

NRV-ROAN - Biographical Sketches

Greg Sapp, General Manager

James Gregory Sapp (Greg) is CEO/General Manager of Citizens Telephone Cooperative. Greg received a BBA in Accounting from Radford University in 1992. He joined the staff at Citizens in 1993 as an Accounting Manager trainee and later assumed the role of Finance Manager. Greg supervised the accounting staff and was responsible for the financial operations for Citizens Telephone Cooperative and subsidiary companies, SelecTec Inc. and Citizens Communications Corporation. Greg served as Assistant General Manager for Citizens Telephone Cooperative and subsidiaries from 2002 to 2007 and became General Manager in 2008.

Greg has demonstrated the ability to lead and manage projects of varying complexity. As General Manager, he was instrumental in implementing a performance based pay system, creating a Business Development Team focused on Key Accounts increasing sales to medium and large businesses, and implemented Incentive Pay Program for Sales Consultants. Furthermore, Greg helped guide Citizens through a tough economic period by focusing on increased cash flow per customer, cost containment and reduction, and leading Citizens through strategic transactions and into alliances and partnerships.

In addition to his duties at Citizens, Greg is active in the Virginia Telecommunications Industry Association (VTIA). He is currently President of the VTIA Board of Directors and previously held the position of Chairman of the Finance and Accounting Committee. He is also involved with the Small Company Committee advocating the interests of small independent telecommunications providers in the state. He recently became a member of the Industry Committee for National Telecommunications Cooperative Association (NTCA).

Dennis Reece, Assistant General Manager

Dennis Reece has been the Assistant General Manager and Chief Operation Officer at Citizens Telephone Cooperative, Inc. and subsidiaries since 2008. In this role, Dennis is involved in the strategic positioning of the organization and its operations. He has been heavily involved with obtaining contracts, agreements, and partnerships with other carriers and Internet Service Providers. Dennis was involved with the New River Valley Planning District Commission's Telecommunications Committee and the creation of New River Valley Network Wireless Authority. Dennis has created tools to aid Engineering and Key Accounts teams in performing business case analysis for "green field" projects. Dennis took the lead on two grant applications with the Virginia Tobacco Commission for middle-mile fiber projects.

Dennis held the title of Business Development Manager from 2006 until 2008. In this position, he was responsible for creating business plans and overseeing the launch of several new services, such as cellular service, Business Ethernet, PC Protection Security Suite (for residential customers), and PC Repair Service. He was very involved with the creation and supervision of the Key Account team, which is dedicated to outside business sales.

In 2000, Dennis began moving into management as the Network Team Leader and became the Internet and Information Services Manager in 2002. In this position, Dennis supervised the Information Services staff and created a new Web Services group that focuses on designing websites and e-commerce sites for customers. During this time, Dennis set the vision for more automation and system integration. As a cost savings from separate call centers based on type of service, Dennis researched and negotiated a contract for one 24/7 call center to handle all after hour support issues. Also in this role he became heavily involved with several industry associations ANPI/NewStreets, NTCA, and NRTC, and was a guest speaker at industry conferences.

His career at Citizens began in 1996 as a System Administrator and he became Network Administrator in 1999. Dennis is a graduate of Virginia Tech with a BS in Management Science with the Decision Support Systems option.

Danny Vaughn, Network Operations Manager

Danny Vaughn has been the Network Operations Manager for Citizens since 1996. Danny began his career at Citizens in 1978 when he was employed as a Central Office Technician. He graduated from New River Community College in 1978 with an A.A.S. in Electronics Technology. In his current position as Network Operation Manager he manages Citizens' Network Team which includes Outside Plant Installation and Repair Technicians, Outside Plant Engineering and Construction, Central Office Switching and Transmission Technicians, Fiber Optic Technicians, Customer Care Support, Wide Area Network Technicians, Local Area Networks Technicians, and PC Repair Technicians.

Danny has been involved in many projects over the past 32 years he has been with Citizens. Those projects include the installation of multiple digital central office switching systems. In 1999 he engineered and managed the relocation of Citizens entire voice and data operations to a new facility. This project including installing a new host switching system and successfully migrating from the previous system to the new system in a phased approach while continuing to provide uninterrupted service to Citizens' subscribers. In 1995 Danny headed up Citizens' entry into Internet service and managed the Internet Business unit helping grow it to a profitable service with a customer base of over 5000. In 2001 he was instrumental in the vendor selection for the equipment deployed to provide broadband (DSL) services to Citizens customers over a total IP based network. This resulted in a future proof network that now delivers voice, video, and data to Citizens' subscribers. In 2004 when Citizens made the decision to enter the video business Danny was heavily involved in the design and vendor selection for Citizens' new digital video head-end. The unique requirements of this head-end made it particularly challenging as it needed to provide video signals to support a traditional analog system, HFC system and an IPTV system. Danny was instrumental in the design and recommendation of all aspects of the video system including the selection and installation of encoders, middleware, set top boxes, and all support systems. Today this system provides the signals for multiple video networks and provides and currently supports over 2000 customers.

Chris Bond, Finance Manager

Chris Bond is the Finance Manager, overseeing Accounting and Accounts Receivable, for Citizens Telephone Cooperative and its subsidiary companies SelecTec, Inc., and Citizens Cablevision. He has been an employee of Citizens since November 9, 1998. Before that, he worked for a CPA firm, Spencer & Hager, in Roanoke, VA. Chris received a Bachelor's of Business Administration in Accounting from Radford University in 1997.

In his role as Finance Manager, Chris has been involved with several projects from a financial standpoint. He was responsible for managing and accounting for the finances of a \$3.7 million grant from the Virginia Tobacco Commission and is currently doing the same for a \$1.8 million grant from the same organization. In the past, he has also managed the finances of several large RUS contracts and been involved with the review and auditing process of these contracts.

Chris has also represented Citizens during audits performed by the Internal Revenue Service, the State of Virginia, and the Universal Service Administrative Company.

Charles Huff, Engineering and Construction Supervisor

Charles has been an employee with Citizens since 1988. Recently Charles managed a 101 mile fiber construction project for Citizens. This project required establishing and building a fiber connect point with the Mid-Atlantic Broadband Cooperative (MBC) fiber in Patrick County and connecting with the Bristol Virginia Utilities (BVU) fiber in Wythe County. The project also consisted of building fiber and setting up two connect points with two North Carolina companies along the NC state line. This fiber build required construction in the counties of Floyd, Patrick, Carroll, Wythe, Grayson, and Montgomery.

During his career at Citizens Charles has been actively involved with numerous outside plant projects. He has managed several large RUS outside plant construction contracts where he was responsible for overseeing the Contractors and Consulting engineering personnel. He has extensive experience in highway permits, railroad permits, environmental permits, right of way acquisition, joint use procedures, and coordinating with various localities and utilities.

BTOP Comprehensive Community Infrastructure Community Anchor Institution and Network Points of Interest Detail Template

Please complete the Anchor Institution Details worksheet by providing information on Community Anchor Institutions that will be directly connected by the proposed network as necessary. All Community Anchor Institutions should be given a type from the specification. A Community Anchor Institution is considered a minority-serving institution if it is a post-secondary educational institution with enrollment of minority students exceeding 50% of its total enrollment. The "Project Role" column only requires a word or two, or a short phrase, not a detailed explanation of the role of project partners and community anchor institutions provided in the essay portions of the application.

Please complete the Points of Interest worksheet by providing information on all points of interest (passive, non-environmentally controlled points of interconnection, cell tower points, may be excluded), collocation facilities, central offices, head ends, and other central facilities, network access points to last mile service providers, Internet peering points, etc. For each point of interest you may provide either a street address or geocoordinates (lat/long). You must provide detail on what the point of interest is, whether it is already existing or will be created by the proposed project. Where more than one facility type applies, select the most appropriate facility type. For example, if a central office houses a point of interconnection, select central office as the facility type, or if a cell site is located on a tower, select tower as the facility type. The "Interconnection Available at the Facility" field should be Yes if interconnection to the proposed network is available at that location, otherwise No. The brief description field is optional and can be used to convey a better understanding of what the facility is. You may use the space at the bottom of the table to provide additional notes, if desired.

The data provided via this template will be subject to automated processing. Applicants are therefore required to provide this upload as an Excel file, and not to convert it to a PDF or other format for upload. Additionally, applicants should not modify the format of this file.

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BTOP CCI Community Anchor Institutions Detail Template

Title: **NRV-ROAN (New River Valley Regional Open Access Network)**
 Easy Grants ID: **6848**

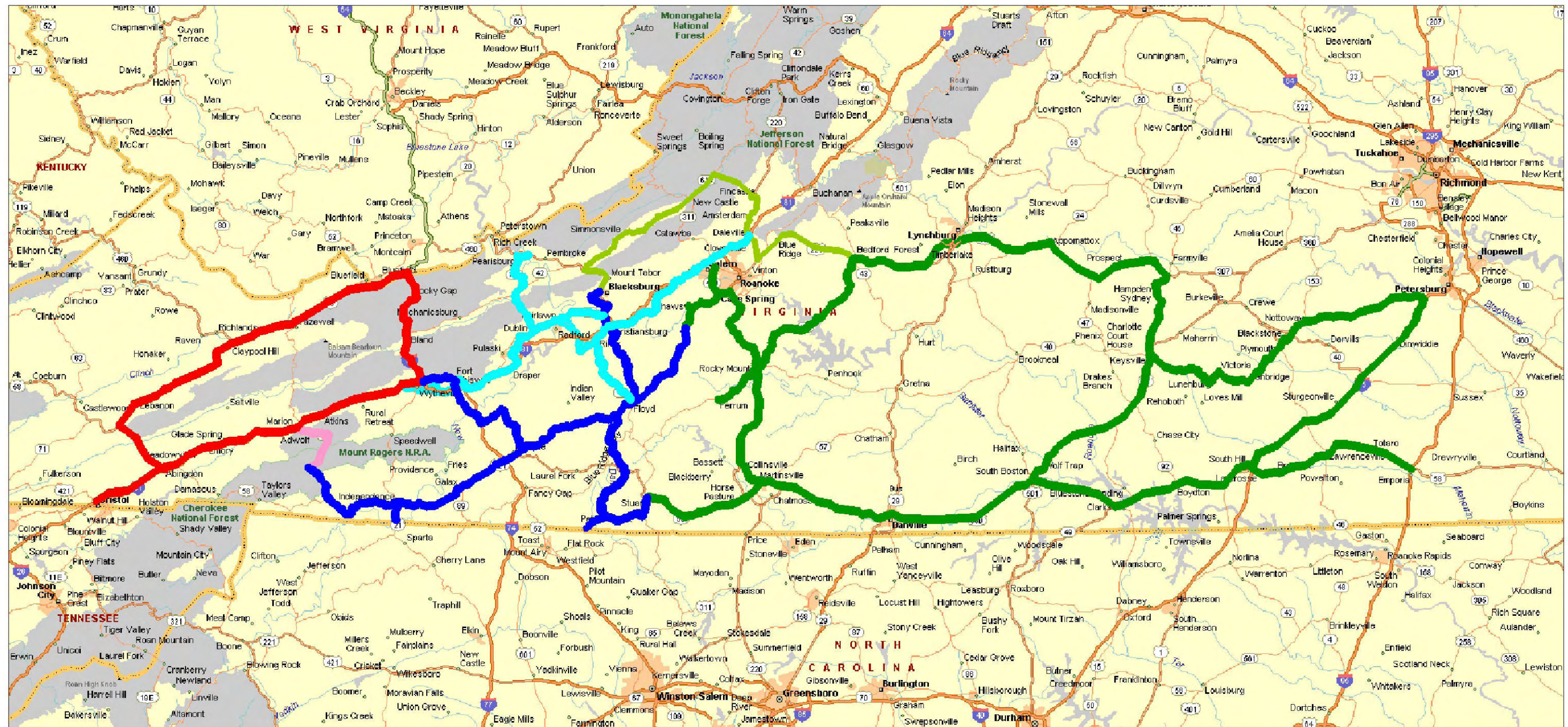
Facility Name	Organization	Address Line 1	City	State	Zip	Facility Type	Minority Serving Institution Type	Project Role
Prices Fork Elementary	Montgomery County	4234 Prices Fork Rd	Blacksburg	VA	24060	School (k-12)		
Kipps Elementary	Montgomery County	3109 Prices Fork Road	Blacksburg	VA	24060	School (k-12)		
Blacksbug Middle	Montgomery County	3109 Prices Fork Road	Blacksburg	VA	24060	School (k-12)		
Gilbert Linkouse Elem	Montgomery County	813 Toms Creek Road	Blacksburg	VA	24060	School (k-12)		
Blacksburg High	Montgomery County	520 Patrick Henry Drive	Blacksburg	VA	24060	School (k-12)		
Harding Elementary	Montgomery County	429 Harding Avenue	Blacksburg	VA	24060	School (k-12)		
Margaret Beeks Elementary	Montgomery County	709 Airport Road	Blacksburg	VA	24060	School (k-12)		
School Service Dept	Montgomery County	1175 Cambria Street	Christiansburg	VA	24073	School (k-12)		
School Board Office	Montgomery County	200 Junkin Street	Christiansburg	VA	24073	School (k-12)		Participated in planning
Belview Elementary	Montgomery County	3187 Peppers Ferry Road	Radford	VA	24141	School (k-12)		
Christiansburg High	Montgomery County	100 Independence Blvd	Christiansburg	VA	24073	School (k-12)		
County Tech Department	Montgomery County	1180 North Franklin Street	Christiansburg	VA	24073	School (k-12)		
Christiansburg Elem	Montgomery County	160 Wades Lane	Christiansburg	VA	24073	School (k-12)		
Christiansburg Primary	Montgomery County	240 Betty Drive	Christiansburg	VA	24073	School (k-12)		
Old Christiansburg Middle	Montgomery County	208 College Street	Christiansburg	VA	24073	School (k-12)		
New Christiansburg Middle	Montgomery County	1205 Buffalo Drive	Christiansburg	VA	24073	School (k-12)		
Auburn High, Middle & Elem	Montgomery County	4163 Riner Road	Riner	VA	24149	School (k-12)		
Falling Branch	Montgomery County	735 Falling Branch Road	Christiansburg	VA	24073	School (k-12)		
Shawsville Middle	Montgomery County	4179 Old Town Road	Shawsville	VA	24162	School (k-12)		
Shawsville Elem	Montgomery County	4390 Riffe Street	Shawsville	VA	24087	School (k-12)		
East Montgomery High	Montgomery County	8561 Roanoke Road	Elliston	VA	24087	School (k-12)		
Elliston Elementary	Montgomery County	5201 Crozier Road	Elliston	VA	24087	School (k-12)		
Meadowbrook Library	Montgomery County	267 Alleghany Spring Road	Shawsville	VA	24162	Library		
Shawsville Fire & Rescue	Montgomery County	6620 Roanoke Road	Shawsville	VA	24162	Public Safety Entity		
Auburn Fire & Rescue	Montgomery County	4171 Riner Road	Riner	VA	24149	Public Safety Entity		
NRV Medical Center	Montgomery County	2900 Tyler Road	Radford	VA	24141	Medical or Healthcare Provider		
Radford University	Montgomery County	801 East Main Street	Radford	VA	24142	Other Institution of Higher Education		Participated in planning
NRV Detention Center	Montgomery County	650 Wades Lane	Christiansburg	VA	24073	Other Government Facility		
Sheriffs Office/Courthouse	Montgomery County	16 South Franklin Street	Christiansburg	VA	24073	Other Government Facility		
County Government Center	Montgomery County	755 Roanoke Street	Christiansburg	VA	24073	Other Government Facility		Participated in planning
NRV Competitiveness Center	Pulaski County	6580 Valley Center Drive #302	Radford	VA	24141	Other Government Facility		Participated in planning
Riverlawn Elementary	Pulaski County	8100 Beth Nelson Drive	Fairlawn	VA	24141	School (k-12)		
New River Community College	Pulaski County	5251 College Drive	Dublin	VA	24084	Community College		
Dublin Middle	Pulaski County	650 Giles Avenue	Dublin	VA	24080	School (k-12)		
NVR Regional Jail	Pulaski County	108 Baker Road	Dublin	VA	24084	Public Safety Entity		
Pulaski High	Pulaski County	5414 Cougar Trail	Dublin	VA	24084	School (k-12)		
Pulaski School Board	Pulaski County	202 North Washington Ave	Pulaski	VA	24301	School (k-12)		Participated in planning
Pulaski Hospital	Pulaski County	2400 Lee Highway	Pulaski	VA	24031	Medical or Healthcare Provider		
Giles School Board	Giles County	151 School Road	Pearisburg	VA	24134	School (k-12)		Participated in planning
Giles High	Giles County	1825 Wenonah Avenue	Pearisburg	VA	24134	School (k-12)		

Facility Name	Organization	Address Line 1	City	State	Zip	Facility Type	Minority Serving Institution Type	Project Role
Giles Hospital	Giles County	1 Taylor Avenue	Pearisburg	VA	24134	Medical or Healthcare Provider		
Scott Memorial Middle	Wythe County	950 South 7th Street	Wytheville	VA	24382	School (k-12)		
Wythe Courthouse	Wythe County	225 South 4th Street	Wytheville	VA	24382	Other Government Facility		
Wythe Sheriffs Office	Wythe County	245 South 6th Street	Wytheville	VA	24382	Public Safety Entity		
George Wythe High	Wythe County	1 Maroon Way	Wytheville	VA	24382	School (k-12)		
Spiller Elementary	Wythe County	330 Tazwell Street	Wytheville	VA	24382	School (k-12)		
New Wythe Gov Offices	Wythe County	732 East Goodwin Lane	Wytheville	VA	24382	Other Government Facility		
Wythe Community College	Wythe County	1000 East Main Street	Wytheville	VA	24382	Community College		
Wythe Hospital	Wythe County	600 West Ridge Road	Wytheville	VA	24382	Medical or Healthcare Provider		
Virginia Tech	Montgomery County	Rt 114 & Rt 460	Christiansburg	VA	24073	Other Institution of Higher Education		Participated in planning
Dublin Airport	Pulaski County	5391 C V Jackson Road	Dublin	VA	24084	Other Government Facility		Participated in planning
NVR Commerce Park	Pulaski County	5303 Laboratory Drive	Dublin	VA	24084	Other Government Facility		Participated in planning
Pulaski Corporate Park	Pulaski County	Peperell Way & Cougar Trail Rd	Pulaski	VA	24031	Other Government Facility		Participated in planning
Mountain View Industry Park	Giles County	213 Industrial Park Drive	Pearisburg	VA	24134	Other Government Facility		

BTOP CCI Network Points of Interest Detail Template

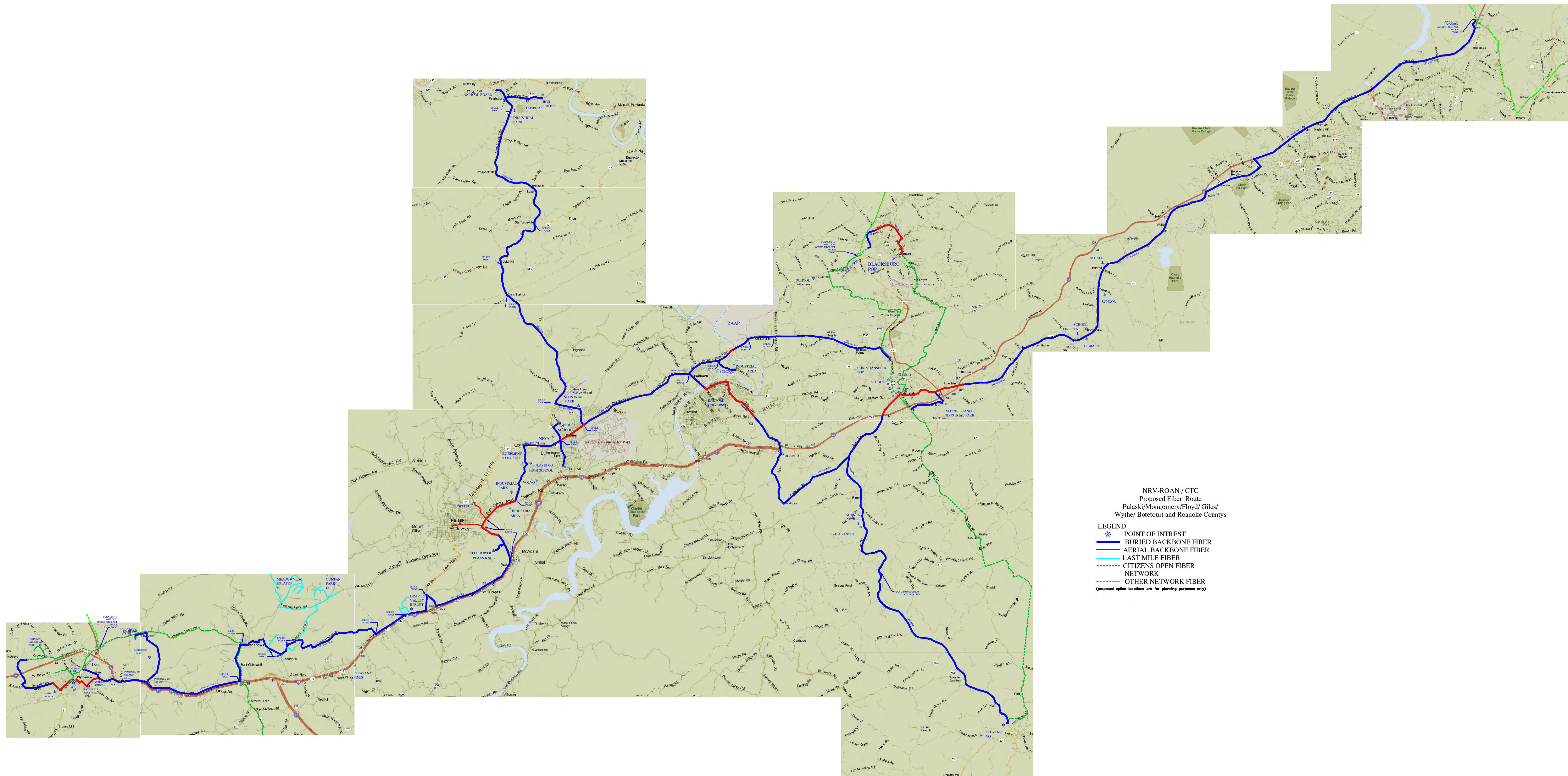
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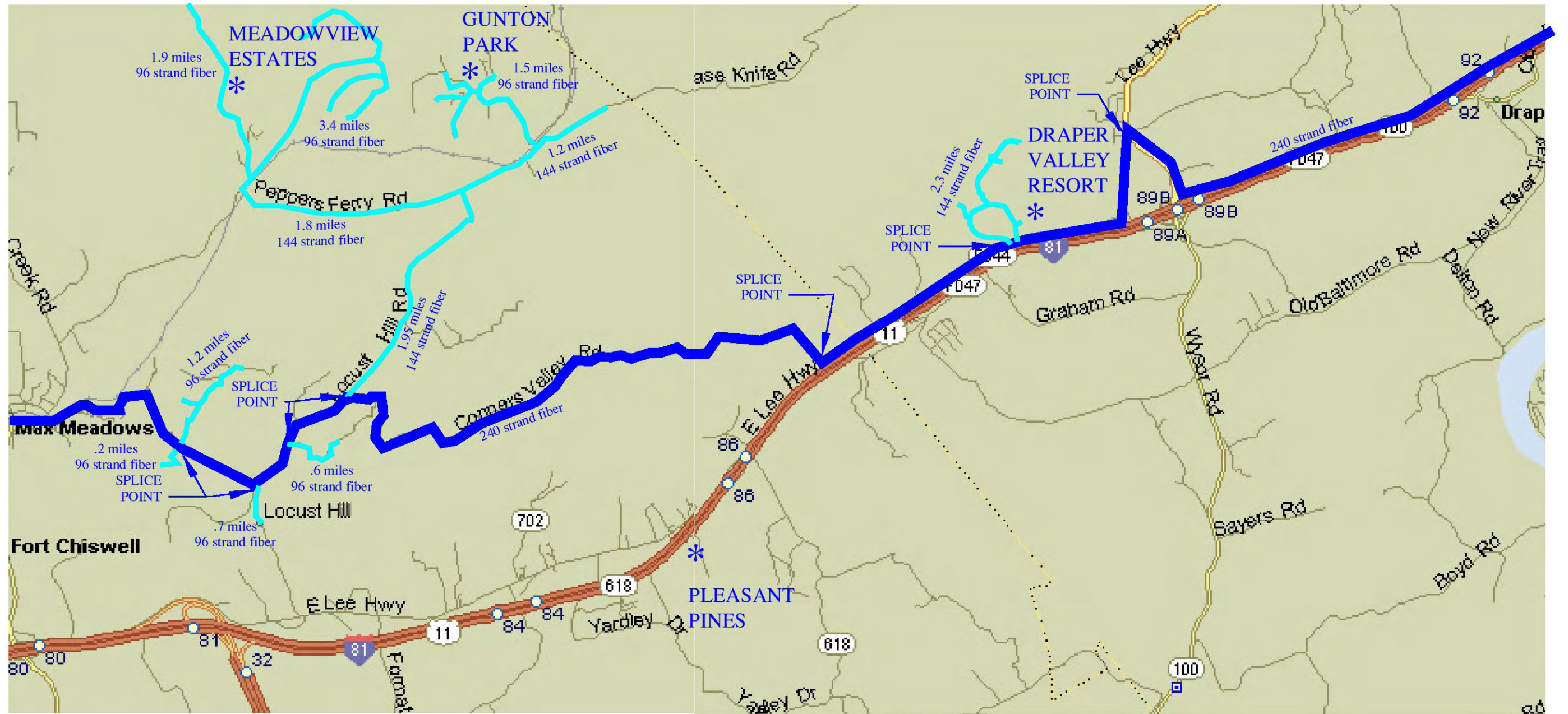
Facility Type	Address Line 1	City	State	Zip	Longitude	Latitude	Interconnection Available at this Location	Status in Proposed Network
Central Office	220 Webbs Mill Road	Floyd	VA	24091	80.325W	36.9184N	Yes	Existing - Applicant/Partner Owned
Collocation Facility	Palmer Street	Christiansburg	VA	24073	80.2455W	37.0914N	Yes	New for Proposed Network
Collocation Facility	1309 1/2 South Main Street	Blacksburg	VA	24060	80.4005W	37.2173N	Yes	Existing - Leased from Third Party
Collocation Facility	2452 Peppers Ferry Road	Wytheville	VA	24382	80.0294W	36.8783N	Yes	Existing - Applicant/Partner Owned
Tower (cell site)	Draper Valley Rd/State Rd F-064	Pulaski	VA	24031	80.7462W	37.0246N	Yes	Existing - Other
Last Mile Network Access Point	213 Industrial Park Drive	Pearisburg	VA	24134	80 43' 53"W	37 18' 59"N	Yes	Existing - Other
Last Mile Network Access Point	Rt 11 & Rt 114	Radford	VA	24141	80 35' 1.5"W	37 09' 1.5"N	Yes	New for Proposed Network
Collocation Facility	409 Tinker Mountain Road	Daleville	VA	24083	79.5422W	37.2328N	Yes	New for Proposed Network
Collocation Facility	Peperell Way & Cougar Trail Rd	Pulaski	VA	24031	80 43' 1.6"W	37 05' 16"N	Yes	New for Proposed Network



VIRGINIA'S OPEN ACCESS FIBER NETWORK (SNAPSHOT WEST OF RICHMOND, VA.)

- PROPOSED NRV-ROAN FIBER ROUTE
- EXISTING CITIZENS' OPEN ACCESS NETWORK
- EXISTING Mid-Atlantic Broadband Cooperative's Fiber Network
- FUTURE Allegheny Fiber project; Easy grants ID: 248
- EXISTING Bristol Virginia Utilities Fiber Network
- FUTURE Bristol Virginia Utilities Fiber Route





NRV-ROAN / CTC
 Proposed last mile Fiber Route
 Pulaski and Wythe Counties

LEGEND

- * POINT OF INTREST
 - BURIED BACKBONE FIBER
 - AERIAL BACKBONE FIBER
 - LAST MILE FIBER
 - - - CITIZENS OPEN FIBER NETWORK
 - - - OTHER NETWORK FIBER
- (proposed splice locations are for planning purposes only)

BTOP Comprehensive Community Infrastructure Detailed Budget

Please complete the General Budget Overview and Detailed Project Costs worksheets.

Please refer to the Comprehensive Community Infrastructure Grant Guidance for detailed instructions on the completing this upload.

Applicants are required to provide this upload as an Excel file, and not to convert it to a PDF prior to upload. Applicants should not alter the layout of the provided templates, except to insert additional line-items as needed in the Detailed Project Costs worksheet.

General Budget Overview

Budget	Federal Funding Request	Matching Funds (Cash)	Matching Funds (In-Kind)	Budget TOTAL	Last Mile Allocation	Middle Mile Allocation	Allocated TOTAL
Network & Access Equipment (switching, routing, transport, access)	\$1,028,712	\$257,178		\$1,285,890	\$195,890.00	\$1,090,000.00	\$1,285,890
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)	\$9,234,562	\$1,783,641	\$525,000	\$11,543,203	\$1,232,400.00	\$10,310,803.00	\$11,543,203
Buildings and Land – (new construction, improvements, renovations, lease)	\$128,000	\$32,000		\$160,000	\$0.00	\$160,000.00	\$160,000
Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)	\$116,600	\$29,150		\$145,750	\$145,750.00		\$145,750
Billing and Operational Support Systems (IT systems, software, etc.)				\$0			\$0
Operating Equipment (vehicles, office equipment, other)				\$0			\$0
Engineering/Professional Services (engineering design, project management, consulting, etc.)				\$0		\$0.00	\$0
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)				\$0			\$0
Site Preparation				\$0			\$0
Other				\$0			\$0
TOTAL BROADBAND SYSTEM:	\$10,507,874	\$2,101,969	\$525,000	\$13,134,843	\$1,574,040	\$11,560,803	\$13,134,843
Cost Share Percentage:	80.00%	16.00%	4.00%				

DETAIL OF PROJECT COSTS

PLEASE COMPLETE THE TABLE BELOW FOR THE DIFFERENT CATEGORIES OF EQUIPMENT THAT WILL BE REQUIRED FOR COMPLETING THE PROJECT. EACH CATEGORY SHOULD BE BROKEN DOWN TO THE APPROPRIATE LEVEL FOR IDENTIFYING UNIT COST

SERVICE AREA or COMMON NETWORK FACILITIES:		Match (Cash/In-kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
NETWORK & ACCESS EQUIPMENT					\$1,285,890	\$195,890	\$1,090,000	\$1,285,890		
Switching					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Routing					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Transport	Infinera 4-Way		\$496,000.00	1	\$496,000		\$496,000.00	\$496,000	10. Equipment	
	Infinera 4-Way	Cash Match	\$124,000.00	1	\$124,000		\$124,000.00	\$124,000	10. Equipment	
	Infinera 3-Way		\$360,000.00	1	\$360,000		\$360,000.00	\$360,000	10. Equipment	
	Infinera 3-Way	Cash Match	\$90,000.00	1	\$90,000		\$90,000.00	\$90,000	10. Equipment	
	Nortel		\$16,000.00	1	\$16,000		\$16,000.00	\$16,000	10. Equipment	
	Nortel	Cash Match	\$4,000.00	1	\$4,000		\$4,000.00	\$4,000	10. Equipment	
Access	Occam Chassis		\$1,716.00	2	\$3,432	\$3,432.00		\$3,432	10. Equipment	
	Occam Chassis	Cash Match	\$429.00	2	\$858	\$858.00		\$858	10. Equipment	
	Occam 6312 FTTP Blade		\$3,280.00	12	\$39,360	\$39,360.00		\$39,360	10. Equipment	
	Occam 6312 FTTP Blade	Cash Match	\$820.00	12	\$9,840	\$9,840.00		\$9,840	10. Equipment	
	Occam Cabinets		\$48,000.00	2	\$96,000	\$96,000.00		\$96,000	10. Equipment	
	Occam Cabinets	Cash Match	\$12,000.00	2	\$24,000	\$24,000.00		\$24,000	10. Equipment	
	Cisco 3402		\$1,160.00	12	\$13,920	\$13,920.00		\$13,920	10. Equipment	
	Cisco 3402	Cash Match	\$290.00	12	\$3,480	\$3,480.00		\$3,480	10. Equipment	
	Cisco 3412		\$4,000.00	1	\$4,000	\$4,000.00		\$4,000	10. Equipment	
	Cisco 3412	Cash Match	\$1,000.00	1	\$1,000	\$1,000.00		\$1,000	10. Equipment	
Other					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
OUTSIDE PLANT					\$11,543,203	\$1,232,400	\$10,310,803	\$11,543,203		
Cables	Fiber - 240 S/M (per mile)		54000	115	\$4,968,000	432000	4536000	\$4,968,000	9. Construction	
	Fiber - 240 S/M (per mile)	Cash Match			\$915,064	86400	828664	\$915,064	9. Construction	
	Fiber - 240 S/M (per mile)	In-kind Match			\$326,936	21600	305336	\$326,936	9. Construction	
	Fiber - 144 S/M (per mile)		54000	70	\$3,024,000	388800	2635200	\$3,024,000	9. Construction	
	Fiber - 144 S/M (per mile)	Cash Match			\$604,800	77760	527040	\$604,800	9. Construction	
	Fiber - 144 S/M (per mile)	In-kind Match			\$151,200	19440	131760	\$151,200	9. Construction	
	Fiber - 96 S/M (per mile)		53254	22	\$937,282	105600	831682	\$937,282	9. Construction	
	Fiber - 96 S/M (per mile)	Cash Match			\$187,457	21120	166337	\$187,457	9. Construction	
	Fiber - 96 S/M (per mile)	In-kind Match			\$46,864	5280	41584	\$46,864	9. Construction	
Conduits					\$0			\$0		
	1 1/2" PE (per foot)		2.88	100000	\$288,000	48000	240000	\$288,000	9. Construction	
	1 1/2" PE (per foot)	Cash Match	0.72	100000	\$72,000	12000	60000	\$72,000	9. Construction	
Ducts					\$0			\$0		
	4" CPC (per foot)		7.2	800	\$5,760		5760	\$5,760	9. Construction	
	4" CPC (per foot)	Cash Match	1.8	800	\$1,440		1440	\$1,440	9. Construction	
Poles	25-5		560	10	\$5,600	5600		\$5,600	9. Construction	
	25-5	Cash Match	140	10	\$1,400	1400		\$1,400	9. Construction	
	30-5		592	10	\$5,920	5920		\$5,920	9. Construction	
	30-5	Cash Match	148	10	\$1,480	1480		\$1,480	9. Construction	

Towers					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Repeaters					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Other					\$0			\$0		
					\$0			\$0		
					\$0			\$0		

COMMON		Match	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget	Support of Reasonableness
BUILDINGS					\$160,000	\$0	\$160,000	\$160,000		
New Construction					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Pre-Fab Huts	Pre-Fab Huts		20000	2	\$40,000		40000	\$40,000	2. Land, structures	
		Cash Match	5000	2	\$10,000		10000	\$10,000	2. Land, structures	
					\$0			\$0		
Improvements &					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Other	Property		16000	2	\$32,000		32000	\$32,000	2. Land, structures	
	Property	Cash Match	4000	2	\$8,000		8000	\$8,000	2. Land, structures	
	Generator		16000	2	\$32,000		32000	\$32,000	2. Land, structures	
	Generator	Cash Match	4000	2	\$8,000		8000	\$8,000	2. Land, structures	
	DC Power & Misc		12000	2	\$24,000		24000	\$24,000	2. Land, structures	
	DC Power & Misc	Cash Match	3000	2	\$6,000		6000	\$6,000	2. Land, structures	
CUSTOMER PREMISE EQUIPMENT					\$145,750	\$145,750	\$0	\$145,750		
Modems					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Set Top Boxes	ADP Set-Top Box		122	100	\$12,200	12200		\$12,200	10. Equipment	
	ADP Set-Top Box	Cash Match	30.5	100	\$3,050	3050		\$3,050	10. Equipment	
					\$0			\$0		
Inside Writing					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Other	ONT - Occam		400	261	\$104,400	104400		\$104,400	10. Equipment	
	ONT - Occam	Cash Match	100	261	\$26,100	26100		\$26,100	10. Equipment	
					\$0			\$0		
BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS					\$0	\$0	\$0	\$0		
Billing Support					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Customer Care					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Other Support					\$0			\$0		
					\$0			\$0		
					\$0			\$0		

COMMON		Match	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget	Support of Reasonableness
OPERATING EQUIPMENT					\$0	\$0	\$0	\$0		
Vehicles					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Office Equipment /					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Other					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
PROFESSIONAL SERVICES					\$0	\$0	\$0	\$0		
Engineering					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Project					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Consulting					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Other					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
TESTING					\$0	\$0	\$0	\$0		
Network					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
IT System					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
User Devices					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Test Generators					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Lab					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Servers/Computer					\$0			\$0		
					\$0			\$0		
					\$0			\$0		

COMMON		Match	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget	Support of Reasonableness
OTHER UPFRONT COSTS					\$0	\$0	\$0	\$0		
Site					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Other					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
PROJECT TOTAL:					\$13,134,843	\$1,574,040	\$11,560,803	\$13,134,843		

BTOP Comprehensive Community Infrastructure Subscriber Estimates Template

Please complete the complete the Subscriber Estimates worksheet.

All applicants should indicate their 8-year subscriber forecasts with a breakdown by type of subscriber (residential/individual, businesses, community anchor institutions, third party service providers) and service offerings. The names of the service offerings should match those provided in the Service Offering and Competitor Data upload, enabling reviewers to easily cross-reference between the two documents. The Year 0 column should be used to denote any existing customers within the Proposed Funded Service Area. In addition, applicants that project that they will have third party service provider customers should include a line for parties "Served by Third Party Service Providers," showing an estimate of how many residential/individual, community anchor institution, and business customers will be served by those service providers, as demonstrated in the example below. At the bottom of the table, applicants should provide customer totals across all service offerings, with and without customers indirectly served through a third party service provider (if applicable). Applicants should also include a brief discussion of their methodology for deriving these estimates.

In contrast to several other upload templates in this application, the data provided via this template will NOT be subject to automated processing. Applicants are permitted to modify the template layout in order to provide the most effective presentation of the data for their specific project, but such modifications are generally discouraged. Applicants should, in any case, ensure that they provide at least as much detail as the provided template requires. To the extent that you modify these templates please ensure that the print layouts are adjusted so that rows do not break across pages in a manner that will be difficult to understand. A PDF of this file will be automatically generated upon upload to Easygrants, and the print settings will be used to format the PDF file.

EXAMPLE

Name of Service Offering	Customer Type	Year 0	Cumulative/ Net Add	Year 1				Year 2			
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
Mega-Metro E - 100 Mbps	Community Anchor Inst.	0	Cumulative	0	0	0	0	5	10	17	26
			Net Add	0	0	0	0	5	5	7	9
	Business	0	Cumulative	0	0	0	0	12	27	52	82
			Net Add	0	0	0	0	12	15	25	30
	Third Party Service Provider	0	Cumulative	0	0	0	0	1	2	4	6
			Net Add	0	0	0	0	1	1	2	2
Served by Third Party Service Providers	Indirect - Res./Ind.	0	Cumulative	0	0	0	0	1000	3000	5000	10000
			Net Add	0	0	0	0	1000	2000	2000	5000
	Indirect - Business	0	Cumulative	0	0	0	0	2	8	18	30
			Net Add	0	0	0	0	2	6	10	12
	Indirect - Com. Anchor Inst.	0	Cumulative	0	0	0	0	0	2	3	5
			Net Add	0	0	0	0	0	2	1	2

Broadband Subscriber Estimates

Name of Service Offering	Customer Type	Year 0	Cumulative/ Net Add	Year 1				Year 2				Year 3				Year 4	
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
Broadband	Residential/Individual	0	Cumulative	0	0	0	0	0	0	0	0	10	25	40	55	70	85
			Net Add	0	0	0	0	0	0	0	0	10	15	15	15	15	15
Voice/Video	Residential/Individual	0	Cumulative	0	0	0	0	0	0	0	0	1	2	4	6	10	14
			Net Add	0	0	0	0	0	0	0	0	1	1	2	2	4	4
Metro E - 3Mbps to 200Gbps	Business	0	Cumulative	0	0	0	0	0	1	2	3	5	6	8	9	11	12
			Net Add	0	0	0	0	0	1	1	1	2	1	2	1	2	1
Metro E - 3Mbps to 200Gbps	Community Anchor Inst.	0	Cumulative	0	0	0	0	0	5	13	17	20	28	28	28	28	28
			Net Add	0	0	0	0	0	5	8	4	3	8	0	0	0	0
			Cumulative														
			Net Add														
			Cumulative														
			Net Add														
Cumulative Totals (excluding Indirect)	Residential/Individual	0	Total	0	0	0	0	0	0	0	0	11	27	44	61	80	99
	Business	0	Total	0	0	0	0	0	1	2	3	5	6	8	9	11	12
	Community Anchor Inst.	0	Total	0	0	0	0	0	5	13	17	20	28	28	28	28	28
	Third Party Service Provider		Total														
Cumulative Totals (including Indirect)	Residential/Individual	0	Total	0	0	0	0	0	0	0	0	11	27	44	61	80	99
	Business	0	Total	0	0	0	0	0	1	2	3	5	6	8	9	11	12
	Community Anchor Inst.	0	Total	0	0	0	0	0	5	13	17	20	28	28	28	28	28

Table of Customer Types

Residential/Individual
Business
Community Anchor Inst.
Third Party Service Provider
Indirect - Res./Ind.
Indirect - Business
Indirect - Com. Anchor Inst.

Explanation of Methodology:

Community Anchor Institutes: This project builds out to a total of 54 Anchor Institutes. The subscriber estimate of 28 represents all locations in which Citizens has a firm commitment (19) plus a 30% take rate of potential locations.

Residential/Individual: Last mile FTTH passes a total of 326 houses. Based on similar take rates of FTTH projects in other areas, Citizens estimates a take rate of 60% by Year 8 for Broadband Services and 20% by Year 8 for Voice and Video Services. Initial take rates of 16% for Broadband and 2% for Voice/Video after 1 Full Year of providing services coincides with past results Citizens has encountered.

Business: Over the course of the projection, Citizens is anticipating an average of 5 new Business Subscribers per year. This falls in line with new business accounts on our current fiber network.

Name of Service Offering	Customer Type	Year 4		Year 5				Year 6				Year 7				Year 8		
		Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
Broadband	Residential/Individual	97	107	117	127	137	147	153	159	165	171	175	179	183	187	189	191	193
		12	10	10	10	10	10	6	6	6	6	4	4	4	4	2	2	2
Voice/Video	Residential/Individual	18	22	27	32	37	42	45	48	51	54	56	58	60	62	63	64	65
		4	4	5	5	5	5	3	3	3	3	2	2	2	2	1	1	1
Metro E - 3Mbps to 200Gbps	Business	14	15	17	18	20	21	23	24	26	27	29	30	32	33	34	35	36
		2	1	2	1	2	1	2	1	2	1	2	1	2	1	1	1	1
Metro E - 3Mbps to 200Gbps	Community Anchor Inst.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Totals (excluding Indirect)	Residential/Individual	115	129	144	159	174	189	198	207	216	225	231	237	243	249	252	255	258
	Business	14	15	17	18	20	21	23	24	26	27	29	30	32	33	34	35	36
	Community Anchor Inst.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	Third Party Service Provider																	
Cumulative Totals (including Indirect)	Residential/Individual	115	129	144	159	174	189	198	207	216	225	231	237	243	249	252	255	258
	Business	14	15	17	18	20	21	23	24	26	27	29	30	32	33	34	35	36
	Community Anchor Inst.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28

Table of Customer Types

Residential/Individual
Business
Community Anchor Inst.
Third Party Service Provider
Indirect - Res./Ind.
Indirect - Business
Indirect - Com. Anchor Inst.

Name of Service Offering	Customer Type	Qtr 4
Broadband	Residential/Individual	195
		2
Voice/Video	Residential/Individual	66
		1
Metro E - 3Mbps to 200Gbps	Business	37
		1
Metro E - 3Mbps to 200Gbps	Community Anchor Inst.	28
		0
Cumulative Totals (excluding Indirect)	Residential/Individual	261
	Business	37
	Community Anchor Inst.	28
	Third Party Service Provider	
Cumulative Totals (including Indirect)	Residential/Individual	261
	Business	37
	Community Anchor Inst.	28

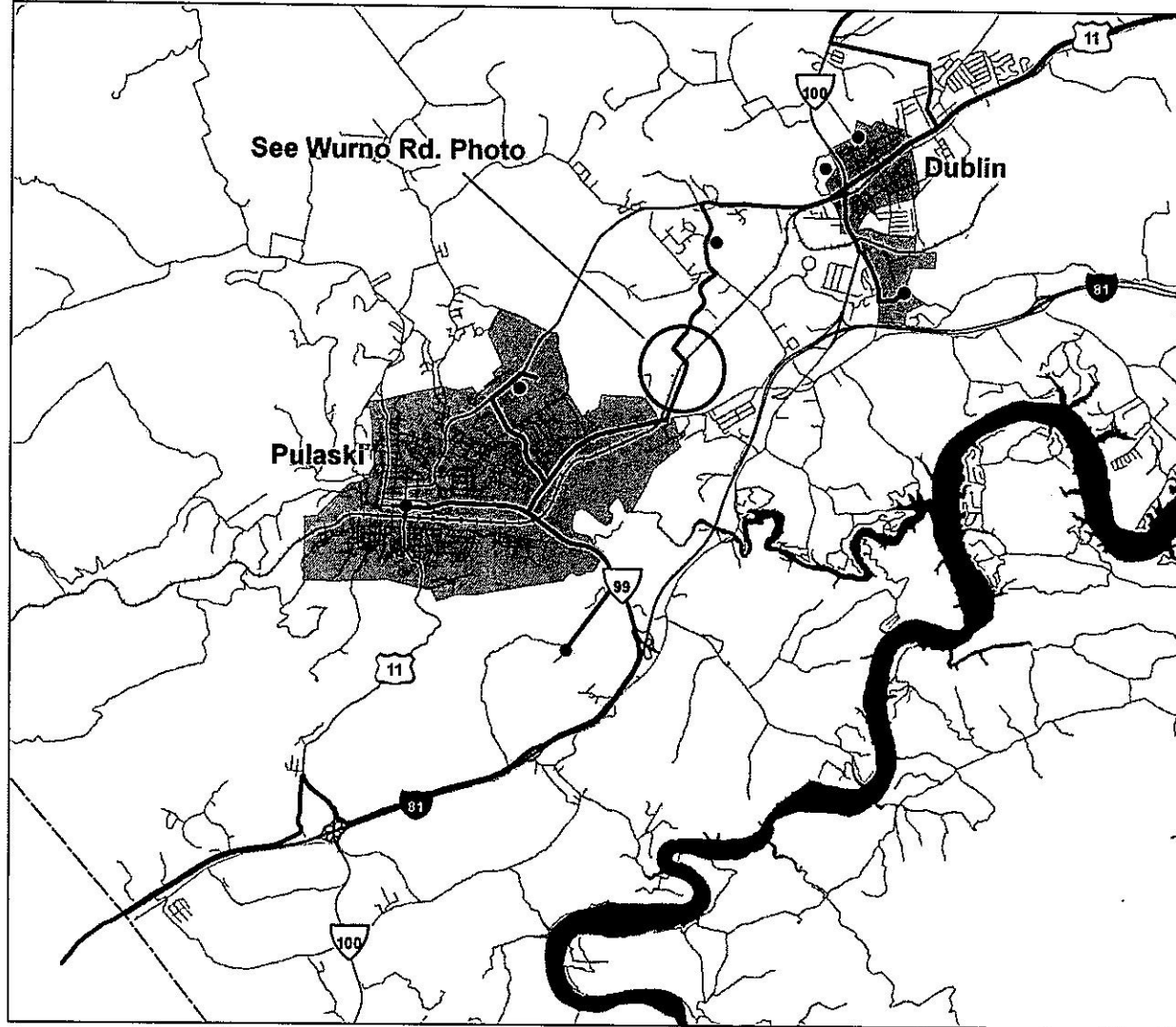
Table of Customer Types

Residential/Individual
Business
Community Anchor Inst.
Third Party Service Provider
Indirect - Res./Ind.
Indirect - Business
Indirect - Com. Anchor Inst.

Upload Attachment “ A”

Environmental Questionnaire

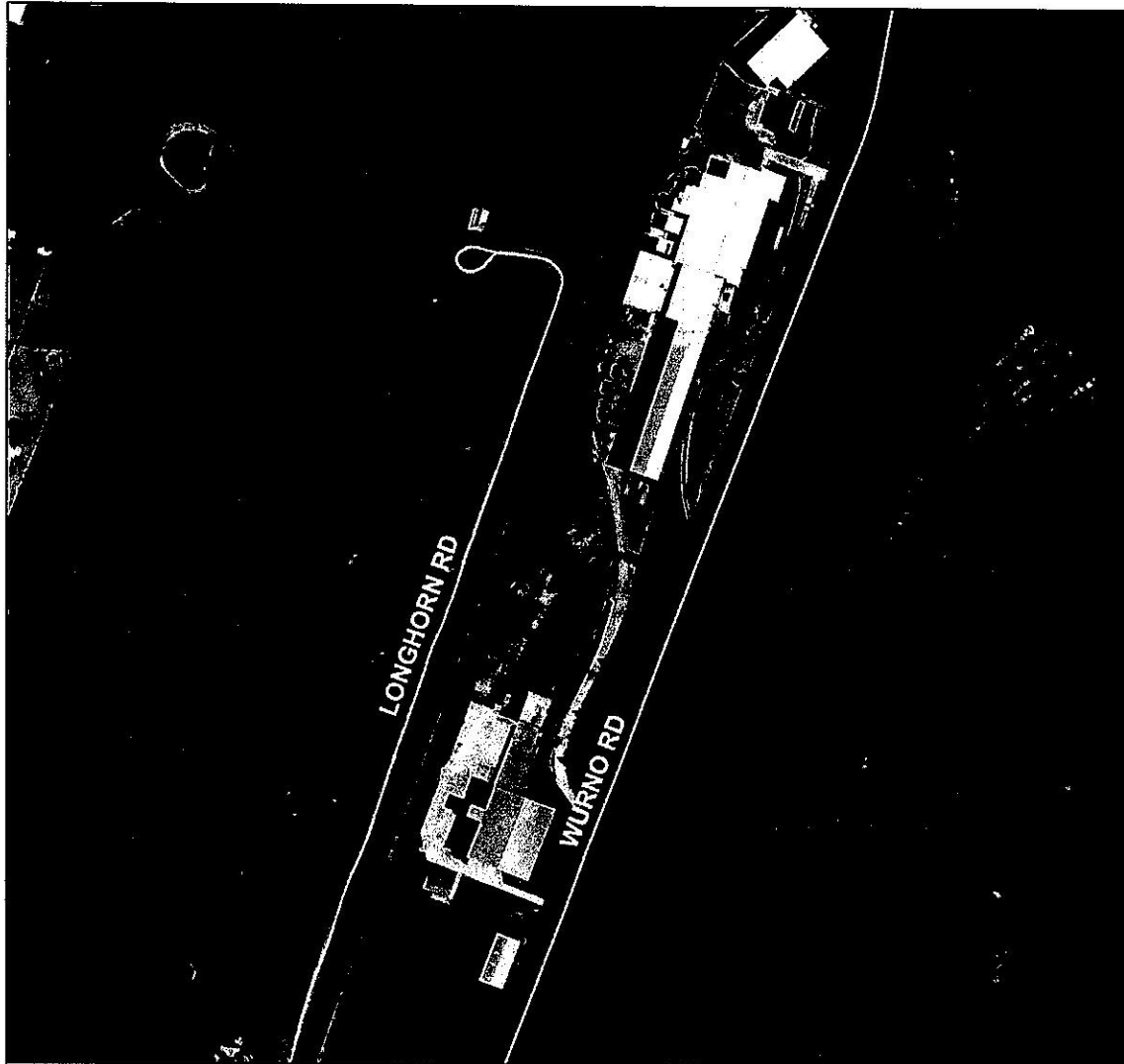
Wetlands: Maps of identified wetland for the NRV ROAN project.
(Incomplete)



**NRV Community
Broadband Network**
Environmental Questionnaire
Wetlands

- CommunityAccessPoint
- Broadband Network Route
- Primary Road
- Railroad
- Town Boundary

Map created by the NRVPCD, 2009 using
2007 VGIN and U.S. Fish and Wildlife Service data.

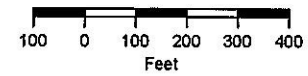


Pulaski County, VA Wurno Rd.

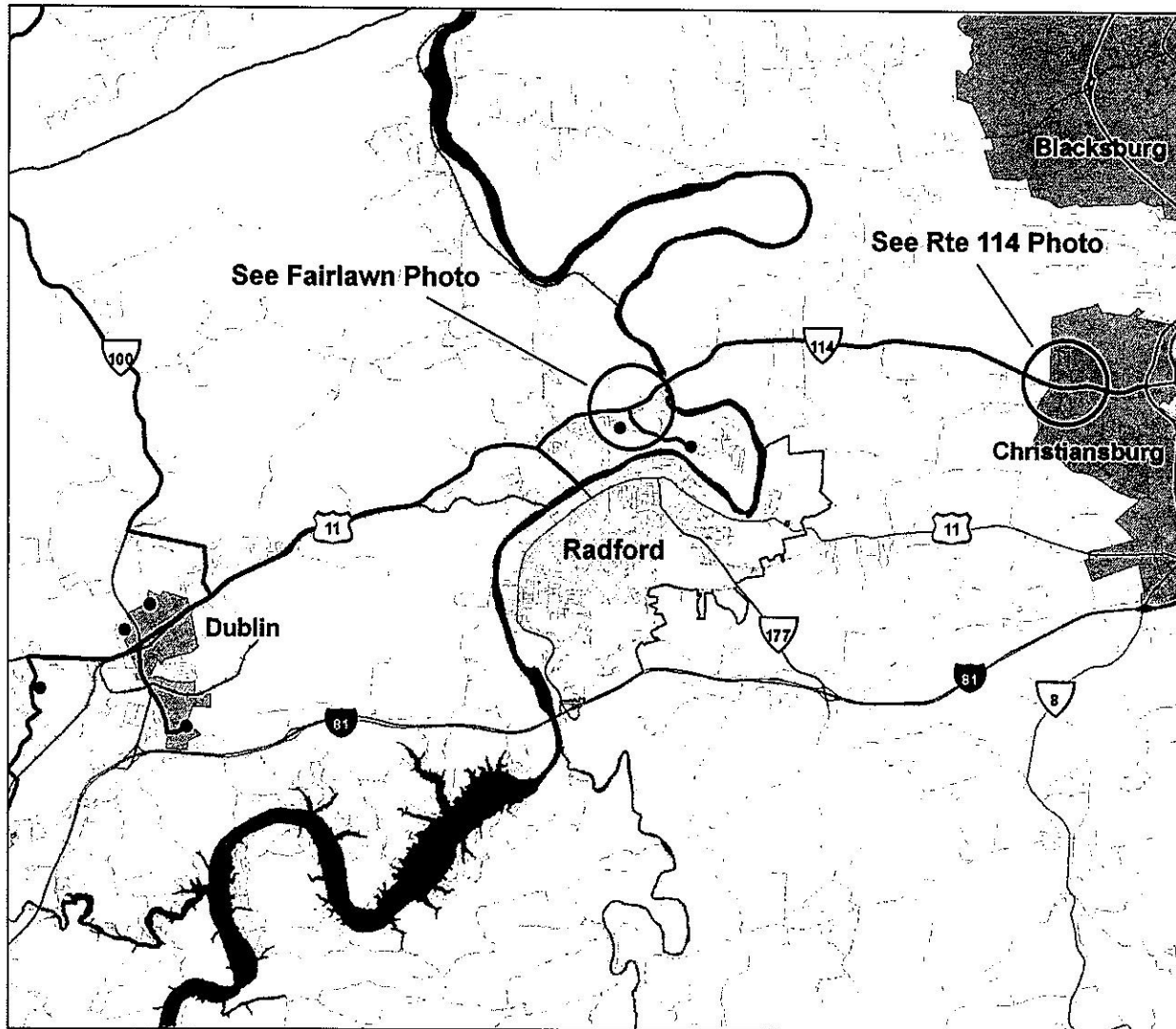


Legend

-  Wetlands
-  Broadband Network Route Buffer



Map created by the NRVPCD, 2009 using 2007
VGIN data and U.S. Fish and Wildlife Service data.



**NRV Community
Broadband Network**
Environmental Questionnaire
Wetlands

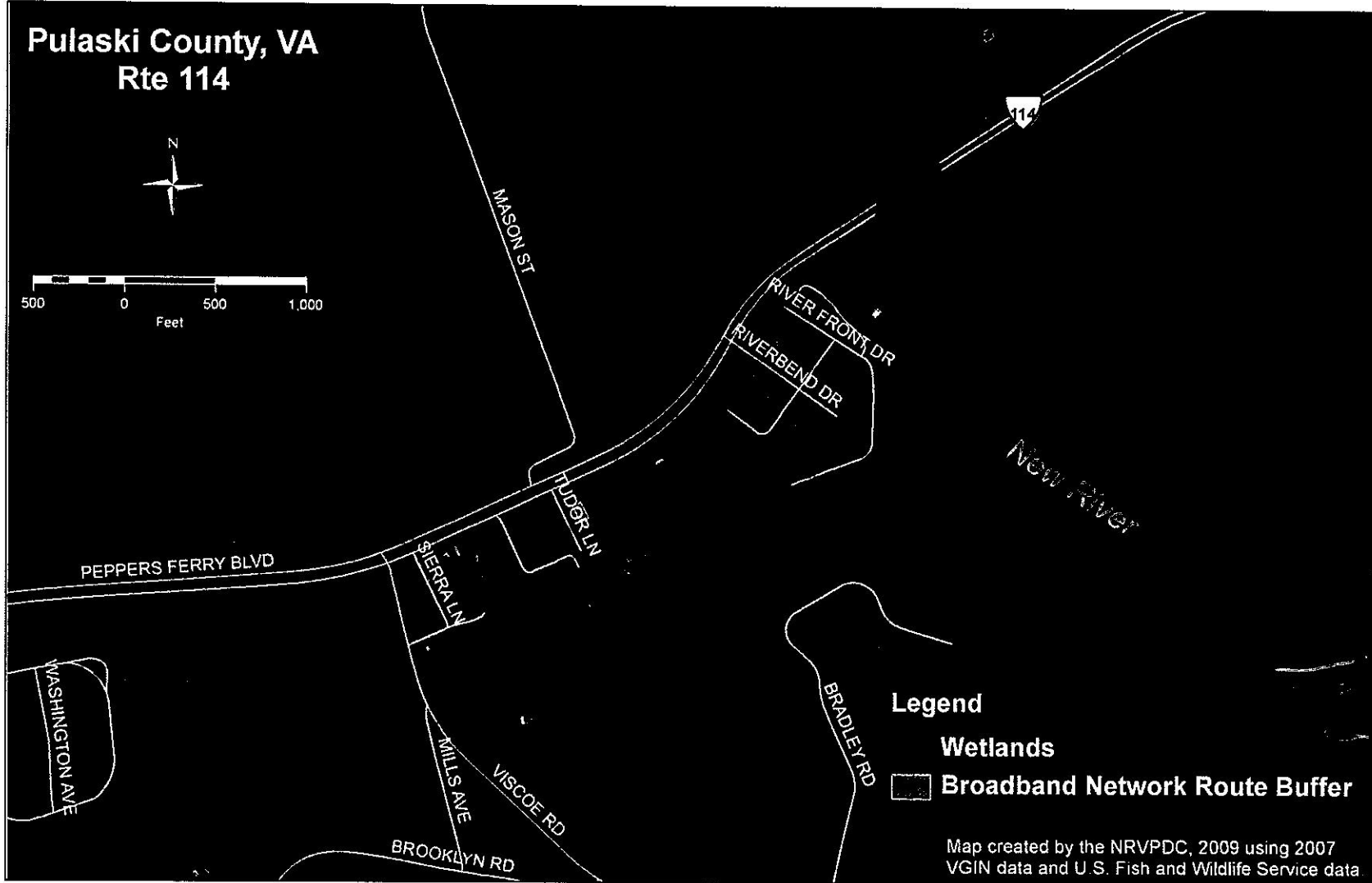


- CommunityAccessPoint
- Broadband Network Route
- Primary Road
- Railroad
- ▨ Town Boundary



Map created by the NRVPCD, 2009 using
2007 VGIN and U.S. Fish and Wildlife Service data.

Pulaski County, VA
Rte 114

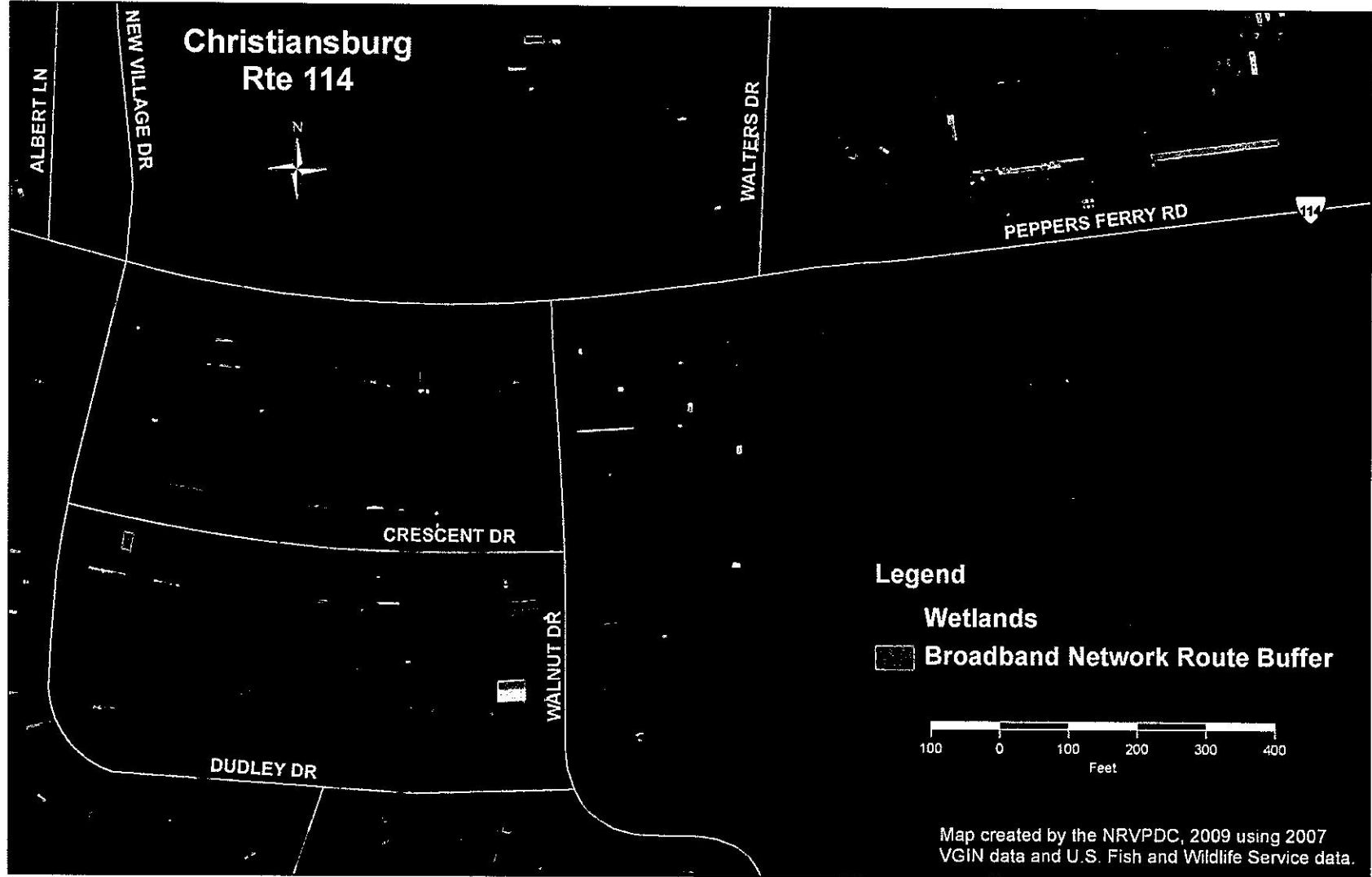


Legend

Wetlands

 **Broadband Network Route Buffer**

Map created by the NRPDC, 2009 using 2007
VGIN data and U.S. Fish and Wildlife Service data.



Upload Attachment “B”

Environmental Questionnaire

Critical Habitats: Threatened, endangered, or candidate species.

Guidelines for how long an animal survey in Virginia is valid

If a survey, however old, has a positive species occurrence, further coordination with the U.S. Fish and Wildlife Service will be required. This list provides a general guideline for how long a negative survey (a survey where no listed species was found) remains valid. These timeframes provide general recommendations; site-specific circumstances may require that these general guidelines be modified. Surveys for listed species not on this list are dealt with on a case-by-case basis and should be coordinated with the U.S. Fish and Wildlife Service and either the Virginia Department of Game and Inland Fisheries (for non-insects) or the Virginia Department of Agriculture and Consumer Services (for insects).

<u>Taxon/Species</u>	<u># of years a negative survey is valid</u>
All Listed Bats	3
All Listed Fish	2
All Listed Isopods	3
All Listed Mussels	2
Shenandoah salamander (<i>Plethodon shenandoah</i>)	3

KEY

Last Updated: February 14, 2005

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

Guidelines for how long a plant survey in Virginia is valid

<u>Scientific name</u>	<u>Common name</u>	<u>Status</u>	<u># of years</u>
<i>Aeschynomene virginica</i>	Sensitive joint-vetch	LT	1
<i>Amaranthus pumilus</i>	Seabeach amaranth	LT	1
<i>Arabis serotina</i>	Shale barren rock cress	LE	2
<i>Betula uber</i>	Virginia round-leaf birch	LT	10
<i>Cardamine micranthera</i>	Small-anthered bittercress	LE	2
<i>Echinacea laevigata</i>	Smooth coneflower	LE	2
<i>Helenium virginicum</i>	Virginia sneezeweed	LT	2
<i>Helianthus schweinitzii</i> ¹	Schweinitz's sunflower	LE	3
<i>Helonias bullata</i>	Swamp pink	LT	5
<i>Iliamna corei</i>	Peter's Mountain mallow	LE	5
<i>Isotria medeoloides</i>	Small whorled pogonia	LT	2
<i>Platanthera integrilabia</i>	White fringeless orchid	C	3
<i>Platanthera leucophaea</i>	Eastern prairie fringed orchid	LT	3
<i>Ptilimnium nodosum</i>	Harperella	LE	1
<i>Rhus michauxii</i>	Michaux's sumac	LE	5
<i>Schwalbea americana</i>	American chaffseed	LE-EX	5
<i>Scirpus ancistrochaetus</i>	Northeastern bulrush	LE	3
<i>Spiraea virginiana</i>	Virginia spiraea	LT	2

KEY

- LE Listed endangered.
 LT Listed threatened.
 EX Believed to be extirpated in Virginia.
 C Candidate. The Service has enough information to list the species as threatened or endangered, but this action is precluded by other listing activities.

¹ This species has been documented in an adjacent county in North Carolina and may occur in Virginia.

Last Updated: July 13, 2004

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

BOTETOURT COUNTY, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>INVERTEBRATES</u>		
<i>Antrolana lira</i> ¹	Madison Cave isopod	LT
<i>Pleurobema collina</i>	James spiny mussel	LE
<u>MAMMALS</u>		
<i>Myotis sodalis</i> ²	Indiana bat	LE
<u>VASCULAR PLANTS</u>		
<i>Echinacea laevigata</i>	Smooth coneflower	LE
<i>Isotria medeoloides</i> ²	Small whorled pogonia	LT
<i>Scirpus ancistrochaetus</i> ²	Northeastern bulrush	LE
Species of Concern (No official Federal status)		
<u>AMPHIBIANS</u>		
<i>Plethodon hubrichti</i>	Peaks of Otter salamander	G2
<u>BIRDS</u>		
<i>Thryomanes bewickii altus</i>	Appalachian Bewick's wren	G5T2Q
<u>FISH</u>		
<i>Notropis semperasper</i>	Roughhead shiner	G2G3
<i>Noturus gilberti</i>	Orange fin madtom	G2
<u>INVERTEBRATES</u>		
<i>Arrhopalites caedus</i>	A cave springtail	G1G2
<i>Elliptio lanceolata</i>	Yellow lance	G2G3
<i>Fusconaia masoni</i>	Atlantic pigtoe	G2
<i>Phyciodes batesii batesii</i>	Tawny Crescent	G4T1
<i>Stygobromus fergusonii</i>	Montgomery County cave amphipod	G2G3
<u>VASCULAR PLANTS</u>		
<i>Buckleya distichophylla</i>	Piratebush	G2
<i>Clematis addisonii</i>	Addison's leatherflower	G2
<i>Iliamna remota</i>	Kankakee globe-mallow	G1Q
<i>Paxistima canbyi</i> ²	Canby's mountain-lover	G2

¹This species has not been documented in this county, but may occur in this county.

²This species has been documented in an adjacent county and may occur in this county.

September 23, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

FLOYD COUNTY, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>INVERTEBRATES</u>		
<i>Pleurobema collina</i> ¹	James spiny mussel	LE
<u>INSECTS</u>		
<i>Neonympha mitchelli mitchelli</i>	Mitchell's satyr	LE
<u>MAMMALS</u>		
<i>Myotis sodalis</i> ¹	Indiana bat	LE
<u>REPTILES</u>		
<i>Clemmys muhlenbergii</i>	Bog turtle	LT(S/A)
<u>VASCULAR PLANTS</u>		
<i>Echinacea laevigata</i> ¹	Smooth coneflower	LE
<i>Isotria medeoloides</i>	Small whorled pogonia	LT
Species of Concern (No official Federal status)		
<u>FISH</u>		
<i>Noturus gilberti</i>	Orangefin madtom	G2
<u>INVERTEBRATES</u>		
<i>Escaryus cryptorobius</i>	Montane centipede	G2
<i>Puto kosztarabi</i>	Buffalo Mountain mealybug	G1
<i>Sigmoria whiteheadi</i>	Laurel Creek Xystodesmid millipede	G1
<u>VASCULAR PLANTS</u>		
<i>Buckleya distichophylla</i> ¹	Piratebush	G2
<i>Phlox buckleyi</i>	Sword-leaved phlox	G2

¹This species has been documented in an adjacent county and may occur in this county.

September 23, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

GILES COUNTY, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>INVERTEBRATES</u>		
<i>Pleurobema collina</i>	James spiny mussel	LE
<u>MAMMALS</u>		
<i>Corynorhinus townsendii virginianus</i> ¹	Virginia big-eared bat	LE
<i>Myotis sodalis</i>	Indiana bat	LE
<u>VASCULAR PLANTS</u>		
<i>Echinacea laevigata</i> ¹	Smooth coneflower	LE
<i>Iliamna corei</i>	Peter's Mountain mallow	LE
<i>Isotria medeoloides</i>	Small whorled pogonia	LT

Species of Concern (No official Federal status)

<u>INVERTEBRATES</u>		
<i>Brachypanorpa jeffersoni</i>	Jefferson's short-nosed scorpionfly	G2
<i>Caecidotea henroti</i>	Henrot's cave isopod	G1G2
<i>Litocampa sp. 1</i>	A cave dipluran	G1
<i>Pseudanophthalmus egberti</i>	New River Valley cave beetle	G1G2
<i>Pseudanophthalmus gracilis</i>	A cave beetle	G1G2
<i>Pseudanophthalmus punctatus</i>	Spotted cave beetle	G2G3
<i>Pseudanophthalmus quadratus</i>	Straley's cave beetle	G1
<i>Pseudotremia sublevis</i>	A millipede	G1
<i>Pyrgus centaureae wyandot</i> ¹	Appalachian grizzled skipper	G5T1T2
<i>Stygobromus abditus</i>	James Cave amphipod	G2G3
<i>Stygobromus ephemerus</i>	Ephemeral cave amphipod	G1G2
<u>VASCULAR PLANTS</u>		
<i>Buckleya distichophylla</i> ¹	Piratebush	G2
<i>Corallorhiza bentleyi</i>	Bentley's coralroot	G1G2
<i>Paxistima canbyi</i>	Canby's mountain-lover	G2
<i>Pycnanthemum torrei</i> ¹	Torrey's mountain-mint	G2

¹This species has been documented in an adjacent county and may occur in this county.

September 23, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

MONTGOMERY COUNTY, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>FISH</u>		
<i>Percina rex</i>	Roanoke logperch	LE
<u>INSECTS</u>		
<i>Neonympha mitchelli mitchelli</i> ¹	Mitchell's satyr	LE
<u>MAMMALS</u>		
<i>Corynorhinus townsendii virginianus</i> ¹	Virginia big-eared bat	LE
<i>Myotis sodalis</i>	Indiana bat	LE
<u>VASCULAR PLANTS</u>		
<i>Echinacea laevigata</i>	Smooth coneflower	LE

Species of Concern (No official Federal status)

<u>FISH</u>		
<i>Noturus gilberti</i>	Orangefin madtom	G2
<u>INVERTEBRATES</u>		
<i>Erynnis persius persius</i>	Persius duskywing	G5T1T3
<i>Litocampa sp. 3</i>	A cave dipluran	G2
<i>Pseudanophthalmus pusio</i>	A cave beetle	G2G3
<i>Pseudotremia cavernarum</i>	Ellett Valley <i>Pseudotremia</i> millipede	G2G3
<i>Pyrgus centaureae wyandot</i>	Appalachian grizzled skipper	G5T1T2
<i>Stygobromus fergusonii</i>	Montgomery County cave amphipod	G2G3
<u>VASCULAR PLANTS</u>		
<i>Buckleya distichophylla</i>	Piratebush	G2
<i>Clematis addisonii</i>	Addison's leatherflower	G2
<i>Paxistima canbyi</i>	Canby's mountain-lover	G2
<i>Phlox buckleyi</i>	Sword-leaved phlox	G2

¹This species has been documented in an adjacent county and may occur in this county.

September 18, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

PULASKI COUNTY, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>INSECTS</u>		
<i>Neonympha mitchelli mitchelli</i> ¹	Mitchell's satyr	LE
<u>INVERTEBRATES</u>		
<i>Polygyriscus virginianus</i>	Virginia fringed mountain snail	LE
<u>MAMMALS</u>		
<i>Corynorhinus townsendii virginianus</i>	Virginia big-eared bat	LE
<i>Myotis sodalis</i> ¹	Indiana bat	LE
<u>VASCULAR PLANTS</u>		
<i>Echinacea laevigata</i>	Smooth coneflower	LE

Species of Concern (No official Federal status)

<u>INVERTEBRATES</u>		
<i>Caecidotea henroti</i>	Henrot's cave isopod	G1G2
<i>Glyphyalinia raderi</i>	Maryland glyph	G2
<i>Pseudanophthalmus sp. 7</i>	A cave beetle	G1
<i>Pyrgus centaureae wyandot</i> ¹	Appalachian grizzled skipper	G5T1T2
<i>Stygobromus abditus</i>	James Cave amphipod	G2G3
<u>VASCULAR PLANTS</u>		
<i>Buckleya distichophylla</i>	Piratebush	G2
<i>Paxistima canbyi</i>	Canby's mountain-lover	G2
<i>Phlox buckleyi</i>	Sword-leaved phlox	G2

¹This species has been documented in an adjacent county and may occur in this county.

September 18, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

ROANOKE COUNTY, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>FISH</u>		
<i>Percina rex</i>	Roanoke logperch	LE
<u>MAMMALS</u>		
<i>Myotis sodalis</i> ¹	Indiana bat	LE
<u>VASCULAR PLANTS</u>		
<i>Echinacea laevigata</i>	Smooth coneflower	LE
<i>Isotria medeoloides</i> ¹	Small whorled pogonia	LT

Species of Concern (No official Federal status)

<u>FISH</u>		
<i>Noturus gilberti</i>	Orangefin madtom	G2
<u>INVERTEBRATES</u>		
<i>Pseudanophthalmus pusio</i>	A cave beetle	G2G3
<i>Pseudosinella bona</i>	A cave springtail	G1G2
<i>Erynnis persius persius</i>	Persius duskywing	G5T1T3
<u>VASCULAR PLANTS</u>		
<i>Buckleya distichophylla</i>	Piratebush	G2
<i>Clematis addisonii</i>	Addison's leatherflower	G2

¹This species has been documented in an adjacent county and may occur in this county.

September 18, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

WYTHE COUNTY, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>MAMMALS</u>		
<i>Myotis sodalis</i> ¹	Indiana bat	LE
<u>VASCULAR PLANTS</u>		
<i>Echinacea laevigata</i>	Smooth coneflower	LE
<i>Spiraea virginiana</i> ¹	Virginia spiraea	LT

Species of Concern (No official Federal status)

<u>INVERTEBRATES</u>		
<i>Foveacheles paralleloseta</i>	A cave mite	G1
<i>Litocampa sp. 3</i>	A cave dipluran	G2
<i>Pseudanophthalmus sp. 6</i>	A cave beetle	G1
<i>Stygobromus abditus</i>	James Cave amphipod	G2G3
<u>VASCULAR PLANTS</u>		
<i>Paxistima canbyi</i>	Canby's mountain-lover	G2
<i>Phlox buckleyi</i>	Sword-leaved phlox	G2
<i>Saxifrage carolinana</i>	Carolina saxifrage	G2

¹This species has been documented in an adjacent county and may occur in this county.

September 23, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

CITY OF RADFORD, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>MAMMALS</u> <i>Myotis sodalis</i> ¹	Indiana bat	LE

Species of Concern (No official Federal status)

None documented

¹This species has been documented in an adjacent county and may occur in this city.

September 18, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

CITY OF ROANOKE, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>FISH</u>		
<i>Percina rex</i>	Roanoke logperch	LE
<u>MAMMALS</u>		
<i>Myotis sodalis</i> ¹	Indiana bat	LE

Species of Concern (No official Federal status)

None documented

¹This species has been documented in an adjacent county and may occur in this city.

September 18, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

CITY OF SALEM, VIRGINIA

Federally Endangered, Threatened, Proposed, and Candidate Species

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>FISH</u>		
<i>Percina rex</i>	Roanoke logperch	LE
<u>MAMMALS</u>		
<i>Myotis sodalis</i> ¹	Indiana bat	LE

Species of Concern (No official Federal status)

<u>FISH</u>		
<i>Noturus gilberti</i>	Orangefin madtom	G2
<u>INVERTEBRATES</u>		
<i>Pyrgus centaureae wyandot</i>	Appalachian grizzled skipper	G5T1T2

¹This species has been documented in an adjacent county and may occur in this city.

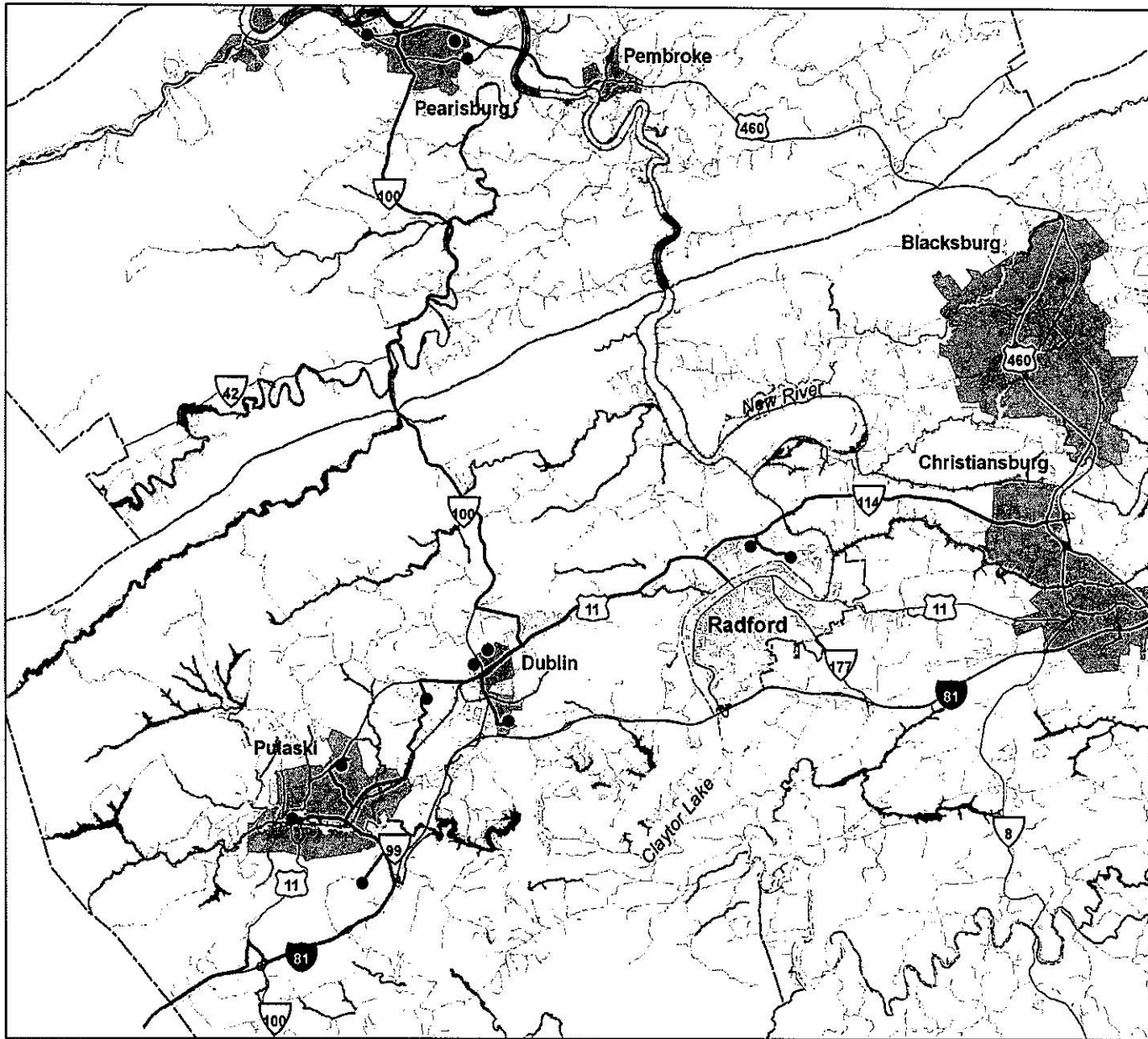
September 18, 2008

Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

Upload Attachment “ C “

Environmental Questionnaire

Floodplains: Maps of identified floodplains for the NRV ROAN project.
(Incomplete)

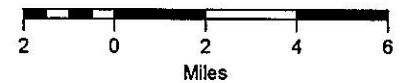


NRV Community Broadband Network

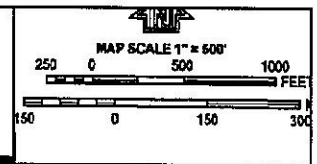
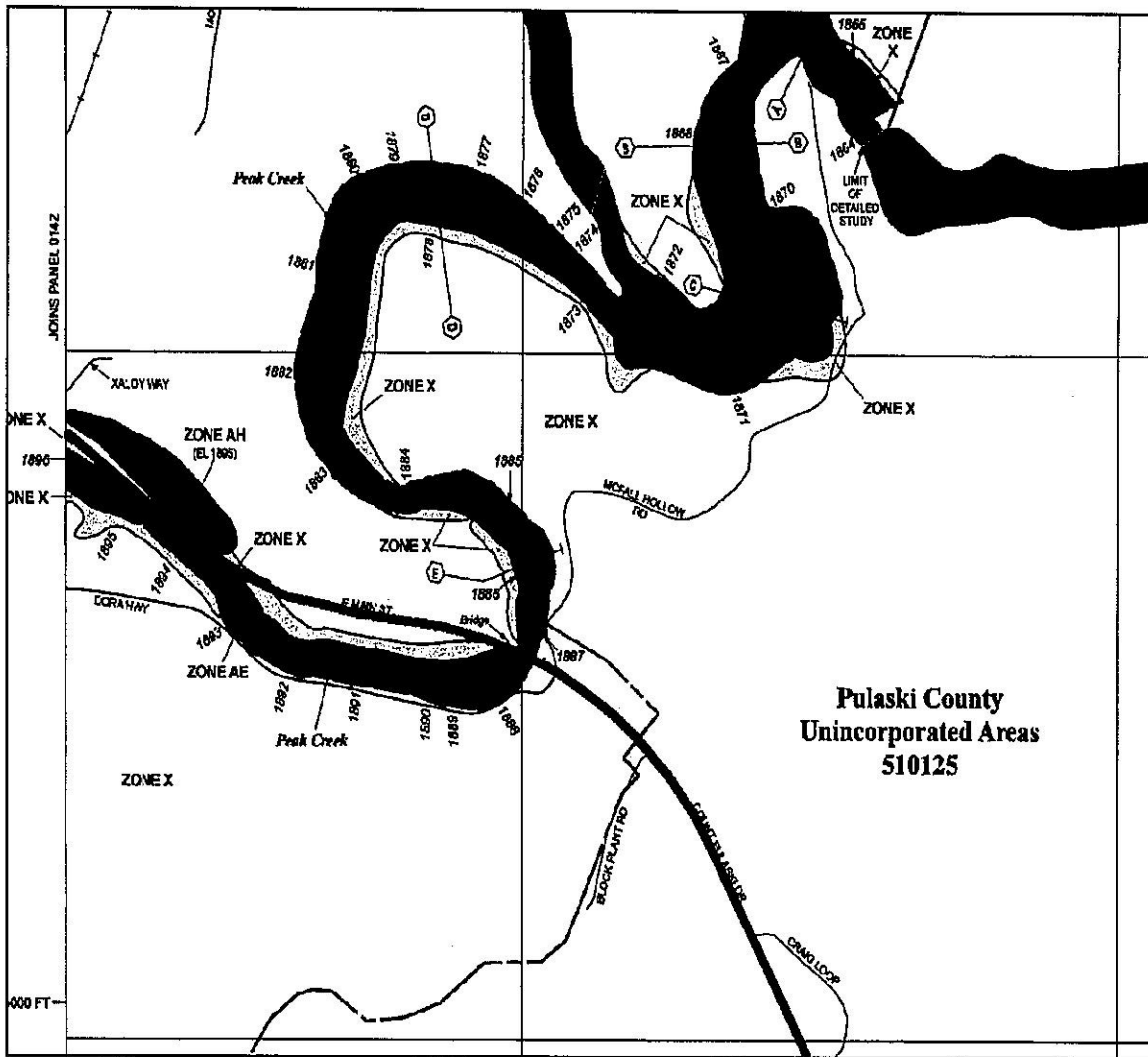
Environmental Questionnaire Floodplains



- Community Access Point
 - Railroad
 - Broadband Network Route
 - Primary Road
- Floodplains**
- Flood Zone**
- 0.2% Annual Chance of Flooding
 - A, 1% Annual Chance of Flooding
 - AE, Base Floodplain
 - AH, 1% Annual Chance of Flooding
 - ▨ Town Boundary



Map created by the NRVPCD, 2009 using
2007 VGIN and U.S. Fish and Wildlife Service data.



— Broadband Route

PANEL D1410

FIRM
FLOOD INSURANCE RATE MAP
PULASKI COUNTY,
VIRGINIA
AND INCORPORATED AREAS

PANEL 101 OF 275
(SEE MAP INDEX FOR PANEL LAYOUT)

COUNTY:

PRIMARY	NUMBER	SHEET	TOTAL
PULASKI COUNTY	0000	000	0
PULASKI COUNTY	0000	000	0

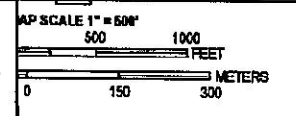
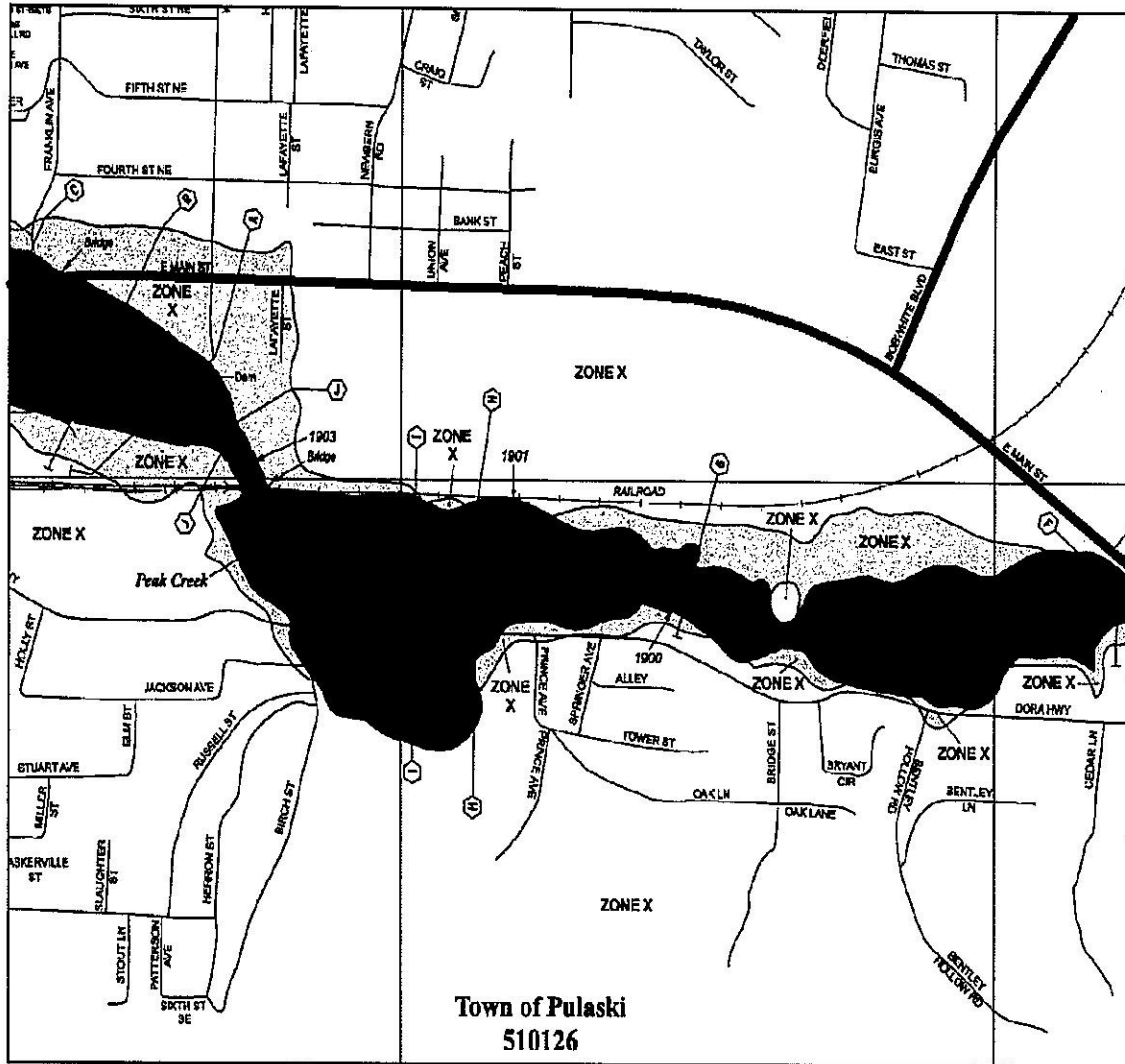
Public Notice: The map information herein is provided for informational purposes only. This map does not constitute a contract or agreement which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.floodmaps.gov

MAP NUMBER
51155C-1610

EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

This is an official map of a portion of the area embraced therein. It was prepared under the authority of the Flood Insurance Rate Map Act of 1954. This map does not constitute a contract or agreement which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.floodmaps.gov



PANEL 0142G

FIRM
FLOOD INSURANCE RATE MAP
PULASKI COUNTY,
VIRGINIA
AND INCORPORATED AREAS

PANEL 142 OF 275
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTABLE:

COMMUNITY	NUMBER	PANEL	SUFFIX
PULASKI COUNTY	610126	2142	0
PULASKI TOWN OF	610126	2142	0

— Broadband Route

how to use. The Map Number above left should be used when checking map indexes; the Community Number above should be used on insurance applications for the subject community.

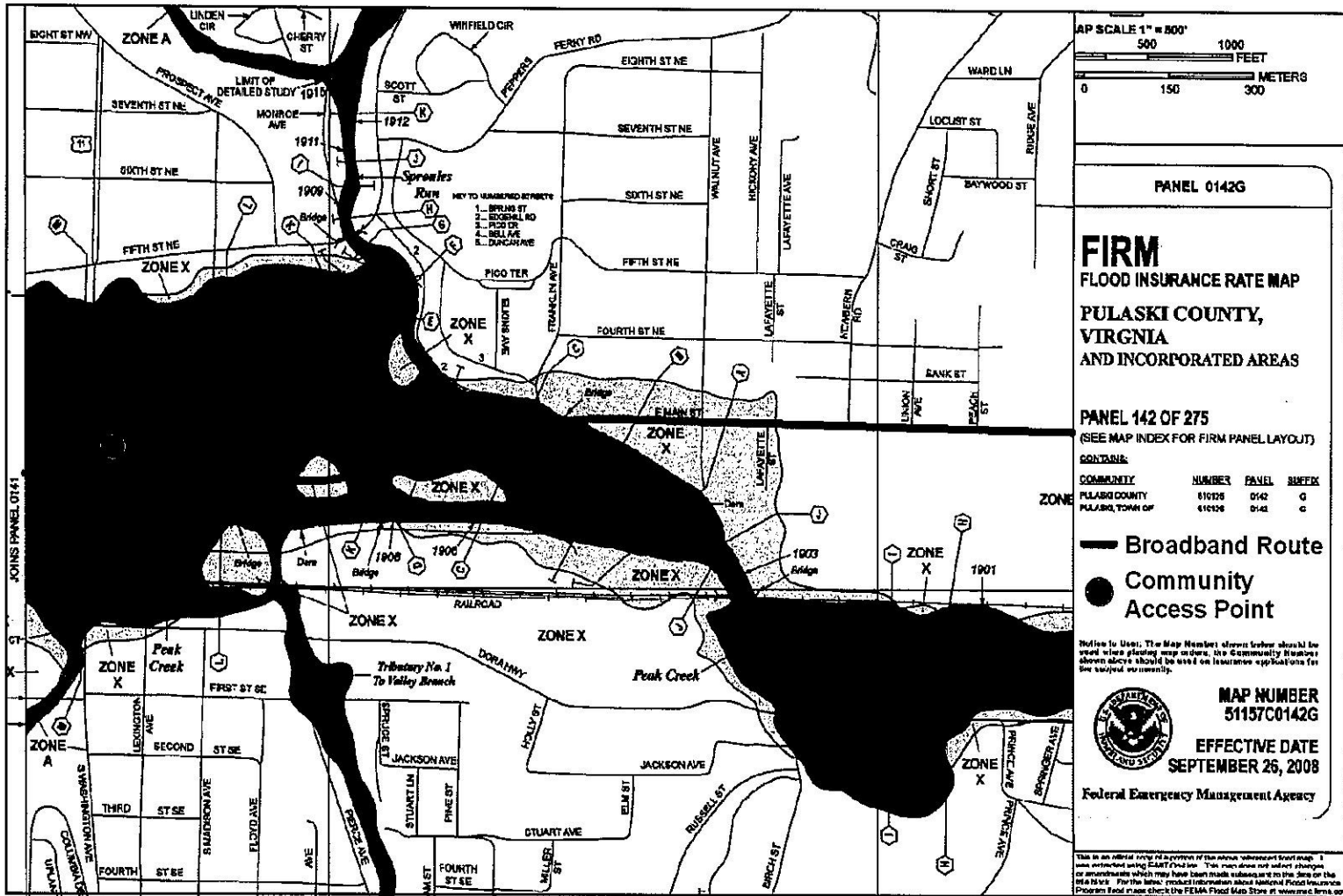


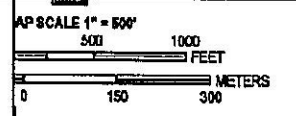
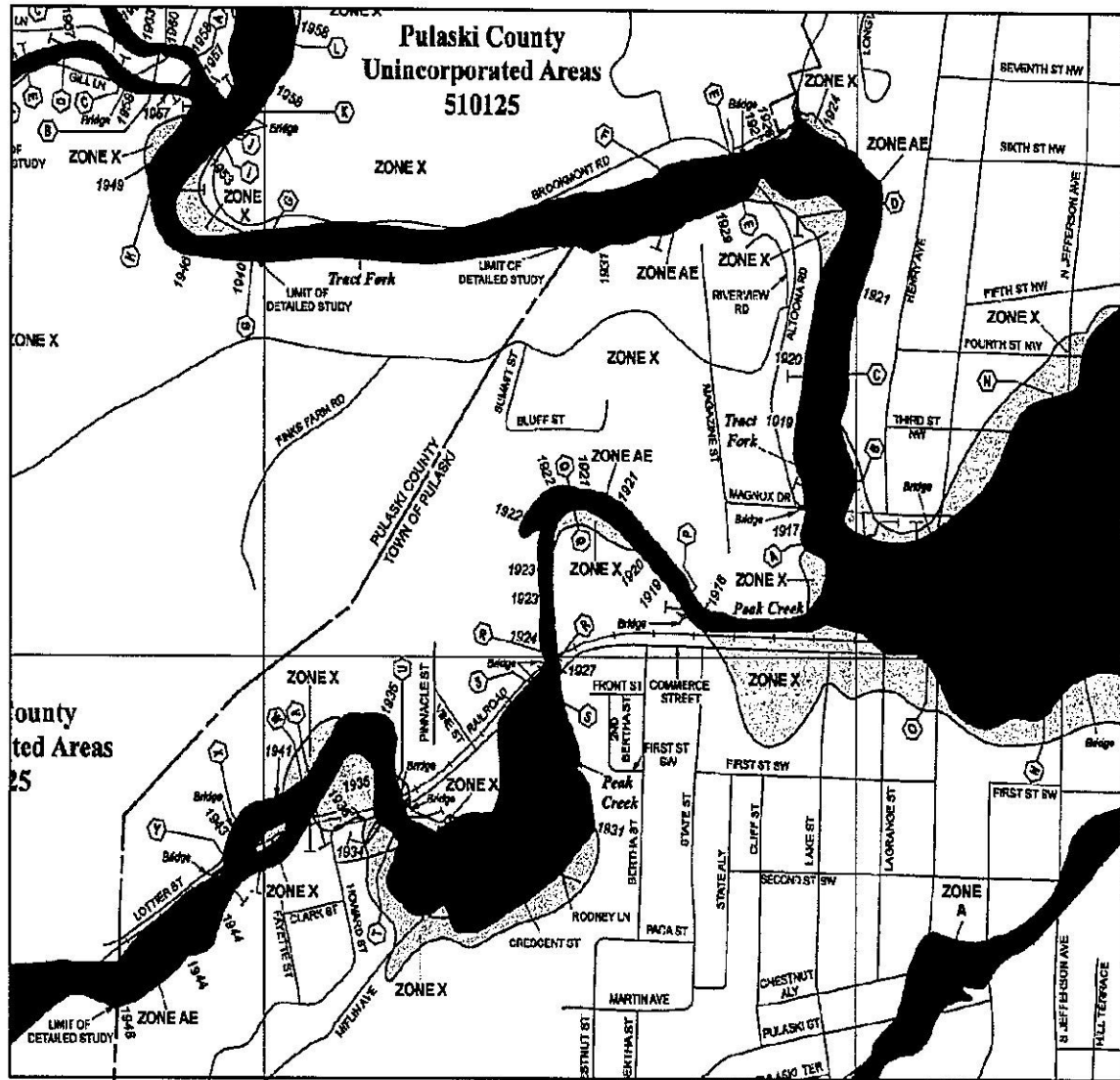
MAP NUMBER
51157C0142G

EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

This is an actual map of a portion of the above referenced flood zone. It was prepared using FIRM 2008 data. This map may not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.fema.gov.





PANEL 0141G

FIRM
FLOOD INSURANCE RATE MAP
PULASKI COUNTY,
VIRGINIA
AND INCORPORATED AREAS

PANEL 141 OF 275
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTENTS:

COMMUNITY	NUMBER	PANEL	SUFFIX
PULASKI COUNTY	510125	341	G
PULASKI TOWNSHIP	510125	341	G

Broadband Route

Notice to User: The Map Number shown below should be used when placing requests to the Community Member shown above should be used on insurance applications for the subject community.



MAP NUMBER
 51153C0141G

EFFECTIVE DATE
 SEPTEMBER 26, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was prepared using FEMA's Flood Map Service Center. This map may be subject to change or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.fema.gov

Environmental Questionnaire: Brownfield Up load attachment “D”

In the 7 County project area, there are 11 “Brownfield” sites identified the table below indicates the name of the company, locations, action pending, and their approximate distance to the nearest project activities.

Company	Location	Action	Distance to Project
EMERSON ELECTRIC COMPANY - ALCO CONTROLS	555 PEPPERS FERRY RD., WYTHEVILLE, VA 24382	Hazardous wastes are managed under the Resource Conservation and Recovery Act.	500'
MCCREADY LUMBER	RT 99 AND PEAKE CREEK, PULASKI, VA 24301	This Property has been Assessed. A property is assessed for the presence or potential presence of environmental contamination, often referred to as "environmental due diligence" or environmental site assessment	2000'
INTERMET CORP RADFORD	1605 FIRST STREET, RADFORD, VA 24141	Hazardous wastes are managed under the Resource Conservation and Recovery Act.	8500'
HUBBELL LIGHTING INC	2000 ELECTRIC WAY, CHRISTIANSBURG, VA 24073	Hazardous wastes are managed under the Resource Conservation and Recovery Act.	17500'
WOLVERINE GASKET CO	201 INDUSTRIAL PARK ROAD, BLACKSBURG, VA 24060	Hazardous wastes are managed under the Resource Conservation and Recovery Act.	13000'
CELANESE ACETATE	3520 VIRGINIA AVENUE, NARROWS, VA 24124	Hazardous wastes are managed under the Resource Conservation and Recovery Act.	3100'
DIXIE CAVERNS COUNTY LANDFILL	RTE 778, SALEM, VA 24153	This site is cleaned up, is no longer a threat to human health, has been deleted from the NPL, and is known as a Deleted NPL site	10000'
MATTHEWS ELECTROPLATING	ROUTE 796, ROANOKE, VA 24153	Physical cleanup activities have been completed.	2000'
KOPPERS INC	4020 KOPPERS RD, SALEM, VA 24153	Hazardous wastes are managed under the Resource Conservation and Recovery Act.	1500'
ITT INDUSTRIES - NIGHT VISION	7635 PLANTATION ROAD, ROANOKE, VA 24019	Hazardous wastes are managed under the Resource Conservation and Recovery Act.	3000' 7635 Plantation Rd, Roanoke, VA 24019
HAMMOND PROPERTY	#1 BOLLING STREET, RADFORD, VA 24141	This Property has been Assessed. A property is assessed for the presence or potential presence of environmental contamination, often referred to as "environmental due diligence" or environmental site assessment	12000'

Attachment E
Letters of Support

The Honorable Charles R. Hawkins
Chairman

The Honorable Terry G. Kilgore
Vice Chairman

Neal E. Noyes
Executive Director



804-225-2027
Phone

1-877-807-1086
Toll Free

804-786-3210
Fax

Virginia Tobacco Idemnification and Community Revitalization Commission

701 E. Franklin Street, Suite 501 • Richmond, Virginia 23219

March 25, 2010

Mr. Greg Sapp
GM & CEO
Citizens Telephone Cooperative
P. O. Box 137
Floyd, VA 24091

Re: Grant request #2075 dated 3/15/10 from Citizens TelCo for NRV-ROAN

Dear Mr. Sapp:

Please be advised that the Virginia Tobacco Commission hereby offers a \$667,287 grant for the above-captioned purpose, subject to the following limitations and conditions:

Within six months after the date hereof, the Commission receives written evidence of a commitment from the National Telecommunications and Information Administration (NTIA) for at least \$2,669,148 to be used for the same purpose as described in the subject application. Such evidence must (a) be signed by a person authorized by the issuing entity, (b) describe the terms under which the commitment is made (including the availability date, amount, source, and expiration date of the commitment), (c) be satisfactory to the Commission in its sole discretion, and (d) be designated by NTIA for use only in the Commission-designated tobacco region.

Within 30 days after the Commission receives the above-described commitment, the Commission will issue a *Letter of Agreement* describing the terms under which the Commission grant will be disbursed.

If the above-described commitment(s) are not received by the Commission within six months of the date hereof, this offer shall be automatically rescinded unless extended in writing.

Sincerely,

A handwritten signature in black ink that reads "Neal E. Noyes". The signature is written in a cursive style.

Neal E. Noyes
Executive Director

cc: Mr. Dennis Reece, Citizens Telephone Cooperative, Inc.

New River Valley Network Wireless Authority

6580 Valley Center Drive, Suite 124 Radford, Virginia 24141
Phone: (540) 639-9313 Fax: (540) 831-6093 E-Mail: [nrpdc@nrpdc.org](mailto:nrvpdc@nrpdc.org) Website: www.nrvpdc.org

March 16, 2010

Greg Sapp
GM & CEO
Citizens Telephone Cooperative
P.O. Box 137
220 Webbs Mill Rd, N.
Floyd, VA 24091

Dear Mr. Sapp,

The New River Valley Network Wireless Authority hereby notifies Citizens Telephone Cooperative that we will provide \$830,000 in cash contribution to the application for BTOP funding in the New River Valley. These funds will come as contributions from our two members; Giles and Pulaski Counties.

This application is the culmination of years of work attempting to construct an open access network through the region. As the New River Valley Network Wireless Authority, we are excited to see this project funded and affordable access to broadband service extended to more of our businesses and residents.

The New River Valley Network Wireless Authority is committed to this project and looks forward to working with Citizens as it is implemented.

If you need any additional information, please do not hesitate to contact me.

Sincerely,



Kevin R. Byrd
Interim Executive Director

RICK BOUCHER
9TH DISTRICT, VIRGINIA

COMMITTEES:
ENERGY AND COMMERCE

SUBCOMMITTEES:
CHAIRMAN,
COMMUNICATIONS, TECHNOLOGY
AND THE INTERNET
ENERGY AND THE ENVIRONMENT

JUDICIARY
SUBCOMMITTEE:
COURTS AND COMPETITION POLICY

CO-CHAIR,
CONGRESSIONAL INTERNET CAUCUS



Congress of the United States
House of Representatives

March 17, 2010

WASHINGTON OFFICE:

2187 RAYBURN HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
(202) 225-3861

e-mail: NINTHNET@MAIL.HOUSE.GOV
WWW: <http://www.boucher.house.gov>

CONSTITUENT SERVICE OFFICES:

188 EAST MAIN STREET
ABINGDON, VIRGINIA 24210
(276) 628-1145

1 CLOVERLEAF SQUARE
SUITE C-1

BIG Stone GAP, VIRGINIA 24218
(276) 523-5450

106 NORTH WASHINGTON AVENUE
P.O. BOX 1268
PULASKI, VIRGINIA 24301
(540) 980-4310

Jim Wasilewski
Director for Congressional Affairs
National Telecommunications & Information Administration
U. S. Department of Commerce
Herbert Hoover Building, Room 4898
Fourteenth Street and Constitution Avenue, NW
Washington, DC 20230

Dear Mr. Wasilewski:

I am writing in support of the application of Citizens Telephone Cooperative for funding from the Broadband Technology Opportunities Program (BTOP) for its New River Valley Regional Open Access Network project.

It is my understanding that the project will provide broadband services to unserved areas of Wythe, Floyd, Pulaski, Giles and Montgomery Counties and will connect into an existing network in Salem.

I applaud the efforts of Citizens Telephone Cooperative to extend broadband services to Southwest Virginia. I support the request of Citizens Telephone Cooperative and urge favorable consideration by NTIA. If my office can provide additional information or support, please do not hesitate to contact me.

Thanking you for your time and attention to this request, I remain

Sincerely,

A handwritten signature in black ink that reads "Rick Boucher". The signature is stylized and cursive.

Rick Boucher
Member of Congress

RB/bg

March 24, 2010

Greg Sapp, CEO and General Manager
Citizens Telephone Cooperative

Dear Mr. Sapp,

I am writing to express enthusiasm for your proposal seeking funding from the NTIA Broadband Technology Opportunity Program (BTOP) for a New River Valley Region Open Access Network (NRV-ROAN).

Virginia Tech (VT) is the largest university in Virginia. As part of our public service mission, we have been active over the last 20 years in promoting the development of broadband infrastructure in rural and underserved communities. The university operates a number of regional, statewide, and national network projects including a high performance network aggregation facility in the D.C. metropolitan area which provides access to National LambdaRail, Internet2, MAX, internet providers, and content providers for research and education institutions throughout the mid-Atlantic region.

The Virginia Tech Foundation won a BTOP first round award for a 110 mile middle mile project linking Blacksburg VA to Bedford, VA with access point in under-served and unserved communities along the path.

NRV-ROAN is extremely complementary to Virginia Tech's BTOP-funded project. NRV-ROAN will expand the open-access fiber network into many additional underserved communities and will provide much needed diversity intersecting Virginia Tech's BTOP fiber at multiple locations. Virginia Tech will serve as an anchor institution for NRV-ROAN leveraging the expanded fiber in support of public service efforts in education, health care, emergency response, research, and economic development

Virginia Tech highly values the strong relationship we have developed with Citizens Telephone Cooperative over several years and we applaud the continuing efforts of your non-profit organization to expand broadband access throughout our region.

Sincerely,

Jeffrey M. Crowder
Program Director
Virginia Tech

Invent the Future



March 25, 2010

Greg Sapp, CEO and General Manager
Citizens Telephone Cooperative

Dear Mr. Sapp,

I am writing to express enthusiasm for your proposal seeking funding from the NTIA Broadband Technology Opportunity Program (BTOP) for a New River Valley Region Open Access Network (NRV-ROAN).

Radford University (RU) is extremely interested in the continued development of broadband connectivity throughout Southwest Virginia. High speed network connectivity will provide additional options for RU to connect to and work with K-12 schools, New River Community College and Virginia Tech. Our current network peering relationship with the Virginia Tech MSAP in Christiansburg will also be strengthened through this project. This project will also provide additional cost effective options for additional alternatives for additional bandwidth.

Radford University highly values the relationship we have developed with Citizens Cooperative and we applaud the continuing efforts of your non-profit organization to expand broadband access throughout our region.

Sincerely,

A handwritten signature in black ink that reads 'Edward B Oakes'.

Edward B Oakes
eoakes@radford.edu
Associate Vice President for Information Technology
Radford University

*P.O. Box 6888
Radford University
Radford, VA, 24142*

*(540) 831-5173
(540) 831-6217 FAX*

<http://cio.asp.radford.edu>

New River

COMMUNITY COLLEGE

P.O. Box 1127

Dublin, Virginia 24084

Phone (540) 674-3600
or (540) 674-3619 (TDD)

FAX (540) 674-3642

March 20, 2010

Mr. Dennis Reece
AGM and COO
Citizens Telephone Cooperative
P.O. Box 137
220 Webbs Mill Road, N.
Floyd, VA 24091


Dear Mr. Reece:

This is to express the strong support of New River Community College for the proposed project for which you are seeking funding through Federal stimulus funds. Your plans for providing broadband infrastructure hold great potential, and we are excited about the prospect of joining in a partnership with the Planning District to address the need for expansion of broadband access in the New River Valley.

As you know, I have long been a strong proponent of measures to increase broadband access for the region's citizens. In fact, New River Community College, which is widely regarded as a technology leader within the Commonwealth, has undertaken a number of initiatives to increase such access to area high schools and other constituencies. We applaud your efforts to provide the necessary influence to expand access significant in this rural, mountain region where wireless communities are problematic. Your proposed solutions provided by fiber optics cable will prove to be a momentous move forward.

I believe the proposed project holds great promise and wish you every success in obtaining grant support. Once the project has been initiated, New River Community College pledges to cooperate fully in assuring its successful implementation and follow-up.

Sincerely,



Jack M. Lewis
President

hnh



OFFICE OF COUNTY ADMINISTRATION
MONTGOMERY COUNTY
E. CRAIG MEADOWS, COUNTY ADMINISTRATOR

755 ROANOKE STREET, SUITE 2E, CHRISTIANSBURG, VIRGINIA 24073-3181

March 23, 2010

Mr. Dennis Reece
COO and Assistant General Manager
Citizens
220 Wedds Road
Floyd, VA 24091

Dear Mr. Reece:

This letter is in support of the application by Citizens Telephone Cooperative (a.k.a. Citizens) for a Broadband Technology Opportunity Program (BTOP) grant through the National Telecommunication and Information Administration (NTIA).

There would be numerous public and economic development benefits from an "open access" network allowing broadband service providers access to fiber to supply needed broadband services to underserved government, business and residential customers in Montgomery County, Virginia.

Our County schools, libraries, industrial parks, public safety and other government buildings could potentially benefit from cost savings, upgraded and new services, particularly to rural areas of our County that do not currently have broadband access. At this time, however, Montgomery County is not committing any matching funds or financial support for this project.

Please let me know if I may be of further assistance.

Sincerely,

F. Craig Meadows
County Administrator



Reach Each Child

Pulaski County Public Schools

44 Third Street, N.W., Pulaski, Virginia 24301

Office of the Superintendent

March 16, 2010

Mr. Greg Sapp
GM & CEO
Citizens Telephone Cooperative
P.O. Box 137
220 Webbs Mill Rd., N
Floyd, VA 24091

Dear Mr. Sapp,

Pulaski County Public Schools has been seeking affordable broadband access for its students for over a decade. We attempted one of the first wireless systems in the state of Virginia in the late 1990's only to have it fail for the lack of funding to sustain it. We have just recently invested in a microwave network in another attempt to meet our growing needs for bandwidth. Soon this network will be at capacity, and fiber is the only alternative we have which can address the demands for training a twenty-first century workforce.

Having access to affordable broadband that would connect us to local community colleges and our two major universities is critical as we seek to contain our costs and still utilize all of the instructional tools that a modern educational institution is expected to use. The enhanced ability to produce a highly skilled workforce would also allow us to attract and retain new businesses to Pulaski in these tight economic times. Reducing current operating costs may allow us to hire more teachers.

I want to express my support for Citizens Telephone Cooperative's submission for BTOP funds to develop the New River Valley Regional Open Access Network. Access to fiber is critical for the local economy, and unfortunately, in Pulaski County such access is limited and, due to lack of competition, is expensive.

I wish you well in gaining support for this project.

Sincerely yours,

A handwritten signature in blue ink, appearing to read "TMB", is written over a faint, larger signature.

Thomas M. Brewster, Ed. D.
Interim Superintendent



WYTHE COUNTY PUBLIC SCHOOLS

SCHOOL BOARD OFFICE
1570 WEST RESERVOIR STREET
WYTHEVILLE, VIRGINIA 24382
276-228-5411

FAX: 276-228-9192

W. LEE BRANNON, Ed.D.
SUPERINTENDENT OF SCHOOLS

Mr. Greg Sapp
Citizens Telephone Cooperative
P.O. Box 137
Floyd, VA 24091

March 22, 2010

Dear Mr. Sapp,

The Wythe County School System is very pleased to hear of your upcoming Broadband Technology Opportunity Program (BTOP) grant application through the National Telecommunication and Information Administration (NTIA).

As you know High-speed broadband access and connectivity are vital for economic growth, global competitiveness, education, innovation, and creativity. Ensuring high-speed broadband access for all students has become a critical national issue especially when considering the necessity for the use of technology in assessment, accountability, engagement, and preparing our students for work and life in the 21st century.

Your proposed routes through the town of Wytheville will allow Wythe County Schools to extend its gigabit wide area network to our Maintenance Facilities allowing this facility to utilize our existing 50 Meg Internet connection.

This network connectivity is long overdue and we applaud you in your efforts in providing reliable and affordable communication services in our area.

Sincerely,

Keith Cochran

IT Manager
Wythe County Schools

GILES COUNTY PUBLIC SCHOOLS

151 School Road
Pearisburg, Virginia 24134

Dr. Terry E. Arbogast, II
Division Superintendent



Phone: (540) 921-1421 X 10
E-Mail: tarbogast@gilesk12.org

Mr. Chris McKlarney
County Administrator
315 N. Main Street
Pearisburg, VA 24134

March 17, 2010

Dear Mr. McKlarney:

As we move forward in the 21st century, we need to continue to look for ways to provide the best education available to our students. Having access to affordable broadband that would allow us to connect to local community colleges, as well as to our two local major universities, is critical as we seek to minimize our cost and still be able to utilize all of the instructional tools that a modern educational institution is expected to use. During these tough economic times, if we are able to reduce current operating costs, the savings could be reinvested in our student's education.

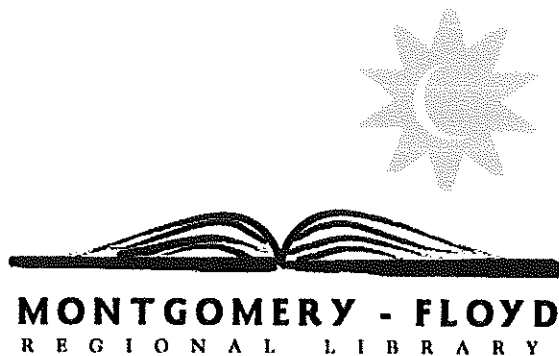
I want to express my support for Giles County's submission for funding to develop the New River Valley Telecommunications project. Access to fiber is critical for the local economy and unfortunately, in Giles County, such access is limited.

Good luck in gaining support for this project! If you need any further information or have any questions, please feel free to contact me at 540-921-1421, extension 10, or by email at tarbogast@gilesk12.org.

Sincerely,

A handwritten signature in black ink that reads "Terry E. Arbogast, II".

Dr. Terry E. Arbogast, II
Division Superintendent



March 18, 2010

Mr. Greg Sapp, General Manager
Citizens
P.O.Box 137
Floyd, VA 24191

Dear Mr. Sapp:

I am very pleased to offer my letter of support to Citizens Telephone Cooperative, in partnership with the NRVN Wireless Authority, as you apply for a Broadband Technology Opportunity Program (BTOP) grant through the National Telecommunication and Information Administration (NTIA). We understand your goal is to obtain funding to provide an "open access" network allowing Broadband Service Providers access to fiber along State Route 11 to supply much needed broadband services to under-served government, business, and residential customers in the Shawsville area and surrounding communities.

The Montgomery-Floyd Regional Library (MFRL) is a public library system with locations in Blacksburg, Christiansburg, Floyd, and Shawsville. The Shawsville location serves the Eastern Montgomery community along the path of the proposed fiber route.

In addition to checking out library materials and attending programs, the community also utilizes the library's public computers for internet access. The demand for public computer use is high, as this location serves several impoverished neighborhoods. Others bring their laptops and use the library's free open wireless access. Also, the library offers computer classes on a regular basis.

MFRL's three other branches are currently on a fiber circuit through Citizens Cooperative. The Shawsville location is not on this fiber circuit. Rather, they are connected by a VPN, over the same DSL service that carries all other traffic. File transfers are predictably slower, and also experience periodic dropouts. All staff circulation transactions – the checking in/out of books, catalog searches and maintenance – must also travel over the VPN. During peak internet use times, these transactions can have noticeable latency.

If this fiber service was brought to the Shawsville branch, it would be on the same circuit as the other three MFRL branches. Internet service would go over the same transport and bandwidth that

Montgomery-Floyd Regional Library
125 Sheltman Street
Christiansburg, VA 24073
(540) 382-6965 / Fax (540) 382-6964
www.mfrl.org

MFRL is already paying for. The monthly expense of the DSL would be eliminated, yet service improved. This would be a significant taxpayer savings.

The Shawsville area would benefit greatly with the introduction of fiber. The circulation, internet, and wireless services that taxpayer-funded MFRL provides to citizens would be noticeably upgraded and the staff that provides those services would be more efficient. We applaud and strongly support your effort. Let me know if there is anything I can do for you. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Paula K. Alston". The signature is fluid and cursive, with a large initial "P" and "A".

Paula K Alston
Library Director



Robert F. McDonnell
Governor

James S. Cheng
Secretary of
Commerce and Trade

COMMONWEALTH of VIRGINIA

William C. Shelton
Director

DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

March 19, 2010

Mr. Greg Sapp
CEO
Citizens Telephone Cooperative
P.O. Box 137
220 Webbs Mill Road
Floyd, Virginia 24091

Dear Mr. Sapp:

I am writing this letter in support of the New River Valley Regional Open Access Network (NRV-ROAN) application for funding to support the expansion of affordable, high-speed telecommunications access. The Virginia Department of Housing and Community Development worked closely with communities in the New River Valley to complete a comprehensive and strategic community telecommunications planning effort, and we are pleased to support your efforts to implement this plan.

The NRV-ROAN project is a critical component to the regional economic restructuring effort and we see the provision of broadband telecommunications services as a priority need for the area. We feel that the open access network model to be developed is optimal for rural, underserved communities, and will lead to greater competition for services and better quality of service for your community. The economic development opportunities that will be created through this project are significant and I hope your request for assistance receives favorable consideration.

Thank you. Should you have any questions, I can be reached at 804-371-7000.

Sincerely,

A handwritten signature in blue ink that reads "Bill Shelton".

Bill Shelton

Partners for Better Communities



www.dhcd.virginia.gov



Virginia's First Regional Industrial Facility Authority

6580 Valley Center Drive, Suite 124

Radford, VA 24141

Phone (540) 639-1524 FAX (540) 831-6093

Bland County

John C. Thompson

March 18, 2010

Craig County

Jay Polen

Greg Sapp

Giles County

Chris McKlarney
Richard McCoy

GM & CEO

Citizens Telephone Cooperative
P.O. Box 137

Montgomery County

Mary W. Biggs*, *Chair*
Craig Meadows

220 Webbs Mill Rd, N.
Floyd, VA 24091

Pulaski County

Peter M. Huber
Shawn Utt

Dear Mr. Sapp,

Roanoke County

Charlotte Moore
Douglas Chittum*

The *Virginia's First* Regional Industrial Facilities Authority would like to express its support for the Citizens Telephone Cooperative's submission for grant funds to develop the New River Valley Regional Open Access Network. Access to fiber is critical for the region's future economic development and growth into the 21st Century.

Wythe County

Bucky Sharitz
Martha P. Umberger

Virginia's First, through its Commerce Park Participation Committee, owns an industrial site of about 1,000 acres (the New River Valley Commerce Park) in Pulaski County to be developed as a source of economic growth for the *Virginia's First* region. Currently, a project is underway to provide water and sewer utilities to this site, a necessity for businesses considering locating or expanding in the region. Having access to affordable broadband is just as important as the Commerce Park owners seek to draw in viable tenants for the site and provide to them the necessary speed and bandwidth required to conduct their business.

City of Radford

Bruce Brown
Basil Edwards

City of Roanoke

Brian Townsend
Court G. Rosen

City of Salem

John Givens
Benjamin Tripp

We understand the current project will support a broadband solution to increase speed and bandwidth across the region, and specifically at the New River Valley Commerce Park. The implementation of the full scope of the project will provide a fiber-based solution which will increase the broadband services to the Commerce Park. *Virginia's First* looks forward to seeing the full implementation of this project.

Town of Christiansburg

Randy Wingfield
Barry D. Helms*,
Secretary/Treasurer

Sincerely,

Town of Dublin

Doug Irvin
William H. Parker

Joseph N. (Joe) Morgan
Executive Director

Town of Narrows

Clayton Davis
Buddy Kast

Town of Pearisburg

Kenneth F. Vittum*,
Vice-Chair
Brad Jones

Town of Pulaski

Morgan Welker
John Hawley*

* Executive Committee

NEW RIVER VALLEY DEVELOPMENT CORPORATION

6580 Valley Center Drive, Suite 302, Radford, Virginia 24141

Phone: (540) 633-6730 Fax: (540) 633-6768



D. Michael Barber, President

March 16, 2010

Greg Sapp
GM & CEO
Citizens Telephone Cooperative
P.O. Box 137
220 Webbs Mill Rd, N.
Floyd, VA 24091

Dear Mr. Sapp,

The New River Valley Development Corporation would like to express its support for Citizens Telephone Cooperative's submission for grant funding to develop the New River Valley Regional Open Access Network. Access to fiber is critical and such access is currently limited and expensive.

The New River Valley Competitiveness Center houses 14 early stage businesses that employ nearly 80 persons. The Center has available space to support 12 or more companies employing an additional 36 persons. Having access to affordable broadband is important as the Center seeks to contain our costs and assure that companies have the necessary speed and bandwidth required to conduct their business.

We understand the current project will support a broadband solution to increase speed and bandwidth at the Center. The implementation of the full scope of the project will provide a fiber-based solution which will increase the broadband services to the Center. The Corporation looks forward to seeing the full implementation of this project.

Sincerely,

A handwritten signature in blue ink that reads "Michael Barber".

Michael Barber
President



Joint Industrial Development Authority

of Wythe County, Wytheville, and Rural Retreat

190 South First Street • Wytheville, Virginia 24382

Phone: 276-223-3370 • Fax: 276-223-3427 • Email: JointIDA@wytheville.org

Dr. Alan Hawthorne, Executive Director
Patrick Burton, Associate Director
Virginia Goodwin, Administrative Assistant

William F. Snyder, Chairman
David L. Elmore, Vice Chairman
Linda P. DiYorio
Jennifer W. Jones
Thomas W. Jones
Dana R. Pack
Foy W. Patton

March 22, 2010

Mr. Gary Reedy
Citizens
220 Webbs Mill Road
Floyd, VA 24091

RE: **BTOP application support**

Dear Mr. Reedy:

The Joint Industrial Development Authority is charged with supporting and encouraging economic development in Wythe County and the towns of Wytheville and Rural Retreat. Competitive broadband access is just as critical to economic vitality in today's environment as is water and sewer service and efficient transportation access.

The extension of high-speed broadband service by Citizens to Progress Park, our 1200-acre industrial park to the east of Wytheville, enabled us to be a finalist location for a large data center project that would have contributed substantially to the local economy. Without this infrastructure, we would not have been competitive. As I understand your BTOP application, this grant would allow you to extend similar service to the downtown Wytheville area, including service to local government buildings. This extension would significantly enhance the ability of both public sector and private sector organizations to obtain competitively priced broadband service.

The Joint Industrial Development Authority is strongly supportive of your efforts to better serve the citizens of Wythe County with enhanced broadband connectivity. Please let us know if we can be of additional assistance in these efforts.

Sincerely,

Alan Hawthorne
Executive Director



Pulaski Community Hospital

HCA Virginia Health System
An HCA affiliate

March 17, 2010

Greg Sapp, General Manager and CEO
Citizens Telephone Cooperative
P.O. Box 137
220 Webbs Mill Rd, N.
Floyd, VA 24091

Dear Mr. Sapp:

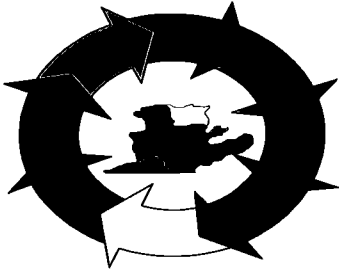
Pulaski Community Hospital is a 147-bed Comprehensive Acute Care Hospital serving the New River Valley and employing 400+ residents of Pulaski County and its neighboring communities. Our commitment to the residents of Pulaski County encompasses not only the delivery of quality, compassionate healthcare, but also access to health information, events and community health screenings. The hospital's website, www.pulaskicommunityhospital.com provides a broad spectrum of information for residents with internet access, yet sadly delivers nothing to the large population of Pulaski County which has no access or cannot afford costly internet services.

Pulaski Community Hospital strongly supports the New River Valley Regional Open Access Network project to provide affordable broadband access to the residents of the County, potentially expanding our geographic reach to remote areas of the County who are presently without options. Broadband accessibility will give more residents the ability to become informed and take proactive measures to improve not only their health, but also the health of family and friends.

Broadband may also provide more residents access to employment opportunities posted on the Pulaski Broadband may also provide more residents access to employment opportunities posted on the Pulaski Community Hospital website, as well as the websites of other employers through the New River Valley. As you are aware, unemployment continues to challenge economic recovery in the area. Expanded access to employment opportunities would greatly benefit both employers and job seekers throughout the County. I want to express my support for Citizens Telephone Cooperative's submission for BTOP funds to develop the New River Valley Regional Open Access Network. On behalf of Pulaski Community Hospital, I applaud your efforts to bring broadband access to the residents of Pulaski County and improve the quality of life in the New River Valley.

Sincerely,

Mark Nichols
Chief Executive Officer



New River Valley Regional Jail

P.O. Box 1067

Dublin, Virginia 24084

(540) 643-2000

(540) 643-2010 FAX

March 17, 2010

Bland County

Wade D. Blankenship (A)
Jerry L. Thompson, Sheriff
Deputy Matthew Harman (A)

Carroll County

Niki Shank
W. Andy Jackson
Ronald L. Newman (A)
H. Warren Manning, Sheriff

Floyd County

Ford Wirt, Chairman
Virgel Allen (A)
Shannon Zeman, Sheriff
Deputy Bruce Turner (A)

Giles County

Mark Givens
Todd Martin (A)
Morgan Millirons, Sheriff

Grayson County

Jonathan Sweet
Mitch Smith
Ralph E. Tuggle (A)
Richard Vaughn, Sheriff

Pulaski County

Frank R. Conner, Vice Chairman
Peter M. Huber (A)
James A. Davis, Sheriff
Deputy Mike Alderman (A)

City of Radford

Gary A. Young
Larry Humphrey (A)
Mark R. Armentrout, Sheriff
Deputy Richard Phillips (A)

Wythe County

James E. Hagee
R. Cellell Dalton (A)
Douglas W. King, Sheriff, Secretary
Chief Deputy Keith Dunagan (A)

Superintendent

Gerald A. McPeak

Assistant Superintendent

Thomas E. Lawson

Mr. Greg Sapp
GM & CEO
Citizens Telephone Cooperative
P.O. Box 137
220 Webbs Mill Rd, N.
Floyd, VA 24091

Dear Mr. Sapp,

The New River Valley Regional Jail would like to express its support for Citizens Telephone Cooperative's submission for grant funding to develop the New River Valley Regional Open Access Network. Access to fiber is critical and such access is currently limited and expensive.

The New River Valley Regional Jail serves Bland, Carroll, Floyd, Giles, Grayson, Pulaski and Wythe Counties and the City of Radford. The Jail currently houses approximately 700 inmates from its member jurisdictions and occasionally inmates for ICE (Immigration and Customs Enforcement).

Improved broadband access and bandwidth at the facility would allow Jail staff to more effectively and efficiently serve these jurisdictions. Specifically, the proposed open access network would allow for better communications with member Sheriffs Offices and Police departments, in addition to expanded access to remote magistrate processes.

We understand the current project will support a broadband solution to increase speed and bandwidth at the Regional Jail. The implementation of the full scope of the project will provide a fiber-based solution which will increase the broadband services to the Jail.

We look forward to seeing a full implementation of this project.

Sincerely,

Gerald A. McPeak, Superintendent
New River Valley Regional Jail
108 Baker Road
Dublin, VA 24084

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www.pronetsinc.com

Greg Sapp
General Manager
Citizens Telephone Cooperative
P.O. Box 137
Floyd VA 24091

March 22, 2010

Dear Mr. Sapp,

I am very pleased to hear you are seeking funding from the Broadband Technology Opportunities Program (BTOP).

I would like to offer Professional Networks' full support in this project and to reiterate our position of offering a full slate of video, voice, and data services over the network once this project is complete.

As you know this fiber network is long overdue in our efforts of providing un-served and underserved areas in our region with reliable and affordable communication services.

I applaud your efforts; and best of luck!

Sincerely,



John Ayers

President

Professional Networks, Inc.

computer networking • internet service • website development • office products