

Application to DHCD Submitted through CAMS

Page County

PageCo

Application ID: 64508212019124835
Application Status: Pending
Program Name: Virginia Telecommunications Initiative 2020
Organization Name: Page County
Organization Address: 103 South Court Street
Luray, VA 22835
Profile Manager Name: Liz Lewis
Profile Manager Phone: (540) 743-1216
Profile Manager Email: llewis@pagecounty.virginia.gov

Project Name: PageCo
Project Contact Name: Liz Lewis
Project Contact Phone: (540) 743-1216
Project Contact Email: llewis@pagecounty.virginia.gov
Project Location: Page County
Stanley, VA 22835-1262
Project Service Area: Page County, Stanley Town

Total Requested Amount: \$952,600.00

Required Annual Audit Status: No Current Audits Found

Application to DHCD Submitted through CAMS

Page County

PageCo

Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$952,600.00	\$779,400.00	\$1,732,000.00
Other: ISP - Electronics	\$55,000.00	\$45,000.00	\$100,000.00
Other: OSP - Fiber	\$897,600.00	\$734,400.00	\$1,632,000.00
Total:	\$952,600.00	\$779,400.00	\$1,732,000.00

Budget Narrative:

This project provides for the placement of two (2) FTTP/GPON switches, five (5) Fiber Distribution Huts, 450 Fiber Distribution Pedestals and approximately 43 miles of fiber cable in Page County to bring fiber based broadband services to 952 residents. Customers will be able to get speeds up to 940Mb/s while uploading or downloading data in the Ida and Loop Road areas of our County where approximately 71% of them have no broadband service at all today.

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:

Page County is a rural valley community with only 2 major highways coming into the area - US Route 340 and State Route 211. The county has the Blue Ridge Mountains (Shenandoah National Park) to the east and Massanutten Mountain (George Washington National Forest) range to the west.

The project area was selected by both Page County and CenturyLink based on its remote proximity to town infrastructure (households are on well water and sewer) and citizen input stating inconsistent and limited internet and phone service. The area is densely populated with rural households in a basin that follows foothills (hollows) to the bottom of the Blue Ridge Mountains.

Page County is known as the Cabin Capital of Virginia and this area is highly populated with cabin rentals and supporting businesses that sustain the community's major industry - tourism. Many residents in this area are commuting locally to jobs at Shenandoah National Park and Page County Public Schools and a nice percentage of the population in this area purchased with the intension of telecommuting (early retirees especially) and are running into communication difficulties, dead zones even with a cell phone. The project area contributes greatly to the economic foundation in Page County.

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

Application to DHCD Submitted through CAMS

Page County

PageCo

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:

Provider maps like those produced by FCC do not accurately show the lack of connectivity in Page County and oversells the number of providers available in Page County. This maps showed that Page County had multiple providers and coverage. A connectivity survey was needed to prove these maps inaccurate.

Outreach efforts began with a countywide connectivity survey that was mailed to every tax paying household in Page County. This survey request was included with the tax notices and was sent out in May of 2019. The insert directed every household to a website to complete a connectivity survey. The survey asked for an address, internet provider, type of connection and 3 different time of day speed tests. (survey insert attached). This survey was boosted on social media, was covered in the newspaper and on the local news station - WHSV. Data collected from the survey by the Page County Economic Development Coordinator was mapped out by Page County's GIS department. Addresses that corresponded to "hot spot" areas were collected and random calls were made to better target connectivity speeds. Countywide providers identified in the survey were CenturyLink, High Speed Link, Comcast and HughesNet.

See attachment 2 - map generated by Page County

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 countywide Connectivity Survey and targeted phone calls determined that households were serviced by CenturyLink and Comcast at unserved speeds.

One customer in the project area was served by High Speed Link using a line of sight antenna on a water tower. This customer states - "speeds are slow but OK, the service does not reach all of our rentals."

Households in the project area also reported no internet service and no cell phone service. Not all households in the project area submitted a survey about internet providers and speed data but all households had the opportunity to fill in the connectivity survey as they were mailed to every tax payer.

A map prepared from the survey data collected was shared with the 3 known providers and none of the providers contested the information shown in the map.

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:

Attachment 16 contains a detailed chart showing each of the area in the total project area and the number of residential serviceable units contained in each area. The total number of residential serviceable units is 952.

Application to DHCD Submitted through CAMS

Page County

PageCo

We know exactly how many residential serviceable units are in the area we have plotted the actual locations of the residences using the County and CenturyLink's GIS systems and we have planned and designed the proposed network to pass the actual residences we have identified. Each home passed will have access to the CenturyLink Fiber Gigabit service. The actual homes and fiber facilities are all within the project area boundaries shown in Attachment 1.

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:

There are numerous tourist based businesses to include cabin rentals and large wedding/event spaces located in the project area:

Business Name and Addresses:

Wisteria Farm and Vineyard - 1126 Marksville Rd, Stanley, VA 22851 (home based business)

Hawksbill Recreation Park - Hawksbill Recreation Park

Hilliard's Barber Shop - 158 Marksville Rd, Stanley, VA 22851 (home based business)

Mindrolling Lotus Garden - 108 Bodhi Way, Stanley, VA 22851 (retreat center, hone based business)

Shenandoah Woods Events and Cabins (wedding and event home based businesses + 20 cabins/log homes in project area for short term rental) - 181 Long Cabin Drive, Stanley VA 22851

Brenwood Lake Wedding - 245 Log Cabin Dr, Stanley, VA 22851 (wedding and event venue - home based business)

Jordan Hollow Stables - 657 Pine Grove Rd, Stanley, VA 22851 (home based business)

Skyline Log Cabins (7 cabins in project area) - 224 Log Cabin Drive, Stanley, 22851 (home based business)

Page Valley Getaway - LLC - 419 Brenwood Dr, Stanley VA 22851 (cabin, short term rental)

Vintage Aircraft LLC - 108 Harmony Lane, Stanley 22851 (home based business)

Howan Properties (lodge and multiple cabins) - 326 Hawksbill Park Road, Stanley 22851 (cabin, short term rental)

Hilliard Vacation Rentals LLC - 897 Helms Rd, Stanley, 22851 (cabin, short term rental)

Westcott Holdings, LLC - 278 Middle Ridge Turn, Stanley 22851 (cabin, short term rental)

Mud Pike LLC - 165 Mosbys Camp Rd, Stanley 22851 (cabin, short term rental)

C&S Rental Properties LLC - 490 Mosbys Camp Rd, Stanley 22851 (cabin, short term rental)

Cardigan Capital Inc - 427 Old Wagon Rd, Stanley 22851 (cabin, short term rental)

Red Oaks & Whitetails LLC - 3052 Pine Gove Rd, Stanley 22851 (cabin, short term rental)

Ida Grove Gospel Chapel - 135 Ida Hollow Rd, Stanley 22851

Bethlehem Christian Church - 1054 Kite Hollow Rd, Stanley 22851

St Georges Episcopal Church - 3380 Pine Grove Rd, Stanley 22851

Reliable Convenient Labor, LLC - 1627 Redman Store RD, Luray VA 22835 (home based business)

Colleen's Homecare Referral & Financial Management - 879 Valley Burg RD, Luray VA 22835 (home based business)

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 projected take rate for this project area is 50%. The projection is based on CenturyLink's experience in providing broadband in localities across the Commonwealth, as well as our experience in other states.

That projection is also supported by CenturyLink's experience in its prior VATI project with Albemarle County, where the overall take rate is 73%.

7. For wireless projects only: Please explain the ownership of the proposed wireless infrastructure. Will the

Application to DHCD Submitted through CAMS

Page County

PageCo

wireless co-applicant own or lease the radio mast, tower, or other raised structure onto which the wireless infrastructure will be installed?

Answer:

Not applicable. This is not a wireless project.

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:

Speeds: All locations will have access to CenturyLink's Fiber Gigabit service, which provides a maximum of 940 Mbps download and 940 Mbps upload. Bandwidth is dedicated.

Technology: The technology that will be used is "Fiber to the Home," or "GPON." GPON is "Gigabit Passive Optical Network." In a Fiber to the Home/GPON environment, voice and high-speed data (up to 1Gbps) is transported on a single fiber (one wavelength for transmit, another wavelength for receive) from the office/remote electronics to the home or premises. The single fiber operates at a rate of 2.4Gbps downstream (to the home) and 1.2Gbps upstream (from the home). The CenturyLink deployment can share this bandwidth between 32 customers. The GPON infrastructure eliminates the need for active electronics (and the associated powering, real estate and maintenance costs) in the distribution plant, depending on the distance from the Central Office/ Remote and available feeder fibers.

Service offering: Pricing for CenturyLink services is generally a nationwide price, so that customers in rural Virginia pay the same rate as customers in urban areas in other states. CenturyLink also offers discounts for bundles services, which would include broadband and voice services. For purposes of this application, however, the highest rate that a customer would currently pay for CenturyLink's Fiber Gigabit service is currently \$65 per month on a promotion that does not have a set termination date, and \$85 normally. For the last couple of years CenturyLink has offered a "price for life" service, where customers can lock in a monthly rate that does not change for as long as the customer keeps the service and there is no "early termination fee." Also, there is no required term contract for this program. Broadband service requires an installation by a technician, but there is no installation charge. This rate does require a customer to subscribe to paperless billing and excludes taxes. Various slower services are available, including download/upload Mbps services at 500/500, 500/100, 200/40, 100/100, 100/10, 80/10 and 40/2. Prices vary depending on the download and upload speeds. For example, the price for the 40 Mbps download speed is \$45 per month

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:

As described in response to question 8, the network design is "fiber to the home" or "GPON." The components that would be added are optical fiber connections to residences. The twisted pair copper lines would no longer be used. Additional components would be necessary to connect the fiber to existing CenturyLink facilities. The advantage of using a fiber-based solution is that it provides the fastest speeds available to consumers. Although copper-based solutions such as VDSL can provide speeds of 100 Mbps, fiber can provide speeds measured in Gigabits. Also, the fiber network does not have the same distance limitation of copper-based DSL technology. The source of these statements is CenturyLink's actual experience in providing fiber solutions to residences across the county, to many state

Application to DHCD Submitted through CAMS

Page County

PageCo

and federal government customers and to thousands of businesses across the United States and around the world.

This is not a wireless project so there is no Attachment 5.

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;

- 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:

The project is currently in the planning stage, although most of the network planning has been completed. CenturyLink's map in Attachment 1 shows the actual location for all facilities and equipment needed to complete the project. All of the planning needed to submit this application has been completed and the remaining work would begin once an award is made. CenturyLink has attached as Attachment 6 a timeline of work from grant award to completion of the project. This project management plan is the standard plan that CenturyLink uses on similar projects around the country and is the same plan that was used in the prior VATI award project, where CenturyLink completed the work on time and within budget.

Attachment 7 - addresses the current status of the relationship between the applicant and co-applicant.

Attachment 8 – Letters of Support are attached

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:

Application to DHCD Submitted through CAMS

Page County

PageCo

The matching funds invested by CenturyLink are listed in Attachment 10, the Funding Sources Table. Those funds include all of the costs for the project, including all of the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project. The matching funds also include the costs of identifying and acquiring any necessary easements.

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:

As stated in Attachment 7, at this time there is no formal agreement in place between the applicant and the co-applicant, although a formal agreement will be established if a grant is awarded. CenturyLink does not expect to seek assistance from the County regarding permits, rights of way or easements, as CenturyLink has processes in place to obtain the necessary rights and routinely obtains those rights in projects across the Commonwealth. As a public utility, CenturyLink also has statutory rights to acquire private property when necessary. As shown in Attachment 1, CenturyLink has already identified the location for fiber routes and equipment placement.

Page County is able to provide the following assistance:

Page County Economic Development will assist CenturyLink with permitting, easement and other project needs as necessary.

Page County Economic & Tourism and Page County Economic Development Authority will assist and contribute staff time and funds to enhance community engagement strategies and public relations to include marketing, promotions, educational meetings and other needed project advertising and/or public notification.

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:

PageCo Project Contacts - Page County and CenturyLink

Project Contact	Organization	Title	Duties
Liz Lewis	Page County	Page County Economic Development & Tourism Coordinator	Ms. Lewis will be the responsible for the coordination of the project with DHCD and CenturyLink to include VATI administrative duties and citizen support/liaison.
Richard Schollmann	Century Link	Director of Government Affairs	Mr. Schollmann will be responsible for overall coordination of the project with the County. He will provide all coordination

Application to DHCD Submitted through CAMS

Page County

PageCo

			with the planning, engineering, construction, and billing teams within CenturyLink.
Craig Hager	Century Link	Director of Local Network NC/VA	Mr. Hager oversees all construction tasks and testing in NC and VA.
Bill Owens	Century Link	Manager of Local Network VA	Mr. Owens has direct responsibility for managing construction and testing for this project.
Willie Thompson	Century Link	Construction Supervisor VA	Mr. Thompson will direct all crews for the construction and installation of fiber and equipment for this project.
Glenn Butler	Century Link	Network Planning Manager VA	Mr. Butler has been responsible for planning the network design for this project.

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:

The budget for this project is \$100,000 in electronics and \$1,632,000 in fiber costs. The map included in Attachment 1 identifies the costs for the equipment as shown on the map and identifies the location and costs for the fiber that will be installed.

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

Application to DHCD Submitted through CAMS

Page County

PageCo

b. Number of serviceable units

c. Highest residential speed available

Answer:

a. Total StateFunding Requested/Total Project cost : \$952,600/\$1,732,000

b. Number of serviceable units: 952

c. Highest residential speed available: CenturyLink Fiber Gigabit (940 Mbps)

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:

CenturyLink has extensive experience with managing grants and constructing broadband facilities in the Commonwealth and across the country. In Virginia, CenturyLink and its predecessor companies have provided voice and data services to hundreds of thousands of Virginians for decades. All of those networks were constructed and managed by CenturyLink companies. CenturyLink currently serves approximately 13 million access lines in 37 states and about 6 million high-speed Internet customers using both DSL and "Fiber to the Home" solutions. CenturyLink's customer base ranges from rural residential customers to international Fortune 500 companies. CenturyLink is a global leader in managed hosting and cloud services and offers network and data systems management, big data analytics and IT consulting in the US and internationally.

CenturyLink also has extensive experience in managing grants. At the national level, for example, CenturyLink accepted about \$500 million in annual support from the federal Connect America Fund (CAF) to provide broadband to over 2.3 million customers in 33 states. In Virginia alone, CenturyLink accepted over \$15.7 million per year for 6 years to reach about 50,000 homes and businesses with broadband by 2020. The CAF program included annual targets, which CenturyLink has met each year in Virginia. CenturyLink also has extensive experience in state-level broadband grant programs. Beginning in 2008, CenturyLink participated in grant programs with Mid-Atlantic Broadband and the Tobacco Commission to build, operate and maintain broadband projects in some of the most rural locations in Virginia. CenturyLink participated in the grant program in 2009, 2010 and 2012, accepting about \$2M in grant funds and serving over 8,000 rural locations with broadband. All of those projects were completed on time and within budget. CenturyLink has also received a prior VATI award with Albemarle County as the applicant. That project was also completed on time and within budget.

Page County has managed numerous grants from agencies like USDA, DHCD, VTC, PSAP, DCR, DEM and more. Finance and accounting systems are in place with Page County's Director of Finance and Page County's Treasurer. Page County Broadband Authority (PCBA) was created in 2009 for the purpose of becoming a legal entity eligible to accept The Broadband Technology Opportunities Program (BTOP) grant. A line-of-sight radio tower system was built to provide increased broadband access was determined. PCBA, as a middle mile provider, partnered with Shentel to build and maintain the network.

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:

This project is a step of many steps to support Page County's need for improved amenities (infrastructure) and greater opportunities that are critical to strengthening the local economy, especially in rural areas. The project will improve quality of life for many households in the area and attract more residents to Page County; thus contributing real estate and personal property tax necessary to sustain the community.

Page County students in the project area risk "homework gaps" (teachers assign homework that requires access to

Application to DHCD Submitted through CAMS

Page County

PageCo

the internet) without proper internet connection. Opportunities for online learning, collaboration, and research tools are necessary for student success. Page County School System was able to provide an estimated number of students in the project area by counting bus riders. This number does not account for drivers or parents picking their children up from school. Estimated bus ridership in the project area are close to 200 students.

Governor Northam supports internet access to unserved areas with the increase in VATI funds. Northam states "Access to reliable high speed internet is a vital component to participating in the 21st century economy." The project area is unserved and the residents and business in the project area deserve 21st amenities. Page County needs higher speed connectivity to sustain and grow its tax base - vital to Page County's economic survival.

Numerous tourism based businesses will be supported by this project. Those business contribute to the growth of local and statewide industry. Page County collects Transient Occupancy Tax (TOT) on cabins rentals in the project area. This tax is used to fund tourism development and marketing projects throughout the county. In 2017/2018 fiscal year, Page County's collection of TOT funds totaled \$1,000,868, a 7% increase from the previous year. As this revenue stream continues to grow it contributes greatly to the growth of the tourism opportunities in Page County.

According to the Virginia Tourism Corporation:

- The economic impact of travel in the Commonwealth has grown from \$1.3 billion (\$8.6 billion in 2018 dollars) in 1969 to \$26 billion in 2018 with a compound annual growth rate of 6.4%.
- Virginia Tourism Industry generated \$26 billion in visitor spending across all communities in 2018, a 4.4% increase over 2017.
- Travelers spent \$71 million per day.
- In 2018, tourism in Virginia supported 234,000 work opportunities for Virginia communities with an increase of 2,132 jobs - up 1% from 2017.
- The tourism industry provided \$1.8 billion in state and local revenue, an increase of 2.9% compared to 2017.
- The travel industry is the fifth largest employer 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

Application to DHCD Submitted through CAMS

Page County

PageCo

Answer:

See Attachment 16 for a complete project summary provided by CenturyLink.

See Attachment 17 for more information about Page County's Connectivity Survey.

Attachments:

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMap829201914845.pdf

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

Attachment2PageCountyUnservedAreas829201920045.pdf

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

Attachment3DocumentationonCAFFundingArea829201915557.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment4DocumentationUnservedAreaVATICriteria829201920353.pdf

Propagation Map if Wireless Project

Attachment5PropagationMapWirelessProject829201920910.pdf

Project Management Plan

Attachment6TimelineProjectManagementPlan829201930319.pdf

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

Attachment7RelationshipbetweenApplicantCoApplicant829201925427.pdf

Letters of Support

Attachment8PageCoLettersofSupport93201994338.pdf

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

Attachment9DocumentationofMatchFunding829201930422.pdf

Application to DHCD Submitted through CAMS

Page County

PageCo

Funding Sources Table

Attachment10FundingSourcesTable829201930354.pdf

Derivation of Cost (Project Budget)

Attachment11DerivationofCosts829201943042.pdf

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

Attachment12DocumentationofSupportingCosts829201934658.pdf

Supporting documentation for costs estimates

Attachment13SupportingDocumentationofCostEstimates829201934731.pdf

Two most recent Form 477 submitted to FCC

Attachment14TwomostrecentForm477submittedtotheFCCCorequivalent829201934759.pdf

Copy of Public Notice

Attachment15PageCountyVATIPublicNotice829201935017.pdf

Optional

Attachment16CenturyLinkProjectSummary829201922542.pdf

Optional

Attachment17PageCountyConnectivitySurveyInfo830201993211.pdf

Attachment 1

Project Area Map

Shenandoah – Loop Road (FTTH)

Place 4 Spurs, total of 13 Kft, \$72K

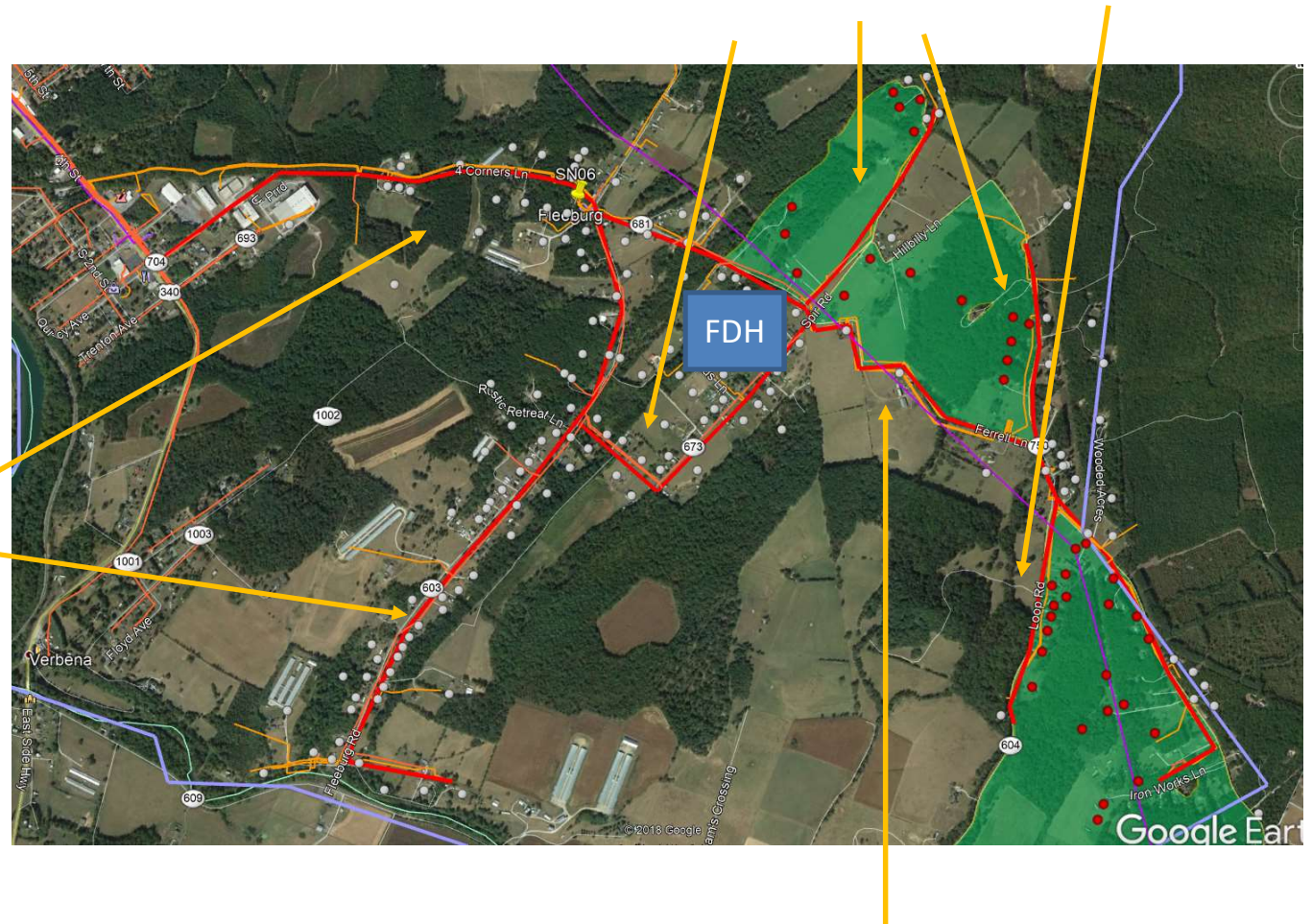
184 – 1G

Estimate 130 drops < 650 Ft.;
35 between 650 & 1,500;
19 > 1,500 Feet

Place 15 KFT, 96F, \$85K

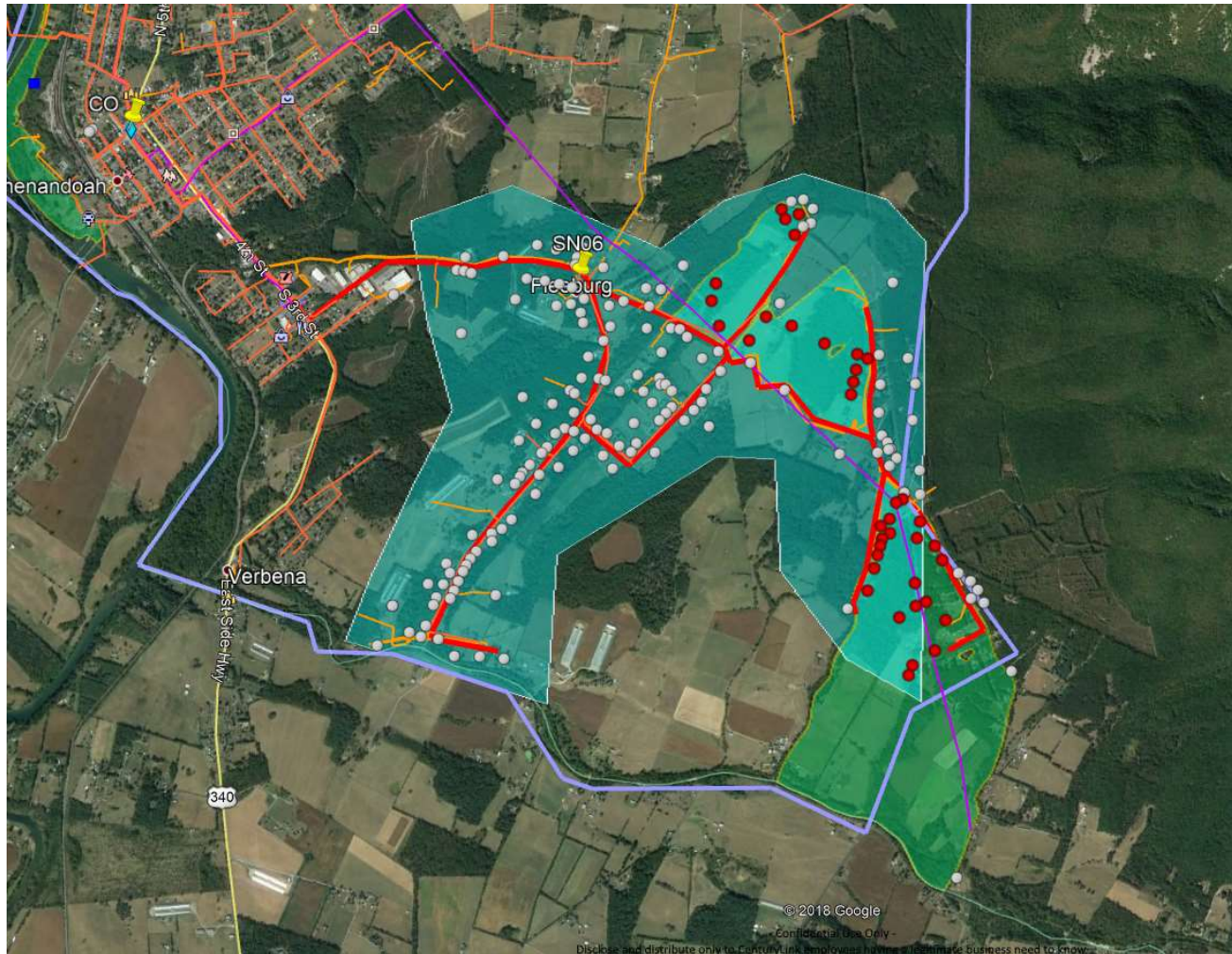
Place
E7_GPON Card
at SN06, \$35K

Place 2 FDH &
80 MDTs, \$90K



Place 12 KFT, 96F, \$72K

Shenandoah – Loop Road (FTTH)



Stanley – IDA / Mosby (FTTH)

768 – 1G

Estimate 550 drops < 650 Ft.;
150 between 650 & 1,500;
68 > 1,500 Feet

Place 25 Spurs in SY03 Area, total of 61.5
Kft, \$369K

Place 14 KFT, 48F, \$84K

Place 27 KFT, 96F, \$162K

Place 12 KFT, 48F, \$72K

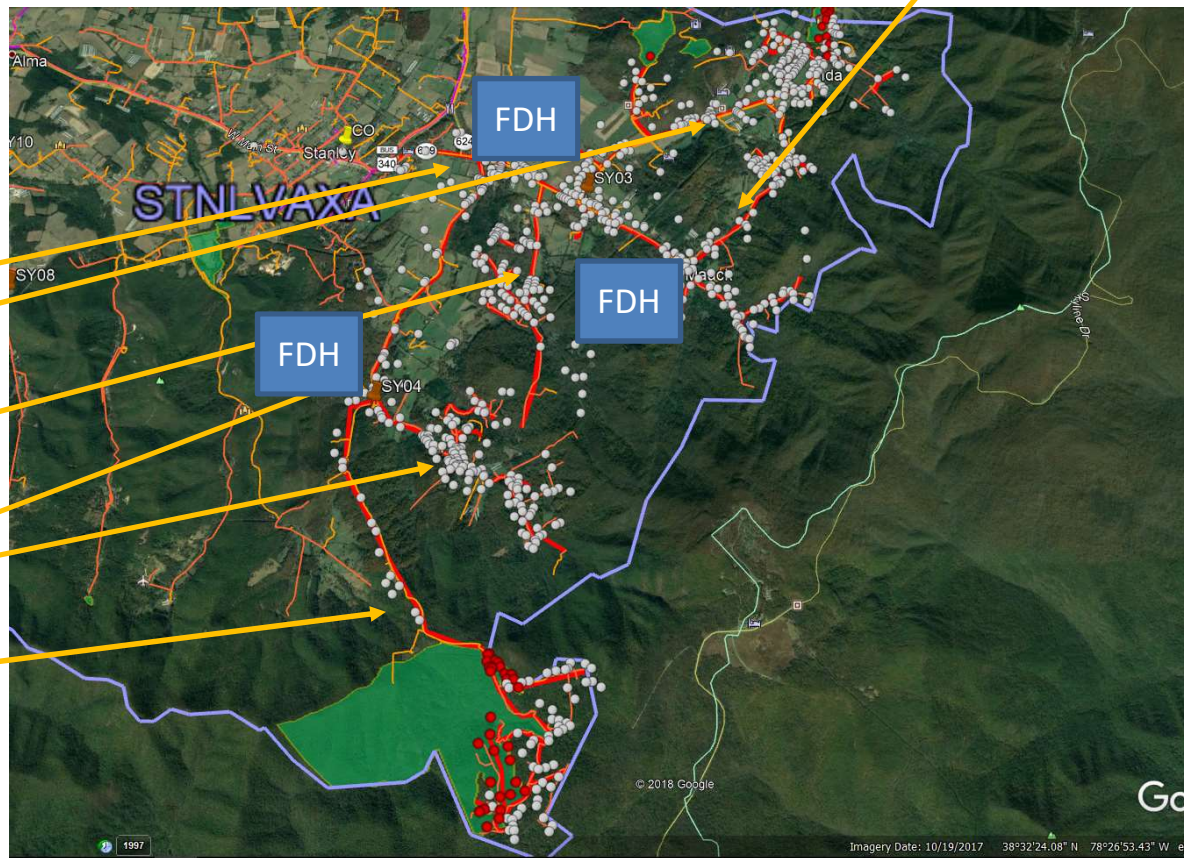
Place 24 KFT, 96F, \$144K

Place 20 KFT, 96F, \$120K

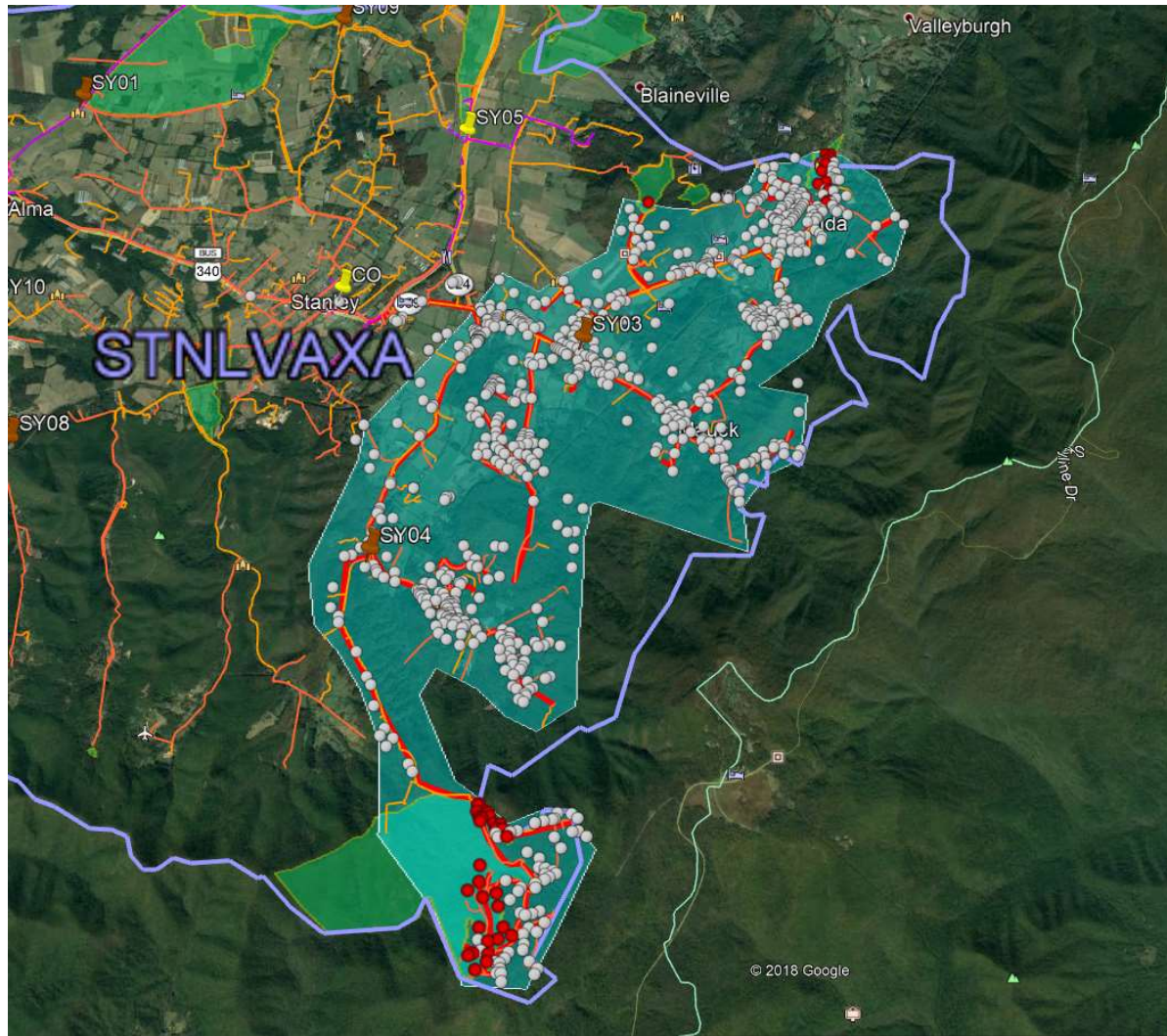
Place New E7_GPON
system at SY03 \$65K

Place 3 FDHs &
370 MDTs, \$200K

Place 10 Spurs in SY04 Area, total of 27
Kft, \$162K



Stanley – IDA / Mosby (FTTH)



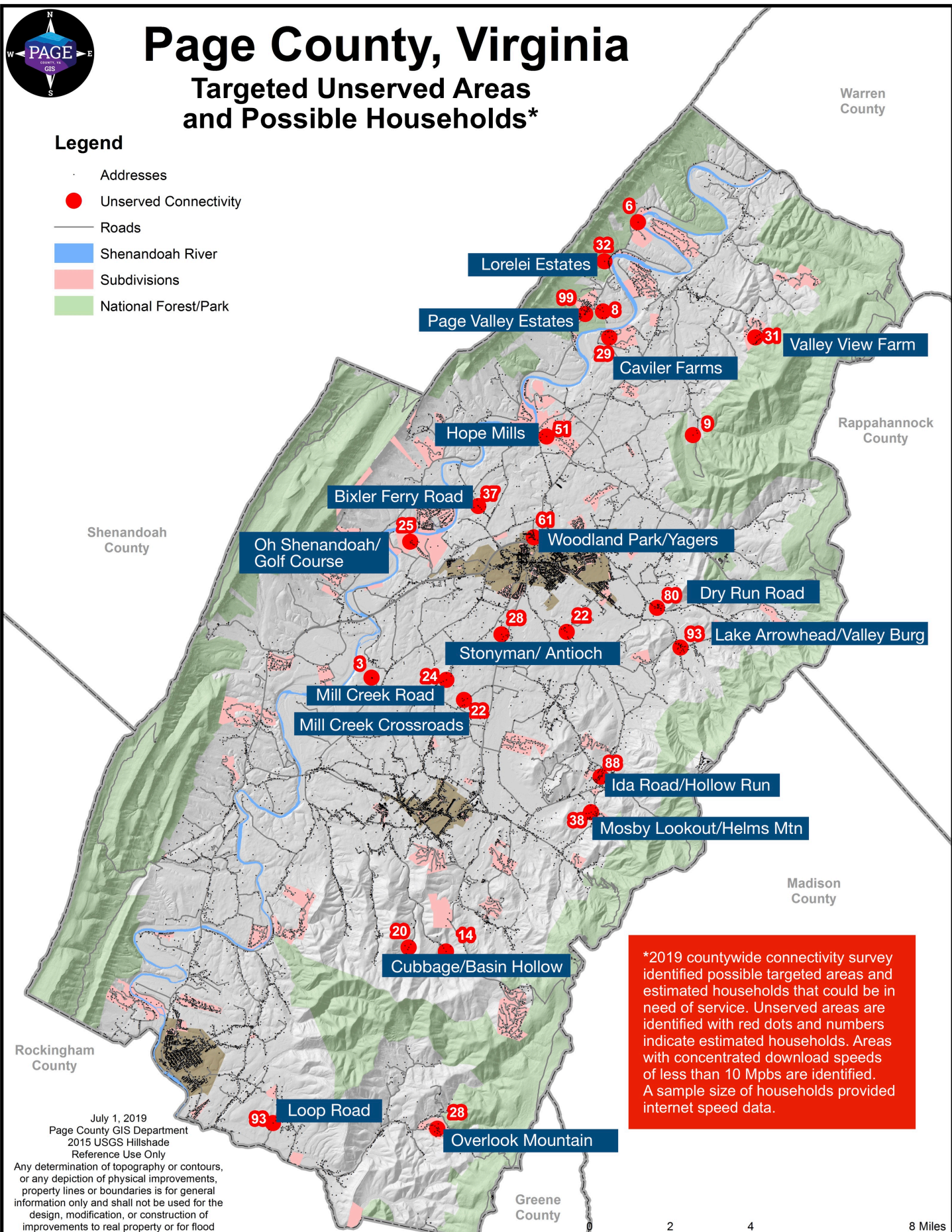


Page County, Virginia

Targeted Unserved Areas and Possible Households*

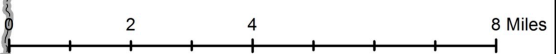
Legend

- Addresses
- Unserved Connectivity
- Roads
- Shenandoah River
- Subdivisions
- National Forest/Park



*2019 countywide connectivity survey identified possible targeted areas and estimated households that could be in need of service. Unserved areas are identified with red dots and numbers indicate estimated households. Areas with concentrated download speeds of less than 10 Mbps are identified. A sample size of households provided internet speed data.

July 1, 2019
 Page County GIS Department
 2015 USGS Hillshade
 Reference Use Only
 Any determination of topography or contours, or any depiction of physical improvements, property lines or boundaries is for general information only and shall not be used for the design, modification, or construction of improvements to real property or for flood plain determination.



Attachment 3 – Documentation on CAF Funding Area

None of the project areas have been awarded CAFII auction funding.

Attachment 4 – Documentation Unserved Area VATI Criteria

There are no providers currently offering 10 Mbps/1Mbps or less broadband service within the project area.

Attachment 5 – Propagation Map Wireless Project

This is not a wireless project so a map is not attached.



Attachment 6 – Timeline/Project Management Plan

Month	1				2				3				4				5				6				7			
Week	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Approval/Release Funding from VATI	█																											
Project Planning		█	█																									
Site Survey			█	█	█																							
Easement Research and Acquisition					█	█	█	█	█	█	█	█	█	█	█	█												
Design Engineering						█	█	█	█	█	█	█	█	█	█	█												
Permit Acquisition													█	█	█	█												
OSP Fiber Build													█	█	█	█	█	█	█	█								
Site Preparation																		█	█	█								
Commercial Power Activation																					█	█						
Equipment Installation & Turn-up																						█	█					
Cable Transfers																							█	█	█	█		
Market Launch																											█	█

Richard Schollmann

Richard Schollmann
Director

Attachment 7 – Relationship between Applicant/Co-Applicant

A partnership between the County and CenturyLink has not been formalized for this project at this time but the parties will be completing an agreement if the VATI grant is awarded. The agreement will cover CenturyLink's obligations to implement the Project Management Plan within the designated periods, to provide updates to the County on the status of the project, to notify the County if assistance is needed with issues where the County can provide assistance, to submit requests for payment as work is completed, to complete all work within the required timeframe, and to provide the County with information showing the locations where broadband has been enabled. We expect the agreement to also include obligations of the County to process requests for payment in a timely manner, review information provided by CenturyLink and submit requests for additional information in a timely manner, provide any necessary public rights of way and assist in contacting citizens and others when appropriate to assist in completing the project within the required timeframe.

August 23, 2019

Virginia Telecommunication Initiative

As a resident in the IDA area of Page County it has been brought to my attention that a Virginia Telecommunication Initiative (VATI) application will be submitted in hopes of increasing internet speeds and improving better provider consistency.

After researching the initiative and reading though Governor Northam's 2018 press release stating: "The governor's proposal would increase funding for the Virginia Telecommunications Initiative (VATI), a program that incentivizes internet service providers to expand their service to Virginians that are unserved, to \$50 million in Fiscal Year 2020. The funding would be a significant increase to the \$4 million already appropriated on an annual basis. This state funding will be matched by local, federal, and private funds, helping to connect tens of thousands more Virginians. Additional investments will support the technical expertise needed to assist local governments in developing detailed plans to connect all their citizens."

I am in support of Page County Economic Development Department's sense of urgency for stronger and faster internet speeds in this area. Improved access to internet at higher speeds is essential to the future growth and development of Page County. This project area is home to many vacation rentals and wedding venues that contribute greatly to the tax structure in Page County. Page County has been named one of the top wedding destinations because of its rural landscape and "farm style" venues in this area. Hundreds of visitors enter the Ida area every year and we, as a community, have an opportunity to convert these visitors to full time residents. High speed internet connections are a priority for this group of potential future residents. We also need internet access to allow local children to be better prepared for successful completion of their school homework and for farmers and other local residents to participate in the advantages of Virginia's growing digital economy.

The availability of better internet service in our rural area will enhance the quality of life to all our residents and possibly contribute to business growth. Better connectivity will encourage start-ups and small-scale businesses to reach potential customers directly in more rural locations.

I hope you will approve Page County's VATI application.

Sincerely,



Charles Newton
149 Balkamore Hill Road
Stanley, VA 22851



County of Page, Virginia
103 South Court St., Suite F
Luray, VA 22835

August 23, 2019

Virginia Telecommunication Initiative

The future of Page County is residential growth and small business. Those entities need access to expected quality of life amenities like high speed internet.

Today, internet infrastructure is a priority and correlates directly to our rural economic success and development. Access to reliable, affordable, and existent high-speed internet affects which businesses would be willing to relocate to a rural area and what people are willing to live there.

Page County relies on business and residential growth to contribute to its tax base. Those taxes support important community programs. If the balance is off, our community runs the risk of a deficit. Internet connectivity in a rural community is of high importance. We must sustain and encourage residential and business growth; and those populations are asking for better internet service.

As the Page County Administrator, it a priority for me to ensure our community has access to 21st century amenities like appropriate internet and intelligent communications or we risk being left behind in today's information-driven economy.

Rural areas with better access to internet at higher speeds have the opportunity to:

- Enhance educational programs
- Provide economic options for area youth to stay in the community
- Attract visitors and businesses
- Connect better to healthcare and emergency services
- Encourage less commuting and increase in virtual work
- Allow businesses to run more efficiently

We appreciate and support Governor Northam's statement in a 2018 press release saying - "Broadband internet is inarguably a necessity for participation in a 21st century economy, and many Virginians have been left without quality access for far too long." Increasing funding to the VATI program will greatly benefit rural communities like Page County and we hope you consider our application.

Sincerely,

A handwritten signature in black ink that reads "Amity Moler".

Amity Moler

August 23, 2019

Virginia Telecommunication Initiative

Page County needs better internet accessibility.

Page County residents deserve better internet speeds.

As the Page County Supervisor in District 3 and representative of the proposed Ida project area, it a priority for me to ensure our community has access to 21st century amenities like appropriate internet and intelligent communications.

The availability of better internet service in our rural area with enhance the quality of life and contribute to business growth. Better connectivity will encourage start-ups and small-scale businesses to reach potential customers directly in more rural locations.

Rural areas with better access to internet at higher speeds have the opportunity to:

- Enhance educational programs
- Provide economic options for area youth to stay in the community
- Attract visitors and local businesses
- Connect better to healthcare and emergency services
- Encourage less commuting and increase in virtual work
- Allow businesses to run more efficiently

Better and more consistent internet speeds in the Ida project area will upgrade our rural area and make us more competitive for business and residential recruitment which is a significant step towards greater economic prosperity and development.

We hope you consider our VATI application for the Ida project.

Sincerely,
Mark Stroupe
Page County District 3 Supervisor
letter submitted via email

TOWN OF SHENANDOAH

426 First Street
Shenandoah VA 22849



Phone: (540) 652-8164
Fax: (540) 652-8194
www.townofshenandoah.com

August 27, 2019

Virginia Telecommunication Initiative

As the Town Manager of Shenandoah, it has been brought to my attention that a Virginia Telecommunication Initiative (VATI) application will be submitted for areas near our town boundary in the more rural southern end of Page County.

After researching the initiative and reading though Governor Northam's 2018 press release stating: "The governor's proposal would increase funding for the Virginia Telecommunications Initiative (VATI), a program that incentivizes internet service providers to expand their service to Virginians that are unserved, to \$50 million in Fiscal Year 2020. The funding would be a significant increase to the \$4 million already appropriated on an annual basis. This state funding will be matched by local, federal, and private funds, helping to connect tens of thousands more Virginians. Additional investments will support the technical expertise needed to assist local governments in developing detailed plans to connect all their citizens."

I am in support of Page County Economic Development Department's sense of urgency to get stronger and faster internet speeds to our area. Improved access to internet at higher speeds is essential to the future growth and development of Page County.

The availability of better internet service in our rural area will enhance the quality of life and contribute to business growth. Better connectivity will encourage start-ups and small-scale businesses to reach potential customers directly in more rural locations.

Better and more consistent internet speeds in the designated project area will upgrade our rural area and make us more competitive for business and residential recruitment which is a significant step towards greater economic prosperity and development.

We hope you consider Page County's VATI application.

Sincerely,

A handwritten signature in cursive script that reads "Juanita Roudabush".
Juanita Roudabush
Town Manager

August 26, 2019

Virginia Telecommunication Initiative

Looking at Page County from a satellite view is the best way to show the difficulties of providing middle and last mile telecommunications. Page County is best described as “the Page Valley,” an area somewhat isolated and separate, bounded by a river and mountain ranges. Surrounded by the Massanutten Mountains, including the George Washington-Thomas Jefferson National Forrest, and the Blue Ridge Mountains featuring the Shenandoah National Park, with the Skyline Drive. In much of Page County, natural landscape features such as high ridges, heavily wooded slopes, sinkholes, and springs contribute to isolated and widely-scattered home developments that make it extremely difficult and costly for last-mile copper providers to extend coverage at a reasonable monthly cost to the consumer.

Governor Northam’s Broadband Initiative put’s the hammer directly on the nail. The VATI grants program is the long-term incentive program that our county needs to enable internet service providers to affordably extend high speed internet to poorly-accessed, unserved locations.

Bernie Miller

Chairman

Page County Broadband Authority

(letter submitted via email)

August 26, 2019

Virginia Telecommunication Initiative

Page County needs better internet accessibility.

Page County residents deserve better internet speeds.

As the Page County Supervisor in District 5 and representative of the proposed project area, it a priority for me to ensure our community has access to 21st century amenities like appropriate internet and intelligent communications.

The availability of better internet service in our rural area with enhance the quality of life and contribute to business growth. Better connectivity will encourage start-ups and small-scale businesses to reach potential customers directly in more rural locations.

Rural areas with better access to internet at higher speeds have the opportunity to:

- Enhance educational programs
- Provide economic options for area youth to stay in the community
- Attract visitors and local businesses
- Connect better to healthcare and emergency services
- Encourage less commuting and increase in virtual work
- Allow businesses to run more efficiently

Better and more consistent internet speeds in the project area will upgrade our rural area and make us more competitive for business and residential recruitment which is a significant step towards greater economic prosperity and development.

We hope you consider our VATI application for the Ida project.

Sincerely,



Jeff Vaughan



Attachment 9 – Documentation of Match Funding

CenturyLink will be providing all of the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project. The value of the CenturyLink contribution that is not reimbursed by VATI is \$779,400. CenturyLink has committed to provide that amount of match funding.

A handwritten signature in black ink, appearing to read "Richard Schollmann".

Richard Schollmann
Director

Attachment 10 – Funding Sources Table

SOURCE	AMOUNT	%	STATUS
Requested VATI	952,600	55	Pending
CenturyLink	779,400	45	Secured
TOTAL	1,732,000	100%	

Attachment 11 -- Derivation of Costs

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Electronics (See Attachment 1 map for specific locations and amounts)	\$ 100,000	\$ 55,000	\$ 45,000	CenturyLink	8/29/2019
Fiber build (See Attachment 1 map for specific locations and amounts)	\$ 1,632,000	\$ 897,600	\$ 734,400	CenturyLink	8/29/2019
Note that these costs include all of the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project, along with the equipment necessary to provide the broadband service and all easements required.	\$ -	\$ -	\$ -		



Attachment 12 – Documentation of Supporting Costs

The costs for this project are \$100,000 in electronics and \$1,632,000 in fiber. The cost for this project includes all of the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project, along with the equipment necessary to provide the broadband service and all easements required. The cost estimates are based on CenturyLink's extensive experience in building these same systems throughout the country.

A handwritten signature in black ink that reads "Richard Schollmann".

Richard Schollmann
Director



Attachment 13 – Supporting Documentation of Cost Estimates

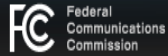
The costs for this project are \$100,000 in electronics and \$1,632,000 in fiber. The cost for this project includes all of the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project, along with the equipment necessary to provide the broadband service and all easements required. The cost estimates are based on CenturyLink's extensive experience in building these same systems throughout the country.

A handwritten signature in black ink that reads "Richard Schollmann".

Richard Schollmann
Director

Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent

CenturyLink's two most recent Form 477 data submissions are attached.



[Main Menu](#) [Form 477 Instructions](#)

OMB No. 3060-0816

FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Jun 30, 2018

Submission Status

Original - Submitted

Last Updated: Aug 31, 2018 09:37:48

Submission Menu

[Submit as Complete](#)

[Delete Submission](#)

[Filing Overview](#)

This filing has been submitted and is now read-only. To edit, go to the [Main Menu](#) and click [Revise](#).

Data Section	Status
Filer Identification	Data entered
Fixed Services	
Fixed Broadband Deployment	View file(s) Data entered
Fixed Broadband Subscription	View file(s) Data entered
Fixed Voice Subscription	View file(s) Data entered
Mobile Services	
Mobile Broadband Deployment	No data for this section
Mobile Broadband Service Availability	No data for this section
Mobile Broadband Subscription	No data for this section
Mobile Voice Deployment	No data for this section
Mobile Voice Subscription	No data for this section
Explanations and Comments	Data entered

[Main Menu](#) [Form 477 Instructions](#)[Help](#) | OMB No. 3060-0816

FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Jun 30, 2018

Submission Status

Original - Submitted

Last Updated: Aug 31, 2018 09:37:48

Filer Identification

* Indicates a required field. Please be sure you have all the required Filer Identification information before you begin. You will not be able to save your responses if required fields are incomplete.

FRN: 0018626853

* Provider Name:

CenturyLink, Inc.

* Holding Company/Common Control Name: ⓘ

CenturyLink, Inc.

[Change](#)

Operations:

 ILEC Non-ILEC

Provider's Website Address:

www.centurylink.com

* Study Area Codes (SAC): ⓘ

160138

170209

190254

* Form 499 Filer IDs: ⓘ

801408

802182

802263

Emergency Operations Contact Information ⓘ

* Name:

Stacy Hartman

* Phone Number:

(303) 707-7074

Emergency Operations Contact Information ⓘ

* Name:

* Phone Number:

Extension:

* E-Mail:

Form 477 Contact Information ⓘ

* Name:

* Phone Number:

Extension:

* E-Mail:

Certifying Official Contact Information ⓘ

* Name:

* Title:

* Phone Number:

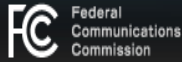
Extension:

* E-Mail:

Non-disclosures

Indicate whether you request non-disclosure of some or all of the subscription information in this submission because you believe that this information is privileged and confidential and public disclosure of such information would likely cause substantial harm to the competitive position of the filer.

Indicate whether you request non-disclosure of some or all of the mobile deployment spectrum and speed parameters information in this submission because you believe that this information is privileged and confidential and public disclosure of such information would likely cause substantial harm to the competitive position of the filer.



FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Jun 30, 2018

Submission Status

Original - Submitted

Last Updated: Aug 31, 2018 09:37:48

Local Exchange Telephone Subscription

For each state in which you have one or more customers,

1. allocate lines provided to other providers between Wholesale and UNE-L;
2. allocate lines provided to end users by (a) Services Sold, (b) Product Type, (c) Ownership and (d) Last-mile Medium; and
3. click Save Current State, then go to the next state using the menu at the left or click Finished ».

For more information about how to allocate your lines, click [here](#) . Every cell must contain a number. Blanks will cause an error. Save your work as you go and when you've entered data for each state, click Finished »

Each cell must contain a number, even if it's zero!

Subscriptions Listed By State

New Jersey
New Mexico
North Carolina
North Dakota
Ohio
Oklahoma
Oregon
Pennsylvania
South Carolina
South Dakota
Tennessee
Texas
Utah

Virginia

* All fields are required

Lines provided to Unaffiliated Providers

Wholesale: <input type="text" value="3648"/>	UNE-L: <input type="text" value="1393"/>
--	--

Lines provided to End Users...

by Services Sold

Total: <input type="text" value="166861"/>	Voice with Internet: <input type="text" value="90232"/>	Voice without Internet: <input type="text" value="76629"/>
--	---	--

by Product Type

Total: <input type="text" value="166861"/>	Consumer Total: <input type="text" value="121577"/>	Business /Gov. Total: <input type="text" value="45284"/>
	Consumer & No PIC: <input type="text"/>	Business/Gov. & No PIC: <input type="text"/>

- South Carolina
- South Dakota
- Tennessee
- Texas
- Utah
- Virginia
- Washington
- Wisconsin
- Wyoming

by Product Type

Total: ⓘ	Consumer Total: ⓘ	Business /Gov. Total: ⓘ
166861	121577	45284
	Consumer & No PIC: ⓘ	Business/Gov. & No PIC: ⓘ
	30909	20071
	Consumer & PIC: ⓘ	Business/Gov. & PIC: ⓘ
	90668	25213

by Ownership

Total: ⓘ	Owned: ⓘ	UNE-L: ⓘ	Resale: ⓘ
166861	166861	0	0

by Last-mile Medium

Total: ⓘ	FTTP: ⓘ	Coaxial Cable: ⓘ	Fixed Wireless: ⓘ	Copper: ⓘ
166861	230	0	0	166631

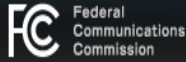
For help or assistance please contact us at 1-877-480-3201 or 1-717-338-2824 (TTY) or you may submit requests online via [e-support](#).

Federal Communications Commission
 445 12th Street SW
 Washington, DC 20554

 Phone: 1-888-225-5322
 TTY: 1-888-835-5322
 Fax: 1-866-418-0232
 E-mail: fccinfo@fcc.gov

RSS
 Privacy Policy
 Moderation Policy
 Website Policies & Notices
 Required Browser & Plug-ins

FOIA
 No Fear Act Data
 Open Government Directive
 Plain Writing Act
 2009 Recovery and Reinvestment Act



Main Menu Submission Menu Form 477 Instructions

Help | OMB No. 3060-0816

FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Jun 30, 2018

Submission Status

Original - Submitted

Last Updated: Aug 31, 2018 09:37:48

Interconnected VoIP Subscriptions

For each state in which you have one or more iVoIP subscribers,

1. allocate over-the-top iVoIP subscriptions, where you provide service to end users without also supplying last-mile facilities, between Consumer and Business / Government subscribers;
2. allocate all other iVoIP subscriptions, where you provide service to end users and also supply last-mile facilities, by (a) End User Type, (b) Services Sold, and (c) Last-mile Medium; and
3. click Save Current State, then go to the next state using the menu at the left or click Finished ».

For more information about how to allocate your lines, click [here](#).

Each cell must contain a number, even if it's zero! Blanks will cause an error.

Save your work as you go, and when you've entered data for each state, click Finished »

Subscriptions by State	
Michigan	
Minnesota	
Missouri	
Nebraska	
Nevada	
New Mexico	
North Carolina	
North Dakota	
Ohio	
Oregon	
Pennsylvania	
Texas	

Virginia

* All fields are required

Grand Totals, by End-user Type

Total	Consumer	Business / Gov.:
650	0	650

Over-the-top Subscriptions

Service to End Users Provided Without also Supplying Last-mile Facilities

Total	Consumer	Business / Gov.:
0	0	0

All Other Subscriptions

Service to End Users Provided over Last-mile Facilities Supplied by the Provider... by End-user Type

Total	Consumer	Business / Gov.:
650	0	650

- Nevada
- New Mexico
- North Carolina
- North Dakota
- Ohio
- Oregon
- Pennsylvania
- Texas
- Utah
- Virginia
- Washington
- Wisconsin
- Wyoming

Over-the-top Subscriptions

Service to End Users Provided Without also Supplying Last-mile Facilities

Total: ⓘ	Consumer: ⓘ	Business / Gov.: ⓘ
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

All Other Subscriptions

Service to End Users Provided over Last-mile Facilities Supplied by the Provider...
by End-user Type

Total: ⓘ	Consumer: ⓘ	Business / Gov.: ⓘ
<input type="text" value="650"/>	<input type="text" value="0"/>	<input type="text" value="650"/>

by Services Sold

Total: ⓘ	Voice with Internet: ⓘ	Voice without Internet: ⓘ
<input type="text" value="650"/>	<input type="text" value="650"/>	<input type="text" value="0"/>

by Last-mile Medium

Total: ⓘ	FTTP: ⓘ	Coaxial Cable: ⓘ	Fixed Wireless & Satellite: ⓘ	Copper: ⓘ
<input type="text" value="650"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="650"/>

For help or assistance please contact us at 1-877-480-3201 or 1-717-338-2824 (TTY) or you may submit requests online via [e-support](#).

Federal Communications Commission
445 12th Street SW
Washington, DC 20554
Phone: 1-888-225-5322

RSS
Privacy Policy
Moderation Policy
Website Policies & Notices
Required Browser & Plug-ins

FOIA
No Fear Act Data
Open Government Directive
Plain Writing Act
2009 Recovery and Reinvestment Act

[Main Menu](#) [Form 477 Instructions](#)[Help](#) | OMB No. 3060-0816

FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Dec 31, 2018

Submission Status

Original - Submitted

Last Updated: Mar 8, 2019 10:14:43

Filer Identification

* Indicates a required field. Please be sure you have all the required Filer Identification information before you begin.

You will not be able to save your responses if required fields are incomplete.

FRN: 0018626853

* Company Name:

* Holding Company/Common Control Name: ⓘ

[Change](#)

Operations:

 ILEC Non-ILEC

Company's Website Address:

* Study Area Codes (SAC): ⓘ

* Form 499 Filer IDs: ⓘ

Emergency Operations Contact Information ⓘ

* Name:

* Phone Number:

Emergency Operations Contact Information ⓘ

* Name:

* Phone Number:

Extension:

* E-Mail:

Form 477 Contact Information ⓘ

* Name:

* Phone Number:

Extension:

* E-Mail:

Certifying Official Contact Information ⓘ

* Name:

* Title:

* Phone Number:

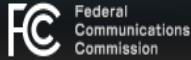
Extension:

* E-Mail:

Non-disclosures

Indicate whether you request non-disclosure of some or all of the subscription information in this submission because you believe that this information is privileged and confidential and public disclosure of such information would likely cause substantial harm to the competitive position of the filer.

Indicate whether you request non-disclosure of some or all of the mobile deployment spectrum and speed parameters information in this submission because you believe that this information is privileged and confidential and public disclosure of such information would likely cause substantial harm to the competitive position of the filer.



[Main Menu](#) [Submission Menu](#) [Form 477 Instructions](#)

[Help](#) | OMB No. 3060-0816

FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Dec 31, 2018

Submission Status

Original - Submitted

Last Updated: Mar 8, 2019 10:14:43

Local Exchange Telephone Subscription

For each state in which you have one or more customers,

1. allocate lines provided to other providers between Wholesale and UNE-L;
2. allocate lines provided to end users by (a) Services Sold, (b) Product Type, (c) Ownership and (d) Last-mile Medium; and
3. click Save Current State, then go to the next state using the menu at the left or click Finished ».

For more information about how to allocate your lines, click [here](#) . Every cell must contain a number. Blanks will cause an error. Save your work as you go and when you've entered data for each state, click Finished »

Each cell must contain a number, even if it's zero!

Subscriptions Listed By State	Virginia	* All fields are required	
Nevada	Lines provided to <u>Unaffiliated Providers</u>		
New Jersey	Wholesale: <input type="text" value="4233"/>	UNE-L: <input type="text" value="1269"/>	
New Mexico	Lines provided to <u>End Users...</u>		
North Carolina	by Services Sold		
North Dakota	Total: <input type="text" value="155313"/>	Voice with Internet: <input type="text" value="82150"/>	Voice without Internet: <input type="text" value="73163"/>
Ohio	by Product Type		
Oklahoma	Total: <input type="text" value="155313"/>	Consumer Total: <input type="text" value="112222"/>	Business /Gov. Total: <input type="text" value="43091"/>
Oregon		Consumer & No PIC: <input type="text"/>	Business/Gov. & No PIC: <input type="text"/>
Pennsylvania			
South Carolina			
South Dakota			
Tennessee			
Texas			

- Pennsylvania
- South Carolina
- South Dakota
- Tennessee
- Texas
- Utah
- Virginia
- Washington
- Wisconsin

by Product Type

Total: ⓘ	Consumer Total ⓘ	Business /Gov. Total ⓘ
<input type="text" value="155313"/>	<input type="text" value="112222"/>	<input type="text" value="43091"/>
	Consumer & No PIC: ⓘ	Business/Gov. & No PIC: ⓘ
	<input type="text" value="25635"/>	<input type="text" value="19326"/>
	Consumer & PIC: ⓘ	Business/Gov. & PIC: ⓘ
	<input type="text" value="86587"/>	<input type="text" value="23765"/>

by Ownership

Total: ⓘ	Owned: ⓘ	UNE-L: ⓘ	Resale: ⓘ
<input type="text" value="155313"/>	<input type="text" value="155313"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

by Last-mile Medium

Total: ⓘ	FTTP: ⓘ	Coaxial Cable: ⓘ	Fixed Wireless: ⓘ	Copper: ⓘ
<input type="text" value="155313"/>	<input type="text" value="210"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="155103"/>

Cancel

Next State

Continue »

For help or assistance please contact us at 1-877-480-3201 ⓘ or 1-717-338-2824 ⓘ (TTY) or you may submit requests online via [e-support](#).

Federal Communications Commission
 445 12th Street SW
 Washington, DC 20554

Phone: 1-888-225-5322 ⓘ
 TTY: 1-888-835-5322 ⓘ
 Fax: 1-866-418-0232 ⓘ
 E-mail: fccinfo@fcc.gov

RSS
 Privacy Policy
 Moderation Policy
 Website Policies & Notices
 Required Browser & Plug-ins

FOIA
 No Fear Act Data
 Open Government Directive
 Plain Writing Act
 2009 Recovery and Reinvestment Act

FRN: 0018626853

CenturyLink, Inc.

Operations: ILEC | Data as of: Dec 31, 2018

Submission Status

Original - Submitted


Last Updated: Mar 8, 2019 10:14:43

Interconnected VoIP Subscriptions

For each state in which you have one or more iVoIP subscribers,

- allocate over-the-top iVoIP subscriptions, where you provide service to end users without also supplying last-mile facilities, between Consumer and Business / Government subscribers;
- allocate all other iVoIP subscriptions, where you provide service to end users and also supply last-mile facilities, by (a) End User Type, (b) Services Sold, and (c) Last-mile Medium; and
- click Save Current State, then go to the next state using the menu at the left or click Finished ».

For more information about how to allocate your lines, click [here](#).

 Each cell must contain a number, even if it's zero! Blanks will cause an error.

Save your work as you go, and when you've entered data for each state, click Finished »

Subscriptions by State	Virginia	* All fields are required		
Iowa				
Kansas				
Michigan				
Minnesota				
Missouri				
Nebraska				
Nevada				
New Mexico				
North Carolina				
Ohio				
Oregon				
Pennsylvania				
	Grand Totals, by End-user Type			
	Total: ⓘ	Consumer: ⓘ	Business / Gov.:	
	<input type="text" value="650"/>	<input type="text" value="0"/>	<input type="text" value="650"/>	
	Over-the-top Subscriptions			
	Service to End Users Provided Without also Supplying Last-mile Facilities			
	Total: ⓘ	Consumer: ⓘ	Business / Gov.:	
	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	
	All Other Subscriptions			
	Service to End Users Provided over Last-mile Facilities Supplied by the Provider... by End-user Type			
	Total: ⓘ	Consumer: ⓘ	Business / Gov.:	
	<input type="text" value="650"/>	<input type="text" value="0"/>	<input type="text" value="650"/>	

- Missouri
- Nebraska
- Nevada
- New Mexico
- North Carolina
- Ohio
- Oregon
- Pennsylvania
- Texas
- Utah
- Virginia
- Washington
- Wisconsin

Over-the-top Subscriptions

Service to End Users Provided Without also Supplying Last-mile Facilities

Total: ⓘ	Consumer: ⓘ	Business / Gov.: ⓘ
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

All Other Subscriptions

Service to End Users Provided over Last-mile Facilities Supplied by the Provider...
by End-user Type

Total: ⓘ	Consumer: ⓘ	Business / Gov.: ⓘ
<input type="text" value="650"/>	<input type="text" value="0"/>	<input type="text" value="650"/>

by Services Sold

Total: ⓘ	Voice with Internet: ⓘ	Voice without Internet: ⓘ
<input type="text" value="650"/>	<input type="text" value="650"/>	<input type="text" value="0"/>

by Last-mile Medium

Total: ⓘ	FTTP: ⓘ	Coaxial Cable: ⓘ	Fixed Wireless & Satellite: ⓘ	Copper: ⓘ
<input type="text" value="650"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="650"/>

For help or assistance please contact us at 1-877-480-3201 ⓘ or 1-717-338-2824 ⓘ (TTY) or you may submit requests online via [e-support](#).

Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Phone: 1-888-225-5322 ⓘ
TTY: 1-888-235-5322 ⓘ

RSS
Privacy Policy
Moderation Policy
Website Policies & Notices
Required Browser & Plug-ins

FOIA
No Fear Act Data
Open Government Directive
Plain Writing Act
2009 Recovery and Reinvestment Act

PUBLIC NOTICE

2019 Virginia Telecommunications Initiative

County of Page, Virginia

The Board of Supervisors of Page County, Virginia, intends to submit applications to the Virginia Department of Housing and Community Development (DHCD) for grant funding from the 2019 Virginia Telecommunication Initiative (VATI). The purpose of the grant funding is to provide internet connections to unserved areas of Page County. Those areas will be determined by the grant application deadline of September 3, 2019.

The public is invited to submit written or oral comments of support or concerns on the proposed 2019 VATI grant application(s) by not later than September 3, 2019 to the **Page County Economic Development & Tourism Coordinator, 103 S. Court Street, Luray, VA 22835, or by calling 540-743-1216.**

Page County 2020 VATI – Luray / Stanley / Shenandoah

Glenn Butler
Network Planning
08/27/2019

Summary of Projects

Page County VATI 2020												
Project		Capital Costs			45%	55%	Living Units		No	Existing Customers		
Title	Exchange	ISP	OSP	Total	CLINK	VATI	1G	Cost / LU	BBAND	< 10M	10M - 20M	> 20M
Loop Road	Shenandoah	\$35,000	\$319,000	\$354,000	\$159,300	\$194,700	184	\$1,924	121	63		
IDA / Mosby Lookout	Stanley	\$65,000	\$1,313,000	\$1,378,000	\$620,100	\$757,900	768	\$1,794	551	204	13	
Totals		\$100,000	\$1,632,000	\$1,732,000	\$779,400	\$952,600	952	\$1,819	672	267	13	0
									71%	28%	1%	0%

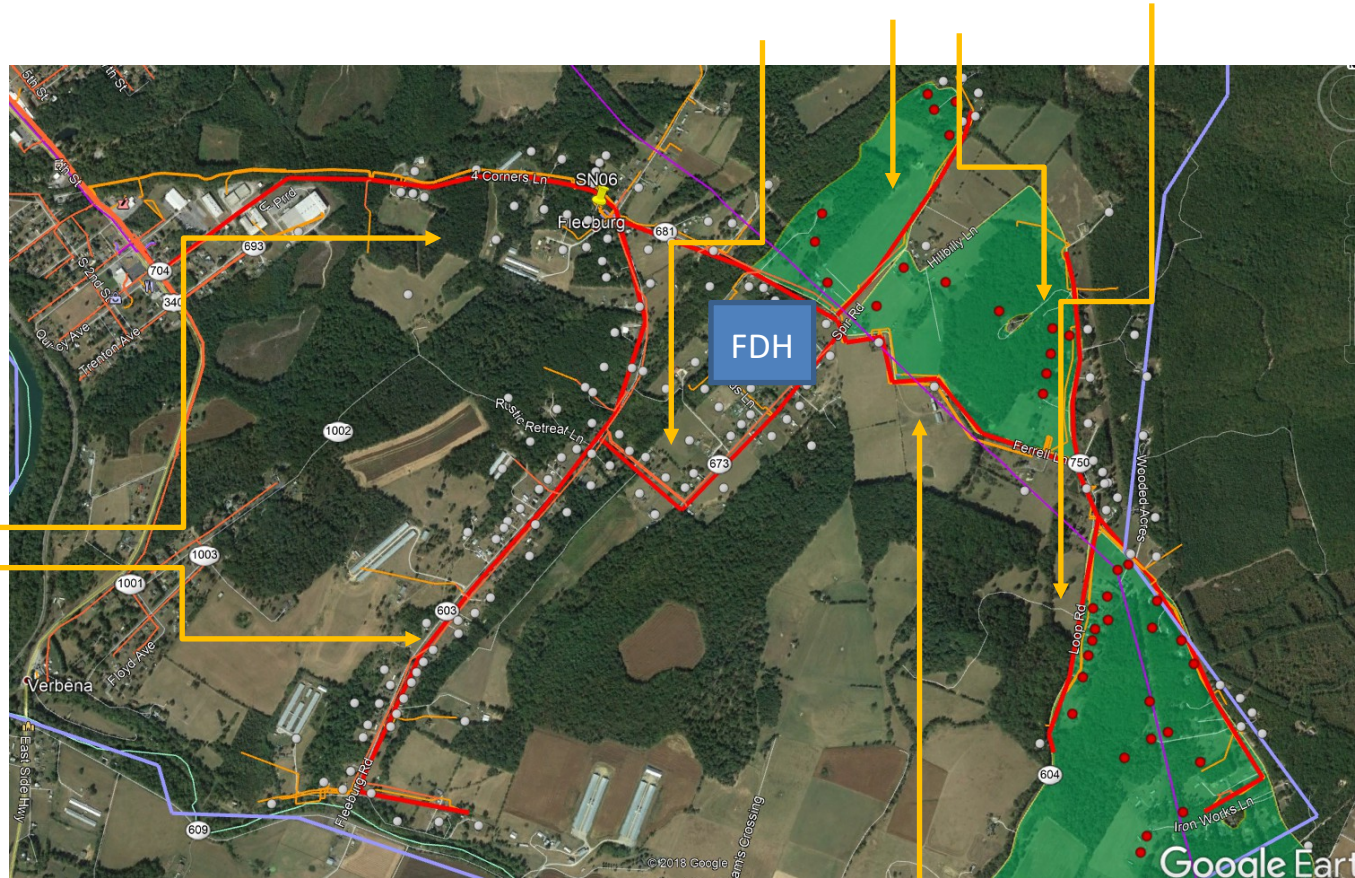
Shenandoah – Loop Road (FTTH)

Place 4 Spurs, total of 13 Kft, \$72K

184 – 1G
Estimate 130 drops < 650 Ft.;
35 between 650 & 1,500;
19 > 1,500 Feet

Place 15 KFT, 96F, \$85K

Place
E7_GPON Card
at SN06, \$35K

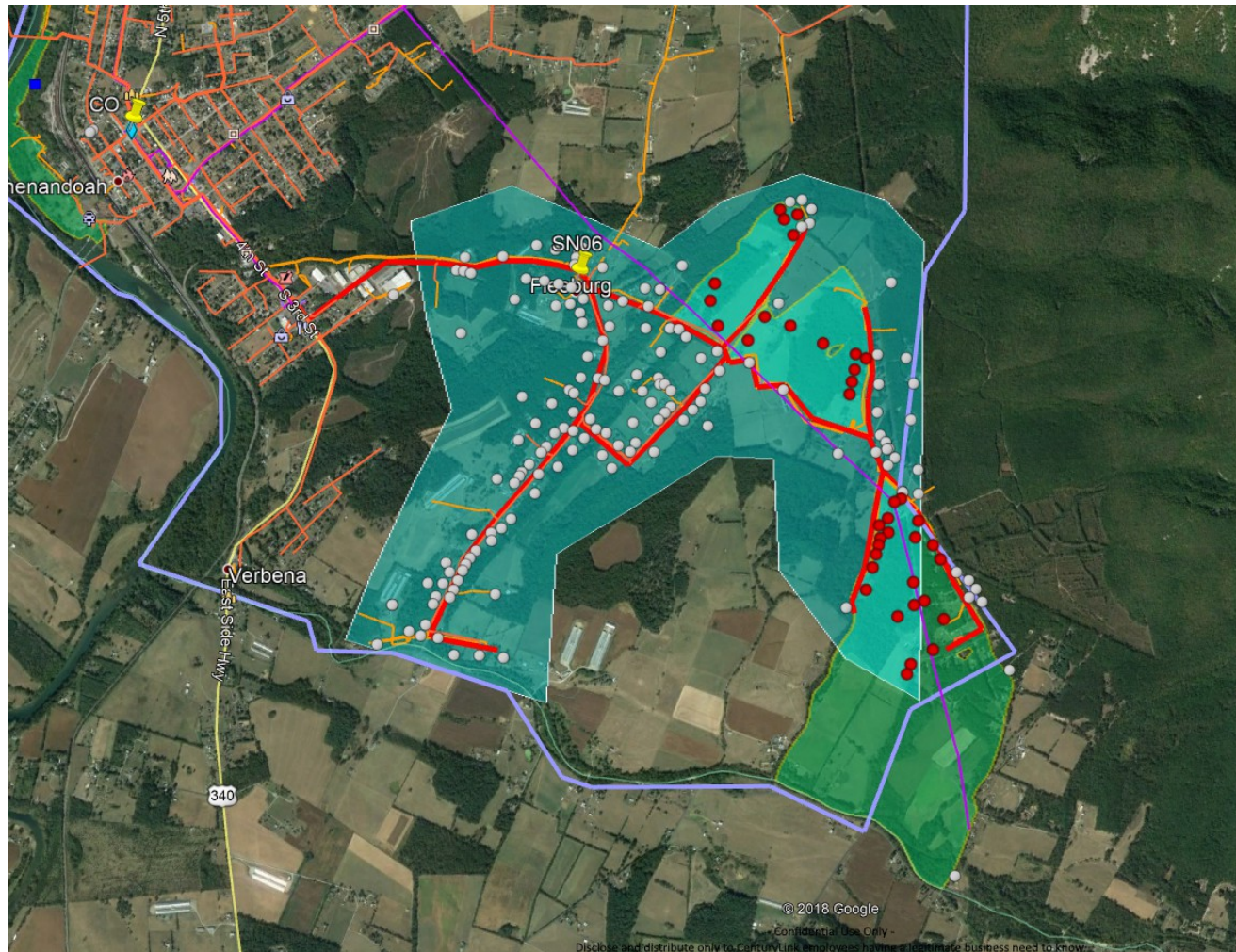


Place 2 FDH &
80 MDTs, \$90K

Place 12 KFT, 96F, \$72K
3

Confidential

Shenandoah – Loop Road (FTTH)

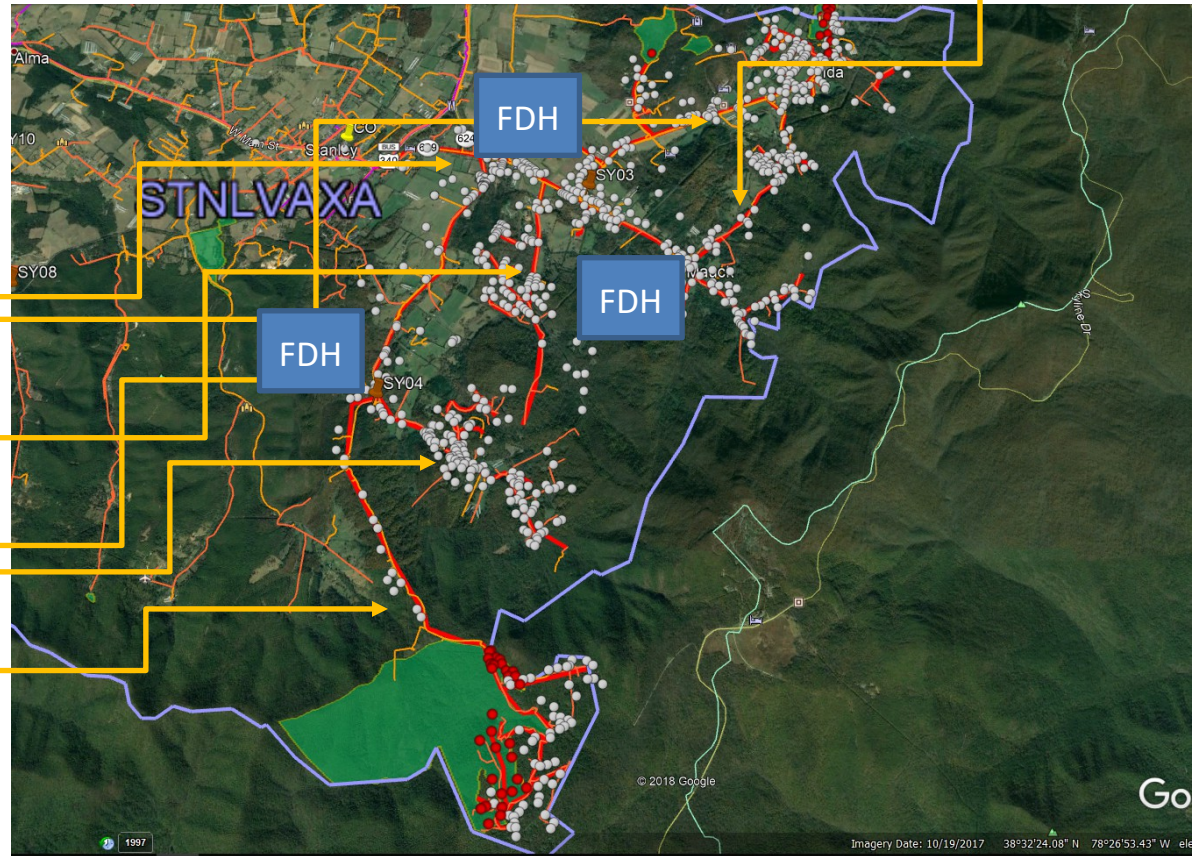


Stanley – IDA / Mosby (FTTH)

Place 14 KFT, 48F, \$84K

Place 25 Spurs in SY03 Area, total of 61.5 Kft, \$369K

768 – 1G
 Estimate 550 drops < 650 Ft.;
 150 between 650 & 1,500;
 68 > 1,500 Feet



Place 27 KFT, 96F, \$162K

Place 12 KFT, 48F, \$72K

Place 24 KFT, 96F, \$144K

Place 20 KFT, 96F, \$120K

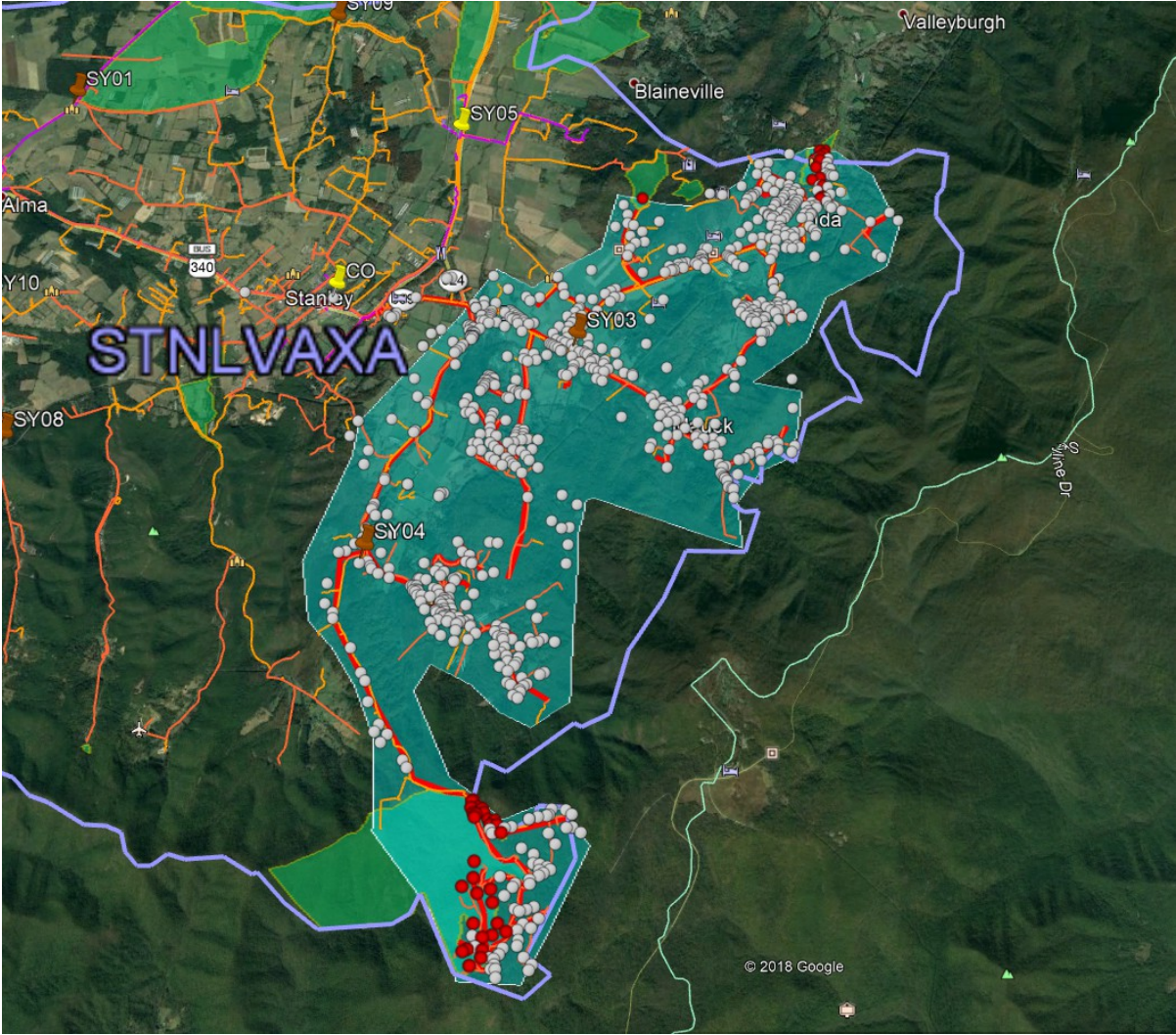
Place New E7_GPON system at SY03 \$65K

Place 3 FDHs & 370 MDTS, \$200K

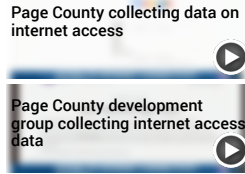
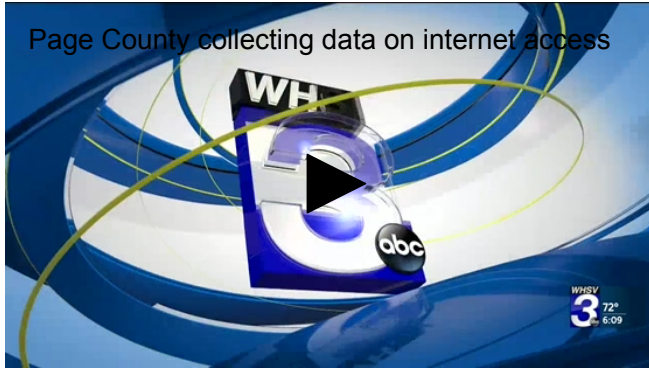
Place 10 Spurs in SY04 Area, total of 27 Kft, \$162K

Confidential

Stanley – IDA / Mosby (FTTH)



Page County conducting survey to address issues with internet connectivity



By Mackenzie Lee | Updated: Fri 3:04 AM, Jul 12, 2019

PAGE COUNTY, Va (WHSV) -- Page County Economic Development and Tourism is currently collecting data to identify areas in the county that do not have good access to the internet. They're planning on using that data to apply for a grant that could help improve access to underserved areas.

Residents of the county are being asked to fill out an online survey after taking an internet speed test. The results of the survey so far have shown connectivity issues in certain rural areas, including the Lake Arrowhead area, Page Valley Estates and Mill Creek Crossing area to name a few.

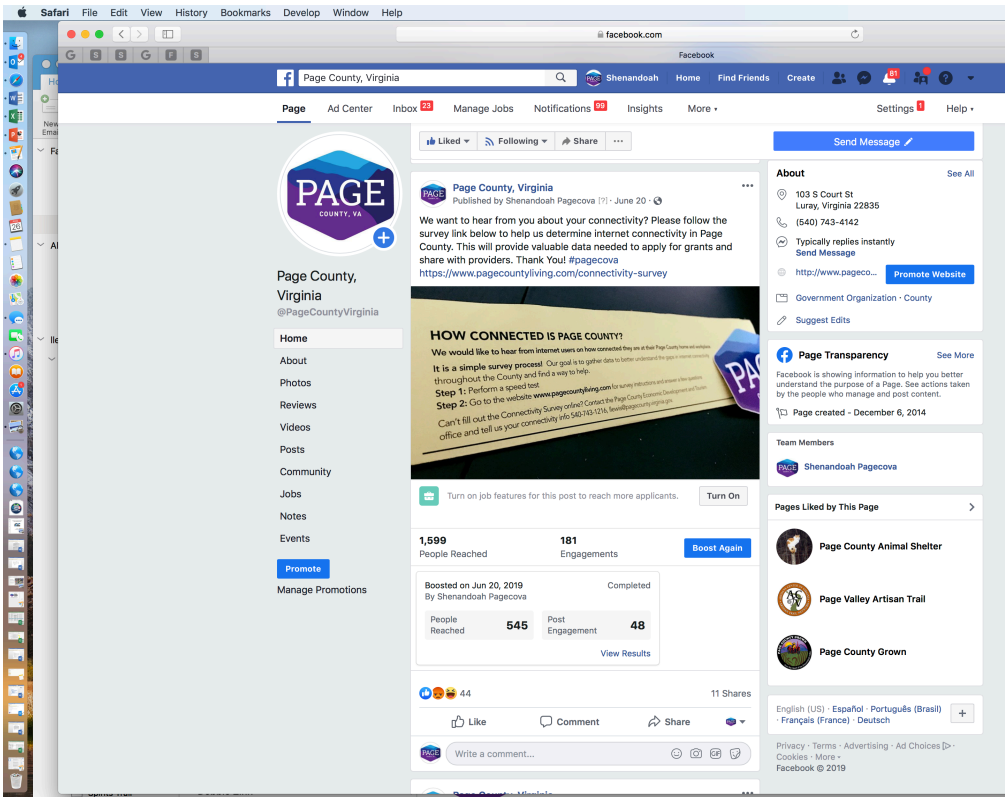
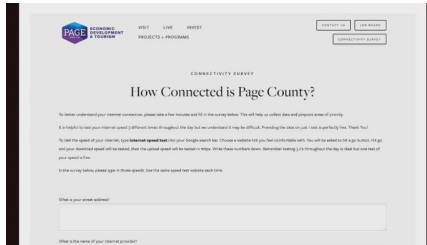
They hope to take this information to internet providers to see if they will team up with the county to improve service.

Liz Lewis, the Page County economic development and tourism coordinator, said this issue is a priority for the town. "It's become a demand. So many electronic devices now require that technology. If we can make it happen we have to do a better job of bringing that technology to Page County residents. And that's what we want to bring to the table for the third party providers so they can use that maybe as an increased customer base, and maybe as incentive to participate in the initiative with us."

Lewis said they want more responses to the survey to improve their data. Page County residents can take the survey here

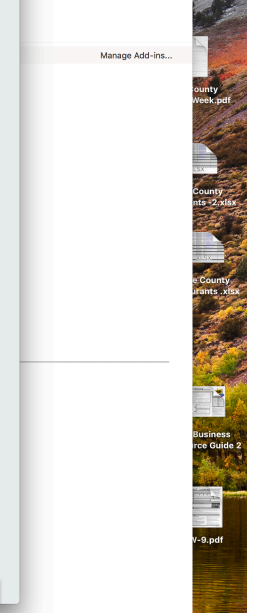
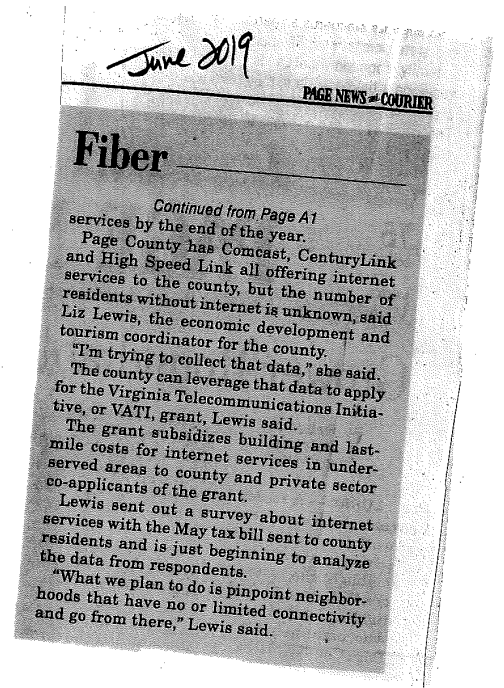
Get the latest updates from whsv.com delivered to your browser

SUBSCRIBE TO PUSH NOTIFICATIONS



Page County Connectivity Survey

- Survey created on www.pagecountyliving.com
- Yellow inserts mailed with May tax bills to every tax payer in Page County
- Coverage on local news station - WSHV
- Newspaper coverage in Daily News Record and Page News & Courier
- Boosted Facebook Posts



Subject: Form Submission - Connectivity Form
Date: Friday, July 12, 2019 at 7:23:50 AM Eastern Daylight Time
From: Squarespace
To: Liz Lewis

[NOTICE: DO NOT CLICK on links or open attachments unless you are sure the content is safe. No email should ever ask you for your username or password.]

What is your street address?: 226 E Juniper Ln, Stanley VA 22851

What is the name of your internet provider?: Centurylink

What type of connection do you have (DSL, satellite, cellular, cellular hotspot, wireless ISP, wired ISP, etc.)?: Home internet service with wi-fi

What is the name of the internet test speed app or test speed website you used?: Google Measurement Lab (M-lab)

Speed Test #1 - When did you perform the speed test (DATE/TIME)? : 7/12/2019 7:15 am

Speed Test #1a - What is the Download Mbps Speed?: 0.23

Speed Test #1b - What is the Upload Mbps Speed?: 0.14

Speed Test #2 - When did you perform the speed test (DATE/TIME)?: n/a

Speed Test #2a - What is the Download Mbps Speed?:

Speed Test #2b - What is the Upload Mbps Speed?:

Speed Test #3 - When did you perform the speed test (DATE/TIME)?: n/a

Speed Test #3a - What is the Download Mbps Speed?:

Speed Test #3b - What is the Upload Mbps Speed?:

Any other internet comments?: There has been no option for faster internet service with Centurylink in 15 plus years. I do not have access to cable service so other than satellite this is the only internet provider I can select. Not only is there a need for more coverage in the Page County but also availability of purchasing faster internet service and having more service provider options.

(Sent via [Page County Living](#))