

Application to DHCD Submitted through CAMS

Culpeper County

Delivery of Technology - Culpeper, Orange, Madison (DOT COM)

Application ID: 64507012019135317
Application Status: Pending
Program Name: Virginia Telecommunications Initiative 2020
Organization Name: Culpeper County
Organization Address: 302 North Main Street
Culpeper, VA 22701
Profile Manager Name: Laura Loveday
Profile Manager Phone: (540) 727-3410
Profile Manager Email: lloveday@culpepercounty.gov

Project Name: Delivery of Technology - Culpeper, Orange, Madison (DOT COM)
Project Contact Name: Laura Loveday
Project Contact Phone: (540) 727-3410
Project Contact Email: lloveday@culpepercounty.gov
Project Location: 803 South Main Street
Culpeper, VA 22701-2622
Project Service Area: Culpeper County, Madison County, Orange County, Orange Town

Total Requested Amount: \$1,046,246.00
Required Annual Audit Status: No Current Audits Found

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$1,046,246.00	\$282,629.00	\$1,328,875.00
Construction	\$954,202.00	\$238,550.00	\$1,192,752.00
Other: Permits	\$14,044.00	\$3,511.00	\$17,555.00
Other: Engineering	\$43,600.00	\$10,900.00	\$54,500.00
Other: Inspections	\$16,000.00	\$4,000.00	\$20,000.00
Other: Wireless Component	\$18,400.00	\$4,600.00	\$23,000.00
Other: Project Administration and Mg	\$0.00	\$21,068.00	\$21,068.00
Total:	\$1,046,246.00	\$282,629.00	\$1,328,875.00

Budget Narrative:

The DOT COM regional middle and last mile fiber and wireless build will consist of 18 miles of installed fiber through 3 counties and 1 town in Central Virginia. The fiber estimate is \$66,264.00 per mile with an anticipated \$17,554 in permits, \$54,500 in engineering, and \$20,000 in inspections required to complete the build. The wireless last mile component has a cost of \$23,000 to purchase and install a 99' guyed structure and necessary wireless equipment to serve unserved and underserved homes in Culpeper County. Orange County Broadband has committed \$19,500 In-Kind project management and Culpeper County has committed \$1,568 In-Kind for Project Administration.

Questions and Responses:

1. Project Area

Explain 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:

Culpeper and Orange Counties met in July of 2019 to determine the highest broadband need of each locality. It was quickly determined that the region lacks the middle-mile infrastructure necessary in order to fulfil the Governors pledge to serve all rural Virginians with internet access. Unlike the more developed localities in the state, Central Virginia has very few incumbent providers with the ability to partner on such applications/opportunities as VATI grants. What is most needed in Central Virginia are open access fiber routes on which future last-mile projects can be built. The project we have proposed is called "Delivery of Technology- Culpeper, Orange, Madison (DOT COM)". If awarded, this application will not only serve 9 currently unserved and underserved census tracts in Culpeper County, but it will also build an 18-mile open-access fiber route along James Madison Highway in Central Virginia.

The route along James Madison Highway extends from Orange Elementary School in the Town of Orange, Virginia through Orange, Madison, and Culpeper Counties and ends just south of the Town of Culpeper where it

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will tie into Segra/Lumos infrastructure already in place along Lover's Lane.

2.

Describe your outreach efforts to identify existing providers in the selected project area. Provide a detailed explanation of how this information was compiled and the source(s). Provide a map and list of all existing providers (fixed and wireless) and speeds offered within the project area. Label Map: Attachment 2 – Existing Provider Map; label documentation: Attachment 3 – Documentation on CAF Funding Area.

Answer:

DSL (Digital Subscriber Line):

Verizon Virginia, LLC: The FCC-477 reports ending 6/30/2017 confirm that Verizon is the only DSL provider in Culpeper County, VA. The maps within this grant proposal illustrate that VABB will not use this VATI funding to expand services to a Verizon DSL served area.

Media Cable:

Comcast Cable Communications, LLC: The FCC-477 reports ending 6/30/2017 confirm that Comcast is the only cable provider in Culpeper County, VA. The maps within this grant proposal illustrate that VABB will not use this VATI funding to expand services to a Comcast served area.

Fiber-Optic Cable:

Verizon Virginia, LLC: The FCC-477 reports ending 6/30/2017 confirm that Verizon is the only Fiber-optic “FiOS” provider in Culpeper County, VA. The maps within this grant proposal illustrate that VABB will not use this VATI funding to expand services to a Verizon FIOS served area.

Attachment 2 - Existing Provider Maps- Descriptions

The first "Existing Provider" map was derived from The Virginia Broadband Availability Map. This is an interactive map that allows users to search by address or locality to identify where broadband services may be available and which providers are providing service in the area. The data behind the map comes from the Federal Communications Commission (FCC) which receives data directly from the broadband providers. CIT and their partners, Virginia Tech's Center for Geospatial Information Technology (CGIT) and Virginia Information Technology Agency's Virginia Geographic Information Network (VGIN), maintain and update the map as part of an ongoing effort to provide technical assistance to local governments and state agencies to expand broadband capacity and access and improve utilization.

The second map was generated from www.broadbandnow.com. According to the site creators "We've spent years, collecting and analyzing internet providers coverage and availability to make the most accurate zip code search available. Our goal is to give you an all-inclusive answer to the question of: "What internet providers are available in my area or at my address?" To answer this question, the system behind BroadbandNow analyzes more than a billion rows of governmental and proprietary data before showing you results specific to your area."

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The third map shows the REC served areas and highlights the area of this project proposal. While not an ISP and not planning to deliver internet service, REC may install an extensive fiber network in their service areas in the future. This fiber could be used by ISP's to deliver internet service, but the areas identified in this VATI application as in need of middle-mile infrastructure would not be duplicated in a future REC fiber build. The ability to create a fiber exchange and tie into the proposed REC fiber network would help Culpeper to reach approximately 80% of the rural residents with last-mile builds in the future.

The fourth map shows the known fiber routes through Culpeper County. None are duplicated in this initiative and none offer last-mile services for our residents. They are essentially superhighways of information that bisect our counties but offer no internet services directly to our residents.

Attachment 3 - Documentation on CAF Funding Area- Description

The attached map shows the Culpeper, Madison, and Orange Counties are not receiving CAF II funding in the proposed project area.

Not only is the proposed area in Culpeper County NOT currently funded by Connect America Funding, but we have also enclosed an email from AT&T sharing that there are no future plans to extend rural services in Virginia using this source of revenue.

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 percent service overlap within the project area. Describe any anticipated service overlap with current providers within the project area. Provide specific information as to how you determined the percentage overlap. Label Attachment: Attachment 4 – Documentation Unserved Area VATI Criteria.

Answer:

The census blocks included in this proposal are FCC reported "unserved" and "underserved" census blocks 2004, 2003, 2005, 2010, 2011, 2006, 2007, 2009, and 1078

This application includes documentation derived from The Virginia Broadband Availability Map. This is an interactive map that allows users to search by address or locality to identify where broadband services may be available and which providers are providing service in the area. The data behind the map comes from the Federal Communications Commission (FCC) which receives data directly from the broadband providers. CIT and their partners, Virginia Tech's Center for Geospatial Information Technology (CGIT) and Virginia Information Technology Agency's Virginia Geographic Information Network (VGIN), maintain and update the map as part of an ongoing effort to provide technical assistance to local governments and state agencies to expand broadband capacity and access and improve utilization.

4. Provide the number of residential serviceable units in the project area(s). Describe the eligible premises that will be served by the proposed project and the basis for these projections.

Answer:

There are 46 serviceable units located in FCC reported "unserved" and "underserved" census blocks 2004, 2003,

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2005, 2010, 2011, 2006, 2007, 2009, and 1078. All of the units are located in contiguous census blocks to the east of Route 15 in Culpeper County. It is anticipated that an additional 87 units are eligible for service with the proposed infrastructure upgrades. These units are located in areas currently reported as "served" by the FCC and are therefore contestable under the current VATI grant program guidelines. We have not included any units that could be contested due to their claimed census block in our proposal numbers for this reason even though we know many are without access to internet services at this time.

5. Indicate the numbers of businesses and community anchor institutions the proposed project will pass in the project area. Also indicate the number of home-based businesses. Provide specific information.

Answer:

The Carver Center (owned by Culpeper County)

New Pathways Tech, Inc at Carver Center

Virginia Tech Cooperative Extension Agency at Carver Center

Virginia Tech 4H at Carver Center

George Washington Carver Alumni Museum at Carver Center

American Institute of Welding at Carver Center

Germanna Community College at Carver Center

Virginia State University at Carver Center

Cedar Mountain Battlefield (prospective future state park)

Willow Run Greenhouses

Halcyon Trucking

The Farmstand

Fairview Cattle and Grain

Tuscany Hall Event Center

Cedar Mountain Stone

Battle Park Farms

Meador Inn

United States Post Office- Locust Dale

Heartland Institute

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Inn at Willow Grove

Dogwood Assisted Living Facility

Orange County Emergency Operations

Orange County Public Schools

* Culpeper, Madison, and Orange Counties do not require business licenses for home-based businesses and the total number is unknown.

6. Understanding that projected take rates are an estimate, provide the anticipated take rate for the proposed service within one year of project completion and describe the basis for the estimate. Also detail all actions (e.g. marketing activities, outreach plan) to be implemented to reach the identified potential serviceable units within the project area.

Answer:

The anticipated take rate is 50% of the areas identified as "unserved" and "underserved" in the first year. Virginia Broadband, LLC. will be responsible for marketing services available to the serviceable units within the proposed project area. The utilize mailings, website, and social media to promote the services that will be made available using VATI grant funds. Following the completion of the open-access fiber route and the established sub-lease of strands to internet service providers, we anticipate that all the businesses and educational institutes located directly along Route 15 will become customers of the ISP partners of the DOT COM fiber route. The anticipated revenue from the fiber route will allow for subsequent connections to be made in the years following the 2020 VATI award.

7. 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:

Virginia Broadband, LLC will install the proposed 99' guyed structure on Culpeper County property. The tower will be available for use by Virginia Broadband, LLC and the equipment attached will be owned by Virginia Broadband, LLC. A draft MOU is attached (attachment 19) to this application stating that should Virginia Broadband, LLC no longer operate in Culpeper County the ownership of the equipment purchased utilizing VATI grant funds remains with Culpeper County.

Fixed Wireless Technology:

Virginia Broadband, LLC "VABB": The only Fixed Wireless Internet Service Provider (WISP) operating in Culpeper County, VA. There are no other WISPs broadcasting services into Culpeper County. This information is confirmed in the FCC-477' s reported coverage areas ending 6/30/2017.

Virginia Broadband, LLC "VABB" is a Wireless Internet Service Provider "WISP" utilizing fixed wireless technology in both unlicensed and licensed radio frequencies. Our mission since 2003 is to provide high-speed Internet to the un-served and under-served rural areas of Central and Eastern Virginia. VABB employees 14 full-time employees serving over 1,500 customers in 14 predominantly rural Virginia counties.

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8. Provide the proposed download and upload speeds for the project area. 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. 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:

25/5 and 50/10 plans will be offered within the service area. A shared bandwidth of 130/130Mbps will be used to deliver service. The technology used would be fixed wireless using 5ghz and TV whitespace radio equipment.

25/5 service is \$159.99 per month with no data limits

50/10 service is \$225.00 per month with no data limits

9. 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. Label Map: Attachment 5 – Propagation Map Wireless Project

Answer:

A 288-count fiber optic cable will be placed underground as opposed to along utility poles (i.e., aerial) to avoid the lengthy pole attachment process while reducing operating cost and hardening the infrastructure to facilitate Public Safety communications for first responders.

The fiber cable will be used for distribution and transport communications. The distribution fibers will facilitate serving future unserved areas along the route. The transport fibers will extend the Orange County Broadband Authority fiber network to the Equinix facility located in Culpeper. The Equinix facility is the region's carrier hotel and most Internet Service Providers (ISP) have a presence there. This connection will reduce future barriers to entry for ISP's to enter the DOT COM rural market and provide future service to the unserved residents and businesses.

The fiber optic cable will be placed in the underground conduit, with access available via a handhole approximately every 800 feet. The Conduit will be placed by trenching and directional boring methods. The handholes allow fiber construction workers to pull the fiber through the conduit during installation; the handholes also house future network taps and splice cases and are storage locations for slack loops (i.e., 100 feet of fiber that can be pulled if the fiber is cut).

10. Project Readiness

What is the current state of project development (e.g. planning, preliminary engineering, identifying easements/permits, final design, etc.)? Prepare a detailed project timeline or construction schedule which identifies specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Provide any Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) (drafts are allowable), letters of support, etc. The timeline should include all activities being completed within 12 months of contract execution with DHCD. Label Attachments: Attachment 6 – Timeline/Project Management Plan; Attachment 7 – Relationship between Applicant/Co-Applicant; Attachment 8 – Letters of Support;

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- 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, co-applicant, and any additional partners.
- iii. If applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality.

Answer:

Preliminary fiber route design has been completed along Highway 15. Contractors and Engineers have been selected by Orange County Broadband via a competitive RFP process. Once we have been notified of the grant award, our engineers will start reviewing the draft design. After the review process, the engineers will then walk and ride the route reviewing the critical areas (ROW, existing utilities, river crossings, and culverts) of construction and make necessary modifications to the preliminary plans. Within three months of the grant award notification, we will have all necessary drawings and permits to start construction. Easements will not be necessary because our plan is to install the fiber infrastructure inside the state Rights of Way.

Draft MOU included as attachment 16.

11. 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 percent of total project cost). The Funding Sources Table must be completed. Label Attachments: Attachment 9 - Documentation of Match Funding; Attachment 10 - Funding Sources Table;
 - i. For each element of matching funds in the description, indicate the type of match (e.g. 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:

REQUESTED VATI	\$1,046,245.00	79%
Orange County Cash Match	\$156,937.00	12%
Orange County In-Kind Match	\$19,500.00	1%
Culpeper County Cash Match	\$104,624.00	8%
Culpeper County In-Kind Match	\$1,568.00	0%
Total Project Cost	\$1,328,874.00	

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12. 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, easements, and other issues that may hinder or delay timely construction and increase cost. Provide detail if this project includes additional partners such as municipal providers, middle-mile providers, or investor-owned utilities

Answer:

Culpeper County and Orange County Broadband Authority will assume all administrative and management roles respective to this application. The fees established by the Virginia Department of Transportation are included in the overall project budget as are the fees respective to the Town of Orange, Virginia. The Town of Orange has not yet been asked to reimburse or waive the fees associated with this application but it is our intent to ask the Orange Town Council to do so. Orange County has recently issued an RFP and received competitive bids for the construction of phase II of their fiber build. Culpeper and Madison County will be able to "ride" these contracts and avoid the delay of issuing our own RFP for engineering and construction services.

At this time our intention is to begin the DOT COM build in the Town of Orange and head north toward Culpeper. If our project should meet the REC fiber build south of the proposed termination point along Lover's Lane in Culpeper County we could potentially save costs by decreasing the overall length of the middle mile fiber route.

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

Answer:

Lewis Foster, Broadband Program Manager, Orange County Virginia Broadband Authority

Lewis will be responsible for Project Management of the DOT COM fiber build. His relevant experience includes:

May 2019 – Present

Planning, directing, and coordinating the startup operation of the Broadband Authority. Overseeing the completion of the 33 mile "Open Access" fiber network and extending fiber connectivity to the new tower facilities that are currently under construction to support the new Public Safety P25 Radio System.

Broadband Manager, Columbia County Community Broadband Utility (C₂;BU)

May 2010 – April 2019

Planned, directed, and coordinated the startup operation of the Broadband Utility department. Duties and responsibilities included formulating policies and procedures, hiring and developing staff, acquiring equipment and services, forecasting revenues and expenses, making operational changes as needed, and expanding the network.

After two years of operation, C₂;BU was cash flow positive.

Developed and Implemented Broadband Emergency Operational Plan to keep public safety radio system operational during ice storm.

Planned and coordinated installation of seven communication towers.

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Negotiated Tower Collocation and Fiber Lease Agreements

Fiber Construction started on December 13, 2010 and network operations began on September 6, 2012.

Acted as BTOP stimulus grant project manager, duties included planning, executing and finalizing project according to a strict deadline and within budget. This includes acquiring resources and coordinating the efforts of team members and third-party contractors and consultants to deliver project according to plan.

Developed BTOP application and received \$13.5 million BTOP grant from Department of Commerce on March 2, 2010.

Information Technology Manager, Columbia County Board of Commissioners

September 1985 – May 2010

Primary responsibility was to oversee the operation of the IT department and to ensure it aligned with the business objectives of the County.

Worked closely with decision makers in other departments to identify, recommend, implement, and support cost-effective technology solutions for the County.

Information Technology Departmental Awards Received

2010 - Annual Digital Counties Survey Top Ten population less than 150,000

2009 Best of the Web Results - Finalist

2009 Annual Digital Counties Survey Top Ten population less than 150,000

2006 Best of Georgia Technology Awards Demonstrated Leadership in Management of Information Technology

2005 Best of the Web Results - Finalist

2003 Best of the Web Results - 3rd Place

Best E-Government Sites - Graded A tied for 2nd place population 50,000 - 250,000

Laura Loveday, Special Projects and Grants Administrator, Culpeper County

Laura will be responsible for Project Administration of the DOT COM VATI grant. Her relevant experience includes:

Oct 2017 – Present

Facilitator between County Administration and Economic Development to promote Culpeper quality of life initiatives. Applies for and maintains grant opportunities, implements long-term goals and objectives.

Culpeper County Comprehensive Planner, Culpeper County

Dec 2004 – Sept 2017

Responsible for writing the Comprehensive Plan (2010 & 2015), applying for and maintaining grant opportunities, implementing long-term goals and objectives.

Stephanie Straub, Director of Management Services and Assistant Public Information Officer, Orange County

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Stephanie will be responsible for Fiscal Oversight of the DOT COM fiber build. Her relevant experience includes:

2012- Present

Responsible for procurement and contract management. Builds and maintains cross-departmental relationships throughout the organization and the community to enhance the public's experience working with local government.

Currently leads and manages multi-departmental projects with specific attention to broadband projects as they relate to the Digital Citizen Initiative.

Tracey Gardner, Economic Development & Tourism Director, Madison County

Tracey will be the project liaison for Madison County respective to the DOT COM fiber build.

14. 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. Label Attachment: Attachment 11 – Derivation of Costs; Attachment 12 - Documentation of Supporting Costs; Attachment 13 – Supporting Documentation of Cost Estimates.

Answer:

Product	Total	VATI	Non-VATI	Source of Estimate
Construction 18 Miles of fiber	\$ 1,192,752	\$ 954,202	\$ 238,550	quote per mile Computer Cat Technology S
Permits VDOT and Town or Orange	\$ 17,554	\$ 14,044	\$ 3,511	VDOT and Town Orange
Engineering	\$ 54,500	\$ 43,600	\$ 10,900	Vantage Point
Inspection	\$ 20,000	\$ 16,000	\$ 4,000	Vantage Point
99' guyed structure and wireless equipment	\$ 23,000	\$ 18,400	\$ 4,600	Virginia Broad
Project Management In-Kind	\$ 19,500		\$ 19,500	Orange Count Broadband At
Grant Administration In- Kind	\$ 1,568		\$ 1,568	Culpeper Cou
Total	\$ 1,328,874	\$ 1,046,245	\$ 282,629	

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15. 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. Please provide the following three pieces of information:

- a. Total State funding requested / Total Project cost
- b. Number of serviceable units
- c. Highest residential speed available

Answer:

- a. \$1,046,245.00/
- b. 46
- c. 50/10

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

Answer:

Orange County has just completed (July, 2019) a 33 mile fiber installation connecting all of the counties schools and emergency operations towers. The project was funded with more than \$1,000,000 in ERate grant funds and local investments. This project was managed by Stephanie Straub, Director of Management Services and Assistant Public Information Officer for Orange County. The Orange County Broadband Authority hired a Broadband Program manager, Lewis Foster, in May of 2019 to continue efforts to build open-access fiber networks and apply for and manage grants related to technology initiatives in Orange County.

Culpeper County has an extensive grant award history including an award of \$75,000 from the FY2015 DHCD Telecommunications and Broadband grant. This grant allowed Culpeper County to conduct a Comprehensive Broadband Assessment of our current and future needs. The 2016 Culpeper County Broadband Plan identified existing broadband and telecommunication options and costs across the community. The Plan allowed us to identify potential areas for partnerships between the County and incumbent providers, and evaluate key issues limiting broadband expansion. Culpeper County now has a plan in place that includes microspots and middle mile open-access fiber as a broadband strategy. Working with a local wireless internet service provider creates the greatest opportunity to implement a network that is capable of meeting current and long-term community needs.

Madison County has previously applied for a VATI grant in partnership with Madison Gigabit that was not awarded. The Madison County Board of Supervisors issued an RFP for broadband partners to develop a VATI grant for the 2020 funding cycle but ultimately decided that partnering in the DOT COM application was the best place to start. Future last-mile VATI applications are anticipated utilizing the middle mile fiber proposed in this project.

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In 2017, Virginia Broadband, LLC was named one of ten companies worldwide to be awarded the Microsoft Affordable Access Initiative grant (MS-AAI). (<https://www.microsoft.com/en-us/affordable-access-initiative/winners>). The grant focuses on ways to deliver innovative Internet and energy access solutions to underserved communities around the World. Virginia Broadband was a project partner in a successful VATI grant application made in 2018 along with Culpeper County. Unfortunately, due to changes in company management that VATI grant award was declined and the last mile project was determined to be unfeasible. The 2020 VATI DOT COM application is much smaller in scale respective to the Virginia Broadband, LLC contribution (\$23,000 of the total grant project) and reaching a smaller number of units in a smaller geographical area than the proposed 2018 project design. Virginia Broadband, LLC is committed to the project and a successful outcome should this grant be awarded.

17. Commonwealth Priorities

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. Please describe if the project fits into a larger locality or regional universal broadband plan.

Answer:

The portion of this project proposed in Orange County is wholly located within opportunity zone Orange 51137110200. "Opportunity zones are an important federal tool to spur vitality in economic growth in communities across Virginia and we are committed to using them fully in this administration," said Governor Northam. "By focusing on local and regional strategies, as well as Virginia's diverse geography and economic opportunities, we selected a balance of zones that align with other state and local economic development and revitalization efforts. This ensures that Virginia is at the forefront of attracting new Opportunity fund investments."

Without access to high speed, fiber-based internet service the economic development potential of the Orange Opportunity zone will not be attained.

In the spring of 2016, Culpeper County and the Town of Culpeper were awarded a Virginia Department of Housing and Community Development (VATI) grant to assess current and future broadband needs, evaluate current broadband service offerings, costs, and availability in the town and the county, identify public/private partnership opportunities with service providers, assess market demand and recommend a comprehensive list of strategies to improve broadband connectivity. The Carver Center was identified as one of three projects that Culpeper County should pursue for a telecommunication construction project in future VATI applications. The plan included an estimate for a fiber build to the Carver Center as well as the following statement:

"Government and Education facilities throughout Culpeper require secure, reliable internet connections. The Carver-Piedmont Agricultural Institute may be a candidate for grant funding in order to facilitate the extension of internet service to this facility."

The 2015 Culpeper Comprehensive Plan describes the Carver Center as being a site where public investment in internet services would be encouraged.

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While no formal regional broadband plan exists for this part of central Virginia it is critical that middle-mile infrastructure is added to the region. Without middle mile assets, it will be very difficult for the localities taking part in this application to capitalize on funding available for last-mile connections in Virginia.

18. Additional Information

Any other equitable factor 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 – Copy of Public Notice
- c. Attachment 16 – XXXXXXXX
- d. Attachment 17 – XXXXXXXX
- e. Attachment 18 – XXXXXXXX
- f. Attachment 19 – XXXXXXXX

Answer:

- a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 15 – Copy of Public Notice
- c. Attachment 16 – Draft Memorandum of Understanding DOT COM partners
- d. Attachment 17 – Responses to Public Notice
- e. Attachment 18 – Press Releases
- f. Attachment 19 – MOU VABB and Culpeper County

Attachments:

Optional

Attachment16DRAFTMemorandumofUnderstanding8272019101402.pdf

Optional

Attachment17ResponsestoPublicNotice91201942630.pdf

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Optional

Attachment18Press91201942826.pdf

Optional

Attachment19MOUVABBandCulpeperCounty91201950730.pdf

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMap717201913405.pdf

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

Attachment2ExistingProviderMap7172019110313.pdf

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

Attachment3DocumentationonCAFFundingArea7172019104544.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment4DocumentationUnservedAreaVATICriteria7172019104247.pdf

Propagation Map if Wireless Project

Attachment5PropagationMapWirelessProject731201912227.jpg

Project Management Plan

Attachment6TimelineProjectManagementPlan827201983727.pdf

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

Attachment7RelationshipbetweenApplicantCoApplicant91201935715.pdf

Letters of Support

Attachment8LettersofSupport91201935252.pdf

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

Attachment9DocumentationofMatchFunding91201934616.pdf

Application to DHCD Submitted through CAMS

Culpeper County

Delivery of Technology - Culpeper, Orange, Madison (DOT COM)

Funding Sources Table

Attachment10FundingSourcesTable91201940859.pdf

Derivation of Cost (Project Budget)

Attachment11DerivationofCosts91201934305.pdf

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

Attachment12DocumentationofSupportingCosts8292019113723.pdf

Supporting documentation for costs estimates

Attachment13SupportingDocumentationofCostEstimates812019114428.pdf

Two most recent Form 477 submitted to FCC

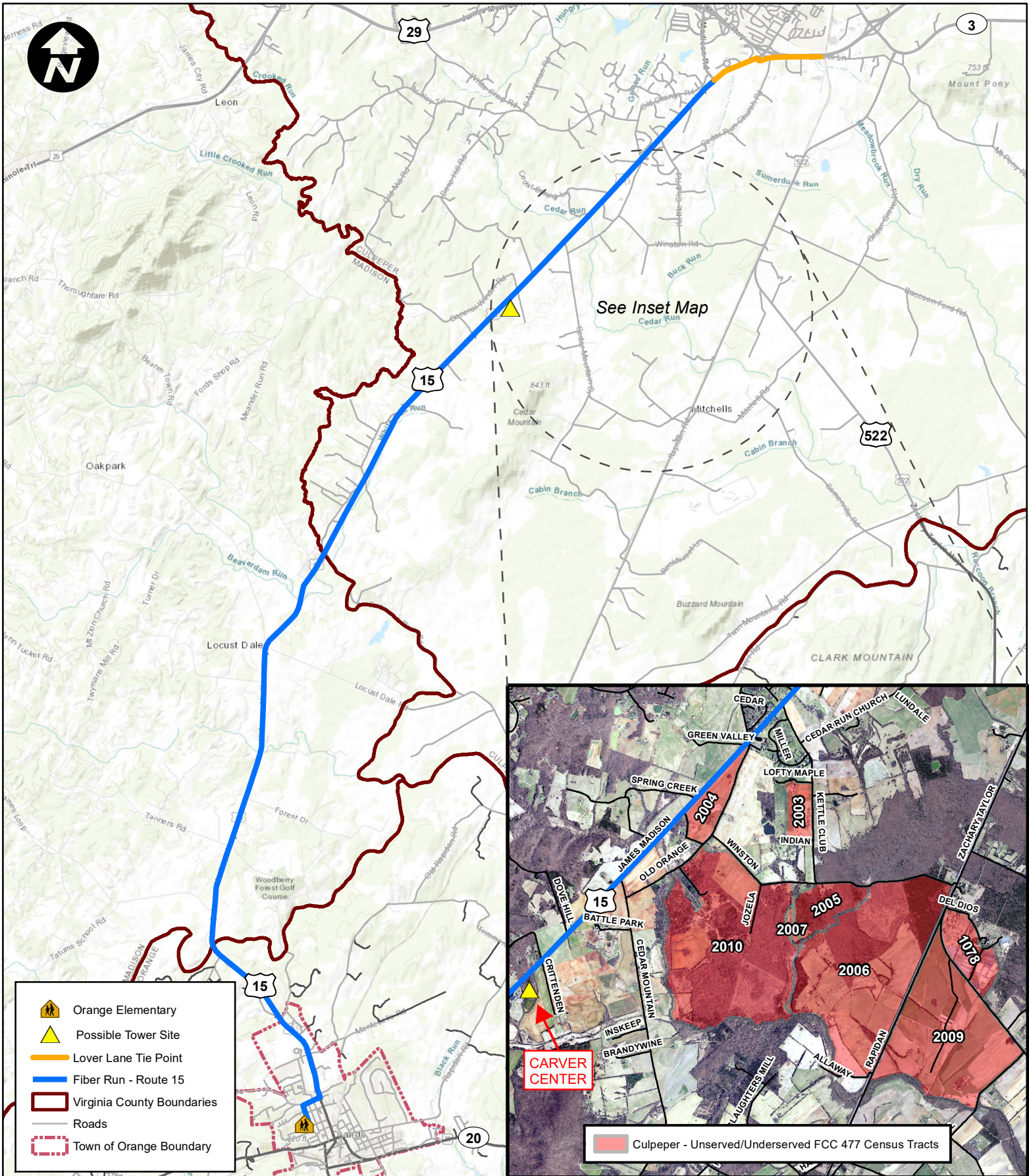
Attachment14TwomostrecentForm477submittedtotheFCCCorequivalent827201981949.pdf

Copy of Public Notice

Attachment15CopyofPublicNotice731201912616.docx

Notes:

While the overall feedback regarding this application has been positive there was a concern raised by the American Battlefield Trust regarding the visual impact of a 99' guyed structure (Attachment 17- responses to public notice). Should this application be awarded, Culpeper County is committed to being sensitive to the concerns of the Friends of the Cedar Mountain Battlefield and the American Battlefield Trust. We believe that the proposed structure location at the Carver Center will not cause a visual impact on the battlefield and are pleased that reliable internet service would also prove beneficial to the prospective state park. The construction of the 18 mile fiber route will be contained to the state maintained ROW in Culpeper County and the contractors selected will be made aware of the historic and cultural significance of the Route 15 corridor.



Orange County GIS

Gordon Building
112 West Main Street
P.O. Box 111
Orange, VA 22960

**FIBER INSTALLATION - ROUTE 15
DELIVERY OF TECHNOLOGY - CULPEPER, ORANGE & MADISON
VIRGINIA TELECOMMUNICATIONS INITIATIVE GRANT**

COMMISSIONED LF & LL
DRAWN JHW
DATE 07/17/19

**OCBbA
AGENDA ITEM**

FIGURE
1



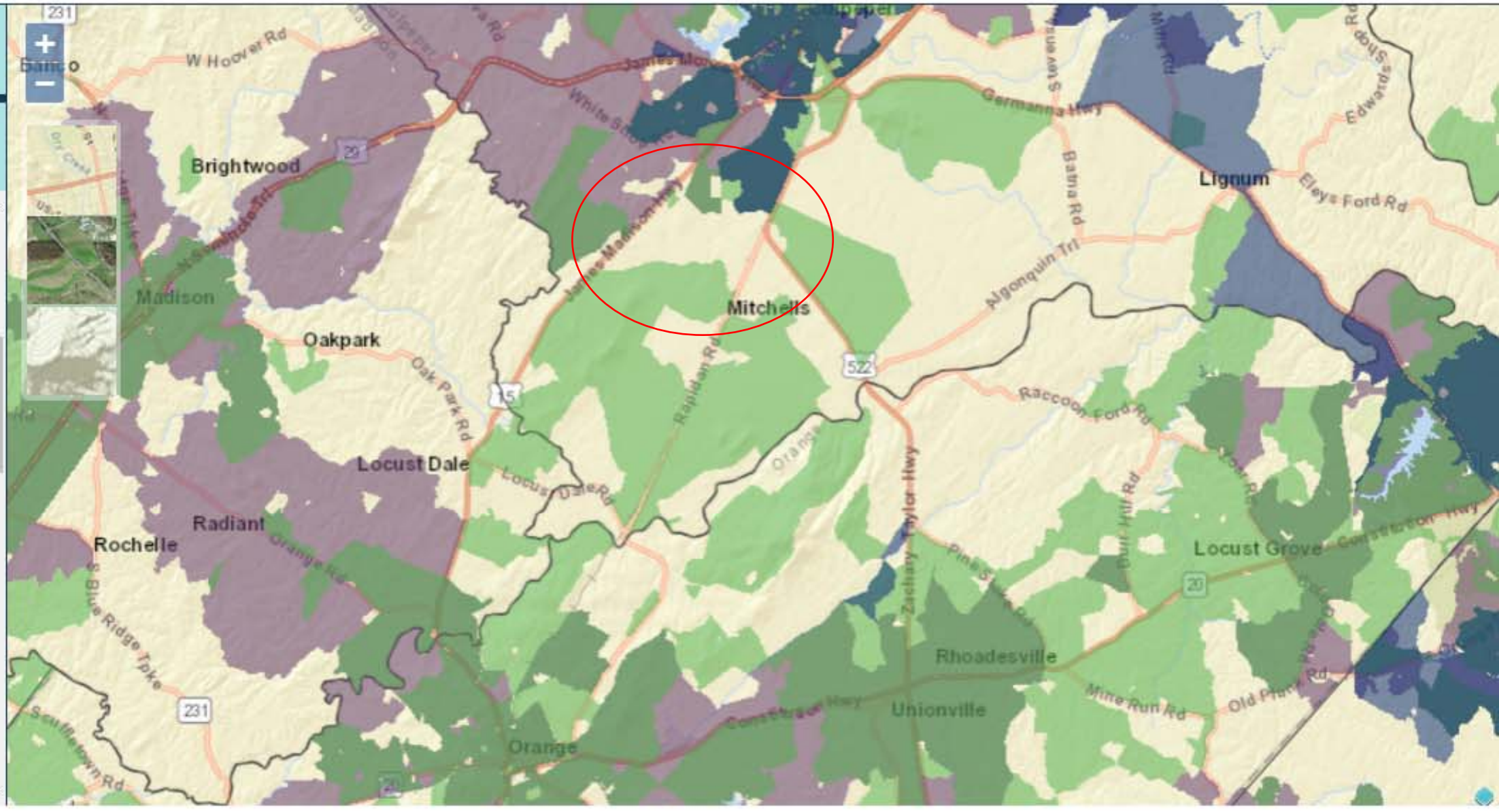
Virginia Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox

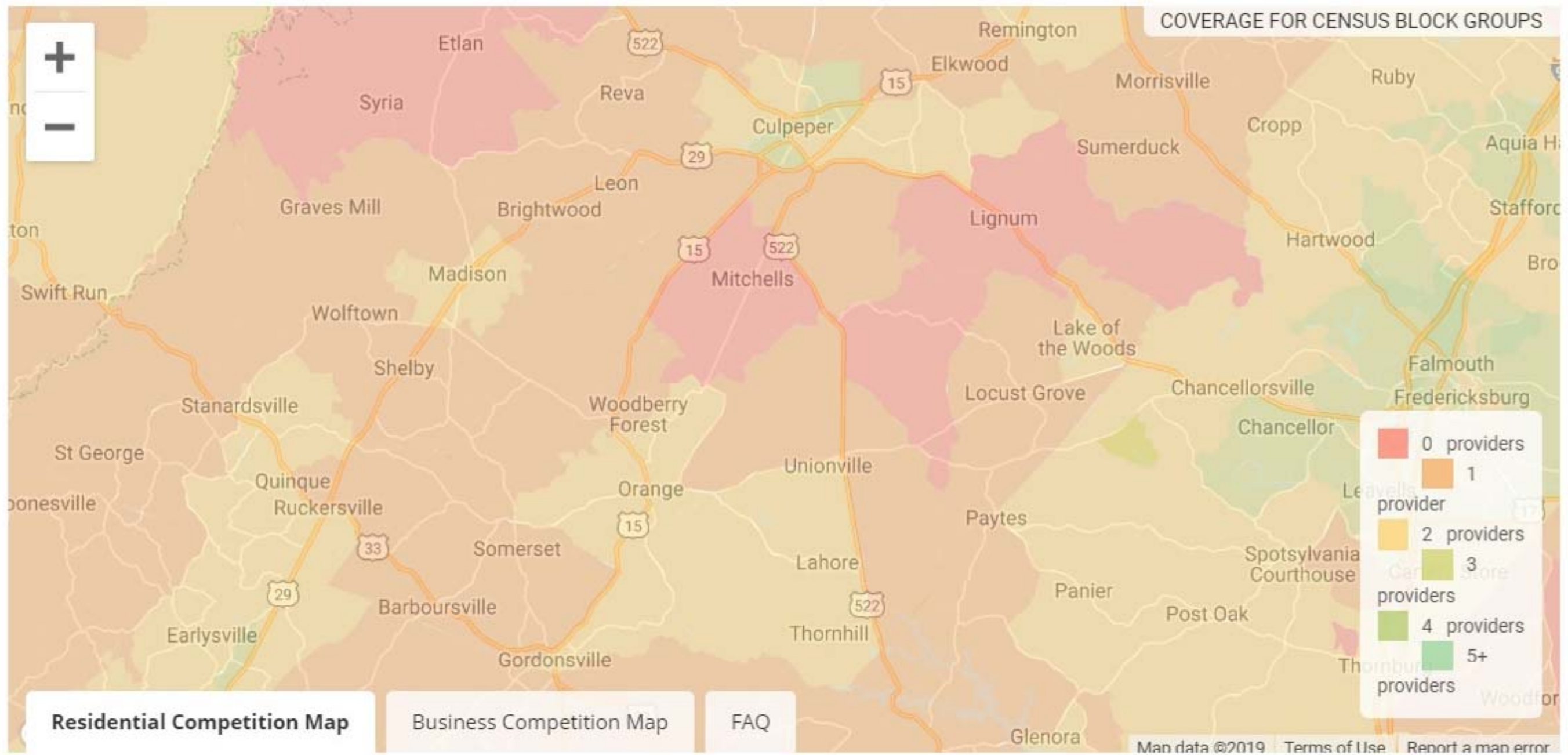


Home About Sponsors News

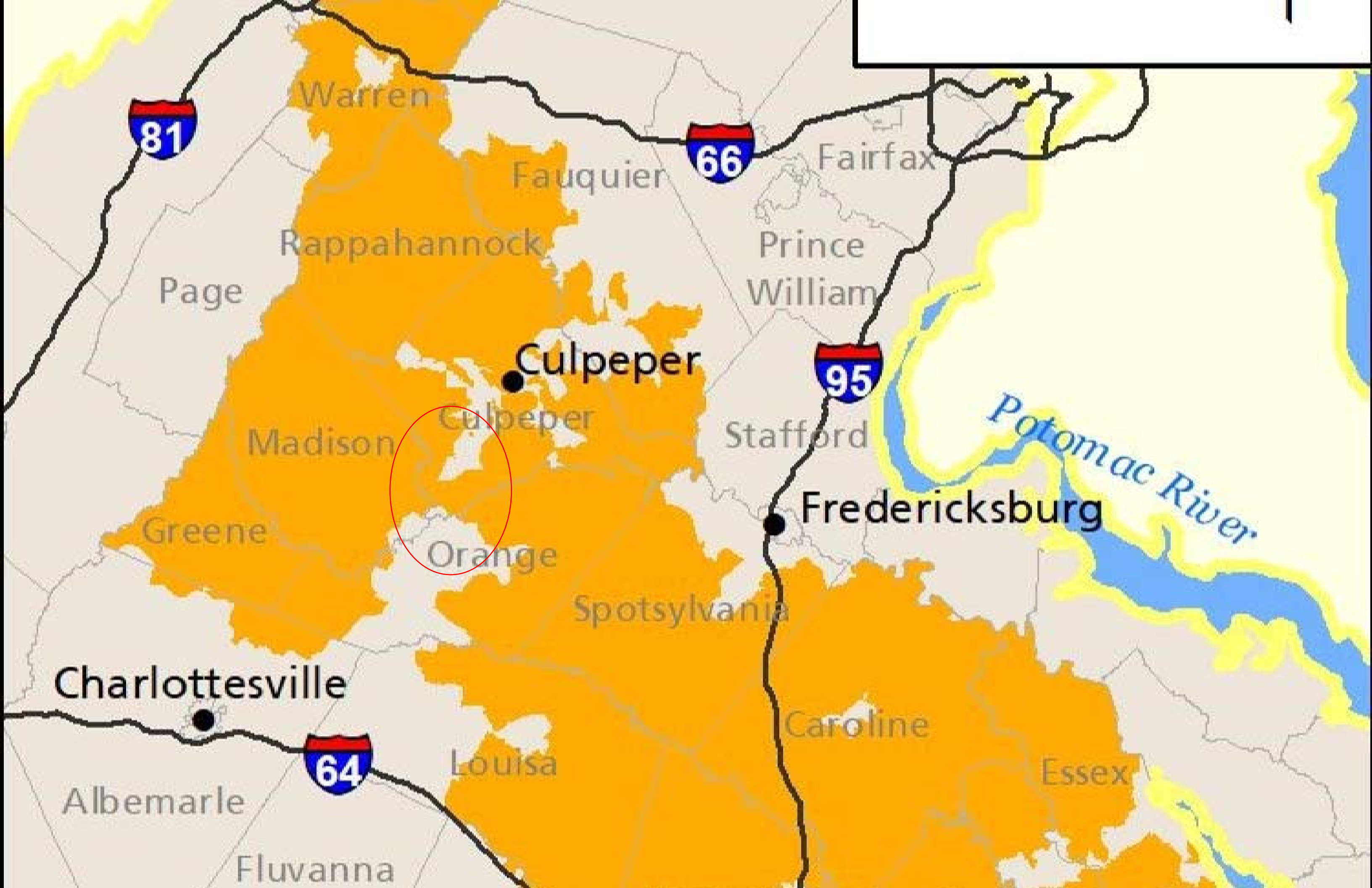


- Cities/Counties
- Cable Wireline Coverage (Dec. 2017)
- DSL/Copper Coverage (Dec. 2017)
- Fiber Optic Coverage (Dec. 2017)
- Fixed Wireless Coverage (Dec. 2017)
- Mobile Wireless Coverage (Dec. 2016)
- 4G/LTE Wireless Coverage (Dec. 2016)
- Satellite Coverage (Dec. 2017)
- Underserved Areas
[greater than 10 Mbps download and 1 Mbps upload and less than 25 Mbps download and 3 Mbps upload] (Dec. 2017)
- Unserved Areas
[below or equal to 10 Mbps download and 1 Mbps upload] (Dec. 2017)





Map was generated at www.broadbandnow.com. Zero providers are shown in the areas in which this project is proposed.



Warren

81

Fauquier

66

Fairfax

Rappahannock

Prince William

Page

Culpeper

95

Madison

Culpeper

Stafford

Potomac River

Greene

Orange

Fredericksburg

Spotsylvania

Charlottesville

64

Caroline

Albemarle

Louisa

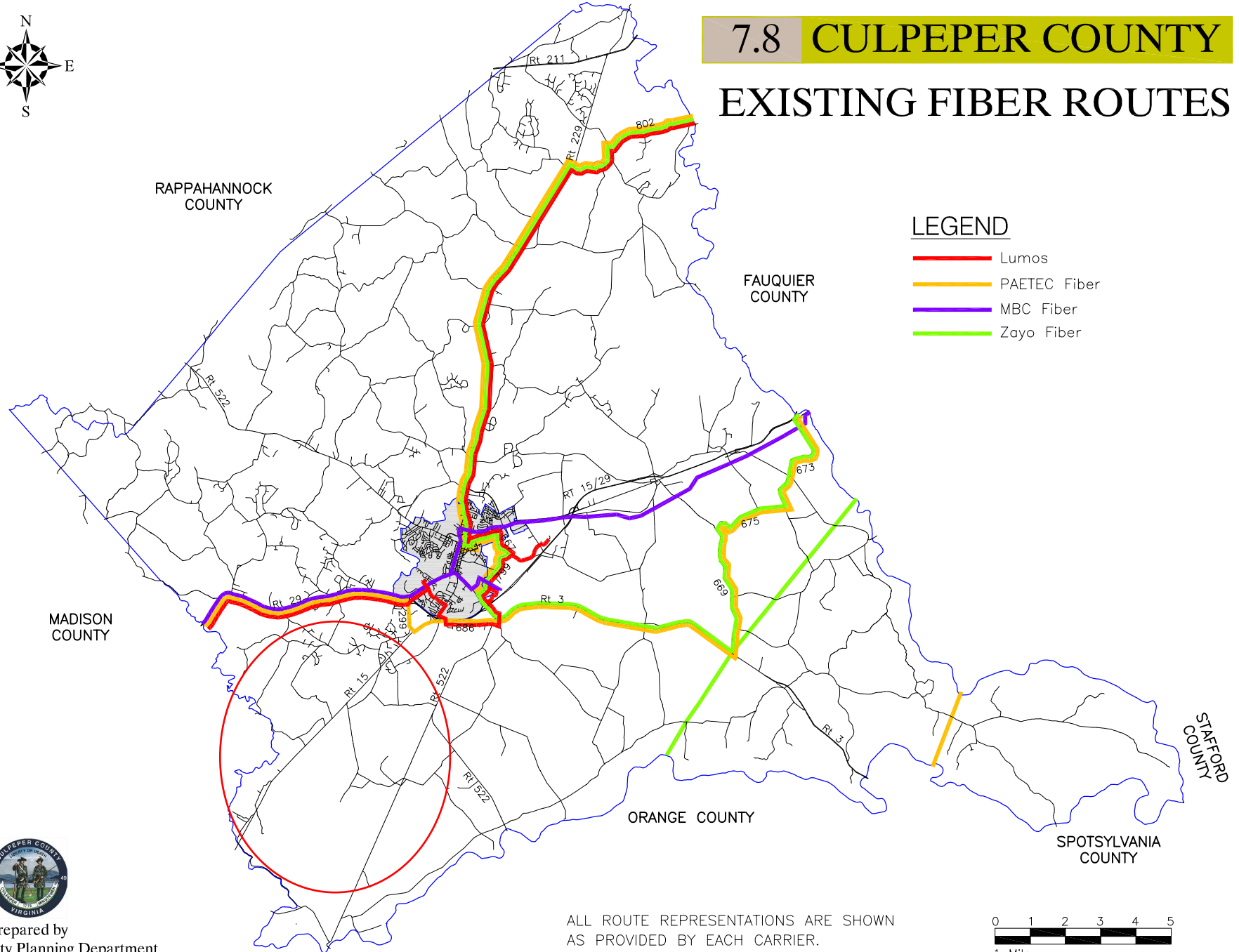
Essex

Fluvanna



7.8 CULPEPER COUNTY

EXISTING FIBER ROUTES

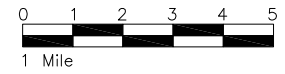


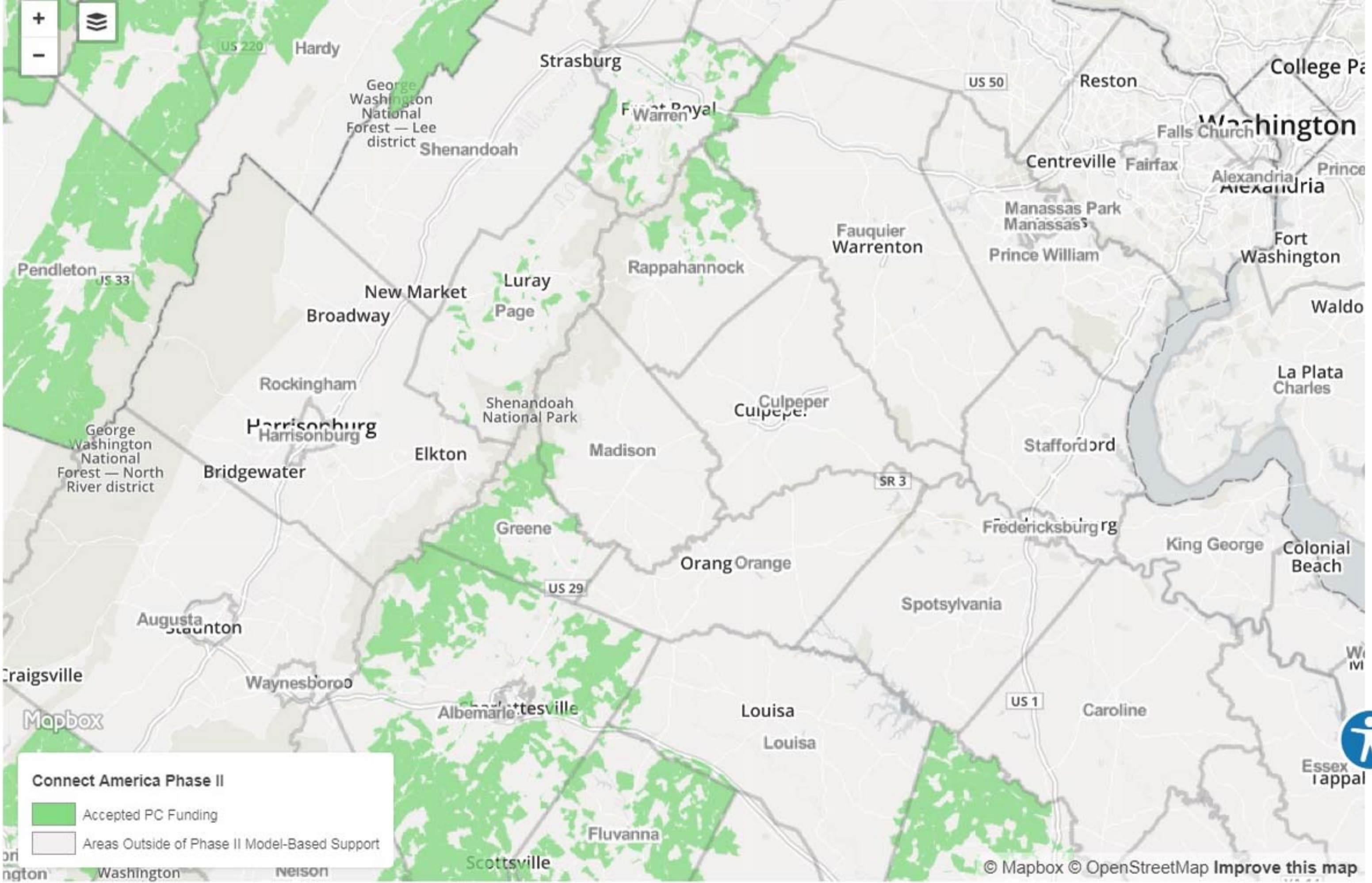
- LEGEND**
- Lumos
 - PAETEC Fiber
 - MBC Fiber
 - Zayo Fiber



Prepared by
Culpeper County Planning Department

ALL ROUTE REPRESENTATIONS ARE SHOWN
AS PROVIDED BY EACH CARRIER.





Connect America Phase II

-  Accepted PC Funding
-  Areas Outside of Phase II Model-Based Support

LAURA LOVEDAY

From: ROBBINS, BILL S <wr7215@att.com>
Sent: Tuesday, August 01, 2017 11:12 AM
To: LAURA LOVEDAY; VAMOS, JOSE L
Subject: RE: Culpeper County Virginia AT&T Rural Internet Access trial

Categories: AT&T Trial

Hi Laura:

AT&T has launched the Fixed Wireless Internet product targeting rural areas in GA, AL, FL, KY, MS, NC, SC, TN and LA. This initiative is part of the FCC's Connect America Fund program.

At this time there are no plans to include Virginia in the Fixed Wireless Internet rollout. If that changes, I'll let you know.

Thanks again for all your help with the 2015 trial.

-Bill

From: LAURA LOVEDAY [mailto:LLOVEDAY@CULPEPERCOUNTY.GOV]
Sent: Tuesday, August 01, 2017 9:42 AM
To: ROBBINS, BILL S <wr7215@att.com>; VAMOS, JOSE L <JV1781@att.com>
Subject: RE: Culpeper County Virginia AT&T Rural Internet Access trial

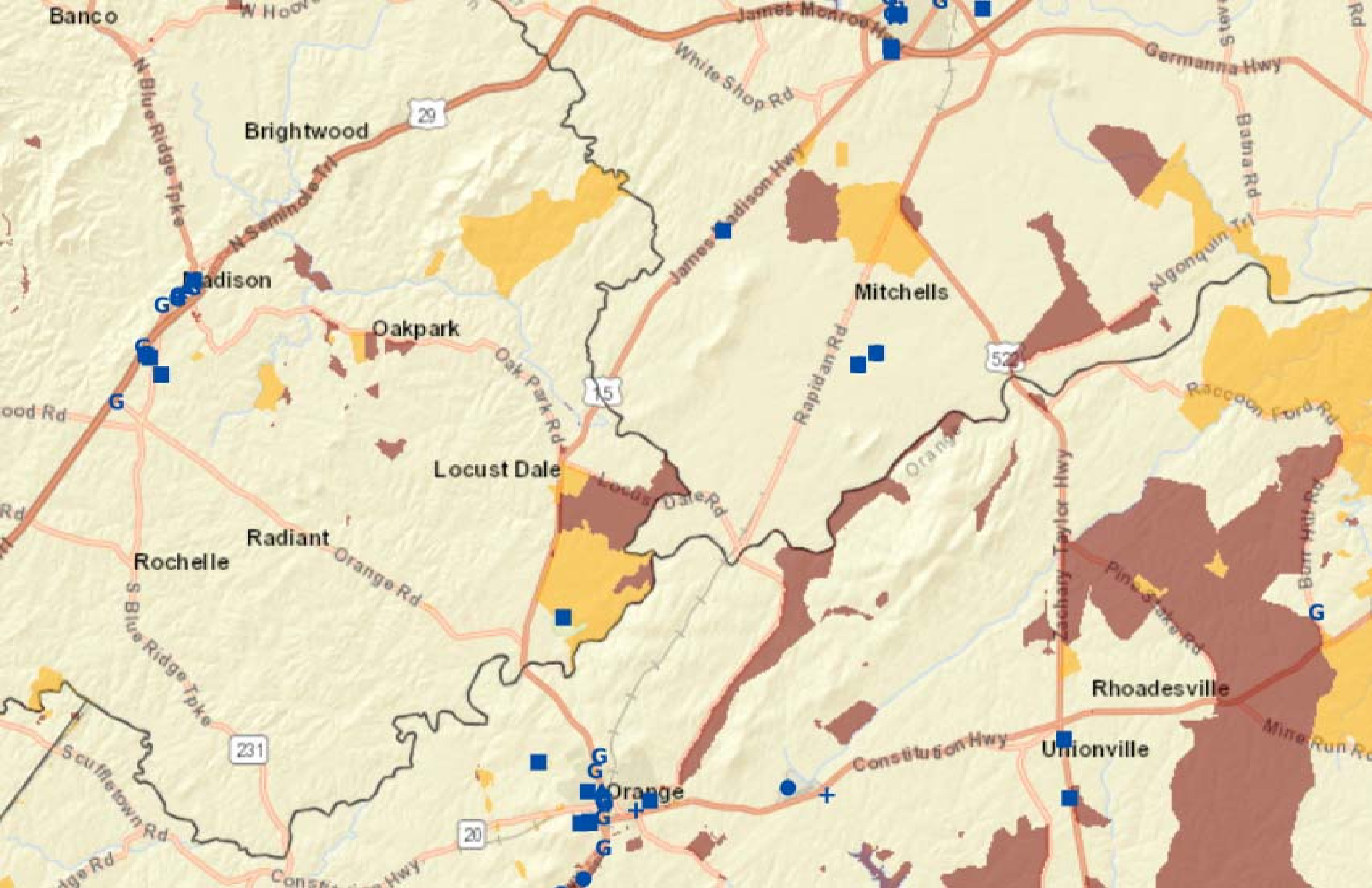
Hello Bill and Jose,

I have been thinking about the 2015 Rural Broadband Trial that took place in Culpeper County. Is there any update on the findings from the study? At the time we met Jose at our library I remember you saying that new rural access internet options would take approximately 2 years to be offered to the market. Is this still the case? Has At&T changed its opinion on rural broadband deployment? Thanks so much!

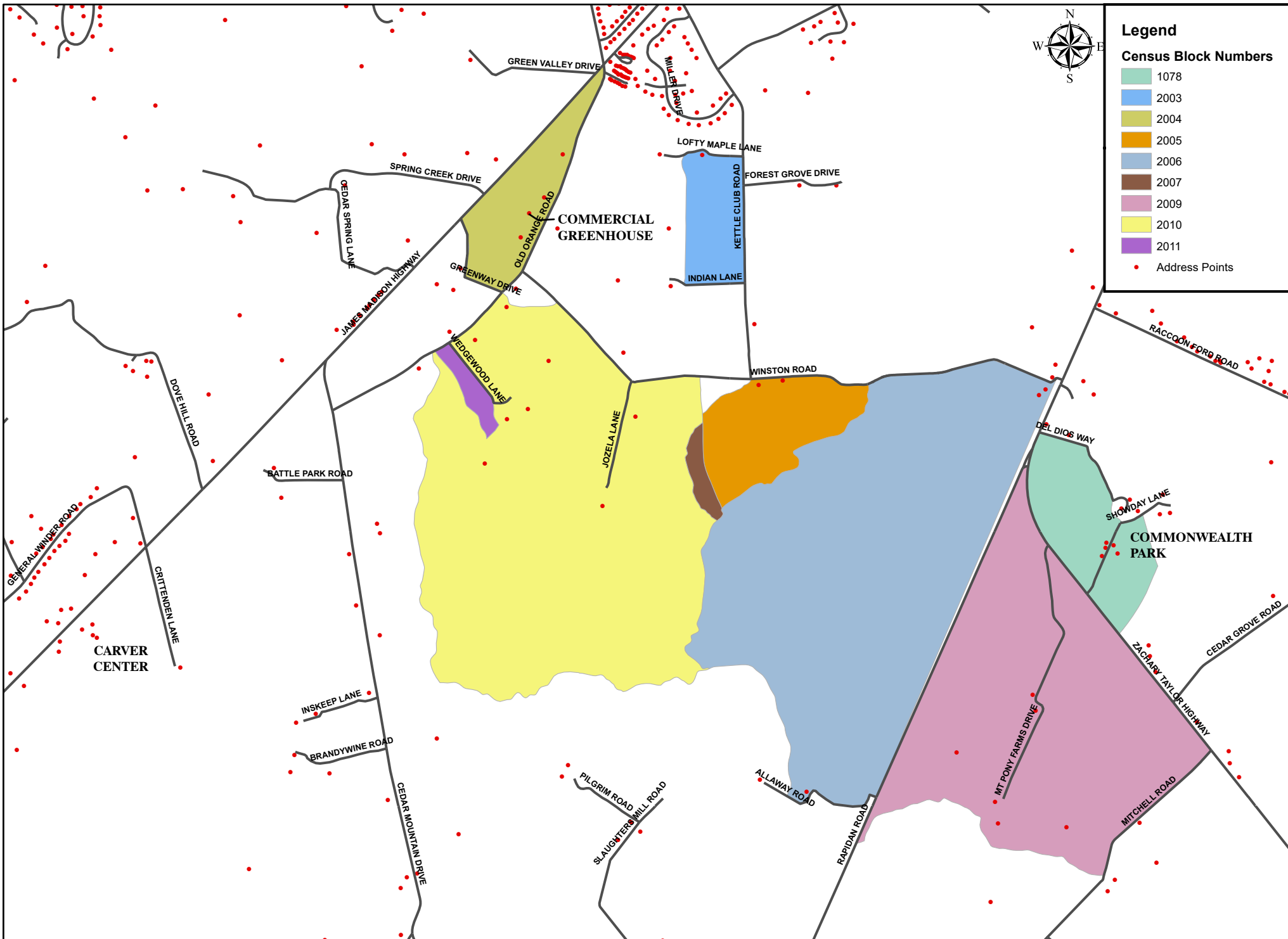
-LL

Laura Loveday, AICP
COMPREHENSIVE PLANNER
302 N. Main St. Culpeper, VA 22701
o. 540-727-3404
f. 540-727-3461
lloveday@culpepercounty.gov

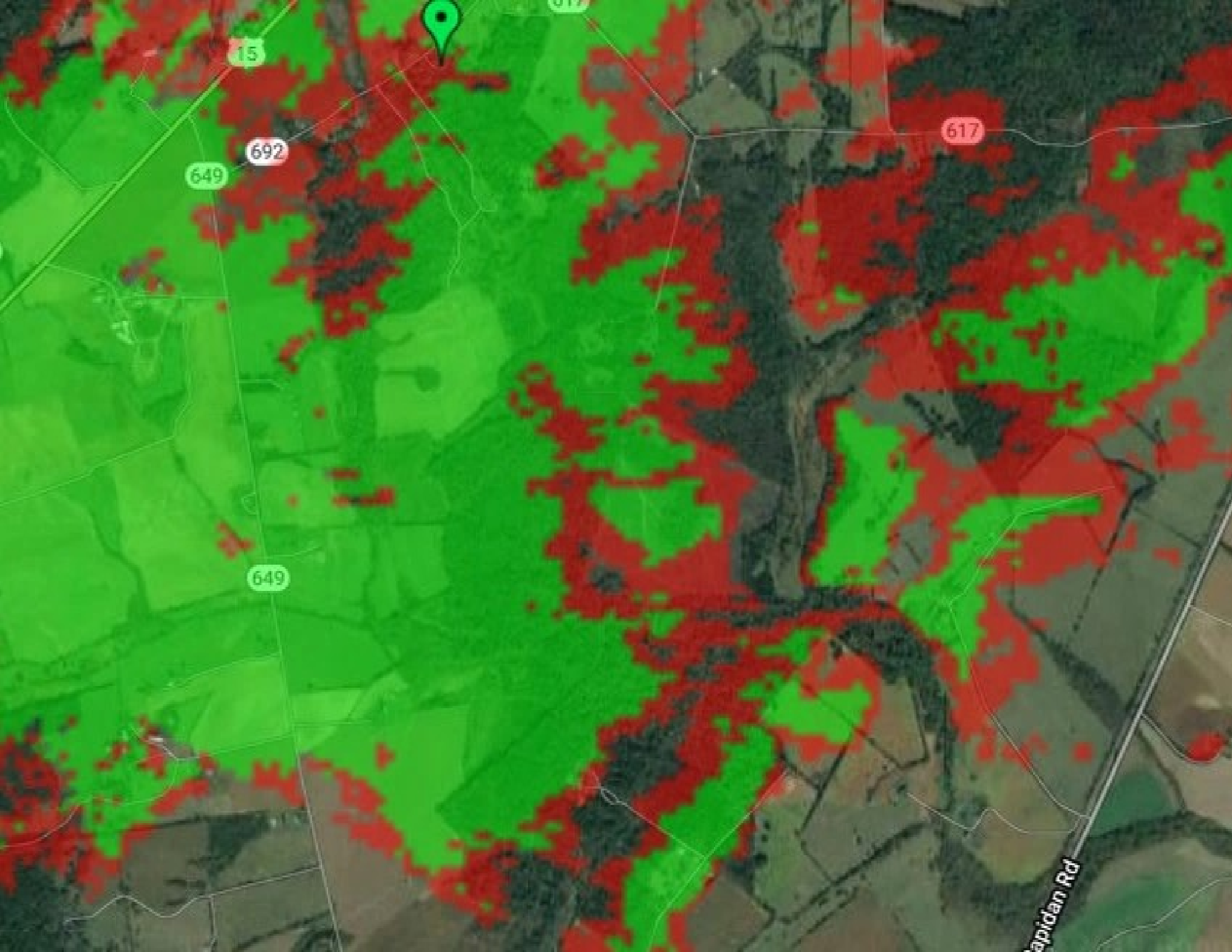
"When you can't change the direction of the wind, adjust your sails." - H. Jackson Brown Jr.



Culpeper County Unserved and Underserved Census Blocks



Note: As reported on the Virginia Broadband Availability Map and Integrated Broadband Planning and Analysis Toolbox, FCC filing Dec. 2017



15

692

649

617

617

649

Lapidan Rd



**Laura Loveday, AICP
Special Projects and
Grants Administrator**

302 N. Main Street, Culpeper, Virginia 22701
Phone: (540) 727-3404 Mobile: (571) 239-3605
E-mail: lloveday@culpepercounty.gov

August 30, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- Documentation of relationship
between applicant and co-applicant

Dr. Holmes,

Virginia Broadband (VABB) and Culpeper County have an existing relationship whereby internet services are being provided to the county in select locations in exchange for vertical space on county owned assets. In addition to this partnership, Culpeper County is also a customer of Virginia Broadband at our local airport. Virginia Broadband currently serves residents in Culpeper, Orange, and Madison Counties, as well as other parts of the state. Specific to this proposal the relationship is as follows:

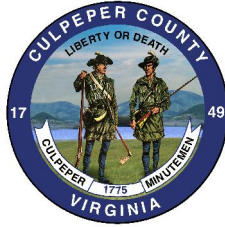
VABB will utilize \$23,000 of the grant funds awarded by VATI to construct a 99' guyed structure at The Carver Center. A county owned vocational and agriculture education facility located on Route 15 in Culpeper County. The structure will include necessary wireless equipment to provide broadband service to the residents identified on the project proposal map. VABB will be responsible for the physical roles associated with this aspect (99' structure and wireless equipment) of the proposal only. VABB will not construct the middle mile fiber build but may become a user of this open access fiber upon completion.

Culpeper County will provide \$104,624 cash to match the funds awarded by VATI, in addition, they will be responsible for the administration of the grant award. Orange County will provide \$156,937 cash to match the funds awarded by VATI, in addition, they will be responsible for the project management and fiscal oversight of the construction of the middle mile fiber route.

Sincerely,

Laura B. Loveday

Laura Loveday, AICP
Culpeper Special Projects and Grants Administrator



**John C. Egertson, AICP
County Administrator**

302 N. Main Street, Culpeper, Virginia 22701

Phone: (540) 727-3427

E-mail: jegertson@culpepercounty.gov

August 30, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology –
Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

I am writing to confirm the support and partnership of Culpeper County for the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

The Culpeper County Board of Supervisors has agreed to contribute \$104,624.00 cash match to the project in addition to \$1,568.00 in-kind match for project administration. Without open access middle mile fiber, Culpeper will be unable to reach the rural residents most in need of internet access. In the future we intend to work with private partners and our rural electric cooperative to build last mile connections in order to serve additional rural residents from this necessary and timely regional asset.

Sincerely,

A handwritten signature in cursive script that reads "John Egertson". The signature is written in black ink and is positioned below the word "Sincerely,".

John Egertson, AICP, County Administrator

August 8th 2019

Tamarah Holmes, Ph.D.

Associate Director of Policy and Strategic Development

Virginia Department of Housing and Community Development

600 East Main Street, Suite 300

Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dr. Holmes,

We are writing to convey my support and committed partnership regarding the application submitted by Culpeper, Madison and Orange Counties. This project is known as "DOT COM" and will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. Upon award, Virginia Broadband, LLC. will install a grant funded 99' guyed structure at the Carver Center in Culpeper County. Wireless infrastructure will be added to that structure using grant funds in order to increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As we understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Virginia Broadband (VABB) Was founded in 2003 with the mission to bring effective internet connections to rural areas in the commonwealth of Virginia. VABB currently uses wireless and optical fiber technology to bridge the digital divide and empower rural residents, businesses and institutions with low latency high speed internet. With over 15 years of consistent service to our communities VABB takes pride in building a solid in-house network that can withstand the ever-increasing demands of internet applications and modern life. VABB uses proven equipment, sound engineering and employs locally in-house for construction and service of every project. VABB has completed grant projects in the past including recently a partnership with Microsoft's Airband initiative to install 9 new wireless Broadcast locations in Culpeper and Madison county.

In our deployments and feasibility studies we consistently find that the most restricting factor in rural service deployment remains the limited access to middle mile fiber connections. The construction of open access fiber along Rt. 15 would not only allow to us connect the area just around the road. It would also open new avenues for high-speed data into this deeply rural area where wholesale fiber access is unaffordable or non-existent. It would also allow for us to use new technologies that can deliver faster connections not physically possible to achieve using wireless connectivity alone.

The ability to act as the ISP for last mile connections utilizing the DOT COM middle-mile fiber build is an opportunity we are looking forward to as we continue to serve and connect the residents of Culpeper, Orange, and Madison Counties.

Sincerely,

Garrett Shankle

Director of Technology

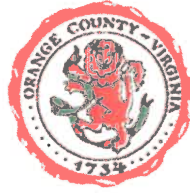
Virginia Broadband LLC

ORANGE COUNTY, VIRGINIA

BROADBAND AUTHORITY

S. LEWIS FOSTER
BROADBAND PROGRAM MANAGER

PHONE: (540) 661-5332



127 BELLEVIEW AVENUE
LOWER LEVEL
P. O. BOX 111
ORANGE, VIRGINIA 22960

orangecountyva.gov

8/28/2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dr. Holmes,

I am writing to confirm the support and partnership of the Orange County Broadband Authority for the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as "DOT COM" will allow Culpeper, Madison, and Orange Counties to install a necessary middle mile fiber route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

The Orange County Broadband Authority has agreed to contribute \$156,937.00 cash match to the project in addition to \$19,500.00 in-kind match for project management. Without open access middle mile fiber private internet service providers will be unable to reach the rural residents most in need of internet access. In the future we intend work with private partners, and our rural electric cooperative to build last mile connections in order to serve additional rural residents from this necessary and timely regional asset.

Sincerely,

A handwritten signature in blue ink that reads "Lewis Foster". The signature is written in a cursive style.

Lewis Foster
Broadband Program Manager

Chairman
R. Clay Jackson

Vice-Chairman
Amber Foster

BOARD MEMBER
Jonathon Weakley
Kevin McGhee
Charlotte Hoffman



County Administrator
Jack Hobbs

County Attorney
Sean D. Gregg

302 Thrift Road
P. O. Box 705
Madison, Virginia 22727
(540) 948-7500 (ph)
(540) 948-3843 (fax)

August 14, 2019

Tamarah Holmes
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative
Delivery of Technology – Culpeper, Orange, Madison Project (DOT COM)

Dear Dr. Holmes,

I am writing to confirm the support of Madison County for the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Please know that many in Madison County consider this project the best next step for installing broadband infrastructure in Madison County. Thank you in advance for your positive consideration of the proposal.

Sincerely,

A handwritten signature in black ink, appearing to read "Jack Hobbs", is enclosed in a rectangular box.

Jack Hobbs
County Administrator



COMMONWEALTH OF VIRGINIA

HOUSE OF DELEGATES
RICHMOND

MICHAEL J. WEBERT

POST OFFICE BOX 631
MARSHALL, VIRGINIA 20116

EIGHTEENTH DISTRICT

COMMITTEE ASSIGNMENTS:
COUNTIES, CITIES AND TOWNS
COMMERCE AND LABOR
MILITIA, POLICE AND PUBLIC SAFETY

August 25, 2019

Tamarah Holmes, Ph.D.

Associate Director of Policy and Strategic Development

Virginia Department of Housing and Community Development

600 East Main Street, Suite 300

Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as "DOT COM" will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Sincerely,

A handwritten signature in blue ink, appearing to read "MJW".



Rappahannock-Rapidan
REGIONAL COMMISSION

OFFICERS

August 28, 2019

CHAIRMAN
ROBERT COINER

Tamarah Holmes, Ph.D.

VICE-CHAIRMAN
MEAGHAN TAYLOR

Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

TREASURER
JERRY WOOD

**SECRETARY &
EXECUTIVE DIRECTOR**
PATRICK L. MAUNEY

Re: Virginia Telecommunication Initiative (VATI) 2020- "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

COMMISSIONERS

CULPEPER COUNTY
JOHN EGERTSON
STEVE WALKER

Dr. Holmes,

TOWN OF CULPEPER
CHRIS HIVELY
MEAGHAN TAYLOR

On behalf of the Rappahannock-Rapidan Regional Commission, I am writing to convey support for the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project known as "DOT COM" will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County located in areas designated as unserved and underserved by the FCC.

FAUQUIER COUNTY
CHRISTOPHER T. BUTLER
PAUL S. McCULLA

TOWN OF THE PLAINS
CHRISTOPHER R. MALONE

TOWN OF REMINGTON
EVAN H. "SKEET" ASHBY

TOWN OF WARRENTON
BRANDIE SCHAEFFER
JERRY WOOD

The goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals and provides funding to capitalize on local investments made with a goal of increasing broadband access for residents and businesses.

MADISON COUNTY
JACK HOBBS
CHARLOTTE HOFFMAN

TOWN OF MADISON
WILLIAM L. LAMAR

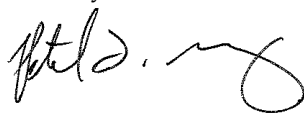
ORANGE COUNTY
JAMES CROZIER
R. BRYAN DAVID

The Rappahannock-Rapidan Regional Commission has worked with each of the three partnering counties on development of the DOT COM project and will continue to support our local member jurisdictions as they seek innovative methods of enhancing and expanding broadband access and availability within the region.

TOWN OF GORDONSVILLE
ROBERT COINER

TOWN OF ORANGE
MARTHA B. ROBY
GREG WOODS

Sincerely,



RAPPAHANNOCK COUNTY
GARREY W. CURRY, JR.
ROGER WELCH

Patrick L. Mauney
Executive Director

TOWN OF WASHINGTON
FREDERIC CATLIN

As of April 2019

Culpeper Management, L.C.
P.O. Box 1446
Culpeper, VA 22701
Physical Address: 10167 Battle Park Road
Rapidan, VA 22733
540-825-8914
August 30, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dear Dr. Holmes:

I am writing to convey my support of the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as "DOT COM" will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Our family business is located on a large farm along Rt. 15 in Culpeper County just north of Carver Center. My wife and I also live on Maple Lawn Lane on the east side of Rt. 15, also in Culpeper County. At home we try to use Virginia Broadband, but the signal from their towers is intermittent and weak. At work we suffer with slow and unreliable wi-fi, even though we are only one mile from the end of the Comcast lines. I do not know how you can class our home and office as not being under-served. We desperately need help getting reliable wi-fi. Our office manages a Hampton Inn in Manassas as well as providing accounting and wi-fi for one of the largest farming operations in Culpeper County: Battle Park Farms. This is a wonderful project. Please make it happen.

Sincerely,

A handwritten signature in cursive script that reads "Charles D. Barrell".

Charles D. Barrell

Manager

SENATE OF VIRGINIA

BRYCE E. REEVES
17TH SENATORIAL DISTRICT
ALL OF ORANGE COUNTY; ALL OF THE
CITY OF FREDERICKSBURG; AND PART OF
ALBEMARLE, CULPEPER, LOUISA,
AND SPOTSYLVANIA COUNTIES
POST OFFICE BOX 7021
FREDERICKSBURG, VIRGINIA 22404



COMMITTEE ASSIGNMENTS:
REHABILITATION AND SOCIAL SERVICES, CHAIR
COURTS OF JUSTICE
GENERAL LAWS AND TECHNOLOGY
PRIVILEGES AND ELECTIONS
RULES

August 28, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, Virginia 23219

RE: Virginia Telecommunications Initiative (VATI) 2020 - "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dear Dr. Holmes:

I am writing to express my support for the application submitted by Culpeper, Madison, and Orange Counties, in partnership with Virginia Broadband. The project, known as "DOT COM," will allow the counties to install a necessary fiber middle-mile route along James Madison Highway (Route 15) extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County, who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Just in the past few weeks, in meetings with local elected officials and school representatives in my district, I have again heard the call for greater broadband service to their rural constituents who need access for employment, e-commerce, telemedicine, and educational opportunities for their children. I look forward to working together to expand this critical infrastructure in to those unserved and underserved areas.

In service to the Commonwealth,

A handwritten signature in black ink, appearing to read "Bryce E. Reeves".

The Honorable Bryce E. Reeves
Senate of Virginia, 17th District

AUTHORIZED BY BRYCE E. REEVES
NOT PRINTED AT STATE EXPENSE



PO Box 146 – 111 Spicers Mill Rd., Ste. B - Orange VA 22960
540.672.5216, Fax 540.672.2304
www.orangevachamber.com

August 20, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, Virginia 23219

RE: Virginia Telecommunications Initiative (VATI) 2020 – “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison, and Orange Counties, in partnership with Virginia Broadband. The project, known as “DOT COM,” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle-mile route along James Madison Highway (Route 15) extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County, who are located in areas designated as unserved and underserved by the FCC.

It is my understanding that the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

As the Orange County Chamber of Commerce, it is our mission to promote business, enhance the economic environment, support community development, and act as a catalyst for improving the overall quality of life for our community and region.

This project aligns directly with our mission, ensuring that the businesses and organizations in the aforementioned areas will be better equipped to support our community with all the tools afforded by adequate broadband services. In addition, adequate broadband services will support future businesses and organizations and further enhance our County's economic vitality.

On behalf of the Orange County Chamber of Commerce, we fully support and endorse the efforts of the Orange County Broadband Authority for the Barboursville Service Area One. We appreciate your consideration of approval.

Sincerely,

A handwritten signature in black ink, consisting of stylized initials 'TC' followed by a small dot.

Tammy L. Collins
Executive Director

August 29, 2019

Tamarah Holmes, Ph.D.

Associate Director of Policy and Strategic Development

Virginia Department of Housing and Community Development

600 East Main Street, Suite 300

Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

The Culpeper Chamber of Commerce recognizes access to quality internet service has become a necessity for communities to thrive.

- Businesses seeking new location to develop will inquire about access to utilities including internet. This also affects the ability of existing businesses to stay competitive and relevant.

- Homeowners are less likely to buy/build in an area that does not provide good internet service.
- Additionally, it is no longer a competitive advantage for students to have quality internet access at home, it has become a necessity just to stay on pace with everyone else.

From business development to educational resources, all facets of our communities rely on this crucial utility. I hope you strongly consider this program application and the benefits it can bring this region

Sincerely,



Wes Mayles

President/CEO

Culpeper Chamber of Commerce



UVA Research Park
1001 University Research Blvd. Suite 301
Charlottesville, VA 22911
434.979.5610

August 29, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020: "Delivery of Technology – Culpeper, Orange, and Madison Counties (DOT COM)"

Dear Dr. Holmes:

The Central Virginia Partnership serves as the regional economic development organization for the City of Charlottesville and eight counties, including the Counties of Culpeper, Madison and Orange. To effectively retain and grow our existing companies, project "DOT COM" is essential to our region. The installation of an 18 mile, fiber middle mile route along James Madison Highway would significantly benefit three of our region's rural counties. This project is very important to the Central Virginia's economic development efforts and would serve businesses, schools, vocational training facilities, and homes.

As we understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth – and Central Virginia – achieve those goals. Thus, the Partnership wholeheartedly supports the "DOT COM" application.

Please feel free to contact me at hcauthen@centralvirginia.org if I can be of any assistance during your deliberations. Thank you very much for your consideration.

Best regards,

A handwritten signature in black ink that reads "Helen Cauthen".

Helen Cauthen
President



Virginia Cooperative Extension
Culpeper County Office
101 South West Street
Culpeper, Virginia 22701
540-727-3435 Fax: 540-727-3451
Email: rebes13@vt.edu
<https://culpeper.ext.vt.edu>

July 31, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main St., Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Virginia Cooperative Extension is located in all three of the counties. We serve residents by providing research and evidence-based information on various topics. Our staff uses the internet for research and keeping in contact with our clients. Many of our courses are internet based which allows for our clients to learn materials at their leisure instead of sitting in a workshop. Having good internet access at The Carver Center would be so beneficial to our program in meeting the needs of county residents.

Sincerely,

Becky Gartner, Unit Coordinator
Virginia Cooperative Extension, Culpeper Unit



Virginia Cooperative Extension
Northern District Office
2322 Blue Stone Hills Drive
Harrisonburg, Virginia 22801
540-432-6029 Fax: 540-432-6251
email: jthomp75@vt.edu
www.ext.vt.edu

July 23, 2016

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

This will directly improve VCE programmatic value to the region for many reasons as well. Our publications are housed on our internet sites, and the “DOT COM” project will ensure our rural clients have the same access as our urban clients. Our Culpeper Unit of VCE will be moving in the near future, and this project would ensure connectivity that puts that facility and the work it will do for Youth, Entrepreneurs and Agricultural/Horticultural will remain cutting edge. I hope this project moves forward soon. Thank you for your attention.

Sincerely,

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

Extension is a joint program of Virginia Tech, Virginia State University, the U.S. Department of Agriculture, and state and local governments.

Virginia Cooperative Extension programs and employment are open to all, regardless of age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, genetic information, veteran status, or any other basis protected by law. An equal opportunity/affirmative action employer.



John G. Thompson
District Director
Northern District
Virginia Cooperative Extension



George Washington Carver Regional High School
Alumni Association, Inc.
P. O. Box 965
Culpeper, Virginia 22701

August 1, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and
Strategic Development
Virginia Department of Housing
and Community Development
600 East Main Street - Suite 300
Richmond, Virginia 23219

Re: Virginia Telecommunication Initiative (VATI) 2020 - "Delivery of
Technology - Culpeper, Orange, Madison (DOT COM)"

Dr. Holmes:

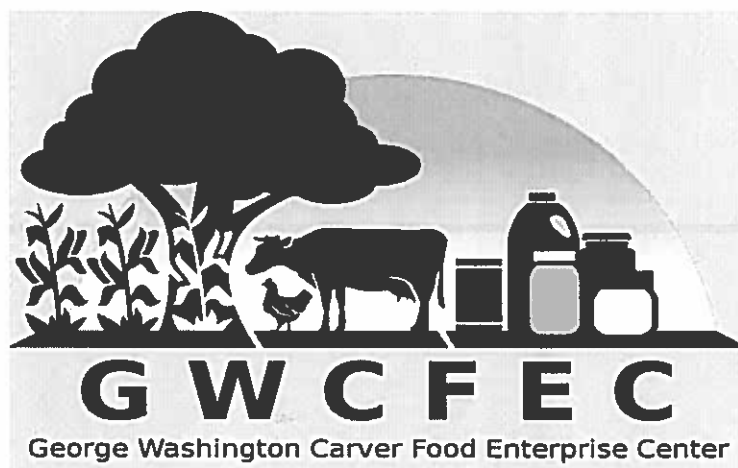
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As we understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

We, the Alumni of the George Washington Carver Regional High School, have worked diligently to put a Museum in the school and we plan to provide historical and educational services within the museum. We feel these services are needed.

Sincerely

Frank D. Lewis, Sr.
Chairman



August 4, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

On behalf of the George Washington Carver Food Enterprise Center, we are writing to convey our support of the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As we understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Our non-profit organization, in partnership with the Culpeper County Government, is building a Center in the former George Washington Carver Regional High School on Route 15, where residents of the Northern Piedmont Region can create and grow food businesses in Culpeper

County. Telecommunications will play a critical role in our ability to train and engage those in need of this Center. We welcome your support in helping meet this critical need. Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Becky Sheffield-Gartner". The signature is written in a cursive style with a large initial 'B' and a long horizontal stroke.

Becky Sheffield-Gartner
Team Leader



Culpeper VA

ECONOMIC DEVELOPMENT

August 21, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

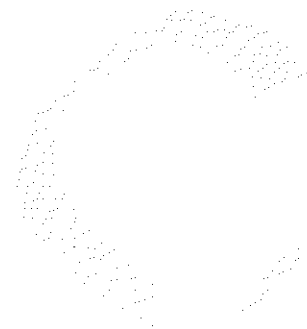
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As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

The extension of fiber to all parts of Culpeper County is critically important to our ability to expand local businesses and attract new ones. Employers and employees require internet connectivity. Culpeper County is projected to grow by 20,000 residents by 2040. This project will not only help our residents in unserved and underserved areas, it will expand the areas where growth can occur as well as increase our chances to provide local jobs to our current and new residents.

Best Regards,

Philip L. Sheridan
Director, Economic Development





PO Box 2018
Culpeper, VA 22701
gwcarc.org

July 17, 2019

Laura Loveday
Special Projects, Grants Administrator
Culpeper County

Dear Laura,

I write to support your initiated grant to fund fiber optic cable installation to the benefit of specified regional county partners. Increasing rural access to high speed fiber offers innumerable benefits to users beyond participating county governments to include organized groups and private enterprise. Economic development will surely follow its installation. Working together across the region, county governments leadership can extend this needed access to those not able to gain such a connection on their own.

I represent the George Washington Carver Agriculture Research Center (gwcarc), a 501c3 charity organized to “develop new knowledge and opportunity for agriculture” here in the Northern Piedmont region of Virginia. We and our partners including Virginia Cooperative Extension, my employer, the Rappahannock Rapidan Regional Planning District Commission, Virginia State University and Virginia Tech our land grant universities, Culpeper County government and citizens across our region will experience direct benefit from the completion of this fiber network project.

Please call on me for any additional assistance needed.

Sincerely,

Carl C. Stafford
Senior Extension Agent, ANR, Animal Science
Secretary, GWCARC Board



Shawn Appling
Virginia Cooperative Extension
Culpeper County Office
101 South West Street
Culpeper, Virginia 22701
540-727-3435 Fax: 540-727-3451
Email: ashawn6@vt.edu
<https://culpeper.ext.vt.edu/index.html>

July 17, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

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As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

The goals of both Virginia Cooperative Extension and the Rapidan River Master Gardeners is educational outreach to the public. This outreach is achieved through educational programs and hands-on demonstration. The Rapidan River Master Gardeners serve the residents of Culpeper, Greene, Madison, and Orange Counties. Currently the Rapidan River Master Gardeners have multiple vegetable demonstration gardens at the Carver Center, along with an All-America Selections Garden. Access to the “DOT COM” project will allow for improved educational opportunities for both adult and children’s groups throughout our area.

Sincerely,

Shawn Appling
Horticulture Extension Agent and Rapidan River Master Gardeners Coordinator

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

Extension is a joint program of Virginia Tech, Virginia State University, the U.S. Department of Agriculture, and state and local governments.

Virginia Cooperative Extension programs and employment are open to all, regardless of age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, genetic information, veteran status, or any other basis protected by law. An equal opportunity/affirmative action employer.





July 17, 2019

Tamarah Holmes, Ph.D.

Associate Director of Policy and Strategic Development

Virginia Department of Housing and Community Development

600 East Main Street, Suite 300

Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

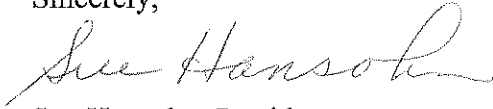
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As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

New Pathways Tech, Inc. is a non-profit vocational training school for CNC Machinists. Created through a public private partnership we actively work with fill the critical needs of manufacturing companies in Central Virginia. New Pathways Tech, Inc. in partnership with Germanna Community College facilitates apprenticeships and the creation of high paying jobs in

the Commonwealth. New Pathways Tech, Inc. operates our SCHEV certified school at the Carver Center which is located along the proposed DOT COM fiber route. High speed internet access is critical to our students' coursework and the day to day operation of our school.

Sincerely,

A handwritten signature in cursive script that reads "Sue Hansohn". The signature is written in black ink and is positioned above the printed name.

Sue Hansohn, President

New Pathways Tech, Inc.

7/18/2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dr. Holmes,

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As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

This project will positively impact the VSU Small Farm Outreach Program as we collaborate to meet the technology needs of the socially disadvantaged, veteran, small, beginning farmers and ranchers that we serve. This project has my full support.

Sincerely,



Director
Small Farm Outreach Program

August 28, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

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As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

GREATER PIEDMONT REALTORS® is a trade association of real estate professionals and affiliate members serving the counties of Culpeper, Fauquier, Madison, and Rappahannock. We exist to provide outstanding services and leadership to help our members be successful and profitable in real estate. GREATER PIEDMONT REALTORS® supports the enhancement and expansion of broadband infrastructure and services so that more Piedmont residents have access to reliable broadband and believes that broadband access is a critical component to the preservation of property values. We also believe that reliable broadband is a key factor in retaining and attracting businesses that will allow our economy to grow and prosper.

Sincerely,



Debbie Werling, Chief Executive Officer
Greater Piedmont REALTORS®
www.gprealtors.net



VIRGINIA INITIATIVE FOR
**GROWTH &
OPPORTUNITY**
IN EACH REGION
REGIONAL COUNCIL 9

August 29, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020
"Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dear Dr. Holmes,

We are writing to convey support for the Delivery of Technology – Culpeper, Orange, Madison (DOT COM) application.

GO Virginia Region 9 is part of a statewide business-led initiative to create higher paying jobs and diversify the Virginia economy. The Region 9 Growth & Opportunity Plan (Plan) assessed key economic indicators in our eleven locality Region 9 footprint that includes the Counties of Culpeper, Orange and Madison. The Plan identifies critical opportunities for growing the regional economy, including a recommendation for regional broadband development.

The specific recommendation for Growing Existing Businesses is that *"Communities should help extend quality broadband to their citizens and business by entering into public-private partnerships to solve certain infrastructure shortcomings."*

Because the GO Virginia Board is not currently considering broadband projects, the Region 9 Council is pleased to see innovative projects and partnerships, such as DOT COM, advance broadband access in the region and address the needs identified in the Plan.

Broadband is an essential part of the modern economy and is as critical to growth as more traditional infrastructure. We understand that this project will enable Culpeper, Madison and Orange Counties, along with Virginia Broadband, to install a necessary fiber middle mile along James Madison Highway extending 18 miles through three counties to serve schools, vocational training centers, businesses, healthcare facilities, and others. This project is an innovative regional collaboration that will help drive regional economic growth.

Sincerely,

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

Jim Cheng
Chair, GO Virginia
Region 9 Council

Sincerely,

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

Ed Scott
Vice Chair
Region 9 Council

SENATE OF VIRGINIA

EMMETT W. HANGER, JR.
24TH SENATORIAL DISTRICT
ALL OF AUGUSTA, GREENE, AND MADISON
COUNTIES; ALL OF THE CITIES OF STAUNTON
AND WAYNESBORO; AND PART OF CULPEPER
AND ROCKINGHAM COUNTIES
POST OFFICE BOX 2
MOUNT SOLON, VIRGINIA 22843



COMMITTEE ASSIGNMENTS:
FINANCE, CO-CHAIR
AGRICULTURE, CONSERVATION AND
NATURAL RESOURCES
LOCAL GOVERNMENT
REHABILITATION AND SOCIAL SERVICES
RULES

August 27, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
VA Department of Housing & Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: VA Telecommunication Initiative (VATI) 2020 “Delivery of Technology–Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

Please add my name to the list of those supporting the grant application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The “DOT COM” project will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through these three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. Additionally, this will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

This innovative regional collaboration will help the Commonwealth achieve the goals of creating strong, competitive communities by preparing them to build, utilize, and capitalize on telecommunications infrastructure.

As State Senator for a large portion of this area, I am pleased to strongly support this effort and urge your consideration in awarding grant approval to the "DOT COM" project. I am also a member of the Board of Trustees for the Center for Rural Virginia and one of our major agenda items has been to advocate for the expansion of rural broadband services, this project is a perfect example of that goal. I appreciate the opportunity to advocate for this initiative.

Sincerely,

A handwritten signature in blue ink, appearing to read "Emmett W. Hanger, Jr.", written in a cursive style.

Emmett W. Hanger, Jr.

Madison Gigabit Internet, Inc.
200 Washington Street
Madison, Virginia 22727
<http://www.madisongigabit.com/>



August 20, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

I am writing to convey my business's support of the grant application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project, known as “DOT COM,” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway (State Rt 15) extending 18 miles through three counties.

The project will help Madison County better serve homes, schools, and businesses along Rt 15 that are currently un-served, or under-served. Madison Gigabit has identified various parties who are interested in receiving improved service when this is available.

The potential customers expressing interest in service from this fiber installation include these anchor institutions (all have expressed direct interest and given consent to their name being here):

The Inn at Meander Plantation (B&B on Rt 15)

Hartland School (private school, east off Rt 15)

Woodberry Forest (private school, east off Rt 15)

as well as individual homeowners in the vicinity.

The goal of VATI is to create strong, competitive communities throughout the Commonwealth by

Madison Gigabit Internet, Inc.
200 Washington Street
Madison, Virginia 22727
<http://www.madisongigabit.com/>



preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Madison Gigabit was incorporated in February 2018 as an ISP local to Madison County. It currently serves businesses and homes in the vicinity of the Town of Madison, in Madison County, Virginia, with the plan to expand to serve the entire county.

The ability to act as the ISP for last-mile/FTTH connections utilizing the DOT COM middle-mile fiber build is an opportunity we are looking forward to as we continue to serve the residents of Madison County.

Sincerely,

A handwritten signature in black ink, appearing to read 'Clinton R Hyde'.

Clinton R Hyde
President, Madison Gigabit Internet

THINK ORANGE VA
ORANGE COUNTY VA ECONOMIC DEVELOPMENT

PHIL GEER
DIRECTOR
Phone: (540) 672-1238
Fax: (540) 672-4762
Email: pgeer@orangecountyva.gov

P. O. Box 111
122 East Main Street
Orange, Virginia 22960
thinkorangeva.com

August 16, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, Virginia 23219

RE: Virginia Telecommunications Initiative (VATI) 2020 - "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison, and Orange Counties, in partnership with Virginia Broadband. The project, known as "DOT COM," will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle-mile route along James Madison Highway (Route 15) extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County, who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

High speed internet is incredibly important to supporting our local economy. Almost all business functions are tied to the internet in some way, so having a reliable source of high-speed internet is a necessity for our existing and prospective businesses, including home-based entrepreneurs. This is also a need for our workforce development efforts. People will have access to online training programs that will prepare them for jobs of the future. Additionally, it would make Orange County a more desirable place to live, so we'll likely have a higher success rate of attracting talent to the area.

Sincerely,



Phil Geer
Director of Economic Development

 Orange County Public Schools
Empowering Students
Achieving Dreams

August 27, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, Virginia 23219

RE: Virginia Telecommunications Initiative (VATI) 2020 - "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dear Dr. Holmes,

As the School Board Chairman for Orange County Public Schools, I am writing to convey my support of the application submitted by Culpeper, Madison, and Orange Counties, in partnership with Virginia Broadband. The project, known as "DOT COM," will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle-mile route along James Madison Highway (Route 15) extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

We are enthused to currently offer our students digitally connected opportunities. Increasing our broadband presence throughout the community will allow our students to consider staying or returning to Orange County to earn a decent living and raise their children in a community they love.

Sincerely,



Sherrie Page
School Board Chairman for Orange County Public Schools

 Orange County Public Schools
Empowering Students
Achieving Dreams

August 27, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, Virginia 23219

RE: Virginia Telecommunications Initiative (VATI) 2020 - "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dear Dr. Holmes,

As the Superintendent for Orange County Public Schools that serves approximately 4,847 K-12 public school students, I am writing to convey my support of the application submitted by Culpeper, Madison, and Orange Counties, in partnership with Virginia Broadband. The project, known as "DOT COM," will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle-mile route along James Madison Highway (Route 15) extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

The vision for Orange County Public Schools embraces equity for student learning. Our ultimate goal is to be a part of the ubiquitous computing solution for our Orange County students. We have a 1:1 student to device ratio for students within our schools. The next logical step is to create a methodology for students to take them out into the "real world." This project would be one step towards that realization in Orange County.

Sincerely,



Cecil C. Snead, II, Ed.D.
Superintendent for Orange County Public Schools

The Orange County School Board does not discriminate on the basis of race, color, religion, national origin, ancestry, political affiliation, sex, gender, age, marital status, genetic information or disability in its employment practices or educational program and activities. Compliance inquiries should be directed to the Director of Human Resources, 200 Dailey Drive, Orange, VA 22960 or by phone at 540-661-4550.



**CHEMUNG
CONTRACTING
CORPORATION**
A Dalrymple Company

August 29, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Our company deals with contract requirements that make service critical to the submission of bids, day to day operations, including notices to VDOT of traffic disruptions. When those services are disrupted most of our management functions shut down.

Sincerely,

Edward C. Dalrymple, Jr.



President



**CEDAR
MOUNTAIN
STONE**
A Dalrymple Company

August 29, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Our company deals with the transfer of all transactions for payroll, material shipments, and submission of quotes through internet service between our sites in Virginia and our main processing area in upstate New York. Unstable or loss service is disruptive to those functions.

Sincerely,

Edward C. Dalrymple, Jr.

President



Monday, August 26, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology – Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

Hartland Institute of Health and Education operates a small K-12 school as well as a 4-year college program. As technology has progressed over our 35 years of operation, the lack of fiber connectivity in our rural area has become a great and ongoing concern. We look forward to this opportunity of building out fiber-optic broadband service in our area.

Sincerely,

Kevin H. Patterson
Manager of Information Technology
Hartland Institute of Health and Education
444 Hartland Oak Dr
Rapidan, VA 22733

kpatterson@hartland.edu

(540) 672-3100 x 324



**John C. Egertson, AICP
County Administrator**

302 N. Main Street, Culpeper, Virginia 22701

Phone: (540) 727-3427

E-mail: jegertson@culpepercounty.gov

August 30, 2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- “Delivery of Technology –
Culpeper, Orange, Madison (DOT COM)”

Dr. Holmes,

I am writing to confirm the support and partnership of Culpeper County for the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as “DOT COM” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

The Culpeper County Board of Supervisors has agreed to contribute \$104,624.00 cash match to the project in addition to \$1,568.00 in-kind match for project administration. Without open access middle mile fiber, Culpeper will be unable to reach the rural residents most in need of internet access. In the future we intend to work with private partners and our rural electric cooperative to build last mile connections in order to serve additional rural residents from this necessary and timely regional asset.

Sincerely,

A handwritten signature in black ink that reads "John Egertson". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

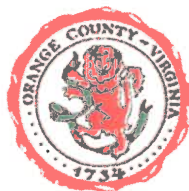
John Egertson, AICP, County Administrator

ORANGE COUNTY, VIRGINIA

BROADBAND AUTHORITY

S. LEWIS FOSTER
BROADBAND PROGRAM MANAGER

PHONE: (540) 661-5332



127 BELLEVIEW AVENUE
LOWER LEVEL
P. O. BOX 111
ORANGE, VIRGINIA 22960

orangecountyva.gov

8/28/2019

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Re: Virginia Telecommunication Initiative (VATI) 2020- "Delivery of Technology – Culpeper, Orange, Madison (DOT COM)"

Dr. Holmes,

I am writing to confirm the support and partnership of the Orange County Broadband Authority for the application submitted by Culpeper, Madison and Orange Counties, along with Virginia Broadband. The project is known as "DOT COM" will allow Culpeper, Madison, and Orange Counties to install a necessary middle mile fiber route along James Madison Highway extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals.

The Orange County Broadband Authority has agreed to contribute \$156,937.00 cash match to the project in addition to \$19,500.00 in-kind match for project management. Without open access middle mile fiber private internet service providers will be unable to reach the rural residents most in need of internet access. In the future we intend work with private partners, and our rural electric cooperative to build last mile connections in order to serve additional rural residents from this necessary and timely regional asset.

Sincerely,



Lewis Foster
Broadband Program Manager

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	\$ 1,046,245.00	78.9%	Pending
ORANGE COUNTY	\$156,937.00	11.8%	APPROVED
CULPEPER COUNTY	\$ 104,624.00	7.8%	APPROVED
ORANGE CO IN-KIND	\$ 19,500.00	1.5% (combined In-Kind)	APPROVED
CULPEPER CO IN-KIND	\$ 1,568.00	Included above	APPROVED
TOTAL	\$ 1,328,874	100 %	

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate
Construction 18 Miles of fiber	\$ 1,192,752	\$ 954,202	\$ 238,550	quote per mile from Computer Cabling & Technology Service
Permits VDOT and Town or Orange	\$ 17,554	\$ 14,044	\$ 3,511	VDOT and Town of Orange
Engineering	\$ 54,500	\$ 43,600	\$ 10,900	Vantage Point
Inspection	\$ 20,000	\$ 16,000	\$ 4,000	Vantage Point
99' guyed structure and wireless equipment	\$ 23,000	\$ 18,400	\$ 4,600	Virginia Broadband
Project Management In-Kind	\$ 19,500		\$ 19,500	Orange County Broadband Authority
Grant Administration In- Kind	\$ 1,568	\$ -	\$ 1,568	Culpeper Coutny
Total	\$ 1,328,874	\$ 1,046,245	\$ 282,629	

CDBG Derivation of Cost

Date
4/4/2019
7/11/2019
7/11/2019
7/17/2019
Aug-19
Aug-19



item	estimate cost	number	total
99ft guyed tower kit (rohn 55g or equivalent)	\$6,850.00	1	\$6,850.00
Redline TVWS base station	\$1,995.00	1	\$1,995.00
Kp performance TVWS base station sector	\$650.00	1	\$650.00
Readline TVWS CPE's	\$225.00	5	\$1,125.00
kp performance TVWS yagi antennas	\$179.99	5	\$899.95
Cable	\$0.25	300	\$75.00
tower construction	\$4,000.00	1	\$4,000.00
outside enclosure and electrical	\$700.00	1	\$700.00
Deployment labor	\$125.00	24	\$3,000.00
Router switch and battery backup equipment	\$600.00	1	\$600.00
concrete and excavation	\$3,105.00	1	\$3,105.00
			Grand total
			\$22,999.95

Note: prices quoted are for 8/2019 and subject to market changes

07/11/2019

Cost Estimate for VPS OSP Engineering Services

Prepared for:

S. Lewis Foster
 Broadband Program Manager
 Orange County Broadband Authority
 127 Belleview Avenue
 P.O. Box 111
 Orange, VA 22960

Description	Estimate
Engineering Cost (See Notes 1 & 3) Field Data Collection Kick-off Meeting Field Data Collection & Mapping – Town (3 miles @ \$1.35/ft) Field Data Collection & Mapping – Rural (15 miles @ \$0.35/ft)	 \$ 5,000 \$ 21,500 \$ 28,000
Drawings for VDOT and Town of Orange Permits	Drawings included in Engineering Cost. Permit applications and coordination is time and expense.
Inspection Cost of Construction (See Note 2) 1 Resident Estimated at 4 weeks; 5 work days per week; 11 hour work days	 \$ 20,000

Notes:

- (1) Field Data Collection Services Living expenses are included in the cost estimates.
- (2) Estimated inspection service living expenses are included in the cost estimates. Actual expenses will be passed through as incurred with no markup.
- (3) Pricing is based generic fielding sheets formats and software. Alternative formats and software may result in increased costs.
- (4) Make Ready Engineering and Pole Loading (Poles), if required
 - a. Make Ready Engineering (when Required) - \$30/pole
 - b. Pole Loading Analysis (when required) - \$55/pole
 - c. MRE and PLA (when required) - \$75/pole
- (5) The following additional items would be performed on a time and expense basis:
 - a. MRE Coordination
 - b. Project management

Computer Cabling & Technology Service

3445 Lake Pointe Drive
Harrisonburg, VA 22801

Sales Order

Date	S.O. No.
3/28/2019	18406

Name / Address
Oranger County Broadband Authority Orange, VA

Ship To
PSAP Airport

P.O. No.	Project

Item	Description	Ordered	Rate	Amount
	Install one mile (typical) 48 Strand			
Job Design/Drawings	Job Drawings	1	1,000.00	1,000.00
Job Design/Drawings	Job VDOT Permits	1	600.00	600.00
Job Design/Drawings	Job VDOT Bonds	0	0.00	0.00
PG243624 T15	Vault 24 x 36 x 36 Tier 15 (22,500)	5	800.00	4,000.00
200 Innerduct	2" 13.5 HDPE conduit- Orange	5,300	1.25	6,625.00
2" Alum Reverse Thread Coupli...	2" Alum reverse threaded Coupling for 13.5 HDPE Pipe	10	6.00	60.00
CLMU30-3072-0104	Carsonite 6ft fiber optic marker white / orange decal- VA miss utility numbers	5	35.00	175.00
decal 507FOC	Decal #507 FOC Fiber Optic	5	5.00	25.00
Telcove- Direct bore 2"	Directional Bore 2"	1,200	7.00	8,400.00
Telcove- Trench 36"	Plow 36" deep, cover and restoration	4,000	3.50	14,000.00
Wire Material- Misc.	seed, straw, restoration material	1	500.00	500.00
GEN 48 SM LT Amrored Fiber	48 Strand Fiber			
MLI 4000- D	48 Strand SM LT Armored Fiber	5,600	0.90	5,040.00
MLI 3000-SSTA	Closures	1	375.00	375.00
fis F1102C-50	24 splice tray for starfighter 3000 ribbon fiber	2	35.00	70.00
LABOR / Fiber	50 pack 60mm Fusion Shrink tubing	48	3.00	144.00
Labor / Field	LABOR Fiber Terminations/Splicing	48	15.00	720.00
	Field Technician- pull fiber - per foot excludes rock - billed additional excludes traffic control, if required	5,300	1.00	5,300.00
		Total		\$47,034.00

Computer Cabling & Technology Service

3445 Lake Pointe Drive
 Harrisonburg, VA 22801

Sales Order

Date	S.O. No.
3/28/2019	18405

Name / Address
Oranger County Broadband Authority Orange, VA

Ship To

P.O. No.	Project

Item	Description	Ordered	Rate	Amount
	install one mile- (typical) 24 Strand			
Job Design/Drawings	Job Drawings	1	1,000.00	1,000.00
Job Design/Drawings	Job VDOT Permits	1	600.00	600.00
Job Design/Drawings	Job VDOT Bonds	0	0.00	0.00
PG243624 T15	Vault 24 x 36 x 36 Tier 15 (22,500)	5	800.00	4,000.00
200 Innerduct	2" 13.5 HDPE conduit- Orange	5,300	1.25	6,625.00
2" Alum Reverse Thread Coupli...	2" Alum reverse threaded Coupling for 13.5 HDPE Pipe	10	6.00	60.00
CLMU30-3072-0104	Carsonite 6ft fiber optic marker white / orange decal- VA miss utility numbers	5	35.00	175.00
decal 507FOC	Decal #507 FOC Fiber Optic	5	5.00	25.00
Telcove- Direct bore 2"	Directional Bore 2"	1,200	7.00	8,400.00
Telcove- Trench 36"	Plow 36" deep, cover and restoration	4,000	3.50	14,000.00
Wire Material- Misc.	seed, straw, restoration material	1	500.00	500.00
gen 24SM LT Armored	24 Strand Fiber General 24 Strand SM LT Armored Fiber	5,600	0.65	3,640.00
MLI 4000- D	Closures	1	375.00	375.00
MLI 3000-SSTA	24 splice tray for starfighter 3000 ribbon fiber	1	35.00	35.00
fis F1102C-50	50 pack 60mm Fusion Shrink tubing	24	3.00	72.00
LABOR / Fiber	LABOR Fiber Terminations/Splicing	24	15.00	360.00
Labor / Field	Field Technician- pull fiber - per foot	5,300	1.00	5,300.00
	excludes rock - billed additional excludes traffic control, if required			
Total				\$45,167.00

Computer Cabling & Technology Service

3445 Lake Pointe Drive
Harrisonburg, VA 22801

Sales Order

Date	S.O. No.
3/28/2019	18404

Name / Address
Oranger County Broadband Authority Orange, VA

Ship To

P.O. No.	Project

Item	Description	Ordered	Rate	Amount
	Install one mile (typical) 144 Strand			
Job Design/Drawings	Job Drawings	1	1,000.00	1,000.00
Job Design/Drawings	Job VDOT Permits	1	600.00	600.00
Job Design/Drawings	Job VDOT Bonds	0	0.00	0.00
PG243624 T15	Vault 24 x 36 x 36 Tier 15 (22,500)	5	800.00	4,000.00
200 Innerduct	2" 13.5 HDPE conduit- Orange	5,300	1.25	6,625.00
2" Alum Reverse Thread Coupli...	2" Alum reverse threaded Coupling for 13.5 HDPE Pipe	10	6.00	60.00
CLMU30-3072-0104	Carsonite 6ft fiber optic marker white / orange decal- VA miss utility numbers	5	35.00	175.00
decal 507FOC	Decal #507 FOC Fiber Optic	5	5.00	25.00
Telcove- Direct bore 2"	Directional Bore 2"	1,200	7.00	8,400.00
Telcove- Trench 36"	Plow 36" deep, cover and restoration	4,000	3.50	14,000.00
Wire Material- Misc.	seed, straw, restoration material	1	500.00	500.00
GEN 144F LT SM armor	144 Strand Fiber General 144F SMLT armored fiber	5,600	2.00	11,200.00
MLI 4000- D	Closures	1	375.00	375.00
MLI 3000-SSTA	24 splice tray for starfighter 3000 ribbon fiber	6	35.00	210.00
fis F1102C-50	50 pack 60mm Fusion Shrink tubing	144	3.00	432.00
LABOR / Fiber	LABOR Fiber Terminations/Splicing	144	15.00	2,160.00
Labor / Field	Field Technician- pull fiber - per foot excludes rock - billed additional excludes traffic control, if required	5,300	1.00	5,300.00
Total				\$55,062.00

Computer Cabling & Technology Service

3445 Lake Pointe Drive
 Harrisonburg, VA 22801

Sales Order

Date	S.O. No.
4/4/2019	18419

Name / Address
Oranger County Broadband Authority Orange, VA

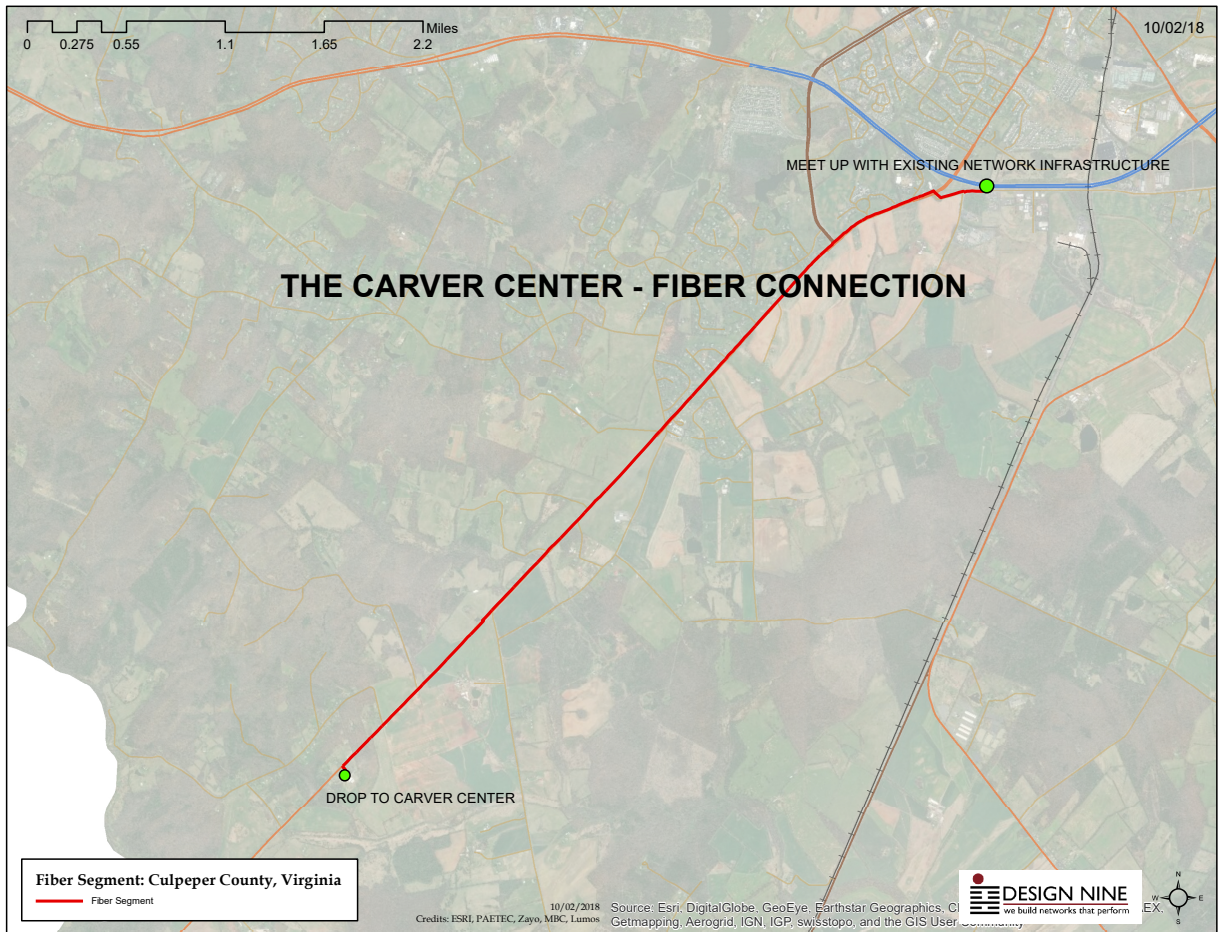
Ship To

P.O. No.	Project

Item	Description	Ordered	Rate	Amount
	Install one mile (typical) 288 Strand			
Job Design/Drawings	Job Drawings	1	1,000.00	1,000.00
Job Design/Drawings	Job VDOT Permits	1	600.00	600.00
Job Design/Drawings	Job VDOT Bonds	0	0.00	0.00
PG243624 T15	Vault 24 x 36 x 36 Tier 15 (22,500)	5	800.00	4,000.00
200 Innerduct	2" 13.5 HDPE conduit- Orange	5,300	1.25	6,625.00
2" Alum Reverse Thread Coupli...	2" Alum reverse threaded Coupling for 13.5 HDPE Pipe	10	6.00	60.00
CLMU30-3072-0104	Carsonite 6ft fiber optic marker white / orange decal- VA miss utility numbers	5	35.00	175.00
decal 507FOC	Decal #507 FOC Fiber Optic	5	5.00	25.00
Telcove- Direct bore 2"	Directional Bore 2"	1,200	7.00	8,400.00
Telcove- Trench 36"	Plow 36" deep, cover and restoration	4,000	3.50	14,000.00
Wire Material- Misc.	seed, straw, restoration material	1	500.00	500.00
Gen 288 SM LT Armored	288 Strand Fiber Gen 288 SM LT Armored	5,600	3.50	19,600.00
MLI 4000- D	Closures	1	375.00	375.00
MLI 3000-SSTA	24 splice tray for starfighter 3000 ribbon fiber	12	35.00	420.00
fis F1102C-50	50 pack 60mm Fusion Shrink tubing	288	3.00	864.00
LABOR / Fiber	LABOR Fiber Terminations/Splicing	288	15.00	4,320.00
Labor / Field	Field Technician- pull fiber - per foot excludes rock - billed additional excludes traffic control, if required	5,300	1.00	5,300.00
		Total		\$66,264.00

CARVER CENTER

The Carver Center has a great deal of potential for new businesses to co-locate alongside The Carver Center's existing partners. In addition to the school and outbuildings there are 12 acres to expand or facilitate complementary uses such as greenhouses, crop studies, maker spaces, or other great ideas. The main school includes fully renovated office spaces that could be leased immediately, large classrooms on the main level and the upper level, a large auditorium and cafeteria, a woodworking shop, and a fully renovated library being used by the GWC alumni museum. Each lease holder could be an independence customer with potential for approximately 25 individual accounts at full capacity.



Infrastructure Overview

I	ITEM/PROJECT	VALUE
2	Miles of Fiber / Conduit Installed	4.96
3	Number of Handholes Installed	44
4	Splice Closures Installed	2
5	Cabinets Installed	0
6	Number of Customers Connected	1

Summary of Costs

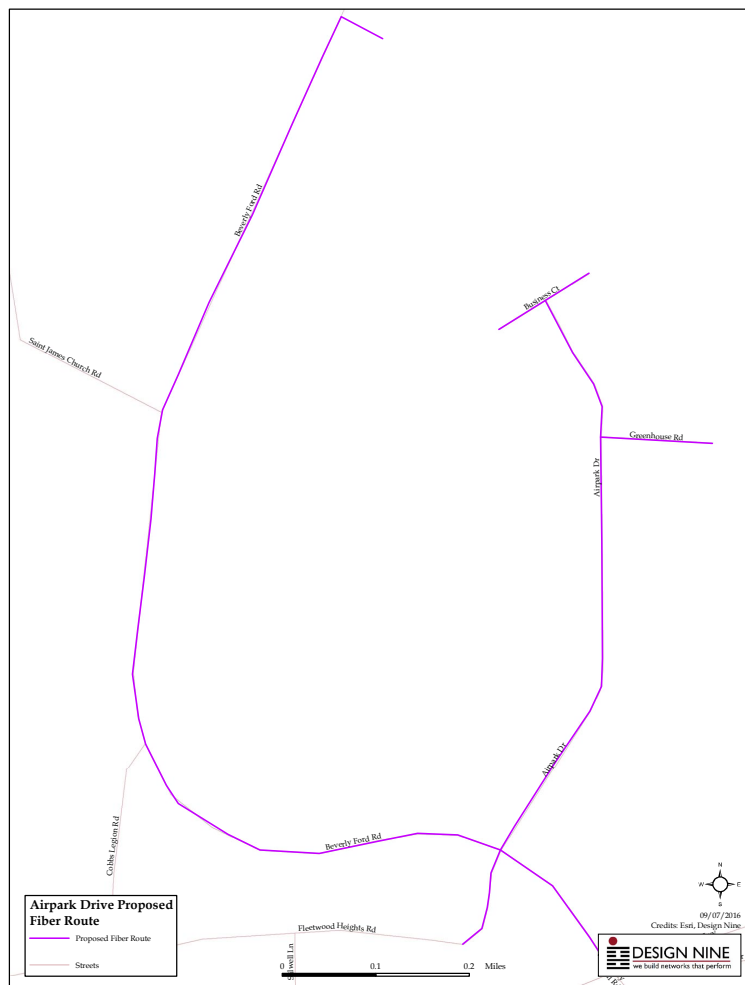
I	ITEM/PROJECT	ESTIMATED
2	Route 15 Dark Fiber Construction Materials	\$127,994.41
3	Route 15 Dark Fiber Distribution Labor	\$217,719.80
4	Route 15 Dark Fiber Structures, Cabinets, and Equipment	\$0.00
5	Route 15 Dark Fiber Drop Construction	\$4,525.00
6	Network Construction Subtotal	\$350,239.21
7	Project Management, Network Engineering, Integration, and Testing	\$42,028.71
8	Engineering, Permitting	\$52,535.88
9	Misc Fees, Advertising, Technical Services	\$10,000.00
10	Bookkeeping and Administration	\$5,000.00
11	Other Costs Subtotal	\$109,564.59
12	Project Total (No Contingency)	\$459,803.80
13	Contingency at 10%	\$45,980.38
14	Project Total (with contingency)	\$505,784.18

Fiber Deployment Cost Estimates

Preliminary cost estimates for deploying fiber infrastructure in the Town of Culpeper and the Airpark area are provided in this section. These estimates provide specific examples of the Meet-Me Box and Conduit/Dark Fiber strategies discussed previously.

AIRPARK

This estimate has been designed to provide dark fiber availability and a meet-me box in the Airpark area near the airport and includes fiber to airport terminal itself, where WiFi could be provided to air travelers. As seen in the Infrastructure Overview table on the next page, this includes about a mile and a half of conduit and dark fiber, twenty-five handholes for customer drop cable access, and this could provide access to 100+ customers. The cost per building is relatively high because of the small number of buildings connected and the need for a relatively large amount of distribution conduit and fiber relative to the number of connected premises. If more buildings/customers were added incrementally once the initial “phase one” is complete, the cost per building would decline.



Airpark Summary of Costs

1	ITEM/PROJECT	ESTIMATED
2	Airpark Dark Fiber Construction Materials	\$46,714.97
3	Airpark Dark Fiber Distribution Labor	\$79,154.40
4	Airpark Dark Fiber Structures, Cabinets, and Equipment	\$22,215.00
5	Airpark Dark Fiber Drop Construction	\$20,625.00
6	Network Construction Subtotal	\$168,709.37
7	Project Management, Network Engineering, Integration, and Testing	\$20,245.12
8	Engineering, Permitting	\$25,306.41
9	Misc Fees, Advertising, Technical Services	\$10,000.00
10	Bookkeeping and Administration	\$5,000.00
11	Other Costs Subtotal	\$60,551.53
12	Project Total (No Contingency)	\$229,260.90
13	Contingency at 10%	\$22,926.09
14	Project Total (with contingency)	\$252,186.99

Infrastructure Analysis

1	ITEM/PROJECT	ESTIMATED
2	Total cost per mile	\$178,410.07
3	Distribution construction cost per mile	\$119,619.68
4	Distribution cost per mile (no drops)	\$105,492.97
5	Total Cost per building connected	\$10,419.15
6	Drop Costs per building connected	\$825.00

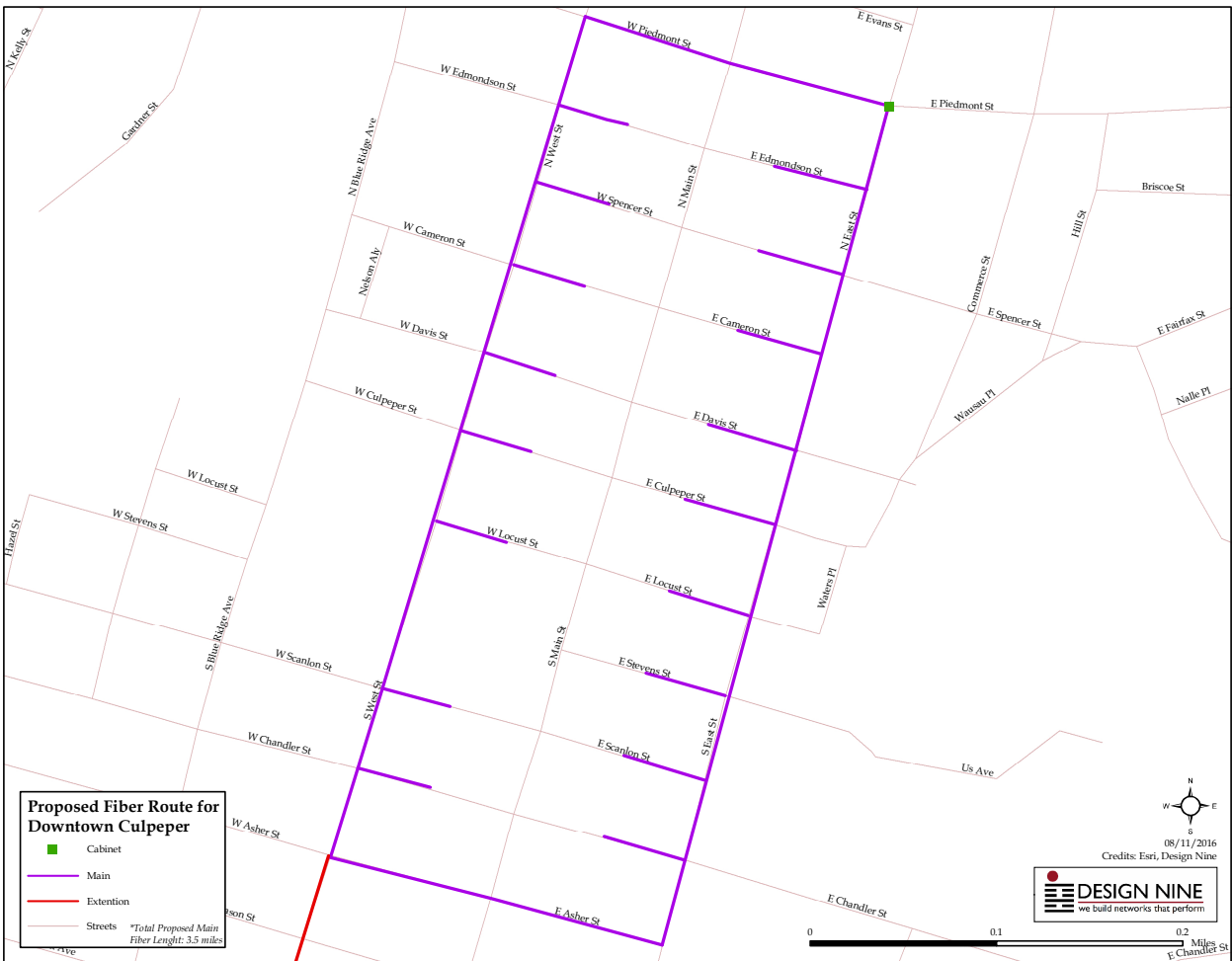
Airpark Infrastructure Overview

1	ITEM/PROJECT	VALUE
2	Miles of Fiber / Conduit Installed	1.46
3	Number of Handholes Installed	16
4	Splice Closures Installed	9
5	Cabinets Installed	1
6	Number of Customers Connected	25

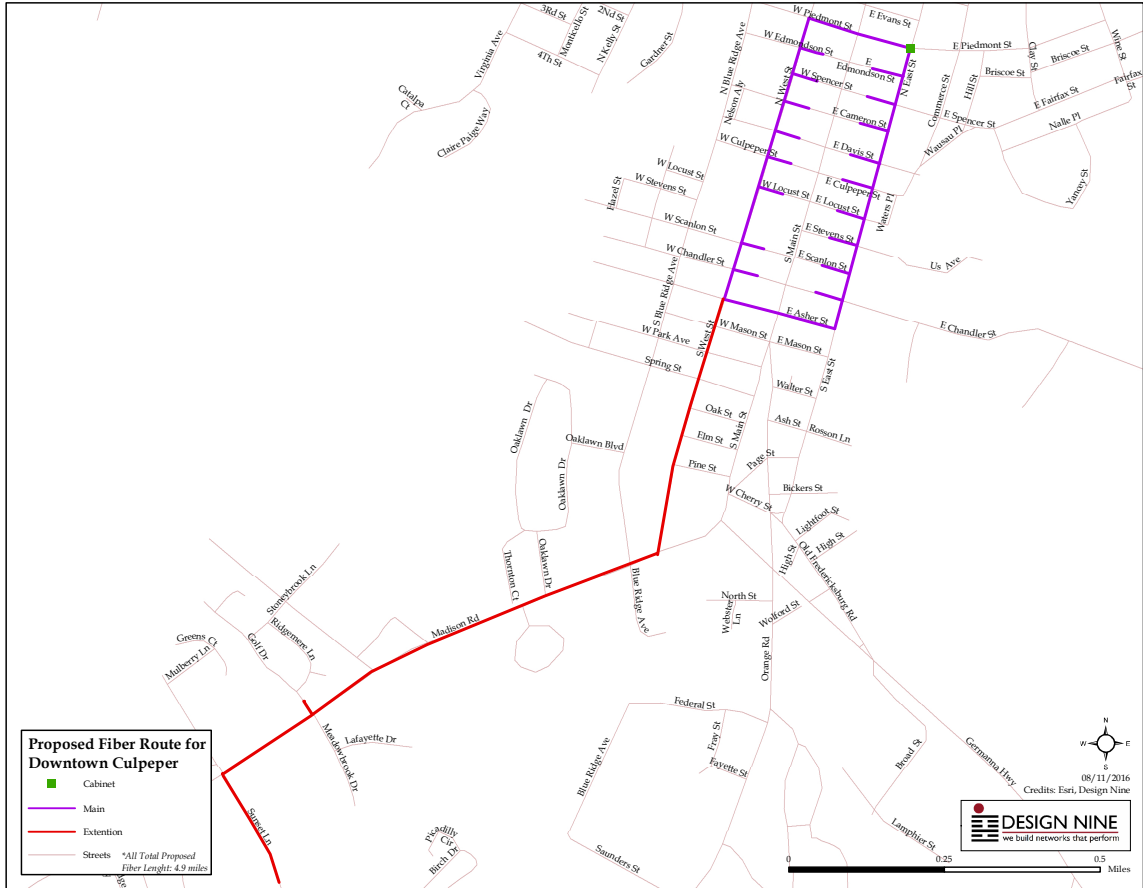
TOWN OF CULPEPER

This study includes more conduit/fiber route miles (2.1 miles) than the Airpark study and includes a complete loop, which can provide network redundancy—a highly desirable design element of fiber networks—a fiber cut on a redundant fiber loop will not cause loss of service.

This estimate also assumes a “first phase” connection to 120+ businesses and homes and a single meet-me cabinet where service providers would connect to the dark fiber network. The cost per building pass is high because of the larger amount of conduit/fiber routes miles, but like the Airpark analysis, adding more connected premises would bring that amount down.



The map below shows a fiber extension that would continue from the downtown area to the hospital and then on to the wellness center. This increases the cost of the downtown project but the fiber extension (the red line) passes more businesses and several residential neighborhoods that could provide more connections.



Town of Culpeper Infrastructure Overview

1	ITEM/PROJECT	VALUE
2	Miles of Fiber / Conduit Installed	4.91
3	Number of Handholes Installed	87
4	Splice Closures Installed	40
5	Cabinets Installed	1
6	Number of Customers Connected	120

Town of Culpeper Infrastructure Analysis

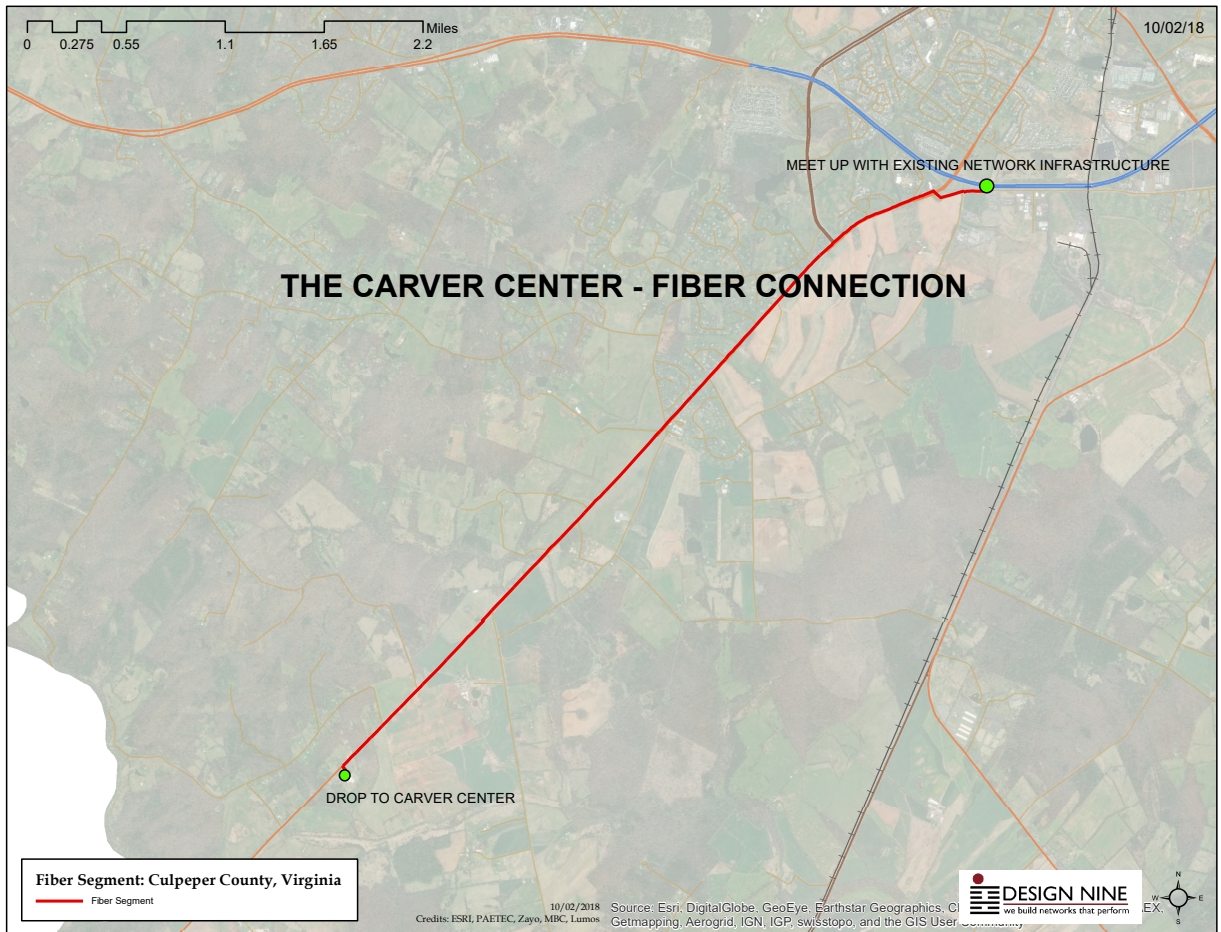
1	ITEM/PROJECT	ESTIMATED
2	Total cost per mile	\$201,500.83
3	Distribution construction cost per mile	\$141,117.32
4	Distribution cost per mile (no drops)	\$120,954.38
5	Total Cost per building connected	\$8,244.74
6	Drop Costs per building connected	\$8,244.74

Town of Culpeper Summary of Costs

1	ITEM/PROJECT	ESTIMATED
2	Culpeper Dark Fiber Construction Materials	\$182,659.02
3	Culpeper Dark Fiber Distribution Labor	\$389,012.00
4	Culpeper Dark Fiber Structures, Cabinets, and Equipment	\$22,215.00
5	Culpeper Dark Fiber Drop Construction	\$99,000.00
6	Network Construction Subtotal	\$692,886.02
7	Project Management, Network Engineering, Integration, and Testing	\$83,146.32
8	Engineering, Permitting	\$69,288.60
9	Misc Fees, Advertising, Technical Services	\$10,000.00
10	Bookkeeping and Administration	\$5,000.00
11	Other Costs Subtotal	\$167,434.92
12	Project Total (No Contingency)	\$860,320.95
13	Contingency at 15%	\$129,048.14
14	Project Total (with contingency)	\$989,369.09

CARVER CENTER

The Carver Center has a great deal of potential for new businesses to co-locate alongside The Carver Center's existing partners. In addition to the school and outbuildings there are 12 acres to expand or facilitate complementary uses such as greenhouses, crop studies, maker spaces, or other great ideas. The main school includes fully renovated office spaces that could be leased immediately, large classrooms on the main level and the upper level, a large auditorium and cafeteria, a woodworking shop, and a fully renovated library being used by the GWC alumni museum. Each lease holder could be an independence customer with potential for approximately 25 individual accounts at full capacity.



Infrastructure Overview

1	ITEM/PROJECT	VALUE
2	Miles of Fiber / Conduit Installed	4.96
3	Number of Handholes Installed	44
4	Splice Closures Installed	2
5	Cabinets Installed	0
6	Number of Customers Connected	1

Summary of Costs

1	ITEM/PROJECT	ESTIMATED
2	Route 15 Dark Fiber Construction Materials	\$127,994.41
3	Route 15 Dark Fiber Distribution Labor	\$217,719.80
4	Route 15 Dark Fiber Structures, Cabinets, and Equipment	\$0.00
5	Route 15 Dark Fiber Drop Construction	\$4,525.00
6	Network Construction Subtotal	\$350,239.21
7	Project Management, Network Engineering, Integration, and Testing	\$42,028.71
8	Engineering, Permitting	\$52,535.88
9	Misc Fees, Advertising, Technical Services	\$10,000.00
10	Bookkeeping and Administration	\$5,000.00
11	Other Costs Subtotal	\$109,564.59
12	Project Total (No Contingency)	\$459,803.80
13	Contingency at 10%	\$45,980.38
14	Project Total (with contingency)	\$505,784.18

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Culpeper County VATI Grant Application Public Notice

“Delivery of Technology- Culpeper, Orange, and Madison (DOT COM)”

Culpeper County intends to apply for a 2020 Virginia DHCD Virginia Telecommunications Initiative grant to support the deployment of middle mile fiber optic cable and fixed wireless broadband service in the Cedar Mountain Magisterial District of the county.

Culpeper, Orange, and Madison Counties are currently preparing a regional application to the Virginia Department of Housing and Community Development- Virginia Telecommunication Initiative Program (VATI) Grant.

The project known as “Delivery of Technology- Culpeper, Orange, and Madison (DOT COM)” will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle mile route along James Madison Highway extending 18 miles. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize fiber recently installed to every Orange County School and public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County who are located in areas designated as unserved and underserved by the FCC.

VATI requires that a municipality partner with a private sector internet service provider in order to apply. Virginia Broadband, LLC, a Culpeper based wireless internet service provider, has agreed to partner in the application. They will use approximately \$23,000 of the grant award to purchase and install a 99’ guyed pole and wireless broadband equipment to serve the identified FCC 477 “Unserved” and “Underserved” census tracts in Culpeper County. Reaching unserved homes is a critical component to a successful application.

Total project cost is estimated at \$1,307,806.00. VATI will provide 80% of the total project cost with a 20% local match requirement.

Comments are invited and will be received on this project until close of business August 30, 2019. They can be submitted in person or by mail to Laura Loveday at 803 South Main Street, Culpeper, VA 22701; by phone at (540) 727-3410 x 5 during usual business hours and by email to lloveday@culpepercounty.gov. All comments will be considered and submitted with the application.

**MEMORANDUM OF UNDERSTANDING
ESTABLISHING THE MIDDLE MILE FIBER OPTIC CABLE ROUTE ALONG JAMES
MADISON HIGHWAY KNOWN AS DELIVERY OF TECHNOLOGY- CULPEPER,
ORANGE, MADISON or “DOT COM”**

I. Introduction

This Memorandum of Understanding (MOU) is entered into by Culpeper County, Orange County, and Madison County, each a separate and distinct political subdivision of the Commonwealth of Virginia. Today’s need for broadband infrastructure have heightened the need for this type of regional inter-cooperative agreement. This MOU aids in ensuring that the broadband infrastructure reaches optimal utilization of finite resources and maximum interoperability. This partnership between neighboring local governments benefits public safety, education, healthcare, economic development, and tourism for our residents and visitors.

II. Factual Recitals and Purpose

Whereas, Culpeper County, Orange County, and Madison County collectively have applied for a 2020 Virginia Telecommunication Initiative (VATI) Program Grant to own, operate, and maintain 18 miles of middle mile, open access fiber optic cable to be located along James Madison Highway for the benefit of their residents and visitors;

Whereas, the regional integration of fiber assets generally has been shown to expand access to broadband;

Whereas, the integration of the aforementioned Counties’ interest into a regional fiber route infrastructure would not negatively impact the delivery of broadband or public safety services to the respective Counties;

Whereas, the establishment of a regionally integrated fiber route should increase the opportunities of the aforementioned Counties and their respective public safety agencies and county departments to obtain state and federal grants regarding broadband access and public safety;

Whereas, the Interoperable fiber route along James Madison Highway, which includes the aforementioned Counties, will serve as a model for the operation of the regional municipal fiber routes;

Whereas, this MOU will benefit the public health, safety, and welfare of the residents and visitors of the aforementioned Counties;

Whereas, such inter-cooperative endeavor requires an agreement regarding the level of financial contribution towards costs and maintenance by each locality; and

Whereas, Culpeper County, Orange County, and Madison County desire to enter into an agreement to set forth in writing their respective rights, duties, and obligations hereunder.

NOW, THEREFORE, WITNESSETH that for and in consideration of the mutual promises herein and for good and valuable consideration, it is mutually agreed amongst the parties as follows:

III. Agreement Provisions

Section 1. Establishment of the shared fiber asset.

(a) Upon the execution of this agreement by Culpeper County, Orange County, and Madison County (hereinafter “the Parties”), the fiber route known as Delivery of Technology- Culpeper, Orange, Madison (hereinafter “DOT COM”) shall be established. DOT COM shall be the regional fiber route established by the shared use of fiber assets constructed with VATI grant funds.

Section II. Financial Responsibility/Addressing Costs.

(a) The Parties shall individually remain responsible for individual costs, as follows:

(b) The Parties agree proportionally to share the cost 50% (Culpeper) - 50% (Orange) - for maintaining and enhancing the shared core infrastructure, as detailed below:

(c) With regard to the following:

the Parties agree to share costs as follows:

Section III. Governance of DOT COM .

(a) The Parties recognize the need to establish a governance structure for DOT COM. As such, following the execution of this MOU, the Parties agree to work towards the establishment of system governance guidelines and policies designed to ensure that the systems are maintained at the highest operational level through efficient and effective management, and ensure the continued currency, growth, and expansion of in order to best serve the residents and visitors of the aforementioned Counties.

(b) The Parties agree that within 90 days of the execution of this MOU that they will individually appoint representatives to a Panel, as follows for each member jurisdiction:

_____,
which Panel shall be a working partnership to develop governance guidelines and other policies for DOT COM. Said appointees shall attend scheduled meetings and represent their jurisdictions in all matters relating to the governances, operation, and expansion of DOT COM.

Section IV. Term.

(a) It is the intention of the Parties that this MOU shall be considered an intergovernmental contract as authorized under the laws of the Commonwealth of Virginia, including but not limited to the Constitution of Virginia, Article VII, Section III and the Code of Virginia (1950), as amended, Title 15.2. Counties, Cities and Towns, Chapter 13. Joint Actions by Localities, and shall continue in force and effect indefinitely from the date of execution until such time as DOT COM is terminated.

Section V. Withdrawal.

(a) A Party to this MOU shall have the ability to withdraw from DOT COM by providing all other Parties of DOT COM with written notice of the Party's intention to withdraw from this MOU.

(b) Other limitations or considerations, including fees/costs/refunds regarding withdrawal, include:

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

Section VI. Limits of Authority. Any plan or other action that proposes expenditures by the local governing authorities is subject to approval and appropriation by the governing body of each member jurisdiction.

Section VII. Future Expansion of DOT-COM. Membership to DOT COM may be open to other local governments and public safety entities in the region with the approval of the then-existing Parties of DOT COM.

Section IX. Appendices.

With regard to the following:

_____,
_____,
_____, and
_____.

please refer to Appendices ____, ____, ____, and ____, respectively, which are attached hereto and incorporated herein.

Section X. Agreement to Negotiate in Good Faith. Prior to any termination of this agreement or a parties withdrawal, the parties agree to discuss and negotiate in good faith to continue this agreement/relationship. The parties agree to consider joint participation in rebuilding or relocating sites, as necessary. In the event that the fiber optic cable becomes obsolete or is replaced by non-compatible equipment, the parties agree to re-evaluate viability and/or terms of this agreement.

Section XI. Remedies in case of material breach or damage. In the event that any party damages - through misuse, improper repairs or other improper action - the equipment of another member locality, as shared and/or used attendant to participation in DOT COM, the party causing the damage agrees to repair or replace the damaged equipment. Failure to do so shall constitute a material breach of this agreement. The parties shall each maintain property and casualty insurance sufficient to guarantee the repair or replacement of shared equipment.

Section XII. Annual Meeting. The parties agree to meet at least annually to discuss the operation of the shared equipment and facilities.

Section XIII. Applicable Law and Venue. The parties agree that the laws of the Commonwealth of Virginia control this agreement. Moreover, for any action related to this agreement, the agreed upon venue shall be the locality in which the shared equipment that is the subject/basis for the dispute is located. In the event that a dispute involves matters other than infrastructure or equipment, the venue shall be the jurisdiction in which the events take place that give rise to the claim or dispute.

Section IX. Severability. If any part or parts, sentence, clause, or phrase of this agreement is for any reason declared to be unconstitutional or invalid by any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this agreement.

Section X. Completeness of Agreement. This agreement constitutes the entire agreement between the parties and supersedes all prior negotiations, representations, or agreements, either oral or written.

Section XI. Amendments. This Agreement may be amended upon mutual agreement of all the Parties by a written modification authorized by resolutions of the governing bodies of the Parties.

Section XII. Notices. Notices under this agreement shall be sent by certified mail to the following:

Culpeper County

Name: _____
Title: _____
Address Line 1: _____
Address Line 2: _____
City State Zip: _____
Email: _____

and also a copy to its County Attorney at _____
(address)

Orange County

Name: _____
Title: _____
Address Line 1: _____
Address Line 2: _____
City State Zip: _____
Email: _____

and also a copy to its County Attorney at _____
(address)

Madison County

Name: _____
Title: _____
Address Line 1: _____
Address Line 2: _____
City State Zip: _____

Email: _____

and also a copy to its County Attorney at _____
(address)

{THIS PORTION OF THE PAGE INTENTIONALLY LEFT BLANK}

DRAFT

IN WITNESS WHEREOF, the parties have caused this Agreement to be duly executed and effective as of the date first written above by their duly authorized representatives.

Signatures:

Signature	Title	Jurisdiction	Date
Printed Name: _____			
Address Line 1: _____			
Address Line 2: _____			
City State Zip: _____			
Telephone: _____			
Facsimile: _____			
Email address: _____			

Signature	Title	Jurisdiction	Date
Printed Name: _____			
Address Line 1: _____			
Address Line 2: _____			
City State Zip: _____			
Telephone: _____			
Facsimile: _____			
Email address: _____			

Signature	Title	Jurisdiction	Date
Printed Name: _____			
Address Line 1: _____			
Address Line 2: _____			
City State Zip: _____			
Telephone: _____			
Facsimile: _____			
Email address: _____			

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Approved as to form by County Attorneys:

Signature (Date)
Printed Name: _____
Jurisdiction: _____

Signature (Date)
Printed Name: _____
Jurisdiction: _____

Signature (Date)
Printed Name: _____
Jurisdiction: _____

DRAFT

LAURA LOVEDAY

From: John Barker <jbarker@barkerleadership.com>
Sent: Monday, August 26, 2019 10:43 AM
To: LAURA LOVEDAY
Subject: Public Comment VATI Grant --in Support of

Laura,

The VATI Grant for "Delivery of Technology" is something that needs to take place for Culpeper to remain a competitive environment for work and life.

The local areas of Culpeper, Orange, and Madison should provide the 20% matching funds on award of the grant from the state. There should be no hesitation in providing those funds.

This is the first step of a larger and faster initiative that needs to take place to achieve a 95%+ coverage of broadband services in Culpeper and other surrounding rural counties.



John Barker

MBA PMP

Mobile: [540-455-4282](tel:540-455-4282)

Email: jbarker@barkerleadership.com

Website: www.barkerleadership.com



IMPORTANT: The contents of this email and any attachments are confidential. They are intended for the named recipient(s) only. If you have received this email by mistake, please notify the sender immediately and do not disclose the contents to anyone or make copies thereof.





AMERICAN BATTLEFIELD TRUST ★ ★ ★

PRESERVE. EDUCATE. INSPIRE.

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Alexandria, Virginia

Susan Whitaker
Franklin, Tennessee

*Chairman Emeritus

August 29, 2019

Laura Loveday, AICP
Special Projects and Grants Administrator
Culpeper County
803 South Main Street
Culpeper, VA 22701

Dear Ms. Loveday:

I am writing on behalf of the American Battlefield Trust (the Trust), a nonprofit, nonpartisan organization dedicated to preserving America's hallowed battlegrounds and educating the public about what happened there and why it matters today. To date, the Trust has protected more than 50,000 acres associated with the Revolutionary War, War of 1812 and Civil War in 24 states, including 498 acres of Culpeper County's historic Cedar Mountain Battlefield.

Earlier this month, Culpeper County announced its intent to apply for a 2020 Virginia Telecommunication Initiative (VATI) grant from the Virginia Department of Housing and Community Development (DHCD). According to the County, this grant would "support the deployment of middle mile fiber optic cable and fixed wireless broadband service in the Cedar Mountain Magisterial District." The project — dubbed "Delivery of Technology - Culpeper, Orange, and Madison" (DOT COM) — would span multiple localities and extend 18 miles along James Madison Highway, including the portion of the highway which crosses the Cedar Mountain Battlefield. Further, as part of the project, the County has proposed the installation of "a 99' guyed pole and wireless broadband equipment"; as currently envisioned, this pole and equipment would be placed within core battlefield at Cedar Mountain in the immediate vicinity of land previously preserved by the Trust and our partners, visible on the attached map.

The Trust believes that the DOT COM project's goal of increasing connectivity in unserved and underserved areas of Culpeper County is one to be commended. We also believe it vital that the County pursue this goal in a manner which will avoid or minimize any adverse effects to the Cedar Mountain Battlefield — and are concerned that the installation of a 99' guyed pole as and where envisioned could have a lasting and negative impact on this nationally significant site.

We are guided in our assessment by the federal Civil War Sites Advisory Commission (CWSAC) and its *Report on the Nation's Civil War Battlefields*. Established in 1990, the CWSAC was tasked by Congress to identify America's most significant Civil War sites. Out of the roughly 10,500 armed conflicts that occurred during the Civil War, only 384 of these — 3.7 percent — were recognized by the CWSAC as the war's principal battles, Cedar Mountain among them. Fought on August 9, 1862, the battle marked the deadliest day in Culpeper's history.

The Virginia Department of Historic Resources (DHR) [notes](#) that "all cell towers and other communication facilities licensed or permitted by the Federal Communications Commission (FCC) are

Letter from the American Battlefield Trust (continued)

Page 2 of 2

August 29, 2019

subject to Section 106 of the National Historic Preservation Act.” In the event that DHCD grants the funding necessary for the DOT COM project to proceed, consultation with DHR, the Trust, the Friends of Cedar Mountain Battlefield and interested parties prior to the design and installation of the project’s proposed 99’ guyed pole will be essential to ensuring avoidance or minimization of adverse effects — visual or otherwise — to the Cedar Mountain Battlefield.

Such an approach is in keeping with both the federal Section 106 process as well as DHR’s own [policy](#): “DHR recommends avoidance of adverse visual effects on historic properties. If avoidance is not possible or feasible, DHR recommends minimizing adverse visual effects through modifications to the project’s location, scale, or design. If, even after efforts to minimize impacts, the adverse visual effect persists, further mitigation may be necessary.”

Sensitivity is similarly warranted in undertaking the project writ large, beyond placement of the proposed 99’ guyed pole. While the County’s “plan is to install the fiber infrastructure inside the state Rights of Way” along James Madison Highway, it will be of the highest imperative to ensure that those entrusted to carry out the installation remain strictly within these confines. The previously preserved battlefield land at Cedar Mountain immediately adjacent to the proposed project area is under easement to the Virginia Outdoors Foundation and was also acquired with assistance from the federal Land and Water Conservation Fund, which would render any construction activities on — or non-recreative uses of — the property subject to federal oversight.

It is important to emphasize that the Trust understands and appreciates how the DOT COM project stands to benefit Culpeper County; as DHCD explains, “VATI prepares communities to build, utilize, and capitalize on telecommunications infrastructure with the goal of creating strong, competitive communities.” Battlefield visitors, too, stand to benefit from more reliable internet access, which would facilitate opportunities to further enrich their experience on-site. The employees and stewards of a potential state park inclusive of Cedar Mountain, long envisioned by the Trust, would likewise be well served by such technology. We are confident that — by maintaining and acting in accordance with the commitment to good-faith collaboration and consultation which has come to define the preservation community’s partnership with the County in recent years — it will be possible to chart a course for the project that fulfills the understandably diverse needs of the present without fraying the increasingly fragile links to our shared past.

Thank you for the opportunity to submit these comments on behalf of our organization. We look forward to working with Culpeper County and all involved as a Section 106 consulting party and partner if and when the DOT COM project proceeds. Please do not hesitate to contact us at (202) 367-1861 if you have any questions or wish to discuss our comments further.

Sincerely,

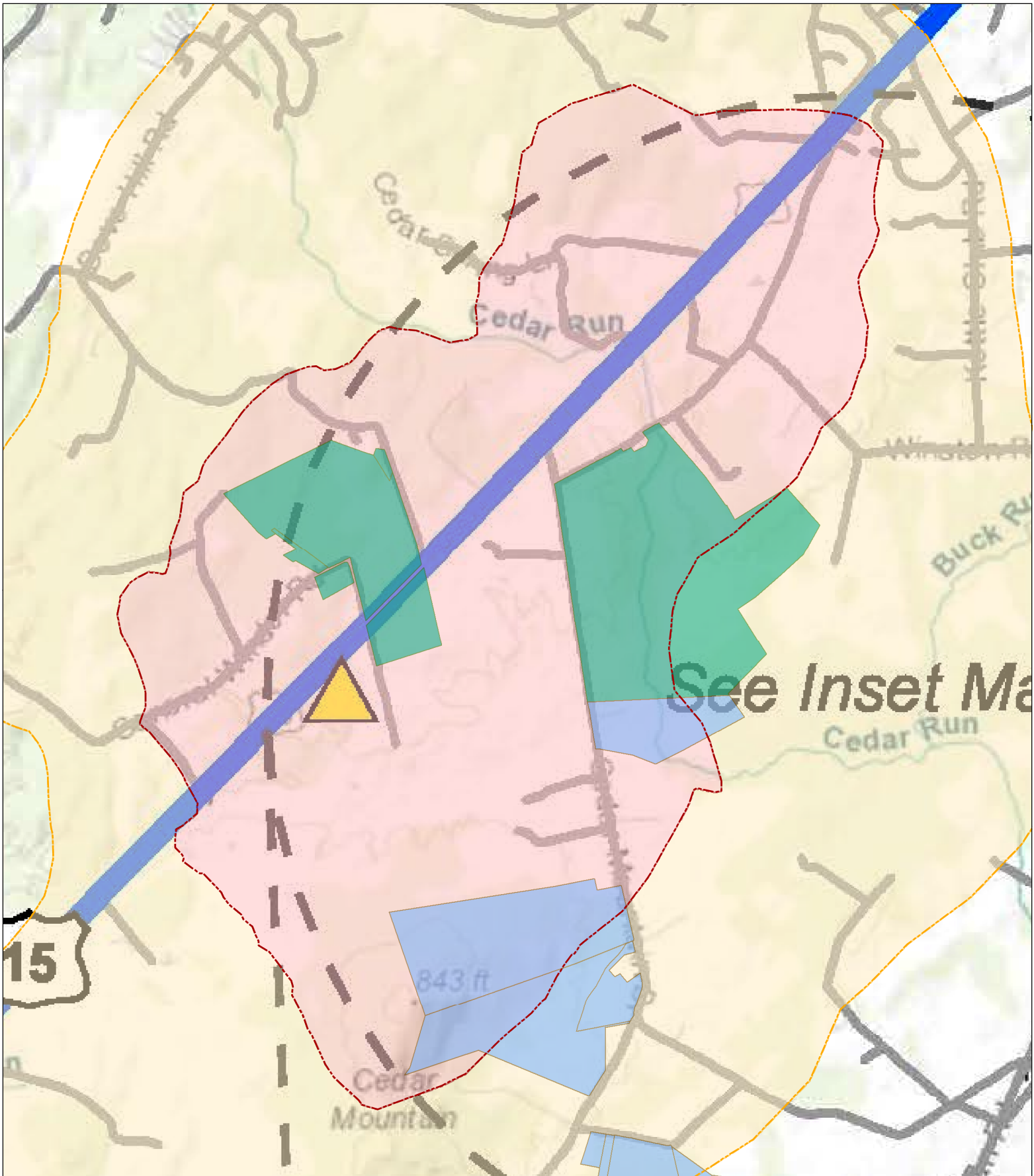


O. James Lighthizer, President

Attachment: Map of DOT COM Project at Cedar Mountain Battlefield

CC: Diane Logan — President, Friends of Cedar Mountain Battlefield

Roger Kirchen — Director, Review & Compliance Division, Virginia Department of Historic Resources



Prepared by the American Battlefield Trust

DOT COM Project at Cedar Mountain Battlefield (Culpeper County, VA)

Created on 8/12/19 by JM

- Preserved in Whole or in Part by the Trust
- Other Conservation Easements
- Battlefield Core Area
- Battlefield Study Area

0 0.25 0.5 0.75 1
Miles

N



LAURA LOVEDAY

From: Carl Sachs <cbsachs101@hughes.net>
Sent: Thursday, August 08, 2019 9:58 AM
To: LAURA LOVEDAY
Subject: DOT COM

Great job Laura. I 100% support the county's effort to expand internet access to this rural region of central Virginia. Good luck.

Carl Sachs
5577 Riverbend Lane
Reva, VA 22735

LAURA LOVEDAY

From: Crystal Maxwell <crystal.maxwell15@yahoo.com>
Sent: Wednesday, August 07, 2019 11:30 PM
To: LAURA LOVEDAY
Subject: Broadband services

We have had a horrible experience getting suitable internet for my son to homeschool. Living just outside the town of Gordonsville you would think that we could get better broadband services. We just got Hughes net today and it lags as well is very expensive considering the slow speed. Needless to say this grant is very much needed in our area.

Address
18123 wolftrap court
Gordonsville, Va. 22942

Sincerely,
Crystal Krantz

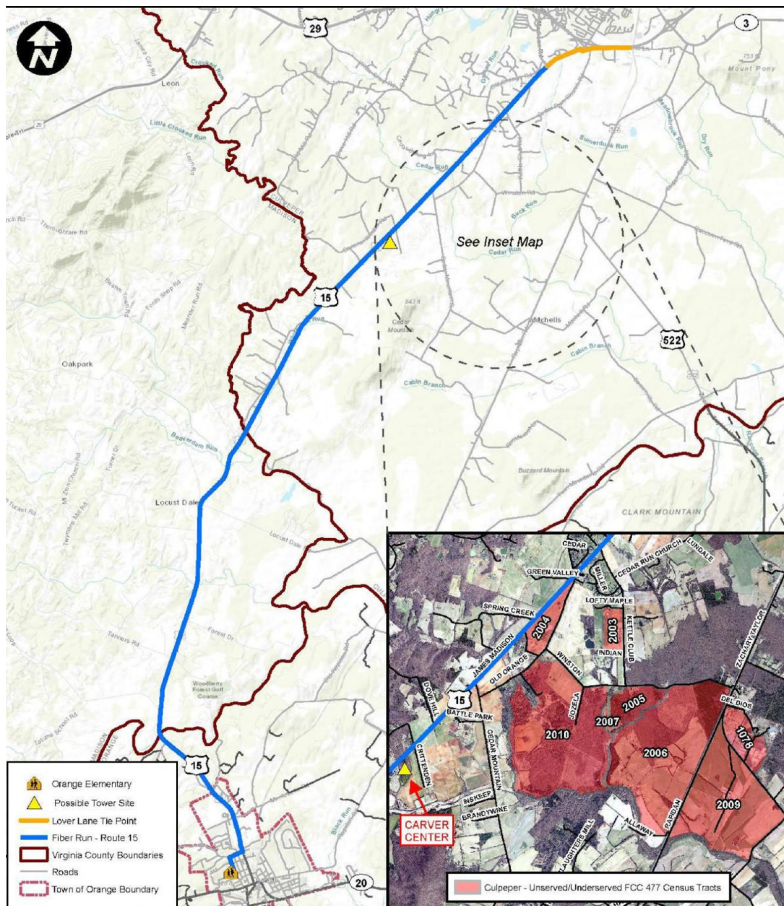
[Sent from Yahoo Mail on Android](#)

https://www.starexponent.com/news/culpeper-pursues-state-grant-to-install-internet-fiber-along-james/article_7a386897-815c-53dc-917f-8fdef63619da.html

TOP STORY

Culpeper pursues state grant to install internet fiber along James Madison Highway

By ALLISON BROPHY CHAMPION CULPEPER STAR-EXPONENT Aug 7, 2019



Map showing route for a proposed project that would install 18 miles of internet fiber along James Madison Highway.

CONTRIBUTED PHOTO

Culpeper County is pursuing a \$1.3 million state grant to install 18 miles of internet fiber along U.S. Route 15 in conjunction with Orange and Madison counties.

The initiative is being called DOT COM—which stands for Delivery of Technology to Culpeper, Orange and Madison. Laura Loveday with the Culpeper County Economic Development Office gave a presentation Tuesday to the Board of Supervisors about the proposed project, which would provide high-speed internet to various schools, businesses and public facilities along the route.

As private internet provider interest in the line developed, the high-speed could eventually serve homes as well. In the meantime, as part of the proposal, a 99-foot-tower and associated equipment would be installed at the Carver Center, boosting wireless residential access in the under-served area.

The proposed “fiber middle mile route” would initiate at Orange Elementary School and end at the Lover’s Lane location of Virginia Broadband, a project partner. The technology initiative would also allow Orange County to utilize 33 miles of fiber it recently installed to each of its public schools and a public safety tower as part of a second phase of its initial \$1.8 million project, Loveday said.

The sought-after grant for the DOT COM project, if approved, would come from the 2020 Virginia Telecommunication Initiative of the Virginia Department of Housing & Community Development. The statewide pool for the initiative is \$19 million, according to Loveday. Applications are due Sept. 3.

If approved, the state grant would cover 80 percent of the project cost, with Orange County chipping in \$156,937 toward the local match, and Culpeper County, \$104,624.





00:03 / 00:15

AD



Culpeper and Orange county officials met in July to determine the highest need regarding broadband in each locality, according to Loveday. It was quickly determined that the region lacks the middle-mile infrastructure needed to fulfill the governor's pledge to serve all rural Virginians with internet access, she said. Open access fiber routes to which private providers could connect is the most urgent need, and that is what the proposed grant-funded project would construct.

"We're not looking to serve homeowners along this route right now," Loveday said, noting wireless access would be expanded in the region. More partners would be needed to build "branches" off of the broadband trunk, she said. "It gives a good opportunity to tie into that future network."

Besides the Carver Center, the new fiber line would provide high speed to the Locust Dale Post Office, Willow Run Greenhouses, Fairview Cattle and Grain, Tuscany Hall, The Hartland Institute, the Inn at Willow Grove and Dogwood Assisted Living Facility, among others, according to the grant application.

Culpeper County Supervisor Steve Walker supported the grant application, saying he appreciated the regional approach for laying the fiber. “I think it’s a great idea,” he said. The Board of Supervisors unanimously voted to approve the grant application.

Public comments on the proposal are invited through August 30. They can be submitted in person or by mail to Laura Loveday at 803 S. Main St. in Culpeper; by phone at 540/727-3410 ext. 5 or by email to lloveday@culpepercounty.gov. All comments will be considered and submitted with the grant application.

abrophy@starexponent.com

540/ 825-4315

Allison Brophy Champion



Virginia Rural Broadband...



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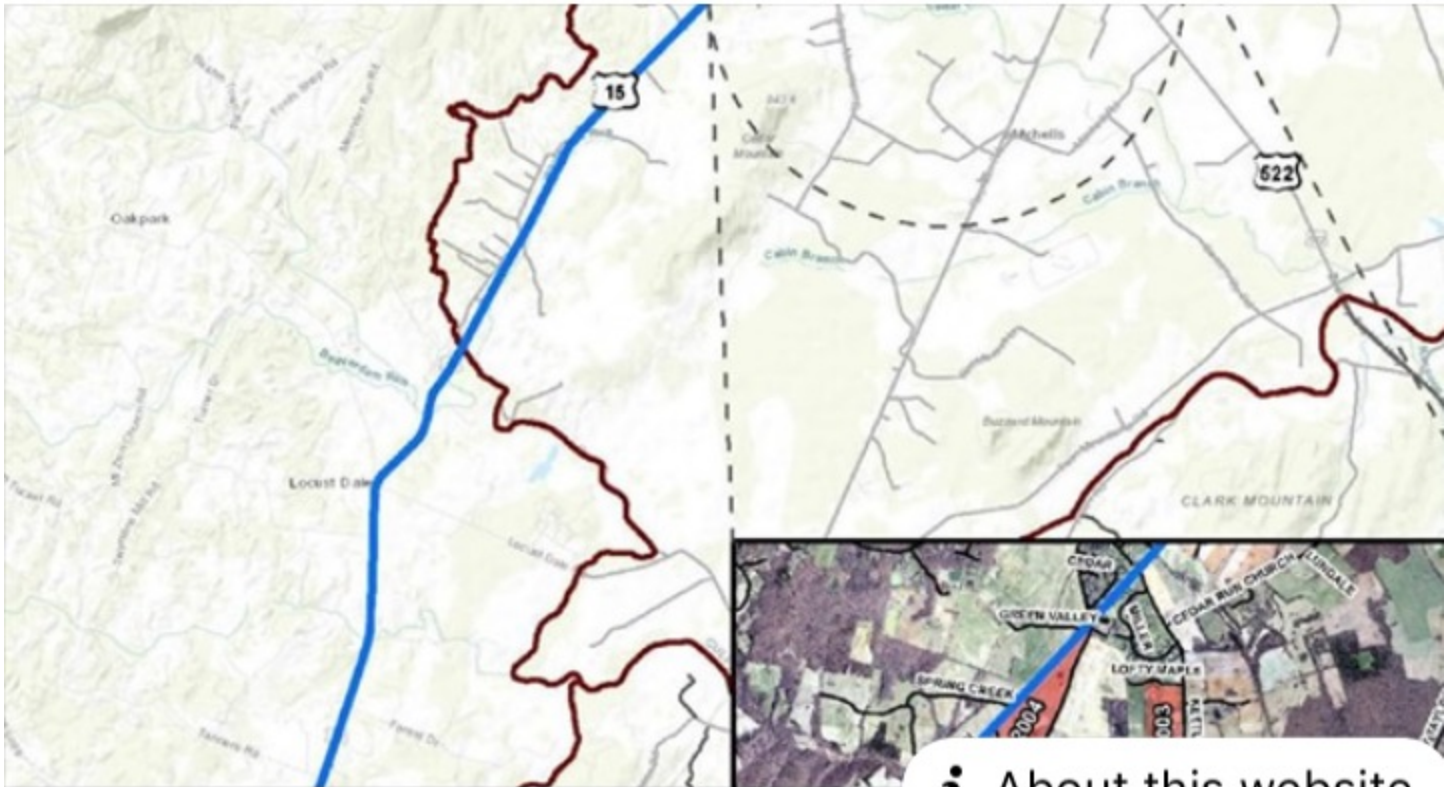
Community



Virginia Rural Broadband Coalition

2 hrs · 🌐

Progress in the right direction, if this happens for Culpeper, Orange and Madison counties.



About this website

FREDERICKSBURG.COM

Culpeper pursues state grant to install internet fiber

**Memorandum of Understanding and Agreement between the
Virginia Broadband, LLC and Culpeper County
Regarding 2020 Virginia Telecommunication Initiative Program Funding**

This is a Memorandum of Understanding and Agreement, by and between Culpeper County, Virginia, a political subdivision of the Commonwealth of Virginia and Virginia Broadband, LLC, a Virginia limited liability corporation (LLC Id. No. S571414-4), in furtherance of the administration, in whole or part, of a grant under the Virginia Telecommunication Initiative (VATI) program.

On {Date}, the Virginia Department of Housing and Community Development ("DHCD") announced that it had awarded a grant to Culpeper County, Virginia ("Subgrantee") with a maximum total of {amount awarded} dollars (\$) in funding under the VATI program.

The grant agreement, {Grant reference name and number}, amongst the state and local agency signatories, including but not limited to DHCD and Culpeper County, Virginia (VATI Agreement Addendum) imposes certain responsibilities on Culpeper County, Virginia, as the Subgrantee, in accepting the VATI grant, and in order to receive the award funds.

Resulting from the successful joint application of the Subgrantee and Virginia Broadband, LLC under the VATI Virginia program, {amount} dollars (\$) in funding was secured for Virginia Broadband, LLC. Pursuant to the program guidelines and statutory authority, the primary objective of VATI Virginia is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure.

At present, Culpeper County, Virginia and Virginia Broadband, LLC wish to outline the roles and responsibilities of each party consistent with the reading of all the grant documents now that the grant has been funded, in part. Accordingly, acknowledging the sufficiency of exchange of consideration in support of the Memorandum of Understanding and Agreement, the parties hereby agree and commit, as follows:

Virginia Broadband, LLC shall perform all work described in the DHCD VATI Agreement Addendum (attached hereto and incorporated herein by reference), the submitted application, the project management schedule and the budget. Specifically, Virginia Broadband, LLC shall complete all Grant Activities pertaining to Virginia Broadband, LLC, as described in the DHCD Contract Documents (including but not limited to, purchase and installation of 99' tower and related wireless broadband equipment at the Carver Center) on or before {Date}.

Virginia Broadband, LLC shall indemnify, defend, and hold the County harmless for any failure(s) to complete any Grant Activities described in the DHCD Contract Documents on or before {Date}.

Virginia Broadband, LLC shall provide timely receipts to Culpeper County, Virginia to the attention of the Finance Department for all equipment purchased using VATI Virginia funds.

The maintenance and operational costs of the aforementioned purchased equipment shall be and are the sole responsibility of Virginia Broadband, LLC.

All aforementioned purchased equipment shall at all times be kept and housed at 9444 James Madison Highway, Rapidan, Virginia 22733, except as may be necessary for repair and routine maintenance.

There shall be no sale or disposition of any pieces of the aforementioned purchased equipment absent Culpeper County's written consent to Virginia Broadband, LLC that the piece of equipment is permitted to be disposed of or sold.

Should Virginia Broadband, LLC cease to operate in Culpeper County, Virginia, the aforementioned purchased equipment shall remain at: 9444 James Madison Highway, Rapidan, Virginia 22733 and possession of the purchased equipment will and shall rightfully remain with Culpeper County, Virginia.

Virginia Broadband, LLC shall report in writing to the County within ten (10) days any lapse, cancellation, suspension, and/or termination of its status with the Virginia State Corporation Commission, as a limited liability company.

In the grant application, the parties estimated that on or before {Date}, Virginia Broadband, LLC will have advertised available internet service to the residents of the areas identified in the grant proposal. In good faith in support of those estimates, Virginia Broadband, LLC shall exercise due diligence and its best efforts at community outreach and marketing the availability of its available broadband internet services, such that the benchmarks reasonably may be met. The parties understand, however, that despite best efforts, the actual number of customers who may choose to purchase broadband internet is beyond the parties' control.

Culpeper County, Virginia

Virginia Broadband, LLC

By: _____
(signature)

By: _____
(signature)

Printed Name: John C. Egertson
Printed Title/Position: County Administrator
Date: _____

Printed Name: _____
Printed Title: Member/Managing Member
Date: _____

Approved as to form:

County Attorney



COMMONWEALTH OF VIRGINIA

HOUSE OF DELEGATES
RICHMOND

NICHOLAS J. FREITAS
210 NORTH MAIN STREET
CULPEPER, VIRGINIA 22701

THIRTIETH DISTRICT

COMMITTEE ASSIGNMENTS:
FINANCE
SCIENCE AND TECHNOLOGY
MILITIA, POLICE AND PUBLIC SAFETY FINANCE

Tamarah Holmes, Ph.D.
Associate Director of Policy and Strategic Development
Virginia Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, Virginia 23219

RE: Virginia Telecommunications Initiative (VATI) 2020 - "Delivery of Technology
– Culpeper, Orange, Madison (DOT COM)"

Dear Dr. Holmes,

I am writing to convey my support of the application submitted by Culpeper, Madison, and Orange Counties, in partnership with Virginia Broadband. The project, known as "DOT COM," will allow Culpeper, Madison, and Orange Counties to install a necessary fiber middle-mile route along James Madison Highway (Route 15) extending 18 miles through three counties. The project will serve schools, vocational training facilities, businesses, healthcare facilities, state agencies, and homes. The project will also allow Orange County to utilize a fiber route recently constructed connecting every Orange County school and every Orange County public safety tower. An upgrade to the wireless infrastructure along the route will increase access to homeowners and home-based businesses in Culpeper County, who are located in areas designated as unserved and underserved by the FCC.

As I understand it, the goal of VATI is to create strong, competitive communities throughout the Commonwealth by preparing those communities to build, utilize, and capitalize on telecommunications infrastructure. This project is an innovative regional collaboration that will help the Commonwealth achieve those goals

Sincerely,

A handwritten signature in black ink, appearing to read "Nick J. Freitas".

Nick J. Freitas
Delegate 30th District
540-222-7706
nfreitas@nickjfreitas.com