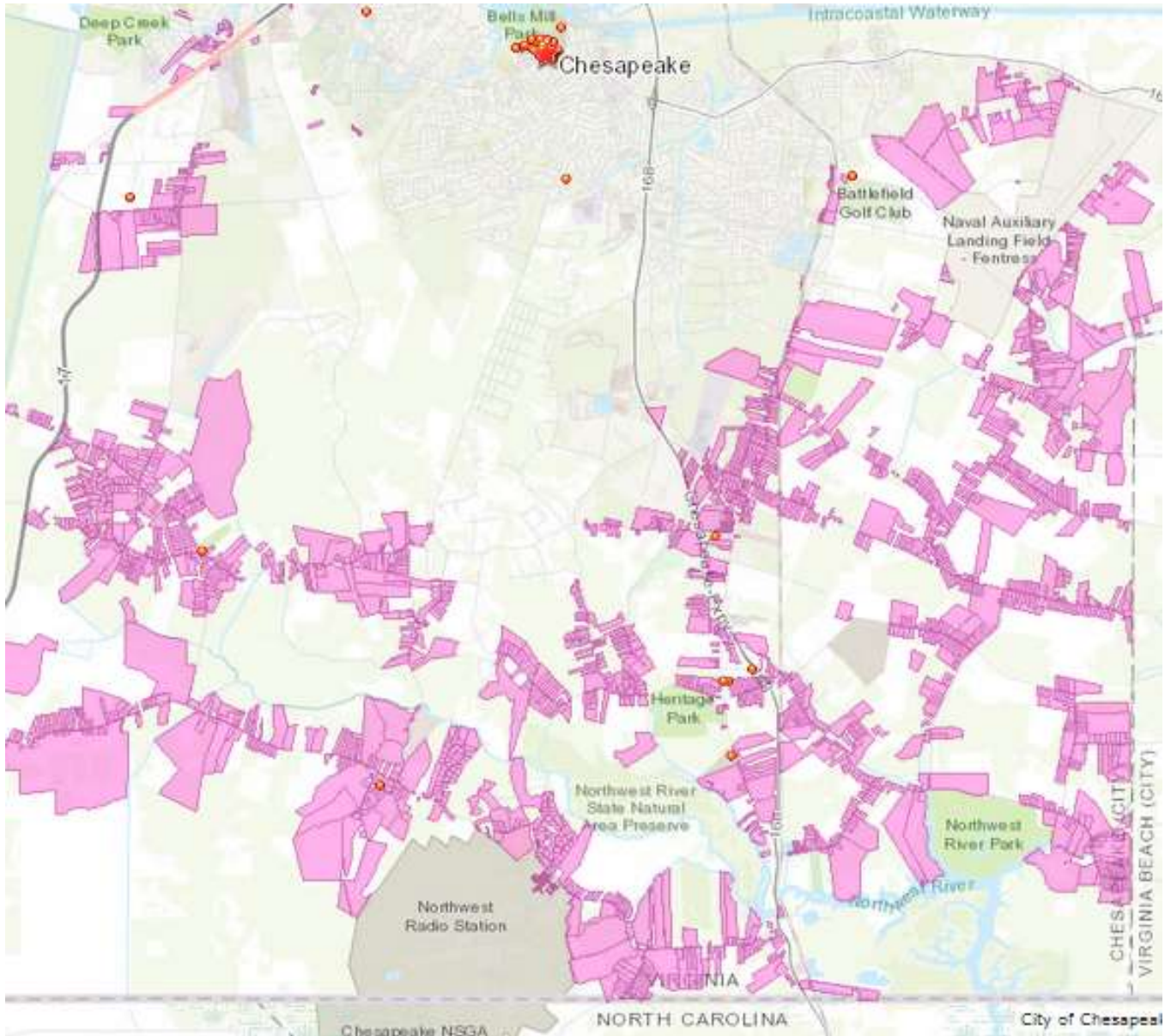
Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 51,691' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Beaver Dam Road.	\$ 522,081	\$ 417,665	\$ 104,416	Cox Communications	12/6/2018
Add (2) system power supply units @ \$4,447 per unit	\$ 8,894	\$ 7,115	\$ 1,779	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	\$ 11,324	\$ 9,059	\$ 2,265	Cox Communications	12/6/2018
City Project Management time 140 hours @ \$55.92	\$ 7,829	\$ -	\$ 7,829	City of Chesapeake	12/12/2018
Right of way fees @\$50 per roadway franchise	\$ 150	\$ -	\$ 150	City of Chesapeake	12/12/2018
Pilot online advertising fees	\$ 288	\$ -	\$ 288	City of Chesapeake	12/12/2018
<b>Total Cost of Project</b>	\$ 550,566	\$ 433,839	\$ 116,727		

<b>Product</b>	<b>Contribution Type</b>	<b>Non-VATI</b>	<b>Source of Estimate</b>	<b>Date</b>
Construct approx. 51,691' of new fiber distribution network to include optical electronics and passive devices @ \$10.10 per ft. on Beaver Dam Road.	in-kind	\$104,416.20	Cox Communications	12/6/2018
Add (2) system power supply units @ \$4,447 per unit	in-kind	\$1,778.80	Cox Communications	12/6/2018
Perform network engineering & design & make-ready	in-kind	\$2,264.80	Cox Communications	12/6/2018
City Proeject Management time 140 hours @ \$55.92	in-kind salary	\$7,829.00	City of Chesapeake	12/12/2018
Right of way fees @\$50 per roadway franchise	in-kind	\$150.00	City of Chesapeake	12/12/2018
Pilot online advertising fees	in-kind	\$288.00	City of Chesapeake	12/12/2018
<b>Contributions</b>		<b>\$ 116,727</b>		

## Absence of Coverage

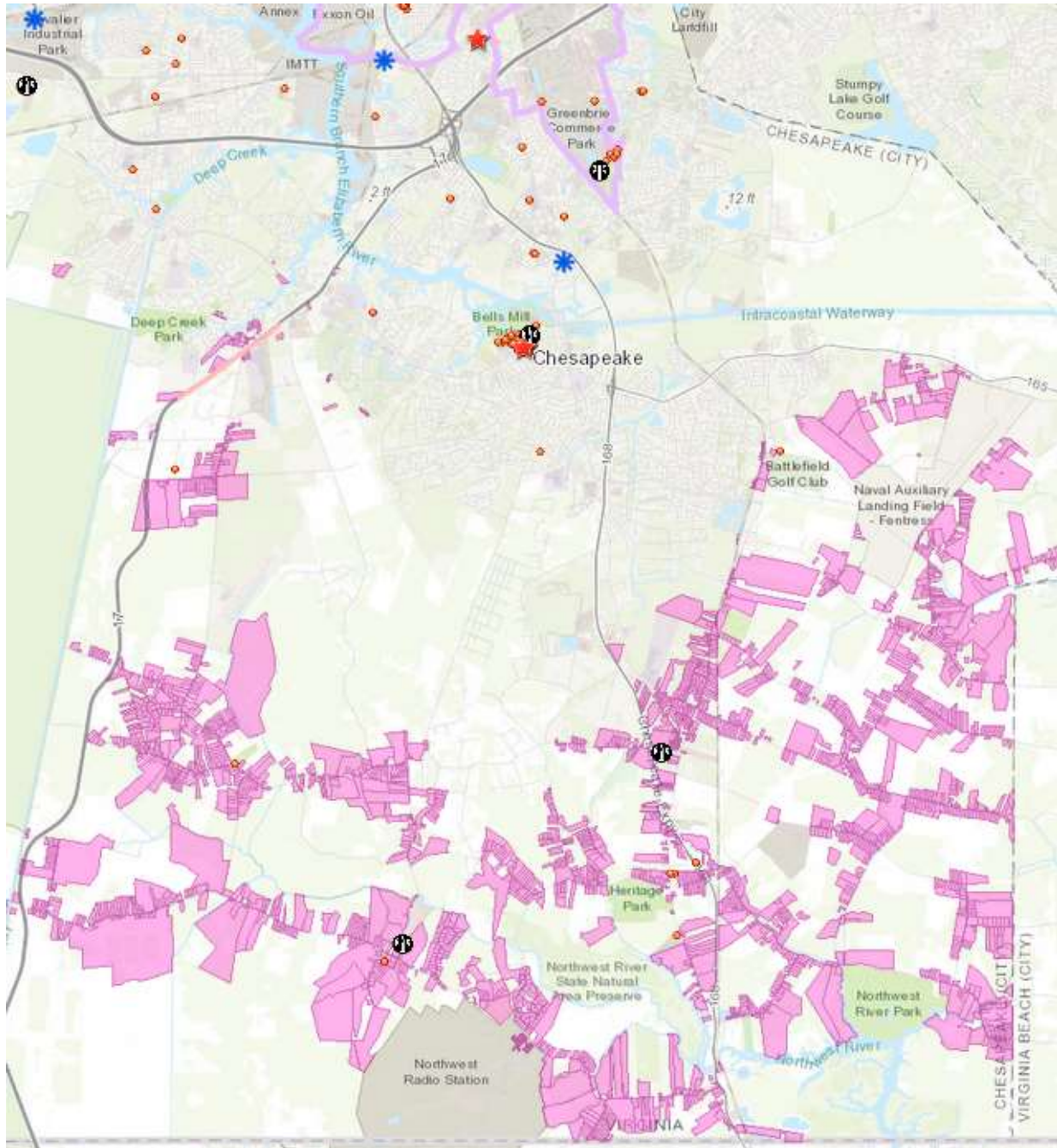
- i. Article: [Rural Chesapeake Residents Want Cable, Internet Access](#) (9/3/13)
- ii. Article: [In rural parts of Chesapeake, broadband internet access is limited. Residents want help overcoming the "digital divide"](#) (11/10/16)P

Plus, the map below shows research the City of Chesapeake and concerned citizens informing the city wanted to address where broadband service was not offered by providers. While the area in southern Chesapeake is not fully shaded in, the land adjacent to the shaded areas also do not have broadband access. The area for this grant request is just southeast of Naval Auxiliary Landing Field – Fentress.



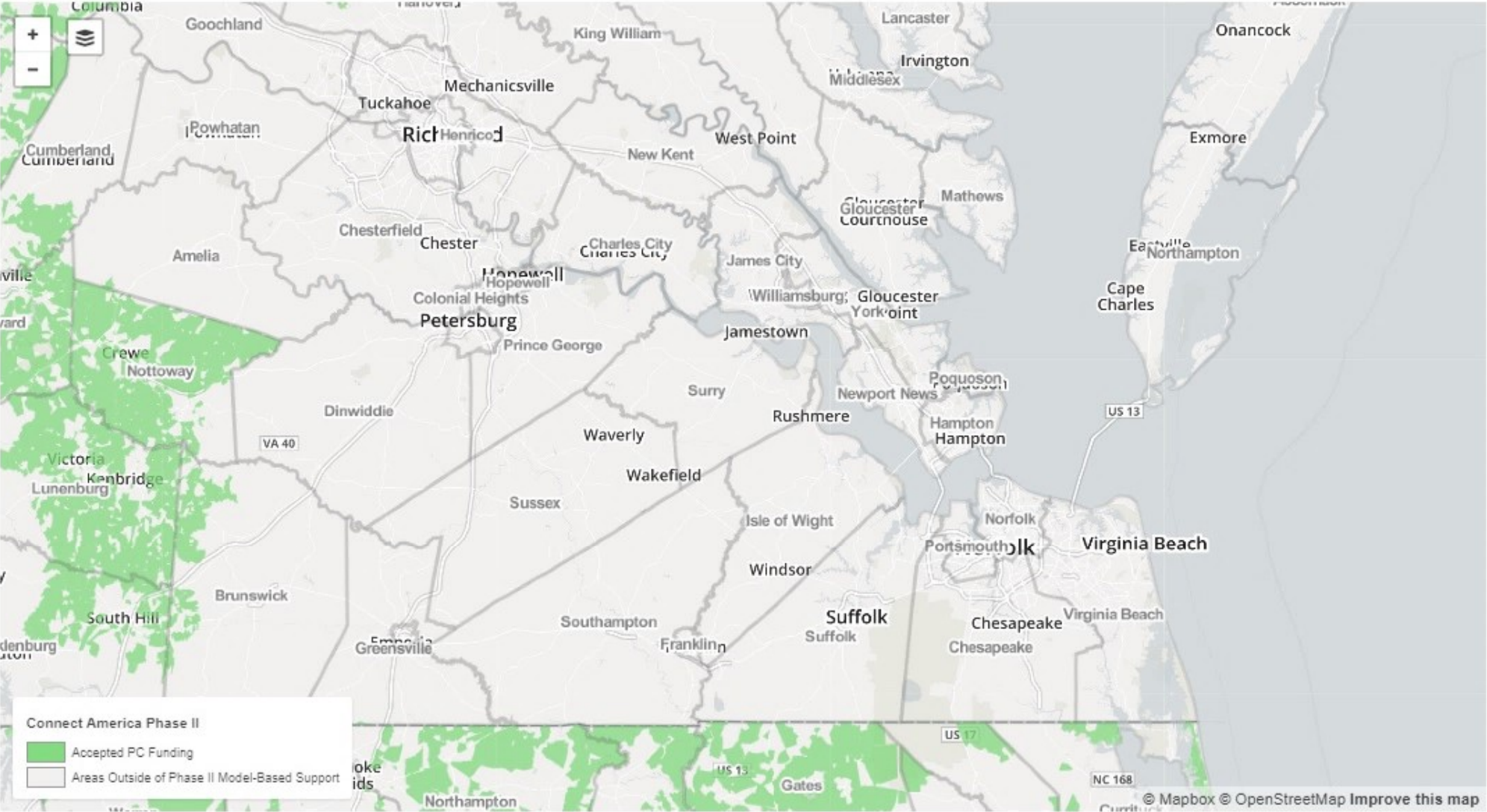


Absence of Coverage



# Connect America Fund Phase II

Accepted Areas Map



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	\$ 433839	78	Pending
Cox - Private	\$ 108460	20	SECURED
Chesapeake - Local	\$ 8267	2	SECURED
	\$		
	\$		
	\$		
	\$		
<b>TOTAL</b>	<b>\$ 550,566</b>	<b>100 %</b>	









# Cox High Speed Internet plans




Choose an internet plan that best fits your speed needs. For internet plans that include other Cox services, we offer several [bundle options](#) to choose from.

NEW FASTER SPEEDS	
Cox Internet Starter 10	
<b>\$29.99/mo.</b> for 12 months with 1-yr. svc. agr. Regularly <del>\$42.99/mo.</del>   <b>Save 30%</b> <a href="#">Offer Details &amp; Terms &gt;</a>	
Our biggest savings begin with our Starter 10 level Internet. Limited Time Offer.	
	Ideal for fewer than 3 devices that browse the internet
	Up to 10 Mbps download
	Up to 1 Mbps upload
<a href="#">Add to Cart to Customize</a>	

NEW FASTER SPEEDS	
Cox Internet Essential 30	
<b>\$39.99/mo.</b> for 12 months with 1-yr. svc. agr. Regularly <del>\$63.99/mo.</del>   <b>Save 37%</b> <a href="#">Offer Details &amp; Terms &gt;</a>	
Great savings for 3x more speed than Internet Starter 10. Limited Time Offer.	
	Ideal for 3 to 5 devices that occasionally receive emails and light internet users
	Up to 30 Mbps download
	Up to 3 Mbps upload
<a href="#">Add to Cart to Customize</a>	




MOST POPULAR	
Cox Internet Preferred 100	
<b>\$59.99/mo.</b> for 12 months with 1-yr. svc. agr. Regularly <del>\$84.99/mo.</del>   <b>Save 29%</b> <a href="#">Offer Details &amp; Terms &gt;</a>	
Our Most Popular plan with 10x the speed of Internet Starter 10. Limited Time Offer.	
	Ideal for 5 to 7 devices and internet users who are power web users and gamers
	Up to 100 Mbps download
	Up to 10 Mbps upload
<a href="#">Add to Cart to Customize</a>	

Cox Internet Ultimate	
<b>\$79.99/mo.</b> for 12 months with 1-yr. svc. agr. Regularly <del>\$104.99/mo.</del>   <b>Save 23%</b> <a href="#">Offer Details &amp; Terms &gt;</a>	
Get super-fast speeds on more of your devices. Limited Time Offer.	
	Ideal for 7 to 9 devices and advanced users who manage large files or stream videos
	Up to 300 Mbps download
	Up to 30 Mbps upload
<a href="#">Add to Cart to Customize</a>	

OUR FASTEST SPEED	
Gigablast	
<b>\$119.99/mo.</b> <a href="#">Offer Details &amp; Terms &gt;</a>	
Get 1 Gigabit download speeds plus 10 email accounts with 15GB storage each!	
	Ideal for more than 9 connected devices and advanced users who need to manage large files or stream videos
	Up to 1 Gbps download
	Up to 35 Mbps upload
<a href="#">Check Availability</a>	

## Cox Business Internet Service from Cox

With fast speeds, dedicated support and internet serviced built with business in mind, Cox has the flexible plans to fit the needs and boost the productivity of businesses.

Cox Business Internet - 100	Cox Business Internet - 200	Cox Business Internet - 300
<p><b>\$84.99</b>/mo. Regular price \$245.00/month.</p> <p><a href="#">Offer Details &amp; Terms</a></p> <ul style="list-style-type: none"><li>• Up to 100x20 Mbps</li><li>• 10 Email Accounts</li><li>• 25 GB of Online Backup</li><li>• 1 Static IP Addresses</li><li>• 25 Security Suite Licenses</li></ul> <p><b>Includes free Install up to \$350. Mention "Free Installation Promo" to qualify.</b></p> <p> <a href="#">With 24 Months Term Service Agreement.</a></p> <p><b>Order Now</b></p> <p>Up to 100x20 Mbps</p>	<p><b>\$134.99</b>/mo. Regular price \$320.00/month.</p> <p><a href="#">Offer Details &amp; Terms</a></p> <ul style="list-style-type: none"><li>• Up to 200x20 Mbps</li><li>• 10 Email Accounts</li><li>• 25 GB of Online Backup</li><li>• 1 Static IP Addresses</li><li>• 25 Security Suite Licenses</li></ul> <p><b>Includes free Install up to \$350. Mention "Free Installation Promo" to qualify.</b></p> <p> <a href="#">With 24 Months Term Service Agreement.</a></p> <p><b>Order Now</b></p> <p>Up to 200x20 Mbps</p>	<p><b>\$184.99</b>/mo. Regular price \$380.00/month.</p> <p><a href="#">Offer Details &amp; Terms</a></p> <ul style="list-style-type: none"><li>• Up to 300x30 Mbps</li><li>• 10 Email Accounts</li><li>• 25 GB of Online Backup</li><li>• 1 Static IP Addresses</li><li>• 25 Security Suite Licenses</li></ul> <p><b>Includes free Install up to \$350. Mention "Free Installation Promo" to qualify.</b></p> <p> <a href="#">With 24 Months Term Service Agreement.</a></p> <p><b>Order Now</b></p> <p>Up to 300x30 Mbps</p>

Connect2Compete is a low-cost home internet with WiFi product from Cox available to applications that meet and can verify the following requirements:

- Have at least one K-12 student living in the household
- Participate in one of the following: National School Lunch Program (NSLP), SNAP, TANF or Public Housing

Low-Cost, Home Internet with WiFi  
One Connection is All It Takes

**\$9.95**  
/mo.\*  
for qualifying households

- No deposits or annual contracts
- Free WiFi Modem

**QUALIFY NOW**

Now with **50% Faster Speeds!**

The advertisement features a blue background with a blurred image of a person looking at a computer screen. The text is white and yellow. A circular badge on the right side highlights the speed improvement.

Surveys indicate that more than 80% of all U.S. teachers believe that online learning improves education. While many consider access to technology at home to be critical to the quality of a student's education, it is alarming that one-third of all students in America, mostly from low-income households, lack that access.

At Cox®, we're working to change that with the Cox® Connect2Compete program and the Cox® Digital Academy, which provides LOW-COST INTERNET to qualified households in an effort to bridge the digital divide—and provide new opportunities for families and students.

Our success is only possible with the help of dedicated leaders in the communities we serve. If you're committed to making a difference in your home, school or neighborhood and would like to help bring low-cost Internet to families in need, visit our resources page. There, you'll find additional information and a collection of materials that can be used to help spread the word.

The infographic consists of five columns, each with an icon, a statistic, and a source. The background is dark blue with white text and icons.

Icon	Statistic	Source
Computer monitor with checkmark	71% of teens call the Internet their primary research for school projects.	PEW RESEARCH CENTER
Person in a suit	94% of job recruiters turn to the Internet for new hires.	EVERYONEON
House with Wi-Fi signal	More than 90% of higher-income families have home Internet access. For low-income K-12 students, it's less than 50%.	PEW RESEARCH CENTER
Graduation cap	Students with access to Internet-ready PCs in the home graduate at rates 6-8% higher than those without.	FEDERAL RESERVE SYSTEM
A+ grade	50% of parents reported GPA improvements since enrolling in the Cox® Connect2Compete program.	EVERYONEON