

Application to DHCD Submitted through CAMS

Roanoke Valley Broadband Authority

Catawba

Application ID: 95708232022150149
Application Status: Pending
Program Name: Virginia Telecommunication Initiative 2023 - Application
Organization Name: Roanoke Valley Broadband Authority
Organization Address: 601 South Jefferson Street Suite 110
Roanoke, VA 24011
Profile Manager Name: Frank M. Smith II
Profile Manager Phone: (540) 904-1073
Profile Manager Email: fsmith@highspeedroanoke.net

Project Name: Catawba
Project Contact Name: Frank M. Smith II
Project Contact Phone: (540) 904-1073
Project Contact Email: fsmith@highspeedroanoke.net
Project Location: 601 S. Jefferson Street, Ste 110
Roanoke, VA 24011-2432
Project Service Area: Craig County, Roanoke County

Total Requested Amount: \$599,496.00
Required Annual Audit Status: Pending Review

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$599,496.00	\$0.00	\$599,496.00
Construction	\$361,756.00	\$0.00	\$361,756.00
Other: Engineering	\$30,795.00	\$0.00	\$30,795.00
Other: Permits railroad crossing pole	\$2,300.00	\$0.00	\$2,300.00
Other: Outside Plant Material	\$170,395.00	\$0.00	\$170,395.00
Other: Initial Electronics	\$34,250.00	\$0.00	\$34,250.00
Total:	\$599,496.00	\$0.00	\$599,496.00

Budget Narrative:

The RVBA will contribute \$131,889.12 of the \$599,496.45 total cost for this project, equating to 22% of the total project costs.

Questions and Responses:

1. Project Description and Need

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

Answer:

The Roanoke Valley Broadband Authority and the counties of Craig and Roanoke have selected the proposed project area to support the local community with mission critical telecommunications backbone infrastructure and last mile connectivity. The project will provide additional redundant paths for service reliability and provide critical last mile connectivity for citizens in support of universal service for many years to come. The geographic area extends from the intersection of I- 81 and state route 311 to the surrounding area of Catawba Hospital, the VA Tech Sustainability Center and additional points north as needed, as depicted in Attachment 1 – Project Area Map.

2. List existing providers in the proposed project area and the speeds offered. Describe your outreach efforts to identify existing providers and how this information was compiled with source(s).

Answer:

Currently, Comcast does provide cable modem-based service in the area, but the service area is not ubiquitous with proposed project areas based on research and assessments. The Roanoke Valley Broadband Authority has also supported community meetings in the area to discuss the issue of limited service or no service at all. As example, a homeowner reached out to the RVBA regarding service because the cellular data service was limited at best. Her mission critical requirement is gaining access to high-speed internet to support her COVID-19 therapy research. She had moved to the area approximately eight (8) years ago from northern New Jersey to achieve a better quality of life. The problem is that her quality of life is great, but her “internet stinks or isn’t there”.

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

Answer:

Additional sources of funding can be found in Attachment 2 – Documentation on Federal Funding Area. Based on RVBA’s research to date, there is no conflict with federally funded broadband programs.

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4. Overlap: To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds below 100/20 Mbps and with less than 25% service overlap within the project area for wireless projects and 20% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. Label Attachment: Attachment 3 – Documentation Unserved Area VATI Criteria.

Answer:

- Overlap - To ensure quality connectivity for the long run, the proposed project provides mission critical telecommunications backbone infrastructure that will allow for future last mile connections to leverage the proposed middle mile network to unserved areas. This Open Access Middle Mile Network will help other last mile providers service the unserved or underserved areas of the Catawba region. The middle mile backbone project will support the efforts of the local electric cooperative, the VA Tech Catawba Sustainability Center, and the Catawba Hospital which provides critical care for behavioral health needs. The ability to receive highspeed access and add essential service redundancy, restoration, and resiliency capabilities is a mission critical need for these regional and national community anchor institutions.
5. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 25 Megabits per second download and 3 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 4 – Passings Form.
- a. Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
- b. If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
- c. If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise . Describe the methodology used for these projections.
- d. If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.
- e. Provide the number of passings in the project area that have 25/3 Mbps or less. Describe the methodology used for these projections. (up to 15 points)

Answer:

Serving a critical role in providing middle mile service as part of the broader, collaborative effort to achieve universal coverage, the total serviceable units are 276 as noted in Attachment 5 – Passings Form.

Information for items A-E are noted in attachment 4-Passings Form and Attachment 5 - RDOF Awarded Areas Form in VATI Area

6. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF) are included in the VATI application area. If RDOF areas are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. Label Attachment: Attachment 5 – RDOF Awarded Areas Form in VATI Area

Answer:

There are no RDOF conflicts along the proposed route. Please reference Attachment 4 – Documentation of Unserved Area VATI Criteria.

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

Answer:

Wireless Projects - Not applicable.

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

Answer:

Network Design - The RVBA over the past six (7) years has built an Open Access Fiber Optic Network (any carrier may use the network) which currently has over 120 miles of core backbone fiber. There are nine (9) switching centers on the network along with two Colocation Centers with a third being developed. The RVBA partners with multiple commercial service providers and has developed NNI (Network to Network Interface) with several commercial service providers (reference Attachment 18 – RVBA Network Map

9. **Speeds:** Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. List the private co-applicant's tiered price structure for all speed offerings in the proposed project area, including the lowest tiered speed offering at or above 100/20 Mbps. (up to 10 points)

Answer:

Speed - Not applicable.

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

Answer:

Universal Broadband Achievement - The RVBA was formed by the private and public sectors to drive investment, innovation, and service availability across its serving area of Botetourt County, Roanoke County, City of Roanoke, City of Salem, and the surrounding area. The RVBA is a mission critical component for providing service to the unserved and underserved. Currently, the RVBA has active and successful partnerships with last mile providers serving Bedford, Botetourt, and Franklin Counties in support of addressing the needs of rural broadband in support of universal service. RVBA is unique as it not only assesses the collective needs of the areas it serves and multiple constituents, but follows through with front line implementation and connectivity of each project.

11. **Project Readiness**

Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants are encouraged to extensively discuss, where applicable, easements relating to railroad crossings, federally-owned lands and parks, partnerships with the Virginia Department of Transportation, and mobile home parks. Applicants must include Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant; (up to 10 points)

Answer:

The project has been designed in full, with all walk-throughs and materials planning completed. See Attachment 7 – Timeline Project Management Plan for detailed project timeline and construction schedule. The Roanoke Valley Broadband Authority will be turn-keying this project and no co-applicant is required; therefore, no Memorandums of Understanding or Memorandums of Agreement are included.

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

Answer:

Not applicable – the RVBA has not received any VATI grant funding.

13. Matching funds: Complete the funding sources table indicating the cash match and in-kind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum 20% match is required to be eligible for VATI, the private sector provider must provide 10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. If applicants and co-applicants are seeking to include prior expended funds as matching funds, Attachment 11 must be completed. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding; Attachment 11 - Prior Expended Match Form

Answer:

See attachment 9 – Funding Sources Table. The RVBA is not requesting matching dollars from other parties at this time aside from DHCD/VATI, so no documentation of funding is included. The RVBA's matching contribution is outlined below on item 14.

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

Answer:

he RVBA will contribute \$131,889.12 of the \$599,496.45 total cost for this project, equating to 22% of the total project costs.

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15. Communications Plan: Describe efforts to keep the public informed of project progress and the broadband adoption plan.
- a. Explain how you plan on communicating the project status to stakeholders, including but not limited to County leadership, project areas residents, etc. (Up to 10 points)
 - b. Explain how you plan to promote customer take rate, including marketing activities, outreach plan, and other actions to reach the identified serviceable units within the project area. Provide the anticipated take rate and describe the basis for the estimate. (up to 10 points)
 - c. Describe any digital literacy efforts to ensure residents and businesses in the proposed project area sufficiently utilize broadband. Please list any partnering organizations for digital literacy, such as the local library or cooperative extension office.

Answer:

ommunications Plan

- a. As an Open Access Network owned and operated by the Roanoke Valley Broadband Authority, all marketing efforts will be directed and coordinated through the RVBA. This marketing effort will include the continued upkeep and maintenance for the RVBA website where project area residents and others can find information about the open- access network and who to contact directly for opportunities to tap into the network. The RVBA will also work directly with local media outlets to inform the public on information regarding the open-access network. In addition, the RVBA will provide regular project status updates to Craig and Roanoke County leadership.
- b. This project will build a middle mile network to help future last mile service providers. As an Open Access Network owned and operated by the Roanoke Valley Broadband Authority, all marketing efforts will be directed and coordinated through the RVBA. This marketing effort will include the continued upkeep and maintenance for the RVBA website where interested partners can find information about the open-access network and who to contact directly for opportunities to tap into the network. The RVBA will also work directly with local media outlets to inform the public on information regarding the open-access network. Finally, the RVBA will execute a community engagement plan that will feature RVBA member presentations at various community gathering such as schools, STEM programs, and locality meetings.
- c. The RVBA will publish relevant information on its website to ensure residents and businesses in the proposed project area know how to utilize the available broadband in the area. In addition, as part of the community engagement plan mentioned above, the RVBA will provide direct community education at neighborhood associations, libraries, and other community gatherings and through various community partners.

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16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co applicant's history and experience with managing grants and constructing broadband communication facilities.

Answer:

a. Key Individuals

Executive Management and Oversight

Mr. Frank Smith President & CEO RVBA Mr. Jim Bandy Vice President of Operations and Solutions Engineering RVBA
Proposal Business Operations, Management, and Procurement Compliance Ms. Tywanii Ross Business Operations
Administrator RVBA Financial Accounting Governance and Compliance

Ms. Tywanii Ross Business Operations Administrator RVBA

Outside Plant Construction Management

Mr. Barry Stacy Senior Manager for Project Management RVBA

Project Onsite Scheduling, Compliance, and Inspection

Mr. Danny Martin Outside Plant Field Manager RVBA

Network Installation and Planning

Mr. Jim Bandy Vice President of Operations and Solutions Engineering RVBA

b. History and Experience - The RVBA has an established history of building, maintaining, and growing its 110 miles plus Open Access Network in the Roanoke Valley. Because of its success in building the network, the RVBA has received several awards including the Governor's Technology Award for Cross-Boundary Collaboration and the national award by the Coalition for Local Internet Choice for Local Champion for community broadband development. For more information on the RVBA, please see Attachment 19 – RVBA General Info Brochure.

The RVBA follows strict professional standards in regard to financial management for daily operations and management. These strict standards apply to any outside funding such as federal grant dollars, and or funds received from the Commonwealth of Virginia including the Virginia Resources Authority (VRA). For the past six (7) years, each annual audit of the RVBA has resulted in a nonqualified audit result which demonstrates excellent financial management by the RVBA team.

17. **Project Budget and Cost Appropriateness**

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

Answer:

See Attachment 12 – Derivation of Costs and Attachment 13 – Documentation of Support Cost Estimates

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

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

Answer:

Cost benefit index information

a. Total VATI funding request: \$467,607.33

b. Number of serviceable units: We are providing middle mile infrastructure for any service providers to enable last mile service, furthering our open-access network. The numbers of passings is 274, as noted in Attachment 5 – Passings Form.

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19. Commonwealth Priorities (Up to 50 points)

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

- a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband.
- b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies.
- c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 100/20 mbps, include information regarding the internet service provider's participation in the Affordable Connectivity Program
- d. The co-applicant's efforts to mitigate supply chain constraints, including labor shortages and order-to-delivery delays on telecommunications materials required to construct broadband networks.
- e. The applicant's and co-applicant's efforts to promote broadband adoption, including, but not limited to: telehealth, smart farming, e-entrepreneurship, and distance learning.

Answer:

Commonwealth Priorities

- a. The Roanoke Valley Broadband Authority and the counties of Craig and Roanoke have selected the proposed project area to support the local community with mission critical telecommunications backbone infrastructure and last mile connectivity. The project will provide additional redundant paths for service reliability and provide critical last mile connectivity for citizens in support of universal service for many years to come. The geographic area extends from the intersection of I-81 and state route 311 to the surrounding area of Catawba Hospital, the VA Tech Catawba Sustainability Center and additional points north as needed.
- b. Catawba Hospital and the Virginia Tech Catawba Sustainability Center will utilize the expertise of the RVBA to act as a catalyst to support their respective missions with new and innovative applications through utilizing the RVBA network.
- c. The RVBA's core mission is to serve the community and all its members. Though the RVBA has not participated in the Affordable Connectivity Program, it is currently working with VA Tech, Carilion Clinic, Child Health Investment Partnership (CHIP) of the Roanoke Valley, and the City of Roanoke to support initiatives to address access to behavioral, acute, and chronic disease care using telecommunications services. The RVBA fully believes that new regional and national work in these areas will be modeled after the team's efforts. The RVBA has provided a leadership role in assembling the team to address issues of digital literacy, the digital divide, and digital access & affordability. The RVBA would be very excited to share the work of the team with DHCD. The approach to providing services will impact the entire Roanoke Valley and far beyond.
- d. The RVBA has been consistently proactive in securing materials in anticipation of future and current needs. Over the past seven (7) years the RVBA has developed a solid and trusted supply chain that is not dependent on one vendor. In addition, the RVBA has maintained relationships with construction firms at the national and local levels for design, installation, and ongoing support. The RVBA has been proactive in keeping inventory on-hand for emergency work and future projects.
- e. The RVBA's core mission is to serve the community and all its members. The RVBA has the privilege of currently working with VA Tech, Carilion Clinic, Child Health Investment Partnership (CHIP) of the Roanoke Valley, and the City of Roanoke to support initiatives to address access to behavioral, acute, and chronic disease care using telecommunications services. The RVBA fully believes that new regional and national work in these areas will be modeled after the team's efforts. The RVBA has provided a leadership role in assembling the team to address issues of digital literacy, the digital divide, and digital access & affordability. The RVBA would be very excited to share the work of the team with DHCD. The approach to providing services will impact the entire Roanoke Valley and far beyond.

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20. Additional Information

Please attach any letters of support from stakeholders. If the applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality.

Attachment 14 – Letters of Support.

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

Label Additional Attachments as:

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

Answer:

Letters of Support: See Attachment 14 – Letters of Support 21. Other Attachments:

- a. Attachment 18 – RVBA Network Map

Attachments:

Timeline/Project Management Plan

Attachment7TimelineProjectManagementPlan823202231052.pdf

Funding Sources Table (Use template provided)

Attachment9FundingSourcesTable823202231446.pdf

Derivation of Cost/Project Budget (Use template provided)

Attachment12DerivationofCosts823202231620.pdf

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Documentation of Supporting Cost Estimates

Attachment13DocumentationofSupportingCostEstimates823202231856.pdf

Letters of Support

Attachment14LettersofSupport823202231916.pdf

Two most recent Form 477 submitted to the FCC or equivalent

Attachment15TwomostrecentForm477submittedtotheFCCorequivalent823202231933.pdf

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

Attachment16PointandPolygonShapefiles823202231946.zip

Optional

Attachment18RVBANetworkMap8242022114607.pdf

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMap823202231112.pdf

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

Attachment2DocumentationofFederalFundingArea823202231220.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment3DocumentationUnservedAreaVATICriteria823202231247.pdf

Passings Form (Use template provided)

Attachment4PassingsForm823202231305.pdf

Documentation of RDOF awarded area in VATI project Area (Use template provided)

Attachment5RDOFAwardedAreasForminVATICriteria823202231332.pdf

Attachment 1 - Project Area Map

Roanoke Valley Broadband Authority-
Catawba

- Proposed Fiber
- Existing RVBA Fiber
- Project Area



0 0.5 1 2 Miles

1:55,000

NAD 1983 StatePlane Virginia South FIPS 4502 Feet

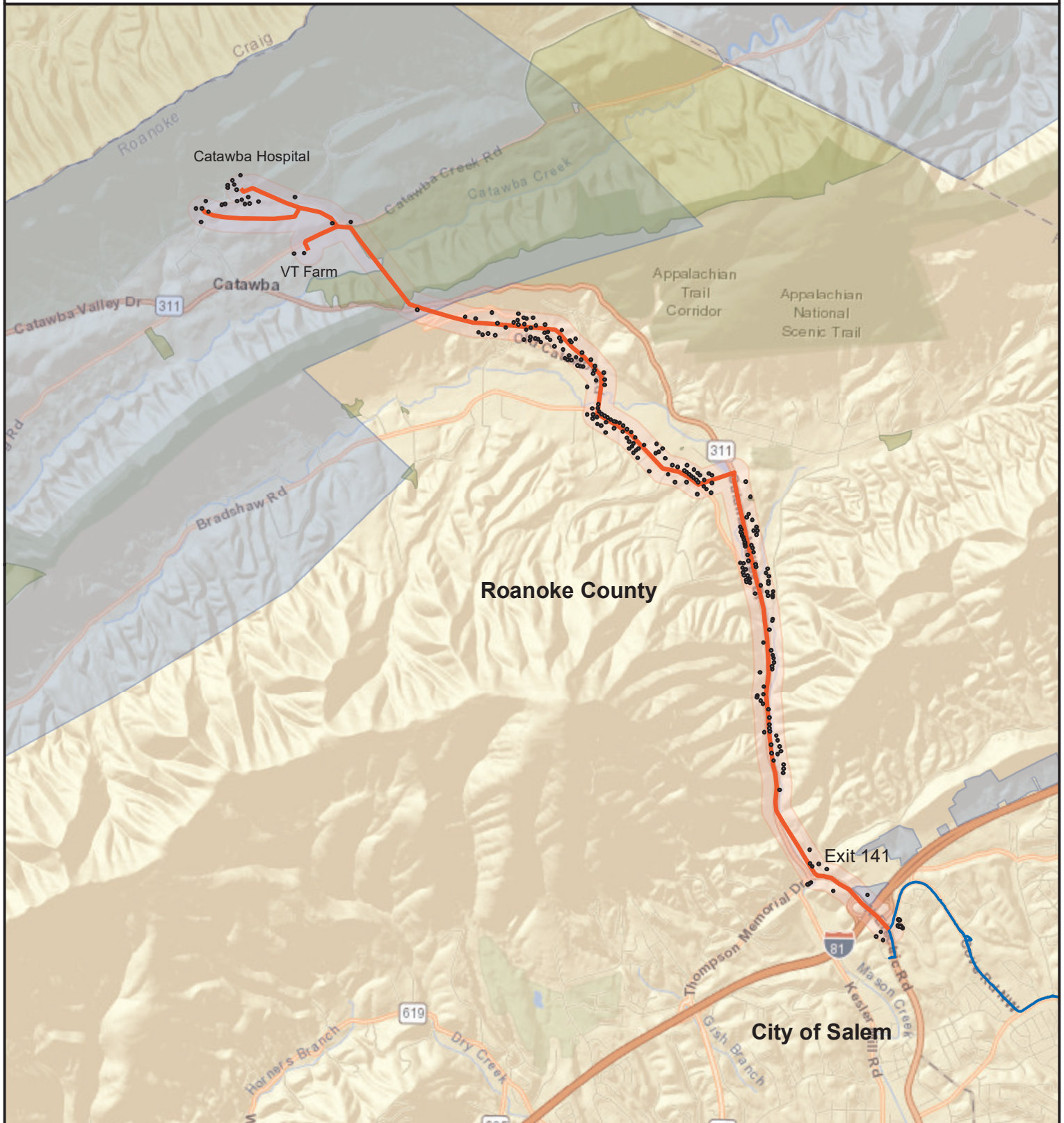


8/18/2022
Map by R. Bruns

Attachment 2 - Documentation of Federal Funding Area

Roanoke Valley Broadband Authority-
Catawba

- Proposed Fiber
- Existing RVBA Fiber
- Project Area
- RDOF Awarded
- VATI '22 Awarded



0 0.5 1 2 Miles

1:55,000

NAD 1983 StatePlane Virginia South FIPS 4502 Feet

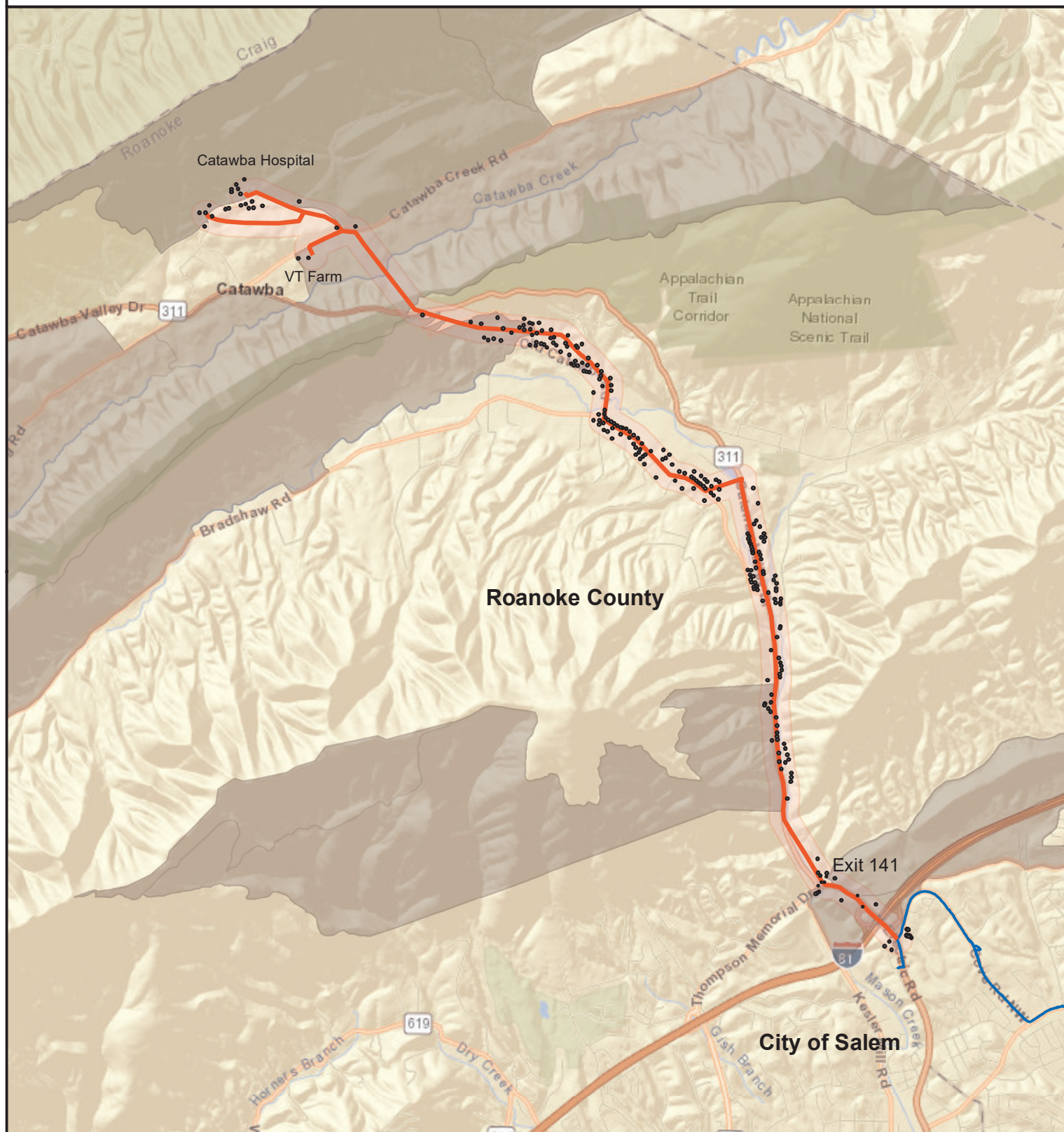


8/18/2022
Map by R. Bruns

Attachment 3 - Documentation Unserved Area VATI Criteria

Roanoke Valley Broadband Authority-
Catawba

- Proposed Fiber
- Existing RVBA Fiber
- Unserved Areas
- Project Area



0 0.5 1 2 Miles

1:55,000

NAD 1983 StatePlane Virginia South FIPS 4502 Feet



8/18/2022
Map by R. Bruns

2023 Virginia Telecommunication Initiative (VATI)

Passing Form

Roanoke Valley Broadband Authority- Catawba

Type of Passings	Total Number of Passings in the Project Area ¹	Passings in the Project Area, without Special Construction Costs Required ²	Passings with Special Construction Costs budgeted in the Application ³	Number of Passings with Speeds at 25/3 or below in Project Area ⁴
Residential	239	0	0	36
Businesses (non-home based)	12	0	0	0
Businesses (home-based)	0	0	0	0
Community Anchors	23	0	0	12
Non-residential	2	0	0	0
Total	276	0	0	48

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

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

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

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

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

⁴ The number of structures in the project area that do not have access to internet at speeds of at least 25 mbps download and 3 mbps upload.

Definitions

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

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

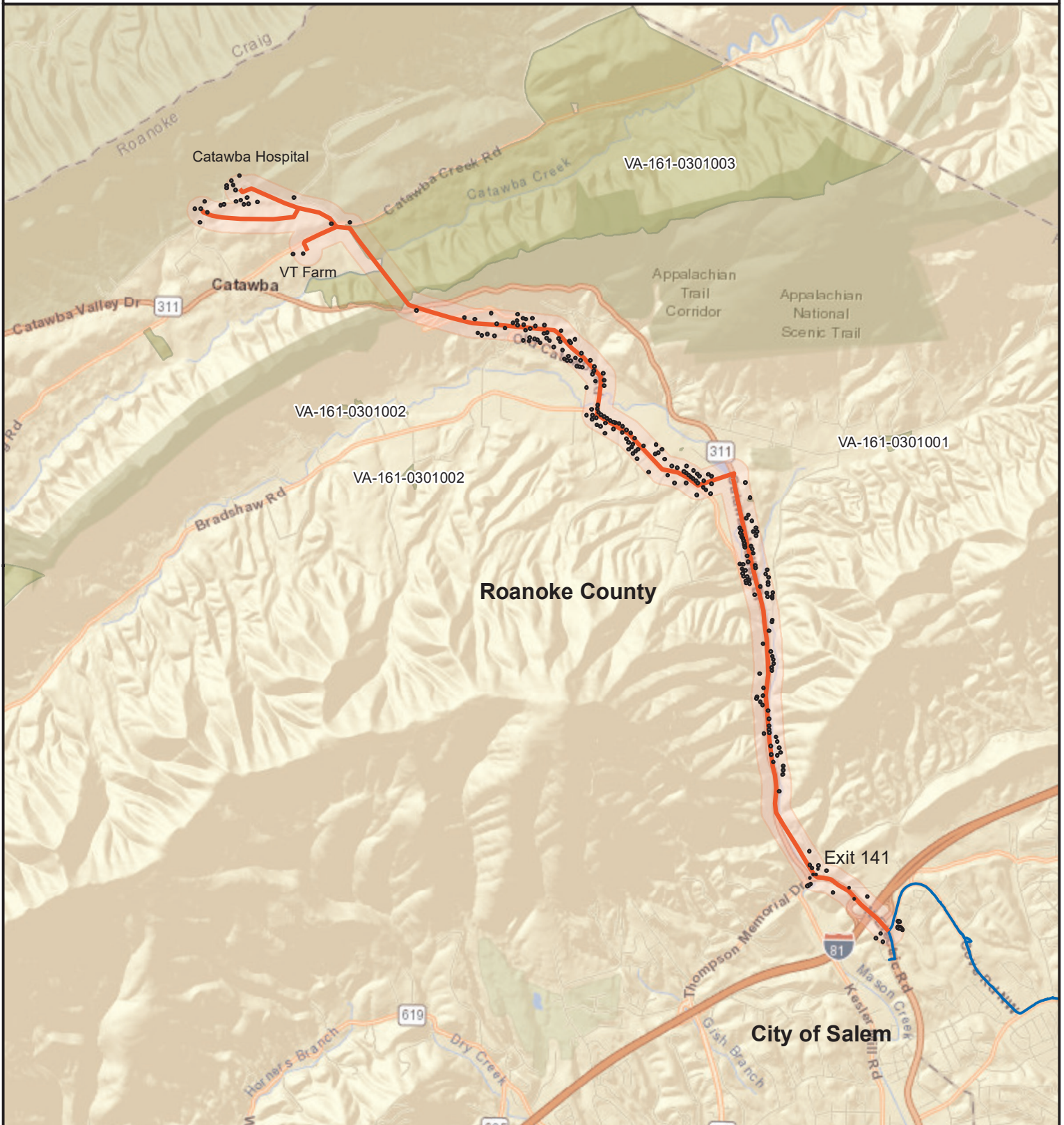
Community Anchor - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater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

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

Attachment 5 - RDOF Awarded Areas Form in VATI Criteria

Roanoke Valley Broadband Authority-
Catawba

- Proposed Fiber
- Existing RVBA Fiber
- RDOF Awarded
- Project Area



0 0.5 1 2 Miles

1:55,000

NAD 1983 StatePlane Virginia South FIPS 4502 Feet



8/18/2022
Map by R. Bruns

2023 Virginia Telecommunication Initiative (VATI)

RDOF Passings Form

Roanoke Valley Broadband Authority- Catawba

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

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

Definitions

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

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

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

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

Catawba

Roanoke Valley Broadband

Project Start:

Thu, 12/1/2022

Display Week:

1

Display Week:					1																						Dec 5, 2022							Dec 12, 2022							Dec 19, 2022							Dec 26, 2022							Jan 2, 2023							Jan 9, 2023							Jan 16, 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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**ARTICLES OF INCORPORATION
OF THE
ROANOKE VALLEY BROADBAND AUTHORITY**

The Board of Supervisors of Roanoke County, Virginia, the Board of Supervisors of Botetourt County, Virginia, the Council of the City of Roanoke, Virginia, and the Council of the City of Salem, Virginia, have by concurrent resolutions adopted the following Articles of Incorporation of the Roanoke Valley Broadband Authority, pursuant to the Virginia Wireless Services Authorities Act (Chapter 54.1, Title 15.2 of the 1950 Code of Virginia, as amended), (the "Act"). The Authority shall exist for a term of 50 years as a political subdivision.

**ARTICLE I
NAME AND ADDRESS**

The name of the Authority shall be the Roanoke Valley Broadband Authority (the "Authority") and the address of its principal office is c/o Roanoke Valley – Alleghany Regional Commission, 313 Luck Avenue, S.W., Roanoke, VA 24016. The location of the principal office may be changed by the concurrence of three-fourths of the Authority members present at the regular meeting, provided that the clerk of the governing body of each member governmental subdivision has been notified of the contemplated relocation in writing at least thirty (30) days before such meeting.

**ARTICLE II
CREATING JURISDICTIONS**

The names of the incorporating political subdivisions are the County of Botetourt, the County of Roanoke, the City of Roanoke, and the City of Salem.

As the incorporating political subdivisions, hereby acknowledge, covenant, and agree that these Articles of Incorporation shall not be further amended or changed without the express agreement of the governing body of each of the incorporating political subdivisions. None of the following actions shall be taken or permitted to occur by the Board of the Authority without the affirmative vote of a majority of the members from each incorporating political subdivision creating the Authority:

1. The inclusion of additional political subdivisions in the Authority.
2. Additional agreements with political subdivisions other than Authority members, entities, or persons, local universities and colleges, the Town of Vinton, and the Western Virginia Water Authority for the expansion of services or network, or wireless infrastructure.

ARTICLE III MEMBERS, TERMS OF OFFICE

The term of office of the Authority members shall be for four (4) years. Members may serve additional terms as appointed by their governing body. The initial term of office shall be staggered with the initial term being for 2 and 4 years alphabetically by last name.

The Board of the Authority shall consist of five Members. The names and addresses, and terms of office of the initial members of the Board of the Authority ("Authority") are as follows:

<u>Name and address</u>	<u>Designee</u>	<u>Initial Term</u>
1. Kevin S. Boggess City Manager's Office 114 North Broad Street Salem, VA 24153	Salem	2 years
2. B. Clayton Goodman, III County Administrator's Office 5204 Bernard Drive Roanoke, VA 24018-0798	Roanoke County	4 years
3. Kathleen D. Guzi County Administrator's Office 1 West Main Street, Box 1 Fincastle, VA 24090	Botetourt County	2 years
4. Michael McEvoy Western Virginia Water Authority 601 S. Jefferson Street, Suite 200 Roanoke, VA 24011	Citizen	4 years
5. Christopher P. Morrill City Manager's Office Room 364, Noel C. Taylor Municipal Building 215 Church Avenue, S.W. Roanoke, VA 24011	Roanoke City	2 years

The terms of office of the initial members shall begin on the date of issuance of a certificate of incorporation or charter for the Authority by the State Corporation Commission. The governing body of each participating political subdivision shall appoint one (1) member who may be a member of the governing body. The four (4) members of the Board of the Authority shall recommend to the participating political subdivisions the appointment of the fifth member who shall be a citizen and resident of one of the participating political subdivisions. The governing bodies of each participating political subdivision shall ratify and confirm the appointment of the fifth member. If any of the governing bodies fails to act or are unable to act within 60 days of

the receipt of this recommendation, then the appointment of the fifth member shall be made by the judges of the Circuit Court for the 23rd Judicial District.

Initially, the governing body of the County of Roanoke shall appoint one member to a 4 year term; the governing body of the County of Botetourt shall appoint one member to a 2 year term; the governing body of the City of Roanoke shall appoint one member to a 2 year term; and the governing body of the City of Salem shall appoint one member for a 2 year term. The citizen shall be appointed to a 4 year term. After the initial terms, each member shall be appointed to a four-year term or until a successor is appointed and qualified. The governing body of each political subdivision shall be empowered to remove, at any time, without cause, the member appointed by it and appoint a successor member to fill the unexpired portion of the removed member's term. Vacancies on the Board shall be filled for the unexpired term in the same manner as the appointment of the member vacating the Board was made.

Each member shall be reimbursed by the Authority for the amount of actual expenses in performance of duties as a member of the Authority.

Each member of the Board shall have one equal vote in all matters before the Authority.

ARTICLE IV PURPOSE

The purpose of the Authority is to provide qualifying communication services as authorized by Article 5.1 (§ 56-484.7:1 et seq) of Chapter 15 of Title 56 of the 1950 Code of Virginia, as amended and to provide such other services as provided by law and Chapter 54.1 of Title 15.2 of the 1950 Code of Virginia, as amended. Such services are to be provided to the geographic areas of the County of Roanoke, the County of Botetourt, the City of Roanoke, and the City of Salem to establish local governmental network(s) to meet the communication needs of the participating localities and their subsidiaries and in accordance with the contracts and agreements by and between this Authority and other private or public entities as the Authority may agree in writing upon the terms and conditions established pursuant to such contracts.

ARTICLE V POWERS, GENERAL OPERATIONS

The Authority shall have all the powers granted by Section 15.2-5431.11 of the 1950 Code of Virginia, as amended.

The general business of the Authority, including the issuance of revenue bonds and refunding bonds as permitted by the Act and the expenditure of funds for general expenses, shall be conducted by the majority action of the Board of the Authority, provided such Board may create an executive committee and such other committees as the Board may direct, including project committees. The Authority is vested with the powers of a body corporate, including the power to sue and be sued in its own name, plead and be impleaded, and adopt and use a common seal and alter the same as may be deemed expedient.

ARTICLE VI DISSOLUTION

The Board of the Authority may determine that the purposes for which the Authority was created have been completed, or are impractical or impossible to complete, and that all of the obligations have been paid, or have been assumed by one or more political subdivisions or any Authority created, thereby, or that cash or United States government securities have been deposited for their payment. In such event, it shall adopt and file with each of the governing bodies a resolution declaring such facts. If the governing bodies adopt a resolution, concurring in such declaration and finding that the Authority should be dissolved, they shall file appropriate articles of dissolution with the State Corporation Commission.

ARTICLE VII WITHDRAWAL OF LOCALITY

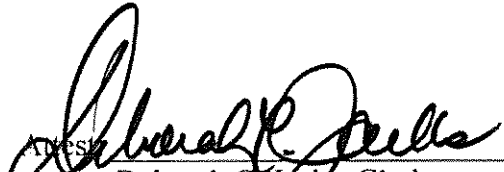
A locality may withdraw from the Authority at any time, provided, that no locality may withdraw from the Authority at any time when bonds are outstanding unless all remaining members approve such withdrawal at such time. Prior to withdrawing, a locality shall provide the Authority and each of the other participating localities with written notice of the locality's intent to withdraw.

In the event that a locality withdraws, such locality electing to withdraw shall execute all documents necessary to reflect such withdrawal, the remaining participating localities shall appoint a replacement member to the Board, and file proper amendments to these Articles with the State Corporation Commission. If any of the governing bodies of the remaining participating localities fails to act or are unable to act to appoint a replacement member within 60 days after the locality electing to withdraw provides notice of withdrawal, then the appointment of the replacement member shall be made by the judges of the Circuit Court for the 23rd Judicial Circuit.

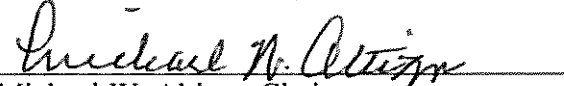
ARTICLE VIII AUDIT

The Authority shall cause an annual audit of its books and records to be made by the State Auditor of Public Accounts or by an independent certified public accountant at the end of each fiscal year and a certified copy thereof to be filed promptly with the governing bodies of each of the incorporating political subdivisions.

IN WITNESS WHEREOF, the Board of Supervisors of Roanoke County, Virginia, the Board of Supervisors of Botetourt County, Virginia, the City Council of the City of Roanoke, Virginia, and the City Council of the City of Salem, Virginia have caused these Articles of Incorporation to be executed in their respective names, and their respective seals have been affixed and attested by the respective clerks of each, this 21ST day of OCTOBER, 2013.

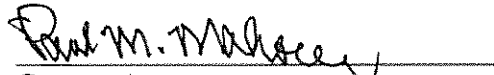
Attest: 
Deborah C. Jacks, Clerk

COUNTY OF ROANOKE, VIRGINIA

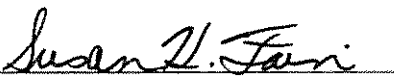
By: 
Michael W. Altizer, Chairman
Board of Supervisors

SEAL

Approved as to Form:


County Attorney

COUNTY OF BOTETOURT, VIRGINIA

Attest: 
Susan Fain, Clerk

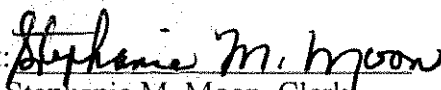
By: 
Stephen P. Clinton, Chairman
Board of Supervisors

SEAL

Approved as to Form:


County Attorney

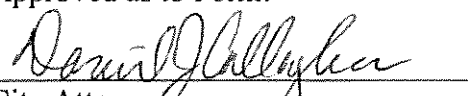
CITY OF ROANOKE, VIRGINIA

Attest: 
Stephanie M. Meon, Clerk

By: 
David A. Bowers, Mayor

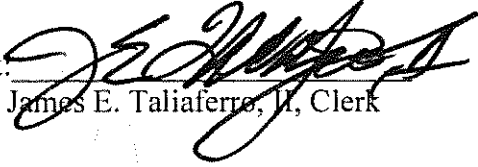
SEAL

Approved as to Form:

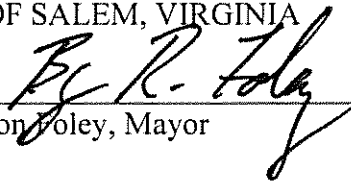

City Attorney

CITY OF SALEM, VIRGINIA

Attest:

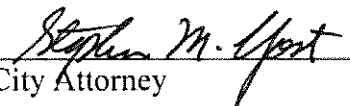

James E. Taliaferro, II, Clerk

By:


Byron Foley, Mayor

SEAL

Approved as to Form:


City Attorney

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	\$ 467,607.33	78%	Pending
RVBA	\$ 131,889.12	22%	SECURED AND IN THE BANK
	\$		
	\$		
	\$		
	\$		
	\$		
TOTAL	\$ 599,496.45	100 %	



Roanoke Valley
Broadband Authority

Board of Directors

Jay Taliaferro, City of Salem
Richard Caywood, Roanoke County
Michael McEvoy, Citizen
Robert Cowell, City of Roanoke
Gary Larrowe, Botetourt County
Keith Perry, Carilion Clinic
Dr. Scott Midkiff, Virginia Tech

August 29, 2022

To Whom it May Concern:

The RVBA will be providing the match funding as called out in Attachment 9 for both stated projects:

- Catawba Project
 - \$131,889.12 or 22% of proposed project cost
- Boones Mill Project
 - \$129,032.25 or 22% of proposed project cost

Being a Political subdivision of the Commonwealth of the Virginia, this will be RVBA's contribution to the project as requested by the VATI Program.

Thank you again for your consideration of our applications.

Respectfully,
Frank

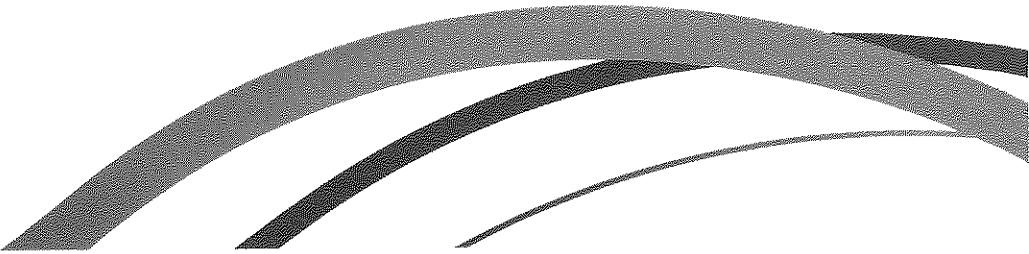
Frank M. Smith II
President & CEO

fsmith@highspeedroanoke.net
direct: 540-904-1073 | mobile: 540-494-0644
www.rvba.online



Roanoke Valley
Broadband Authority

601 S. Jefferson Street SW
Suite 110, Roanoke, VA 24011
540-904-4739
www.rvba.online



CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate
Construction	\$ 361,756	\$ 361,756	\$ -	Roanoke Valley Broadband
Engineering	\$ 30,795	\$ 30,795	\$ -	Roanoke Valley Broadband
Permits, railroad crossing, pole attachment, bonding.	\$ 2,300	\$ 2,300	\$ -	Roanoke Valley Broadband
Outside Plant Material	\$ 170,395	\$ 170,395	\$ -	Roanoke Valley Broadband
Private Easements	\$ -	\$ -	\$ -	Roanoke Valley Broadband
Initial Electronics	\$ 34,250	\$ 34,250	\$ -	Roanoke Valley Broadband

CDBG Derivation of Cost

Date
8/18/22
8/18/22
8/18/22
8/18/22
8/18/22
8/18/22

Project: Catawba

Project Summary: 59,158 ft Aerial/underground build from Cove Rd to Catawba Hospital. Middle mile transport and dark fiber. Costs reflect anticipated availability of Material, Engineering, and Contractors after awards in 2022

Construction

\$361,756.25

Construction includes placement of fiber cable on poles, jetting in existing conduit and some minor material

Engineering/Design

\$30,795.00

OSP Engineering / Design (includes as-built drawings and inspection

Permit

\$2,300.00

Permitting includes all fees related to ROW, Pole attachment, Railroad crossings, Bonding and related

Other

\$0.00

Line item includes private party easements for construction

OSP Material

\$170,394.93

OSP material includes fiber cable, strand, splicing and material

Electronics

\$34,250.28

End point electronics along with optics for current core infrastructure.

Total

\$599,496.45



ROANOKE REGIONAL

CHAMBER

August 10, 2022

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

Dear Dr. Holmes,

On behalf of the Roanoke Regional Chamber, I write you to support the Roanoke Valley Broadband Authority's efforts to expand broadband access in our region.

The pandemic demonstrated a stark reality for those of our friends, family, and neighbors who don't have reliable internet access. Simply put, those without internet access are being left behind in their careers and in the classroom.

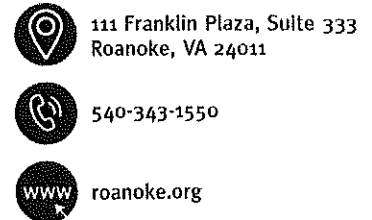
The expansion of broadband is a great recruiting tool to bring businesses and talent to regions where remote working may have never been possible – until now. As more employers convert their workplaces to the virtual space, opportunities will arise for less-populous communities to attract and retain talent. This would not be likely for regions lacking in broadband access.

VATI grants will expedite the rate at which our region is able to offer this vital service to our residents, businesses, and those who might consider relocating to our area. The Chamber stands in support of broadband projects being proposed in our region to secure more prosperous and successful future for our children, employees, and businesses.

Thank you for your consideration of this application. If you have any questions, I can be reached at 540.682.2101 or JWaugh@RoanokeChamber.org.

Respectfully,

Joyce Waugh
President & CEO



August 10, 2022

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

Dear Dr. Holmes:

I am providing this VATI application letter of support for the Roanoke Valley Broadband Authority in support of their project application.

Roanoke Valley Broadband Authority in cooperation with the Counties of Craig and Roanoke, Catawba Hospital, and Virginia Tech Catawba Sustainability Center is submitting an application for a fiber optic transport and last mile project from the intersection of I-81 and state route 311 to the surrounding areas of Catawba Hospital, the Virginia Tech Sustainability Center and additional points north to Paint Bank for the purposes of supporting the local community with mission critical telecommunications backbone infrastructure and last-mile connectivity.

The project will provide additional redundant paths for service reliability and provide critical last-mile connectivity for citizens in support of universal service. This is a truly multi-jurisdictional project that will service the community for many years to come. It has my full support.

Respectfully,

A handwritten signature in black ink, appearing to read "John M. Hull".

John M. Hull, CERP
Executive Director



Vice President for Information Technology and CIO
Virginia Tech, MC 0169
755 University City Boulevard
Blacksburg, Virginia 24060
540/231-4227 Fax: 540/231-5483
<http://www.it.vt.edu/>

August 10, 2022

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

Dear Dr. Holmes,

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Respectfully yours,

Scott F. Midkiff, Ph.D.
Vice President for Information Technology and Chief Information Officer
Professor, Electrical and Computer Engineering
Professor, by courtesy, Computer Science



ROANOKE COUNTY

OFFICE OF THE COUNTY ADMINISTRATOR
5204 Bernard Drive, P.O. Box 29800
Roanoke, Virginia 24018-0798

Richard L. Caywood, P.E.
County Administrator

TEL: (540) 772-2004

August 10, 2022

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

Dear Dr. Holmes,

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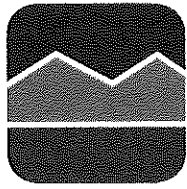
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Sincerely,

A large, stylized handwritten signature in black ink, appearing to read "Richard L. Caywood".

Richard L. Caywood, P.E.
County Administrator



Roanoke Valley-Alleghany

REGIONAL
commission

rvarc.org

313 Luck Avenue, SW | Roanoke, Virginia 24016 | P: 540.343.4417 | F: 540.343.4416 | rvarc@rvarc.org

August 11th, 2022

Tamarah Holmes, Ph.D

Director

Office of Broadband

Department of Housing and Community Development

600 East Main Street, Ste. 300

Richmond, VA 23219

Dear Dr. Holmes,

I am providing this VATI application letter of support for the Roanoke Valley Broadband Authority in support of their project application.

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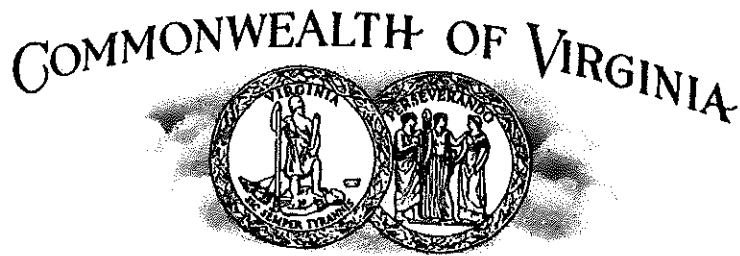
The project will provide additional redundant paths for service reliability and provide critical last-mile connectivity for citizens in support of universal service. This is a truly multi-jurisdictional project that will service the community for many years to come. It has my full support.

Sincerely,

Jeremy Holmes

Executive Director, Roanoke Valley-Alleghany Regional Commission

Member Governments: Counties of Alleghany, Botetourt, Craig, Franklin and Roanoke, Cities of Covington, Roanoke and Salem, Towns of Clifton Forge, Rocky Mount and Vinton



Charles C. Law, PhD
Facility Director, CEO

Karl Northwall, M.D.
Medical Director, COS

**Department of Behavioral Health
And Developmental Services**

POST OFFICE BOX 200
CATAWBA, VIRGINIA 24070
(540) 375-4200
(540) 375-4385 V/TDD

CATAWBA HOSPITAL

August 12, 2022

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

Dear Dr. Holmes,

I am providing this VATI application letter of support for the Roanoke Valley Broadband Authority in support of their project application. Roanoke Valley Broadband Authority in cooperation with the Counties of Craig and Roanoke, Catawba Hospital, and Virginia Tech Catawba Sustainability Center is submitting an application for a fiber optic transport and last mile project from the intersection of I-81 and state route 311 to the surrounding areas of Catawba Hospital, the Virginia Tech Sustainability Center and additional points north to Paint Bank for the purposes of supporting the local community with mission critical telecommunications backbone infrastructure and last-mile connectivity.

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Sincerely,

Charles Law, PhD
Facility Director, CEO
Catawba Hospital

CCL/bnm

Form 477 Filing Summary

FRN:

0025284910

Data as of:

Dec 31, 2021

Operations:

Non-ILEC

Submission Status:

Original - Submitted

Last Updated:

Feb 15, 2022 06:36 PM

Filer Identification

Section	Field	Response
Filer Information	Company Name	Roanoke Valley Broadband Authority
	Holding Company Name	Roanoke Valley Broadband Authority
	Filing Type	Non-ILEC
	SAC ID	N/A
	499 ID	N/A
Data Contact Information	Data Contact Name	Tywanii Ross
	Data Contact Phone Number	(540) 204-9341
	Data Contact E-mail	tross@highspeedroanoke.net
Emergency Operations Contact Information	Emergency Operations Name	Tywanii Ross
	Emergency Operations Phone Number	(540) 204-9341
	Emergency Operations E-mail	tross@highspeedroanoke.net
Certifying Official Contact Information	Certifying Official Name	Tywanii Ross
	Certifying Official Phone Number	(540) 204-9341
	Certifying Official E-mail	tross@highspeedroanoke.net

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	477_blocks_deployed.csv	Feb 15, 2022 06:26 PM	486
Fixed Broadband Subscription	477_rvba tract subscribers.csv	Feb 15, 2022 06:32 PM	17

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Roanoke Valley Broadband Authority	Optical Carrier/Fiber to the End User	486

State	DBA Name	Technology	Blocks
Total			486

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End User Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business/Govt.	Total
Virginia	Optical Carrier/Fiber to the End User	17	0	33	33
Total		17	0	33	33

Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
1,000.000	1,000.000	0	33	33
Total		0	33	33

Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Optical Carrier/Fiber to the End User	1,000.000	1,000.000	0	33	33
Total			0	33	33

Reminder: Use 2010 Census geographies for data as of June 30, 2021 and before. Use 2020 Census geographies for data as of December 31, 2021 and after.

For help or assistance, please contact (877) 480-3201 or (717) 338-2834 (TTY) or you may submit an [online e-support ticket](#).

Federal Communications Commission
45 L St NE, Washington, DC 20002
[Phone: 1-888-225-5322](#)
[TTY: 1-888-835-5322](#)
[Videophone: 1-844-432-2275](#)
[Fax: 1-866-418-0232](#)
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Form 477 Filing Summary

FRN:

0025284910

Data as of:

Jun 30, 2021

Operations:

Non-ILEC

Submission Status:

Original - Submitted

Last Updated:

Aug 11, 2021 02:36 PM

Filer Identification

Section	Field	Response
Filer Information	Company Name	Roanoke Valley Broadband Authority
	Holding Company Name	Roanoke Valley Broadband Authority
	Filing Type	Non-ILEC
	SAC ID	N/A
	499 ID	N/A
Data Contact Information	Data Contact Name	Matt Miller
	Data Contact Phone Number	(540) 343-4417
	Data Contact E-mail	mmiller@rvarc.org
Emergency Operations Contact Information	Emergency Operations Name	Frank Smith
	Emergency Operations Phone Number	(540) 904-4739
	Emergency Operations E-mail	fsmith@highspeedroanoke.net
Certifying Official Contact Information	Certifying Official Name	Frank Smith
	Certifying Official Phone Number	(540) 904-4739
	Certifying Official E-mail	fsmith@highspeedroanoke.net

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	477_blocks deployed.csv	Aug 11, 2021 02:33 PM	675
Fixed Broadband Subscription	477_rvba tract subscribers.csv	Aug 11, 2021 02:34 PM	22

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Roanoke Valley Broadband Authority	Optical Carrier/Fiber to the End User	675

State	DBA Name	Technology	Blocks
Total			675

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End User Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business/Govt.	Total
Virginia	Optical Carrier/Fiber to the End User	22	0	46	46
Total		22	0	46	46

Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
1,000.000	1,000.000	0	46	46
Total		0	46	46

Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Optical Carrier/Fiber to the End User	1,000.000	1,000.000	0	46	46
Total			0	46	46

Reminder: Use 2010 Census geographies for data as of June 30, 2021 and before. Use 2020 Census geographies for data as of December 31, 2021 and after.

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**ROANOKE VALLEY
BROADBAND
AUTHORITY**

- RVBA Fiber Network
- City of Salem Fiber
- Point of Presence (PoP)

