

Please answer the following questions in regards to property in Fluvanna County only. Just one survey per household.

**1. Do you have Internet access at home?**

- Yes
- No (skip to question 5)

**2. What kind of Internet connection do you have at home?**

- Dial-up telephone line
- DSL enabled phone line (provided by your landline telephone company)
- Cable TV modem (provided by your cable TV provider)
- Fixed Wireless (service from a tower to a small antenna on your house)
- Mobile wireless (you use your cellphone or a device from a cell phone provider for accessing the Internet)
- Satellite (from Viasat, DirectTV, Dish, or Excede)
- Fiber optic (for example, FiOS or U-Verse)
- T-1 (a connection typically intended for businesses and other large users)
- Don't know
- Other (please specify) \_\_\_\_\_

**3. Please rate your home Internet service:**

- Adequate – meets all my needs
- Inadequate – does not meet my needs

**4. What are your reasons for any dissatisfaction with your home Internet service? (Check all that apply then skip to question 7)**

- I'm satisfied with my service
- Price too high
- Service is unreliable
- Lack of technical support
- Connection too slow/not enough bandwidth
- Problems with email
- Poor customer service

**5. What is the main reason you do not have Internet access?**

- Don't know how to use it
- Use it at school or work
- Don't need it
- Don't want it
- Not Available
- Not a computer person
- Don't want the children to use it
- Cost/Too Expensive
- Other (please specify) \_\_\_\_\_

**6. Do you have any type of personal computer, including laptops, in your home?**

- Yes (skip to question 7)
- No

**6a. What is the main reason you don't have a computer at home?**

- Cost/Too Expensive
- Sufficient access elsewhere
- Concern about children's access
- Do not know how to use it
- Other(please specify) \_\_\_\_\_

**7. When you use the Internet, what kind of activities do you do? (Check all that apply. Business information further down.)**

- Email friends / family
- Make purchases online (books, music, electronics, travel, etc.)
- Read the news/blogs
- Play games
- Call long distance or international
- Gather financial information /make transactions
- Gather health information
- Search for work / employment
- Watch videos/Listen to music
- Social networking

**8. What would you like to be able to do online that you can't with your current connection? (Check all that apply)**

- Nothing - my current connection meets my needs
- Work from home
- Online education
- Voice/video communication
- Transmit large data files
- Healthcare communications/monitoring

**9. What is your age?**

- 18 to 24
- 25 to 34
- 35 to 44
- 45 to 54
- 55 to 64
- 65 or older

**10. Are you a parent, stepparent, or legal guardian of any children in K-12 school?**

- Yes
- No (skip to question 11)

**10a. Are any of your children being homeschooled (Kindergarten - 12th grade)?**

- Yes
- No

**10b. Where does your child/children access the Internet after-school?**

- No access after school
- After-school program at their school
- Public library
- Community based organization/non-profit
- A relative, friend or neighbor's house
- Home
- Other (please specify) \_\_\_\_\_

**11. Does anyone in your household use the Internet to work from home?**

- Yes
- No
- No, but I would if I had Internet access/better access at home

**12. Does anyone in your home operate a home based business?**

- Yes
- No

**13. Does anyone in your household use the Internet to complete school or job training course work?**

- Yes
- No

**14. Do you own a business?**

- Yes
- No (skip to question 23)

**15. Is your business located within the same county or city as your residence?**

- Yes
- No (skip to question 23)

**16. REQUIRED. Please provide your business' full address. (No PO Box numbers. For geographical planning purposes only.)**

a. Street address:

c. City:

d. Zip code

**17. Are you using the Internet to support your business?**

- Yes
- No (skip to question 22)

**18. How does this location connect to the Internet?**

- Dial-up telephone line
- DSL enabled phone line (provided by your landline telephone company)
- Cable TV modem (provided by your cable TV provider)
- Fixed Wireless (service from a tower to a small antenna on your building)
- Mobile wireless (you use your cellphone or a device from a cell phone provider for accessing the Internet)
- Satellite (from Viasat, DirectTV, Dish, Excede)
- Fiber optic (for example, FiOS or U-Verse)
- T-1 (a connection typically intended for businesses and other large users)
- Don't know
- Other (please specify)\_\_\_\_\_

**19. How important is Internet/bandwidth access to your business?**

- Very Important or Critical
- Somewhat Important
- Not Important

**20. Please rate your business Internet service:**

- Adequate – meets all our needs
- Inadequate – does not meet our needs

**21. What are your reasons for any dissatisfaction with your business Internet service? (Check all that apply)**

- I'm satisfied with my service
- Price too high
- Service is unreliable
- Lack of technical support
- Connection too slow/not enough bandwidth
- Problems with Email
- Poor customer service

**22. If your business does not subscribe to an Internet service, why not?**

- My business IS subscribed to a service
- Not available
- Not reliable or secure
- Too expensive
- Not interested/not relevant to my business

**23. What changes or improvements to Internet availability in your county/city would best meet your needs?**

**24. REQUIRED. Please provide your full home address. (No PO Box numbers. This will help identify areas of need.)**

a. Street address:

b. City:

c. Zip code:

25. Comments:

# The Path Forward

## Community Broadband Assessment for Fluvanna County Virginia

June 2017



# Topics

- Community Profile
- Current Reported Coverage
- Broadband Demand
- Local Assets
- Review of local policies & fees
- Broadband Needs
- Next Steps

# Before We Begin

## **Positive impacts of broadband on household income:**

- gaining 4 Mbps of broadband increases household income by \$2,100 per year
- re-employment 25 percent faster than traditional searches
- higher employment rates in rural counties

## **Positive impacts of broadband on healthcare**

- enables solutions that help manage chronic diseases, like diabetes and obesity.
- connecting health and broadband sectors is a path to a more connected, healthier locality.

## **Reasons for positive impacts**

- boosts personal productivity,
- enables more flexible work arrangements
- enables home-based businesses as a replacement, or complement to an ordinary job.
- enables people to be more informed,
- better educated and socially and culturally enriched – fueling a faster career path.
- improves access to health and care



Source: The Appalachian Regional Commission (ARC) Broadband Planning Primer Toolkit  
<https://www.arc.gov/images/programs/telecom/ARCBroadbandPlanningPrimerToolkit.pdf>  
Connect2HealthFCC: <https://www.fcc.gov.edgekey.net/health/maps>  
Why broadband matters: [http://www2.ntia.doc.gov/files/broadbandmatters\\_021417.pdf](http://www2.ntia.doc.gov/files/broadbandmatters_021417.pdf)

# Remember the Broadband Economics?

$$\text{Profit/Sustainability} = \text{Revenue} - \text{CapEx} + \text{OpEx}$$

How do we make the math work for sustainability & future upgrades?

How do we entice the private sector to invest?

INCREASE REVENUES 	LOWER COSTS 
<b>Adoption and Demand</b>	<b>Local Assets/Infrastructure</b> What you have that might be shared
<b>Population Density</b>	<b>Policies &amp; Fees</b> Reduce or eliminate fees for partners Streamline permitting
<b>Community Anchor Institutions</b> Residents, businesses, government facilities, healthcare	<b>Funding Options</b> Public & Private Investments
<b>*Red indicates variables local governments can affect</b>	

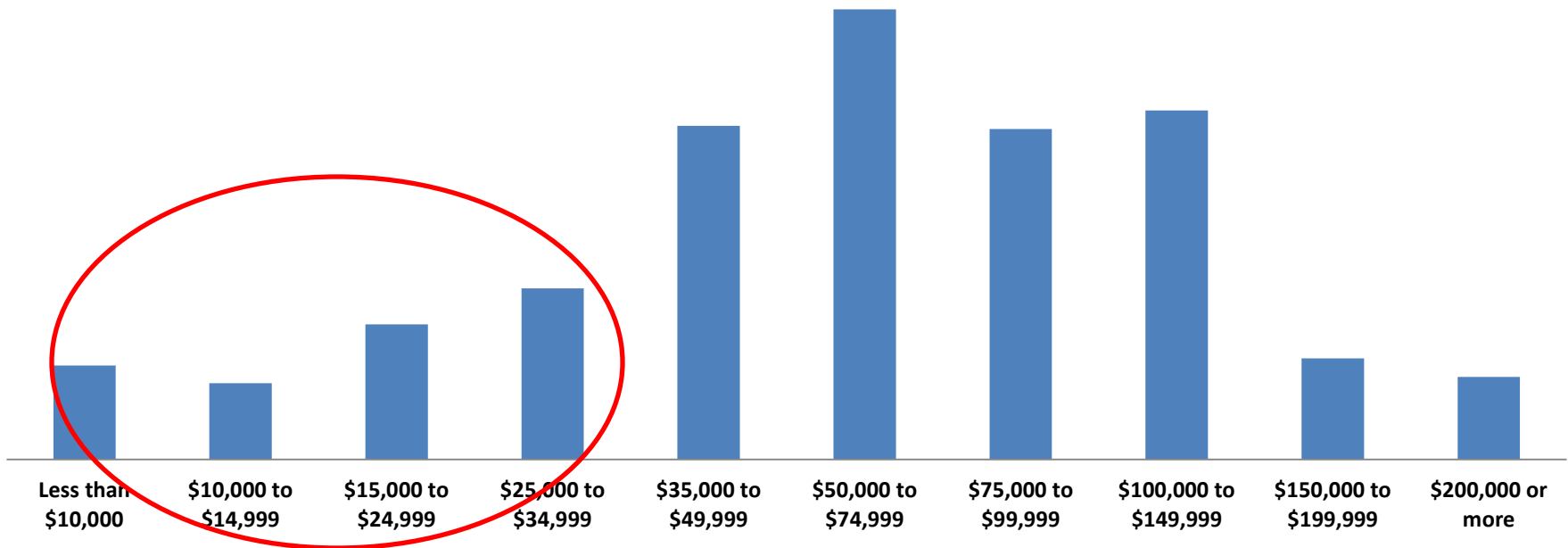
Broadband Perspective

# COMMUNITY PROFILE

SOURCE: [HTTPS://WWW.CENSUS.GOV/ACS/WWW/DATA/DATA-TABLES-AND-TOOLS/DATA-PROFILES/2014/](https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles/2014/)

# Fluvanna Household Income

Occupied Households: 9,787  
Median Household Income: \$64,641



**Take away:** Up to 21% (< \$30K ) may be slow to adopt new services or have affordability challenges.



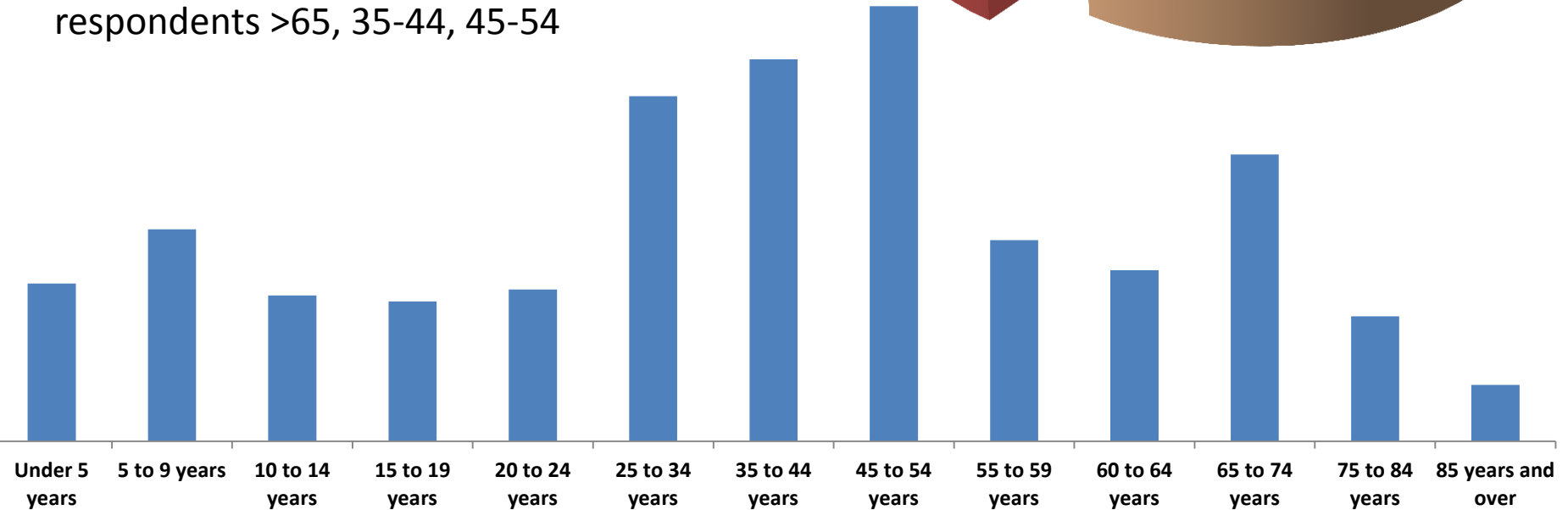
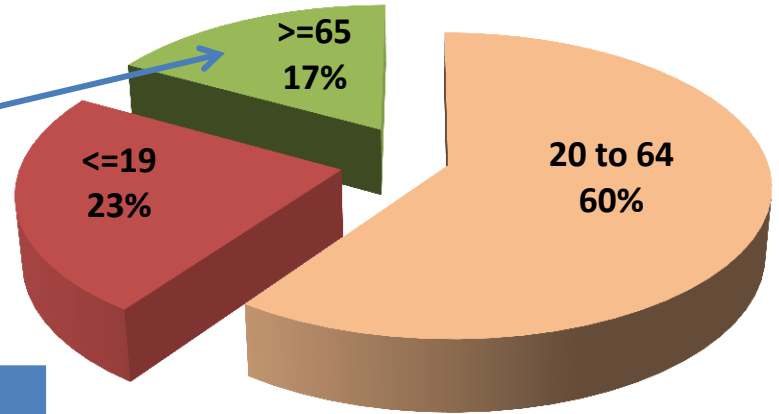
# Fluvanna Age and Population

Total Population: 25,945

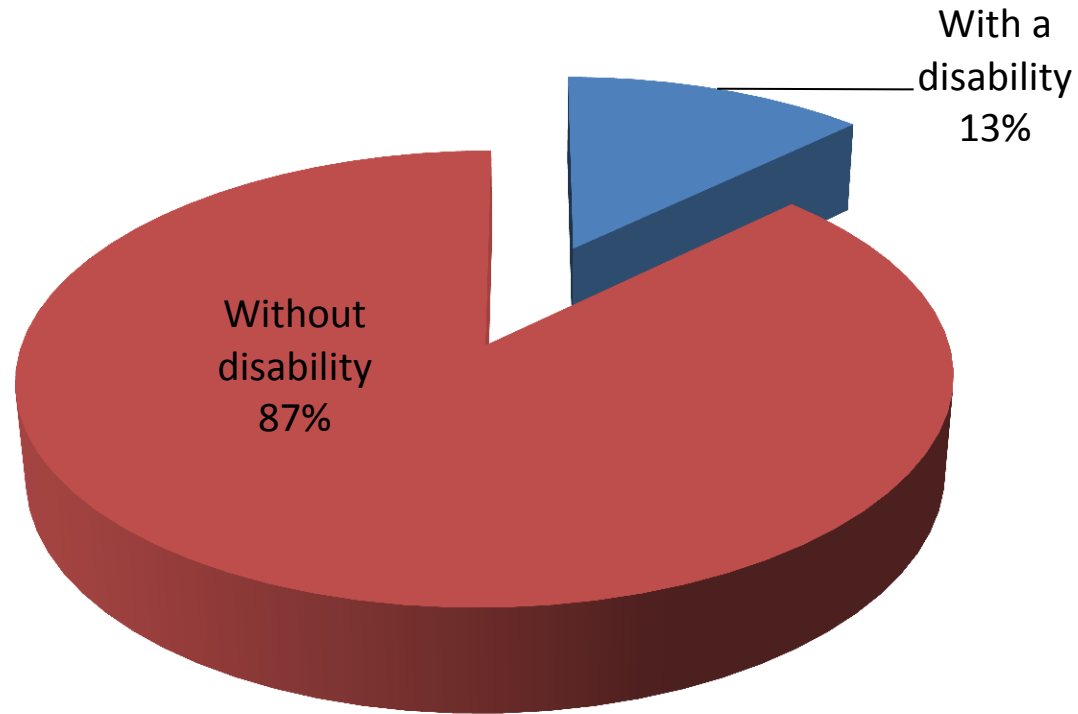
Median Age: 41.5

## Take away:

- Majority of population – 83% - considered technology adopters.
- 17% may be slow to adopt.
- Largest population group; 45-54
- **From survey**; largest age group of respondents >65, 35-44, 45-54

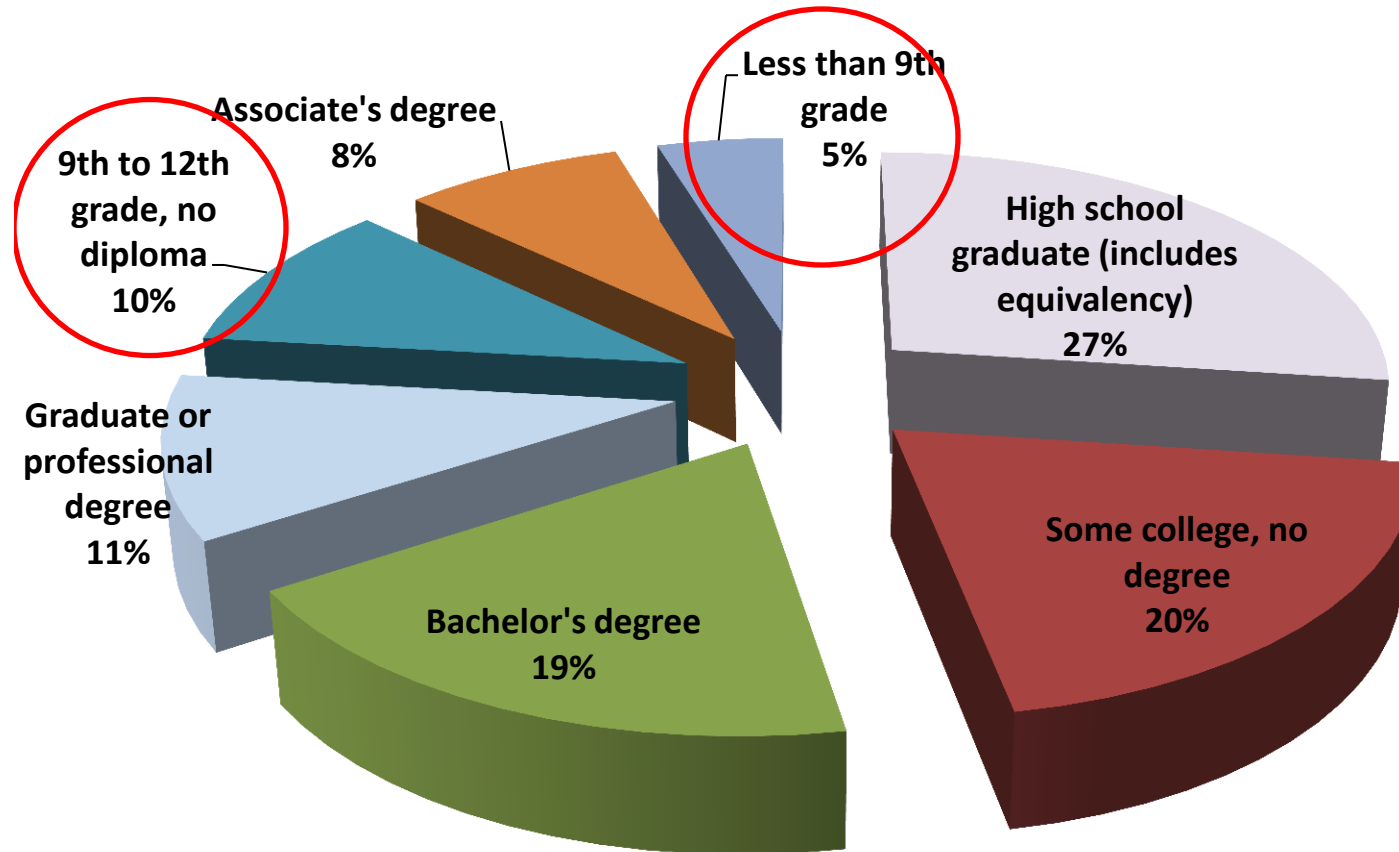


# Fluvanna Population with Special Broadband Needs



Take away: 13% may be slow to adopt or need special equipment

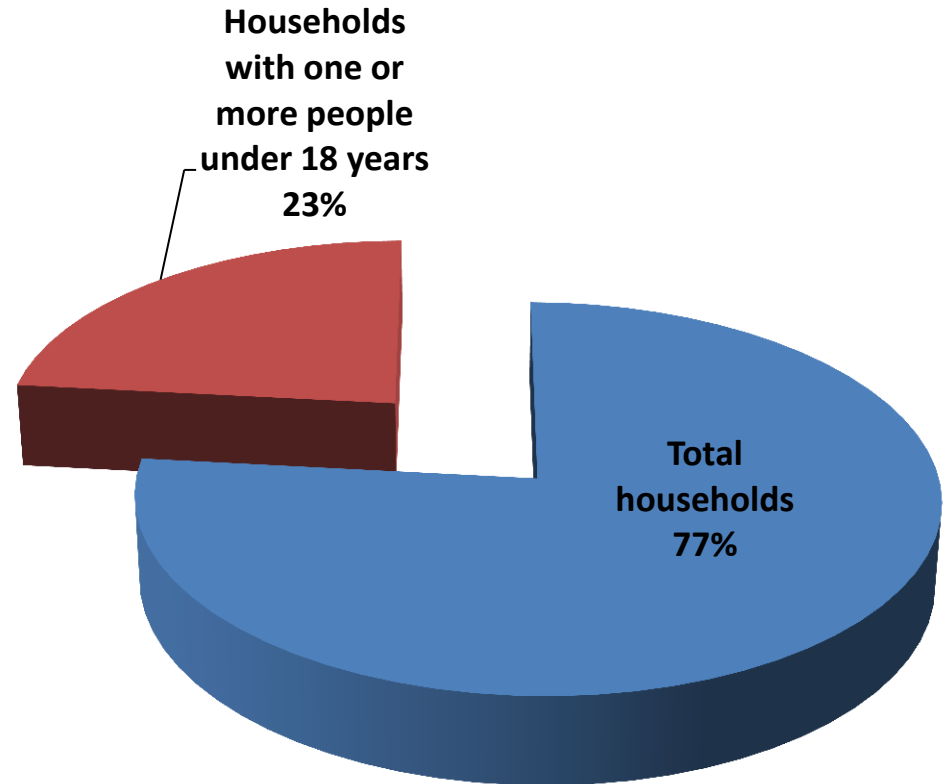
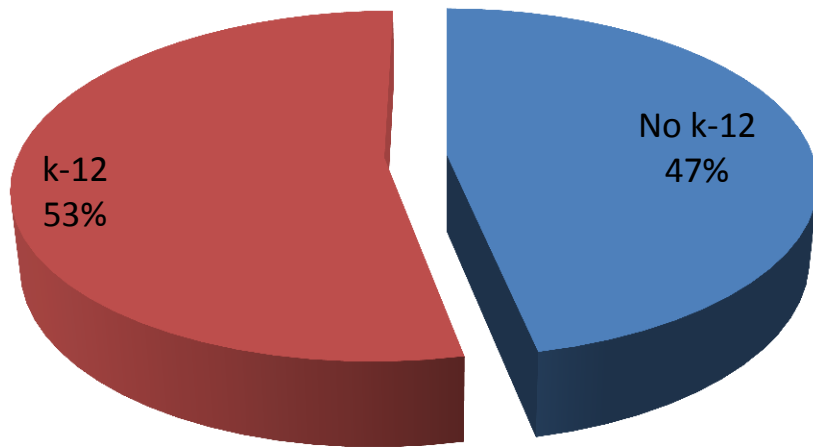
# Fluvanna Educational Attainment



Take away: 15% of the population may be slow to adopt and/or less likely to subscribe to new services.

# Fluvanna Households with K-12 Children

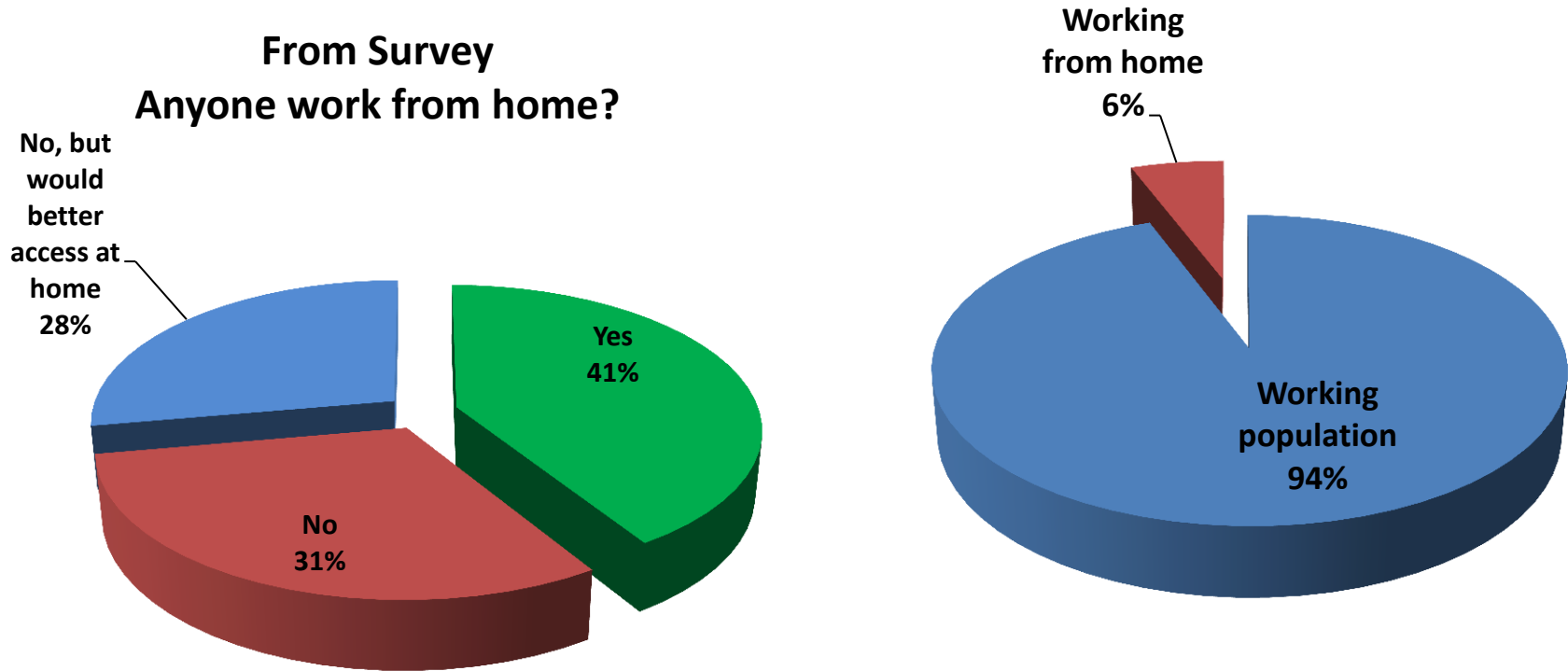
K12 Households from Survey



**Take Away:** 23% of households need broadband at home to support K-12 education.

**From Survey:** 53% of respondents report having school aged children, 19% have no Internet access at home!

# Fluvanna Residents Working from Home



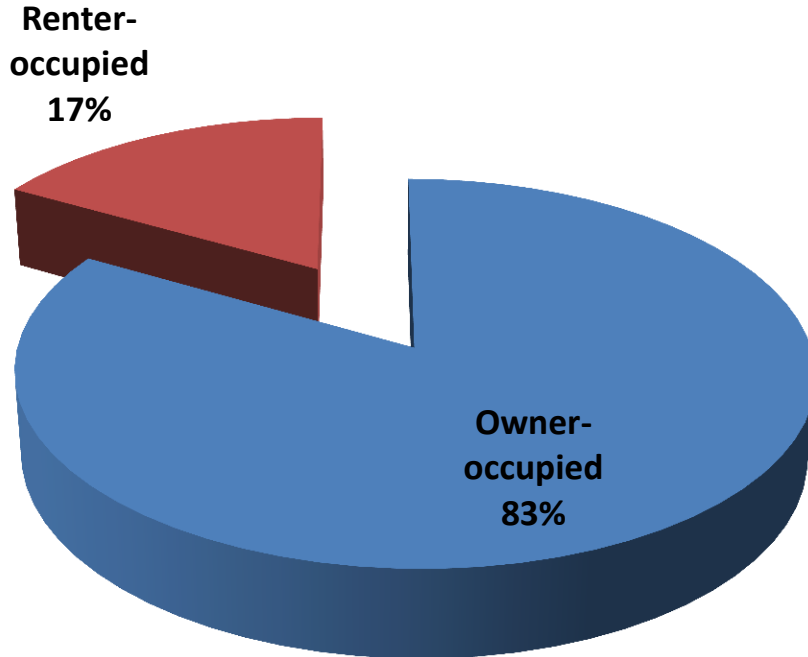
**Take away:** 6% (according to census) work from home

**From Survey:** 41% of respondents report they can work from home. Almost a third of respondents would work from home if they could – could increase with BB

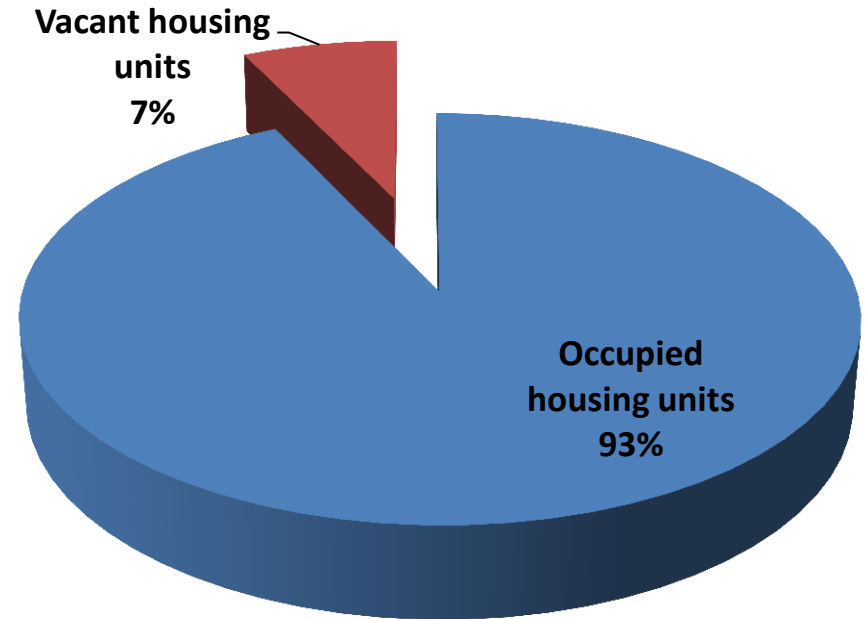
# Fluvanna Housing

Total Households: 10,541  
Occupied Household: 9,787

**Fluvanna Housing Occupancy**  
Total housing units: 10,541



**Fluvanna Housing Tenure**  
Occupied Housing Units: 9,787

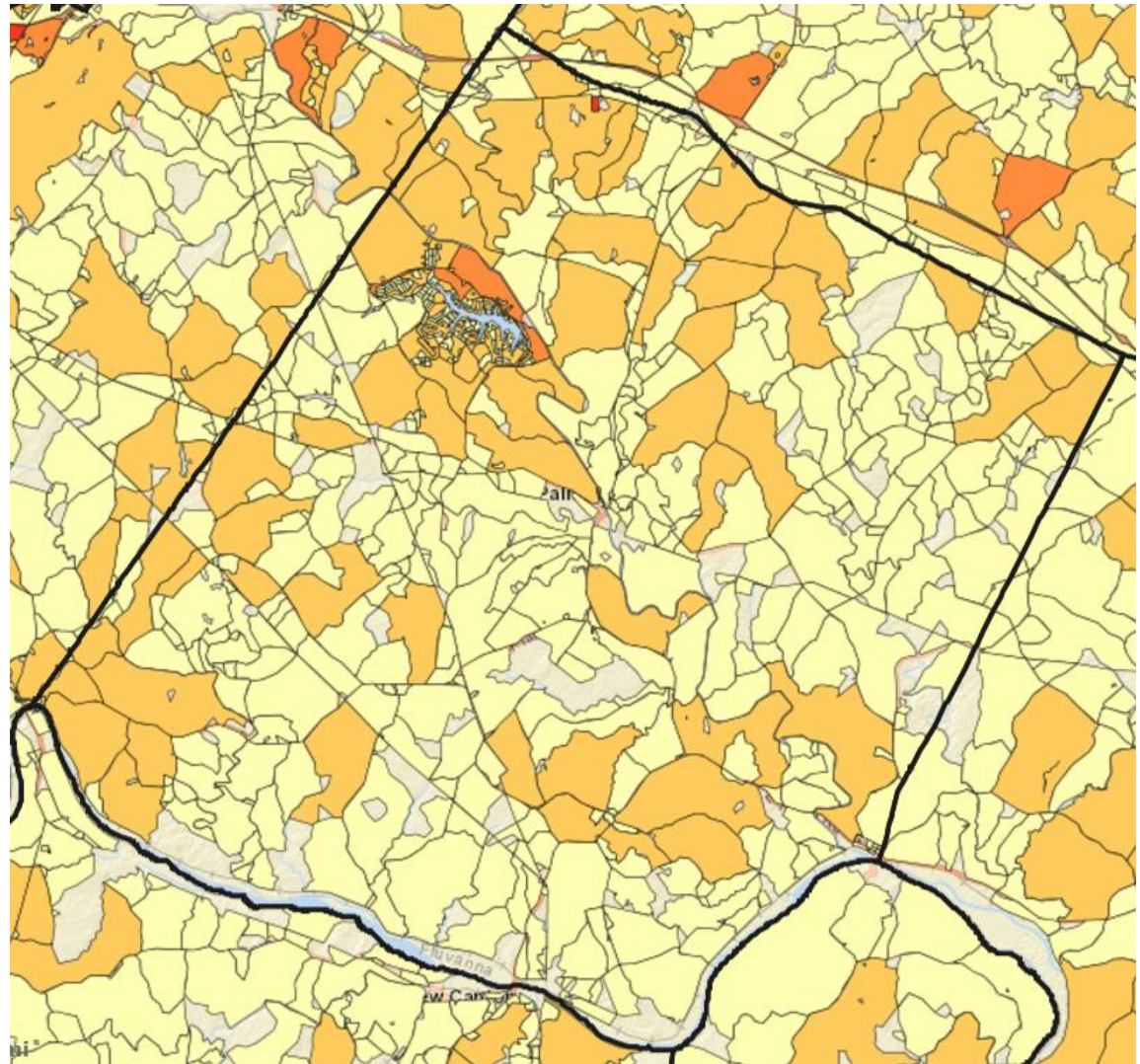


**Take away:** Only 7% of housing units are vacant or represent seasonal/weekend homes  
\*a vacant unit may be one which is entirely occupied by persons who have a usual residence elsewhere.

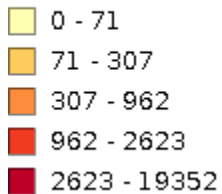
Source: <https://www.census.gov/housing/hvs/definitions.pdf>

# Fluvanna Population Density

Population generally low  
population density across the  
county, with concentrations of  
low-moderate density on north  
eastern areas of Lake  
Monticello



## 2010 Census Population



FCC Provider Reported Data

# **REPORTED CURRENT COVERAGE**



# *seriously* Important note about FCC reported coverage

**All** facilities-based broadband providers\* **are required** to file data with the FCC twice a year (Form 477) on where they offer Internet access service at speeds exceeding 200 kbps in at least one direction.

**Fixed** providers file lists of census blocks in which they can or do offer service to at least one location, ...

**Mobile** providers file maps of their coverage areas for each broadband technology (e.g., EV-DO, HSPA, LTE).

## **Block-Level Deployment and Competition**

A provider that reports deployment of a particular technology and bandwidth in a particular census block may not necessarily offer that particular service everywhere in the census block. Accordingly, a list of providers deployed in a census block does not necessarily reflect the number of choices available to any particular household or business location in that block, and the number of such providers in the census block does not purport to measure competition.

**Source: Source: <https://www.fcc.gov/general/broadband-deployment-data-fcc-form-477>**

**\*A Facilities-based Broadband Provider** is an entity that provides broadband services over facilities it owns, provisions and/or equips.

**Take away – 2015 data Coverage maps are overstated !**

# Fluvanna County Broadband Providers that Report to the FCC

CENTURYLINK

COMCAST

LEVEL 3 COMMUNICATIONS, LLC

TW TELECOM

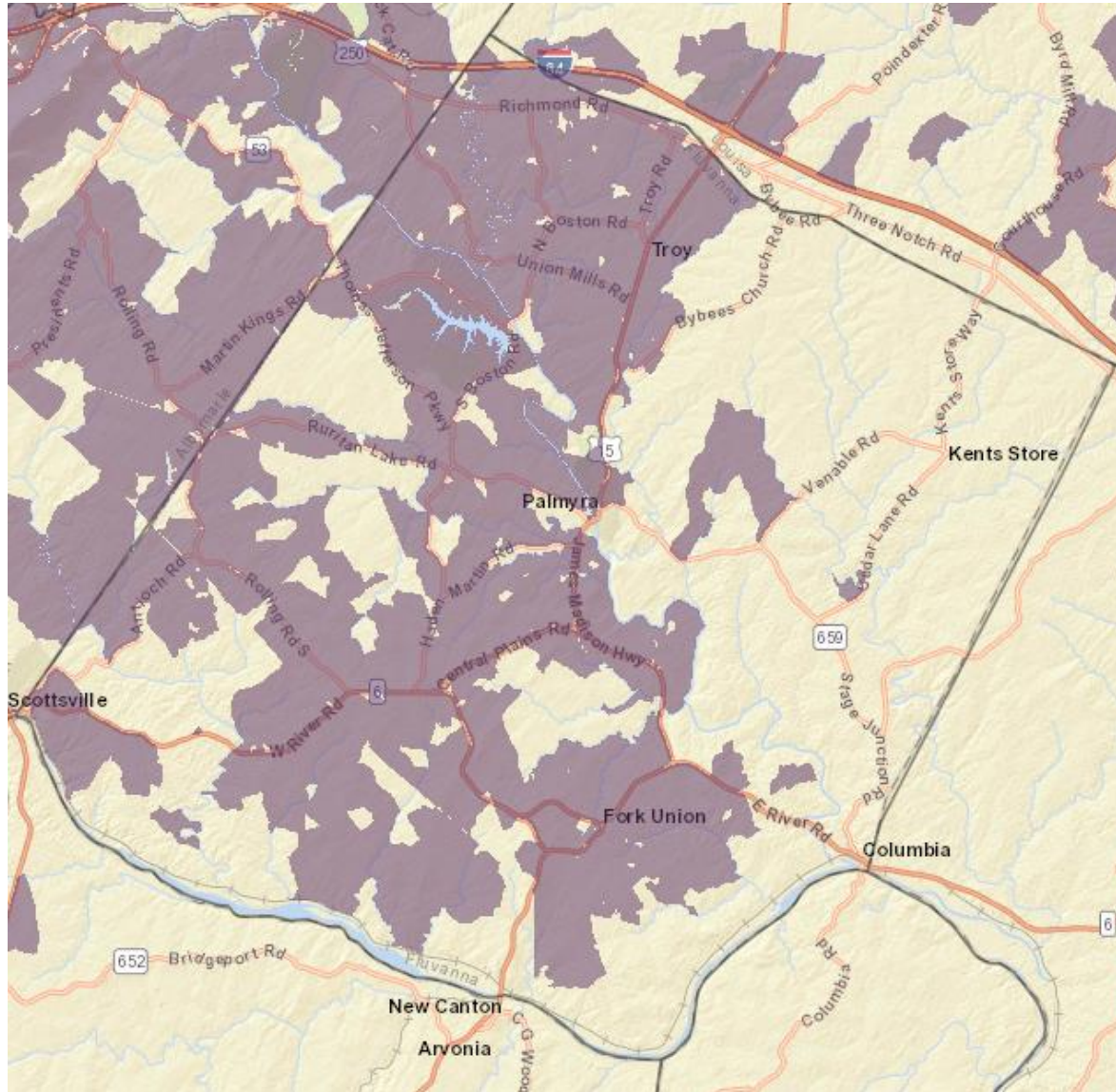
# DSL Coverage

CenturyLink

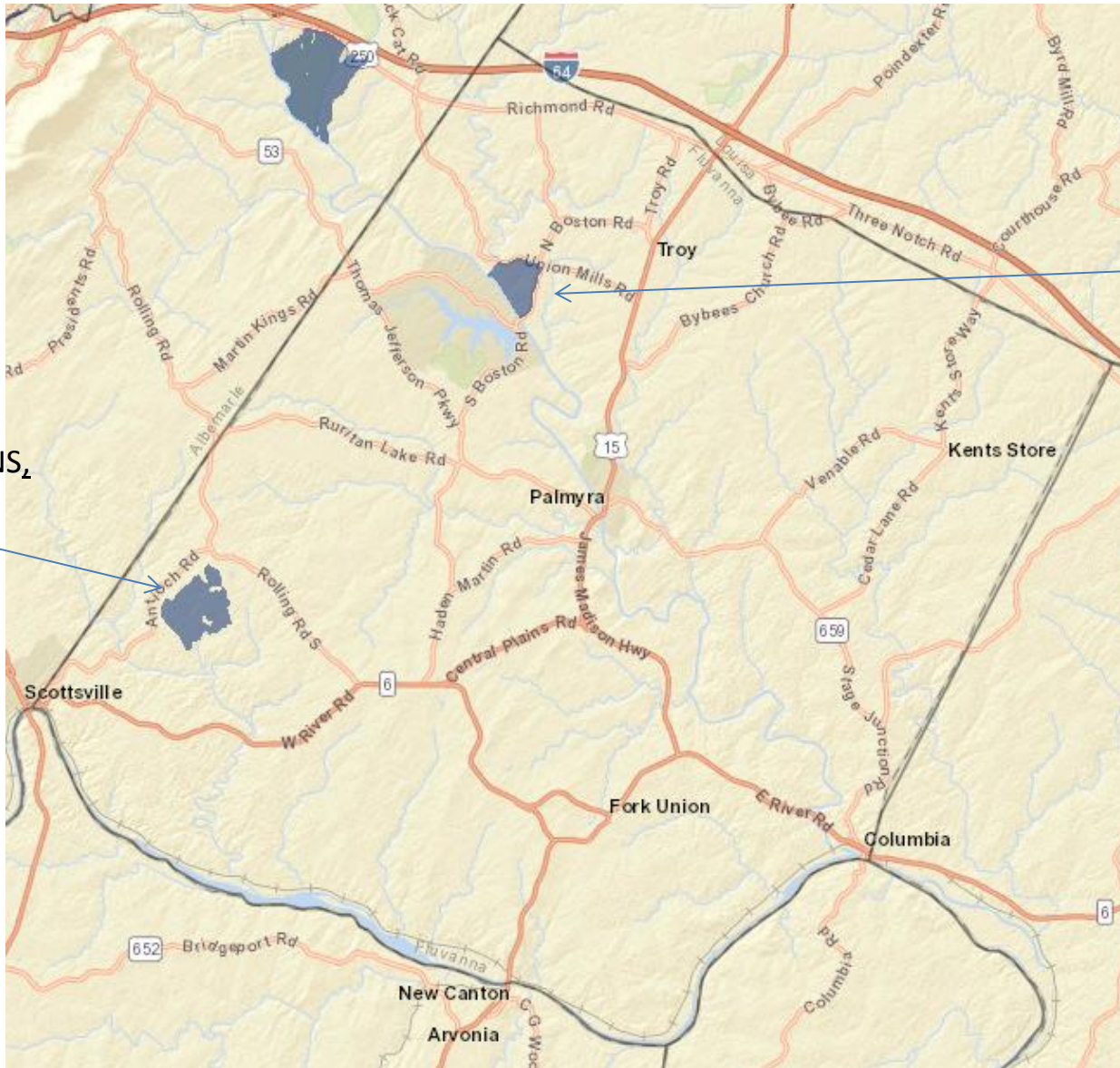


# Cable Coverage

Comcast



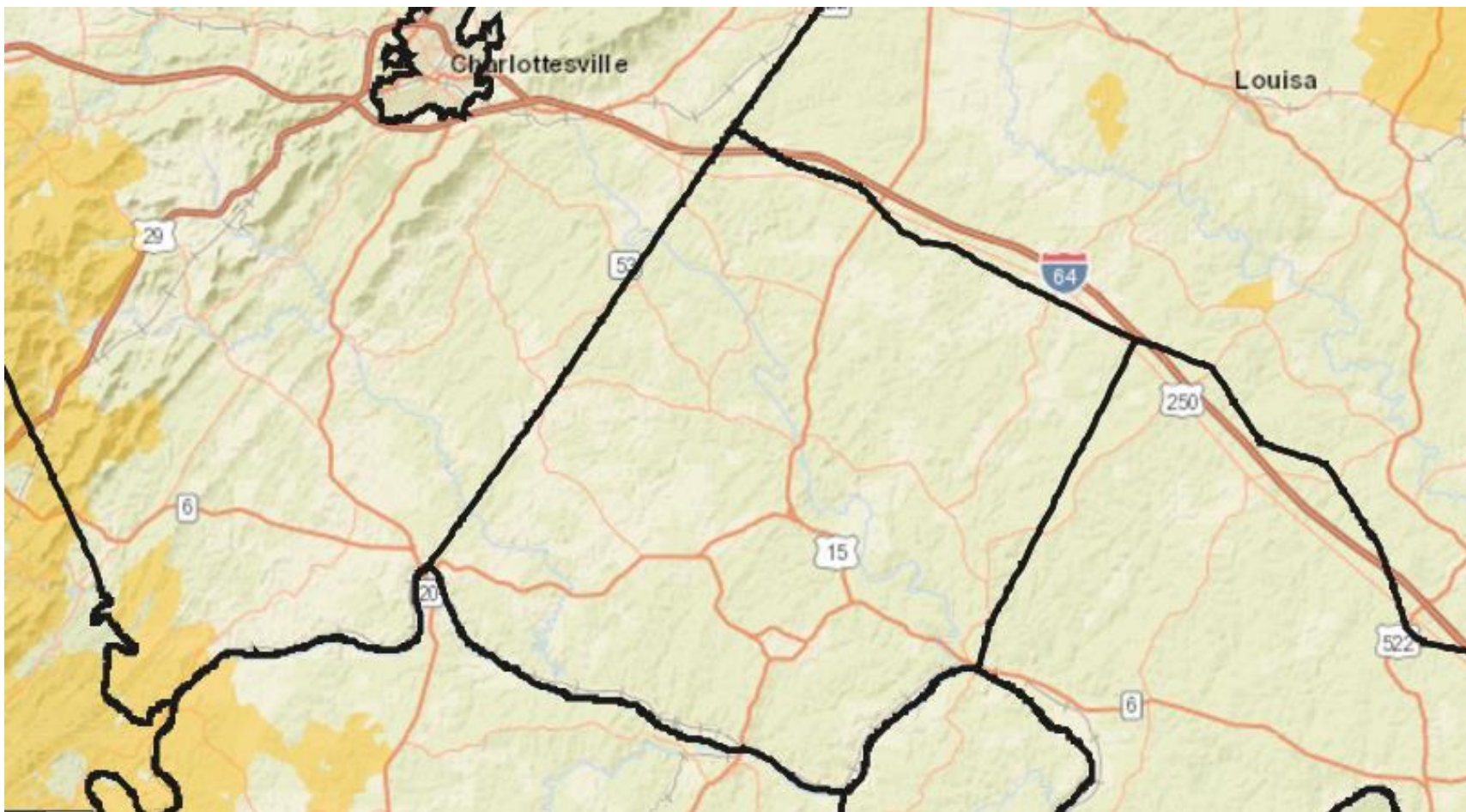
# Fiber Service



CENTURYLINK

LEVEL 3  
COMMUNICATIONS,  
LLC

# Fluvanna County Fixed Wireless



No Fixed Wireless Services reported to FCC

# Fluvanna Un/Underserved Areas

● Unserviced = Broadband speed below 10 Mbps Download speed

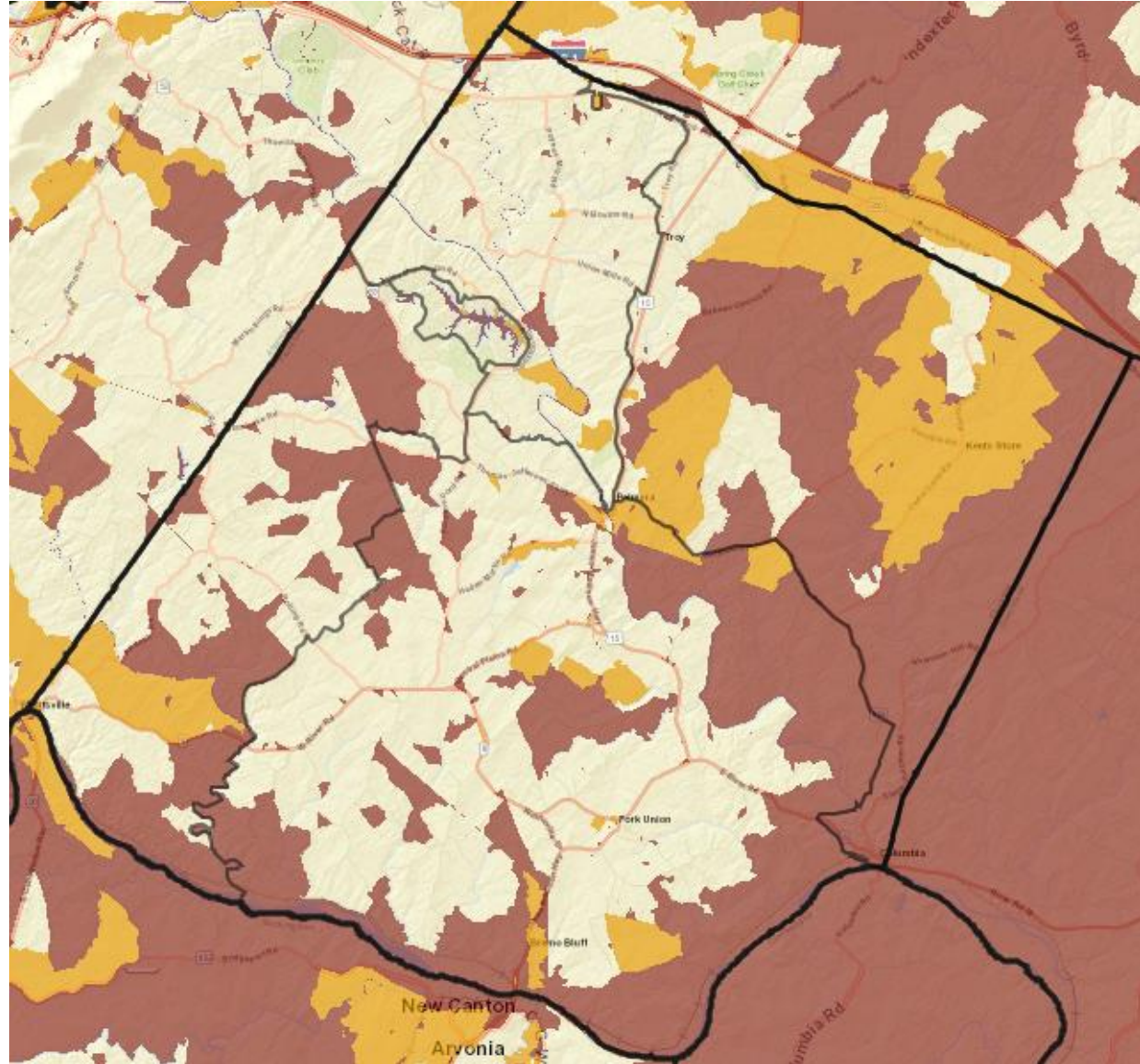
● Underserved = Broadband speed between 10 Mbps Download speed and 25 Mbps Upload speed

7% households have access at less than 4 Mbps

93% have access at  $\geq 4$  Mbps

91% have access at  $\geq 10$  Mbps

78.4% have access at  $\geq 25$  Mbps




# Public Safety

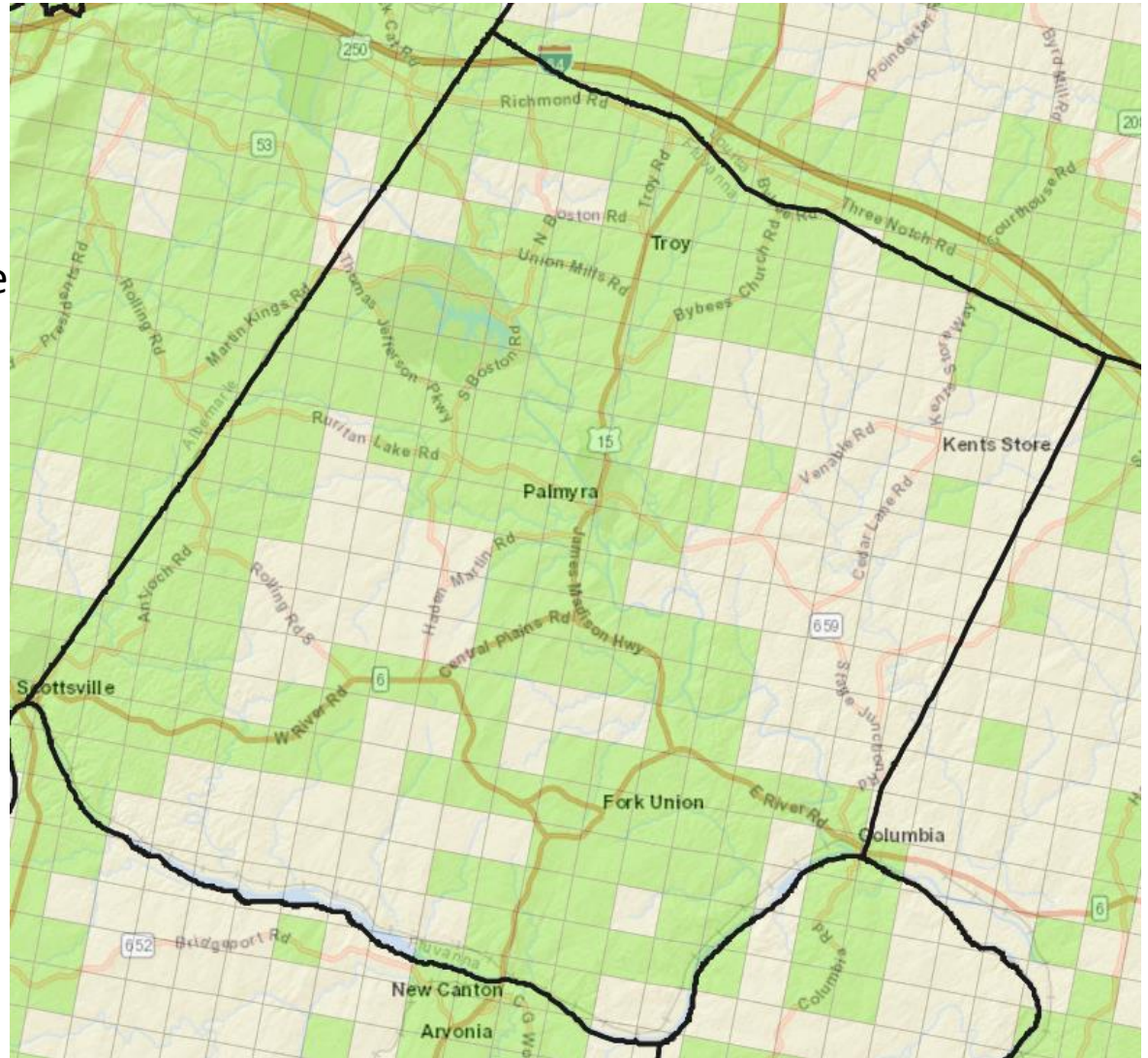
## FirstNet and No-LTE

**FirstNet 1x1 mile grids.**

 Proposed terrestrial coverage

 Proposed non-terrestrial coverage

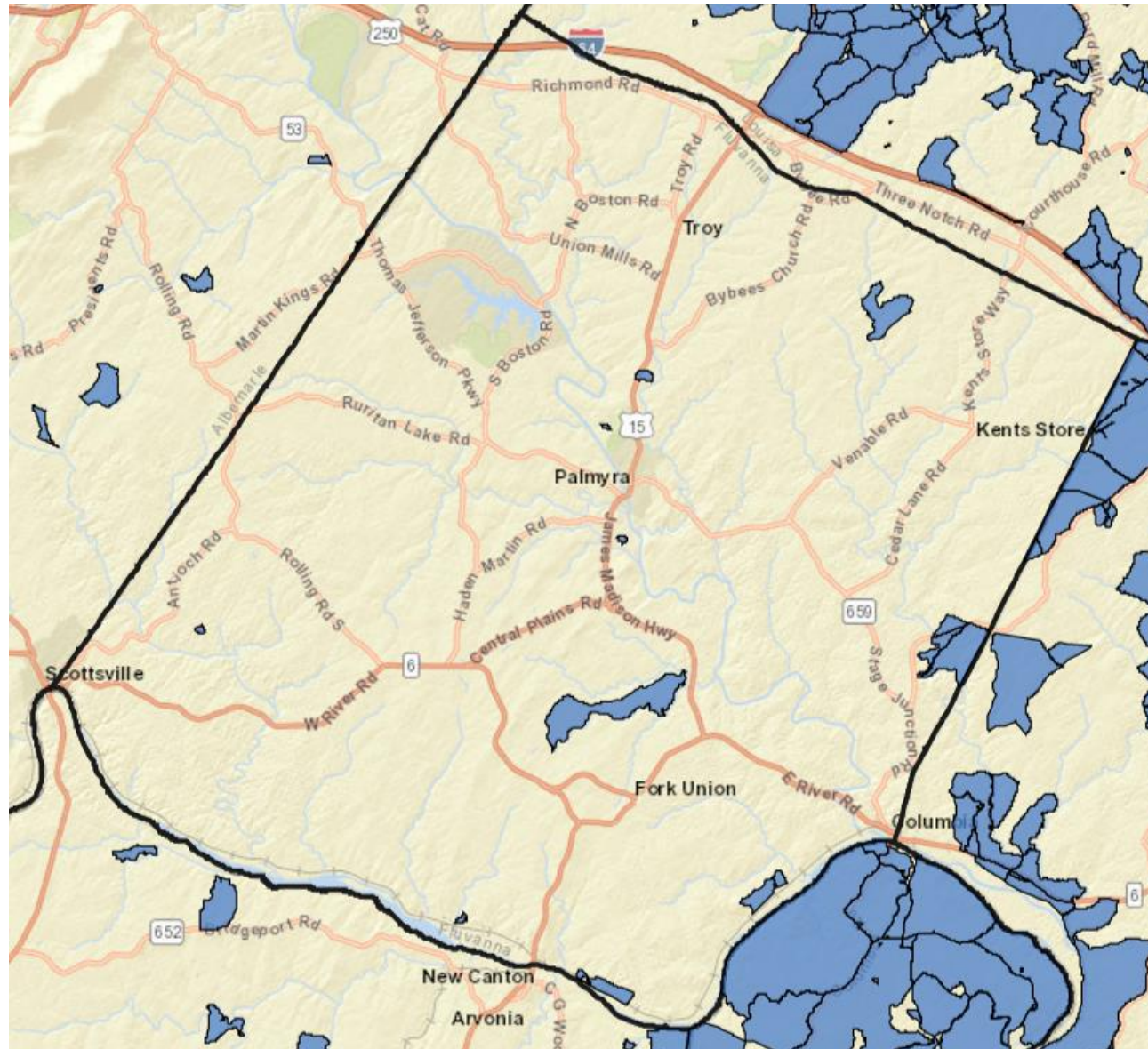
\*VDEM coordinating FirstNet activities





# Fluvanna Connect America Funding Phase II

Potential Funding:  
\$32,437.13 annual funding  
\$194,622 over 6 years



Now and Into the Future

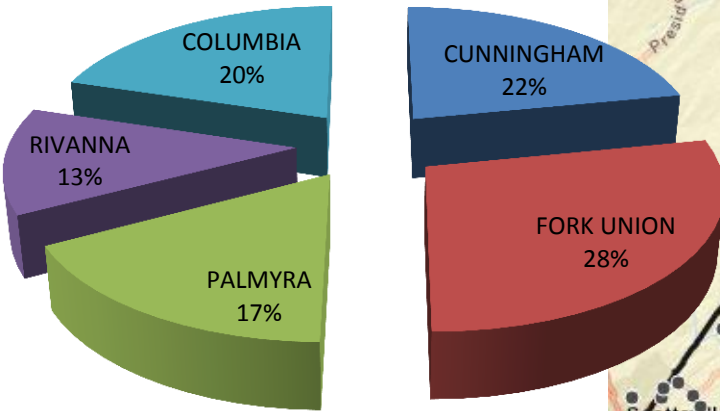
# **BROADBAND DEMAND**

# Fluvanna County Survey

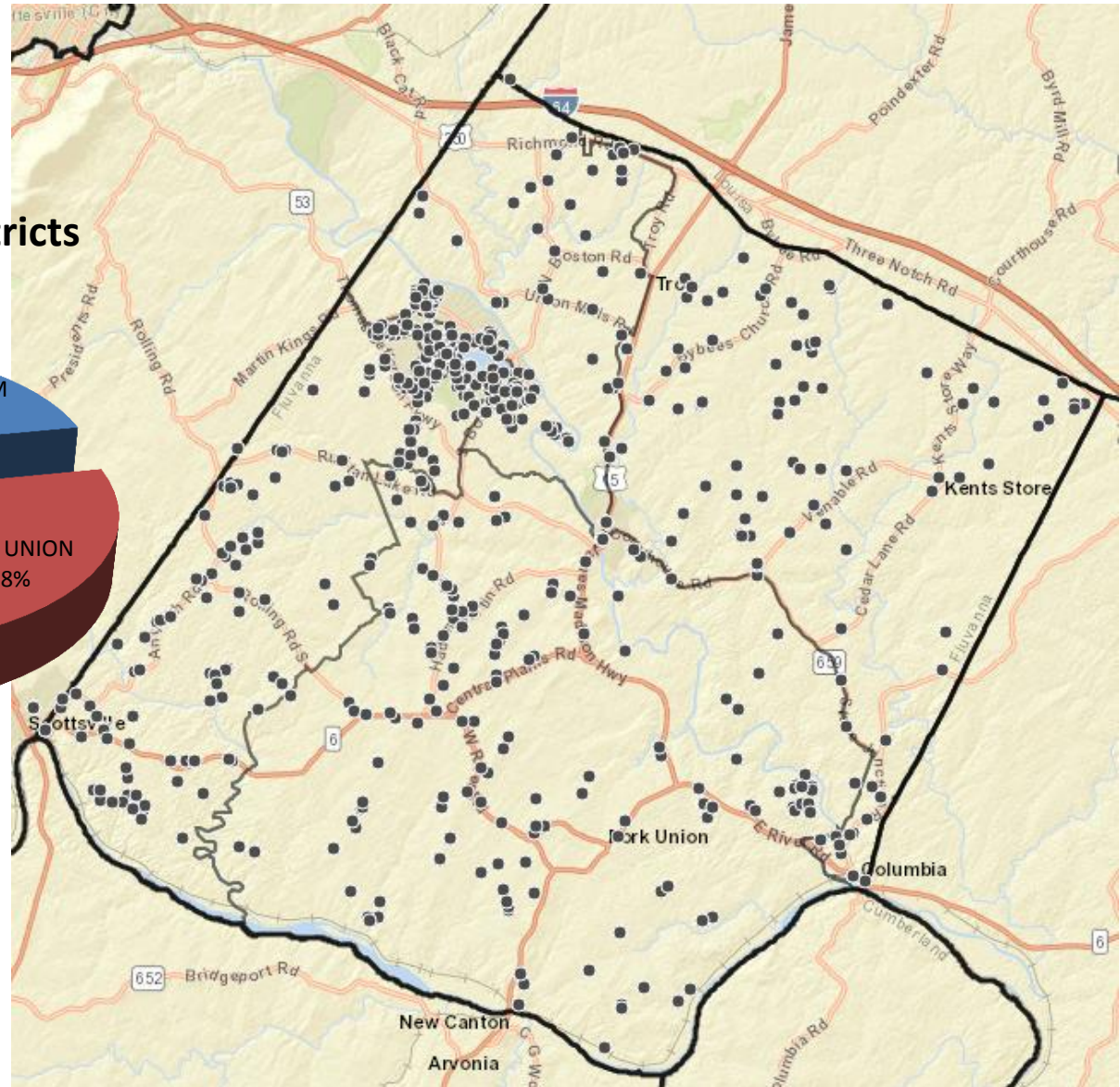
**689 survey responses**

95% accuracy with 3.6% (+/- margin of error)

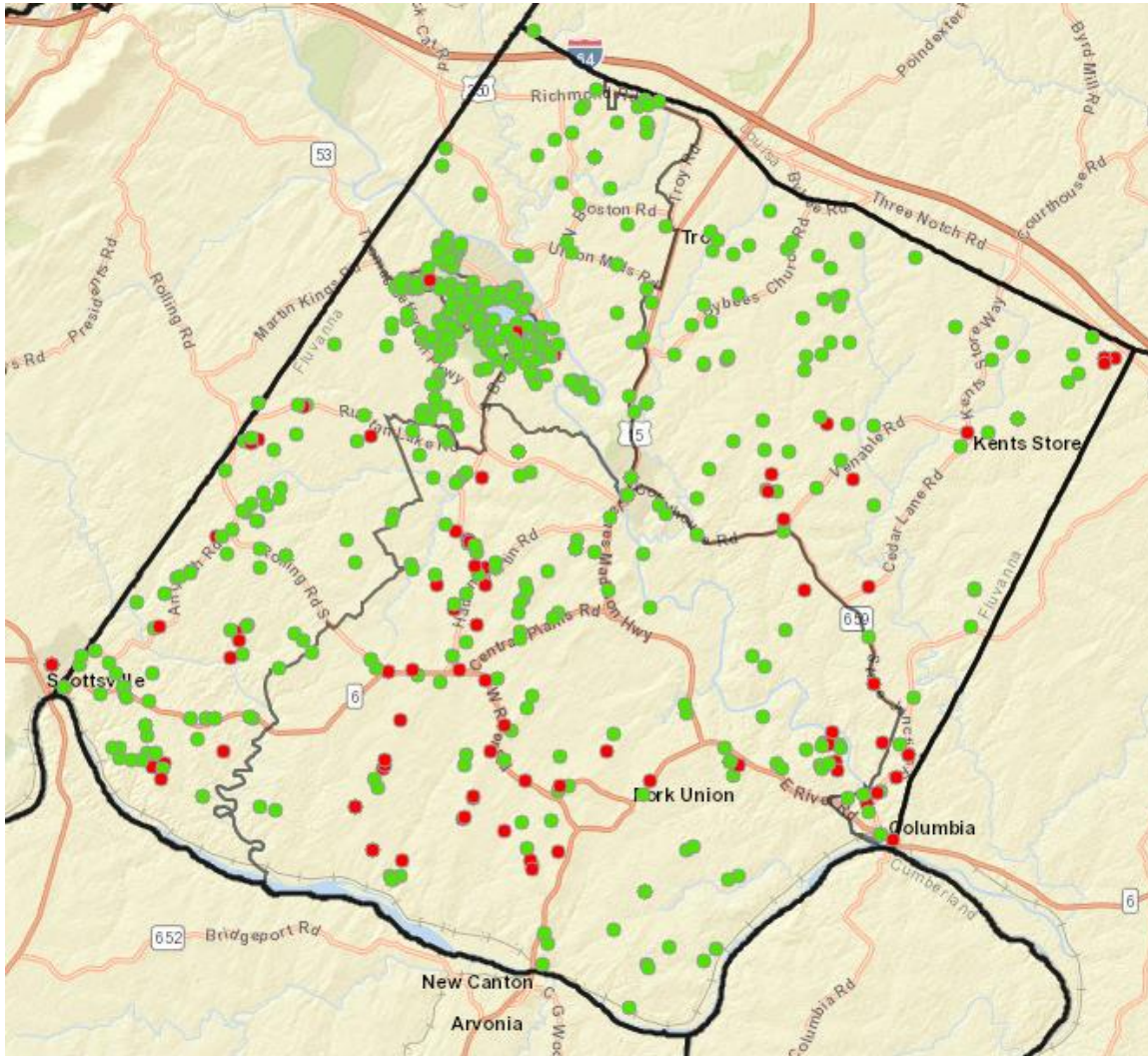
## Responses from Voting Districts



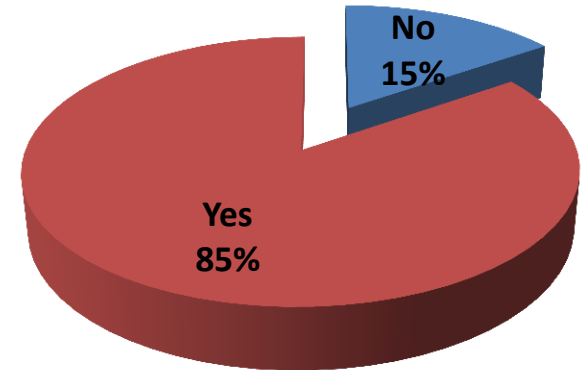
85% of respondents report having Internet access at home



# Fluvanna County

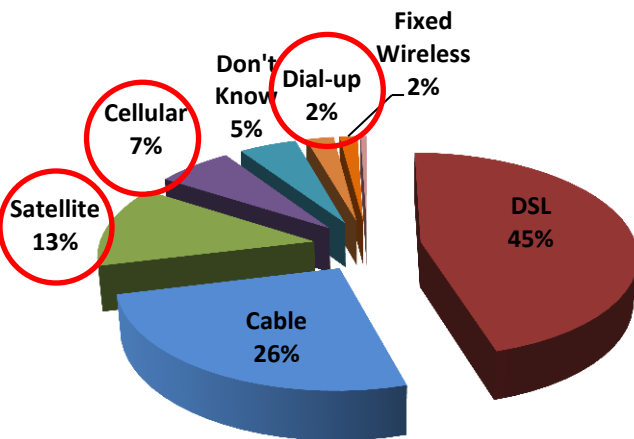


Do you have Internet access at home?

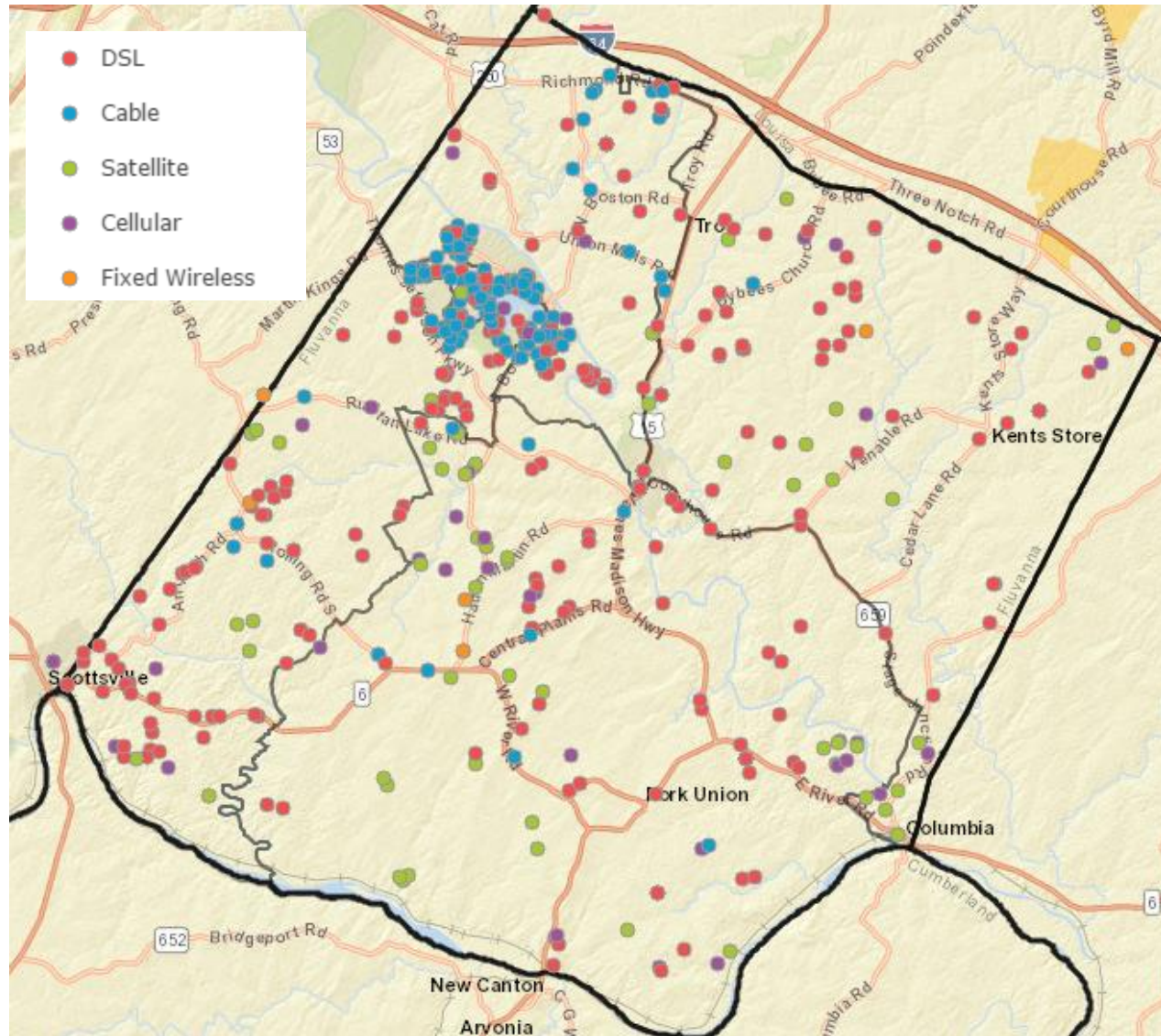


# Fluvanna County

Connection types reported

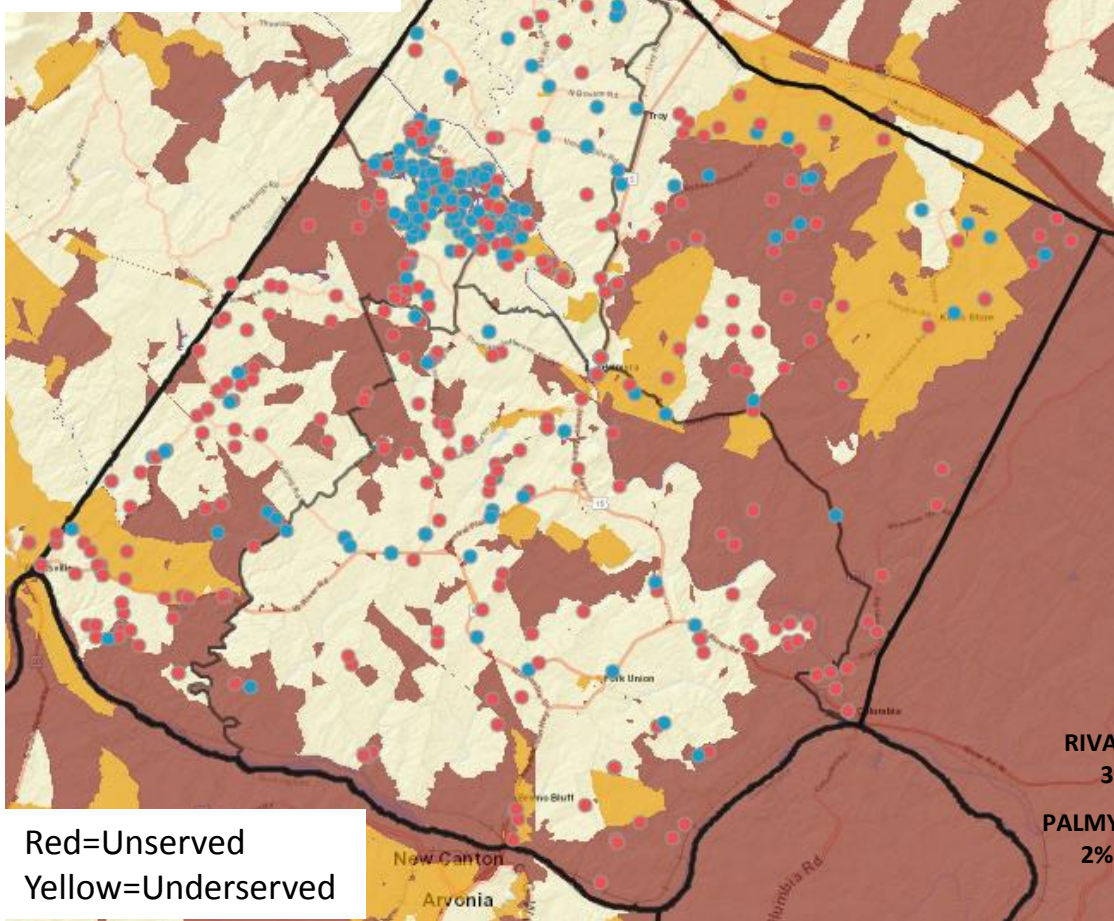


**Take away:** 22% depend on inadequate and/or expensive services.

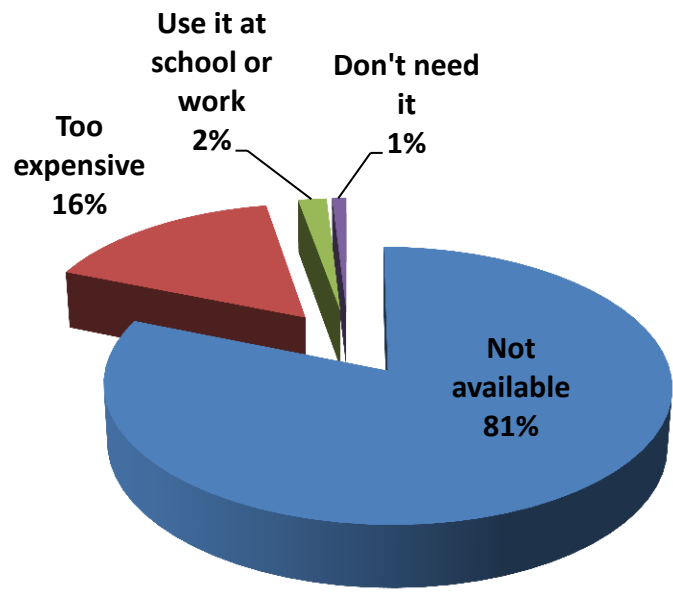


# Fluvanna County

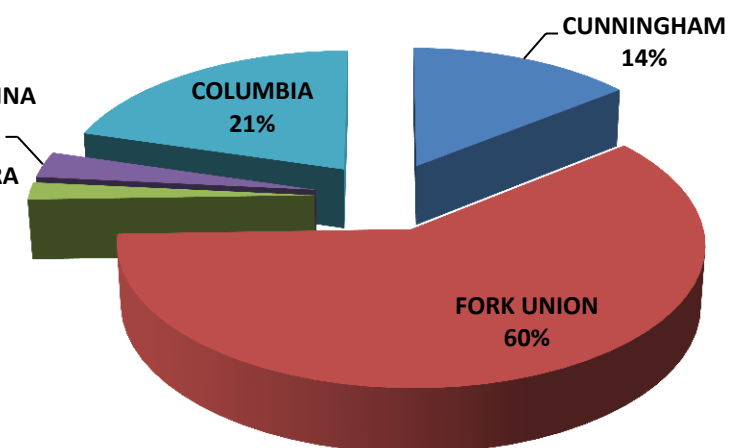
- Inadequate - does not meet my needs
- Adequate - meets all my needs



## Reason for No Internet Service



## No Internet by Voting District

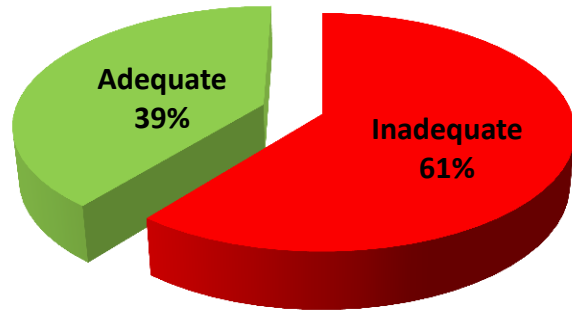
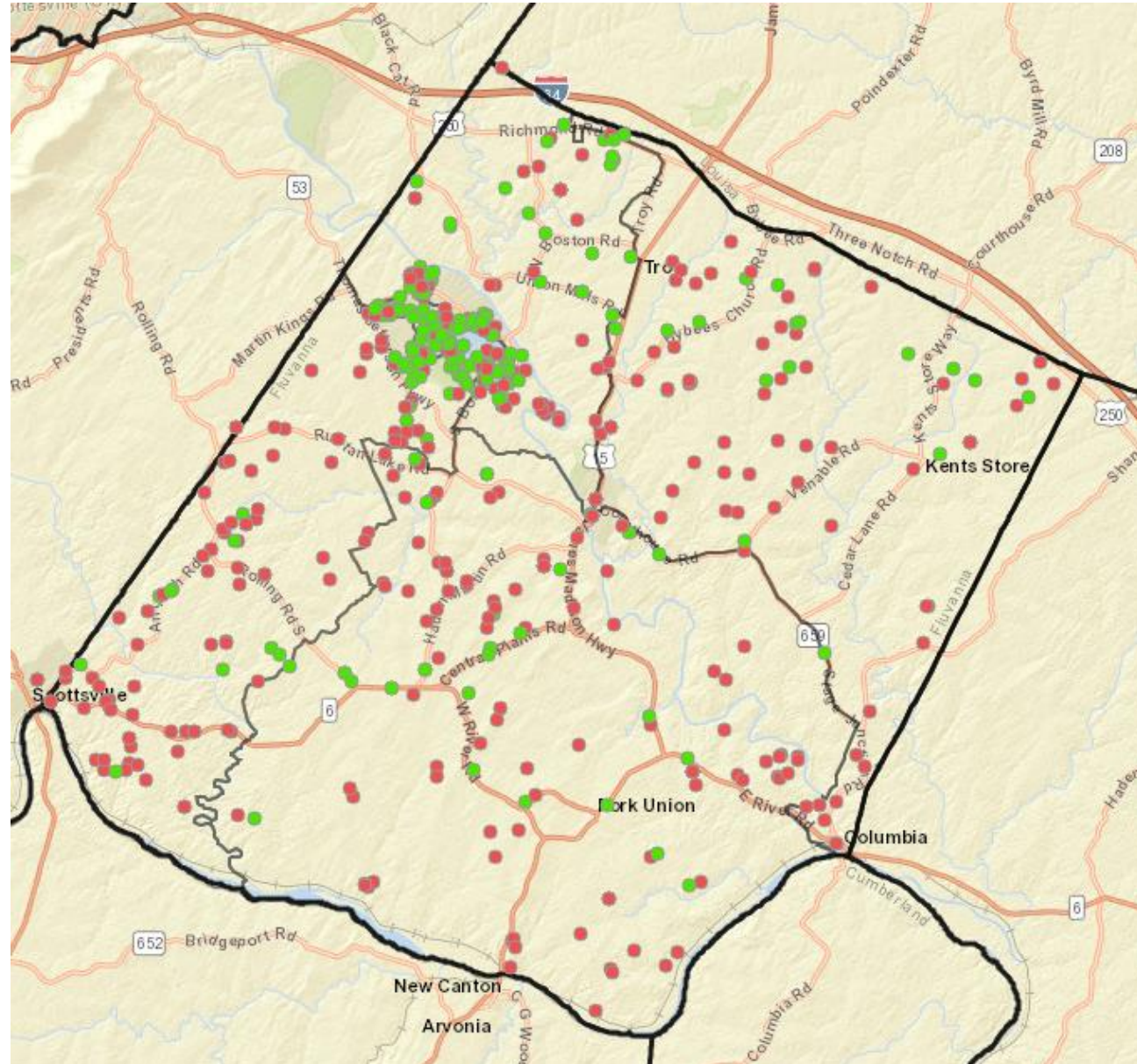


**Take Away:** Most (81%) who don't use the Internet do not have service available.

# Fluvanna County Survey

Rate your home Internet service.

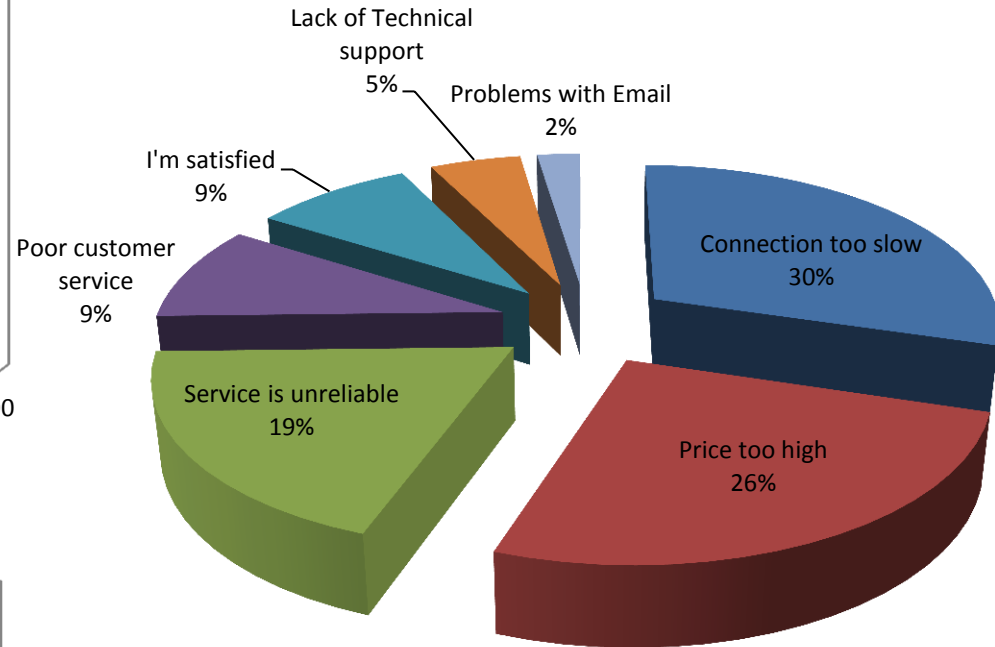
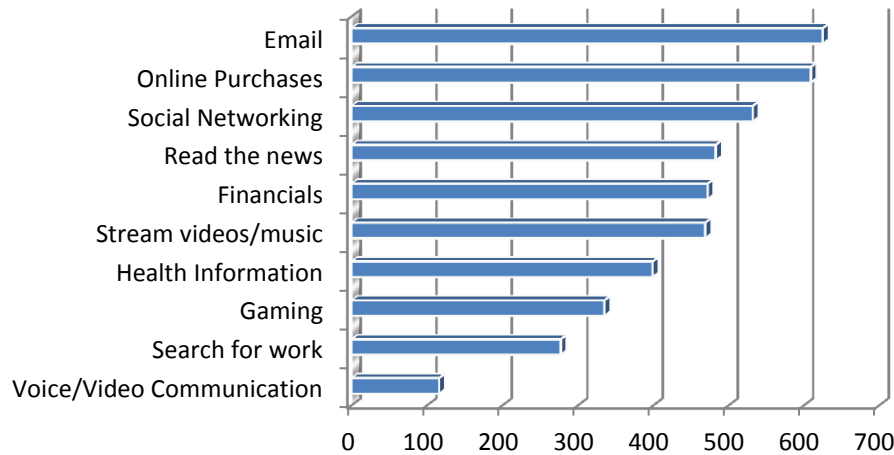
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- Adequate - meets all my needs



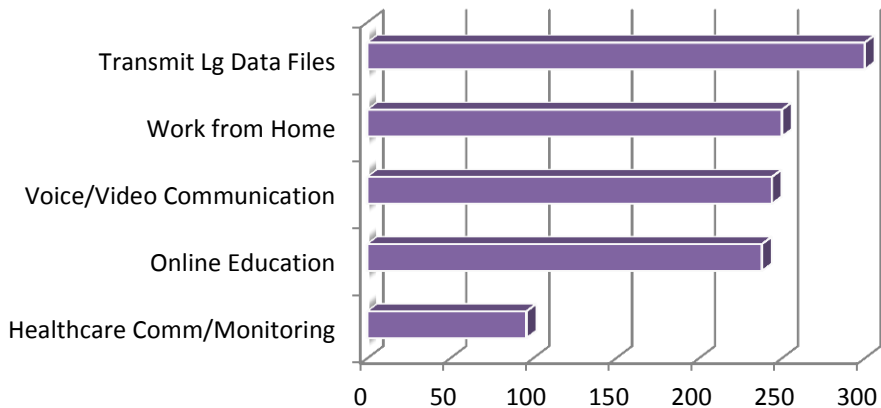
# Fluvanna County

## Reason for Dissatisfaction of Service

Current Online Activities



Desired Online Activities if Improved Connection

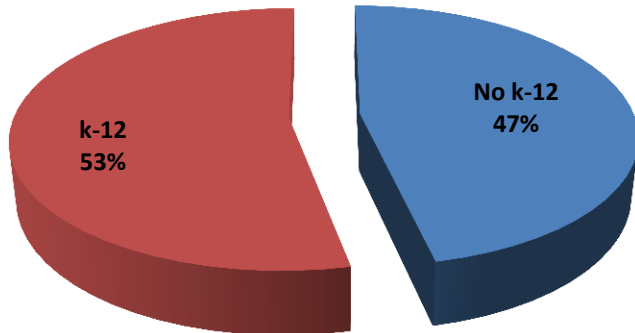


**Take away:** Current online activities reported are not bandwidth intensive – consistent with reports of slow, unreliable service. Desired activities generally require reliable high bandwidth connections.

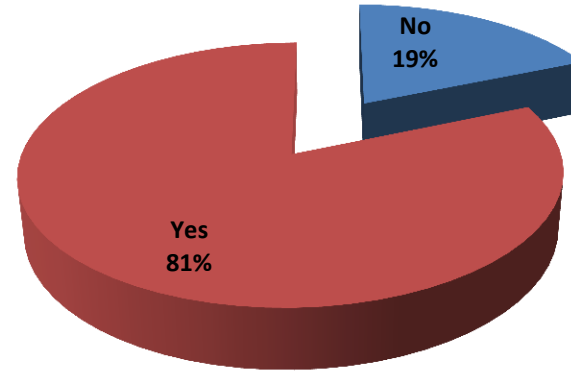


# Fluvanna County K-12

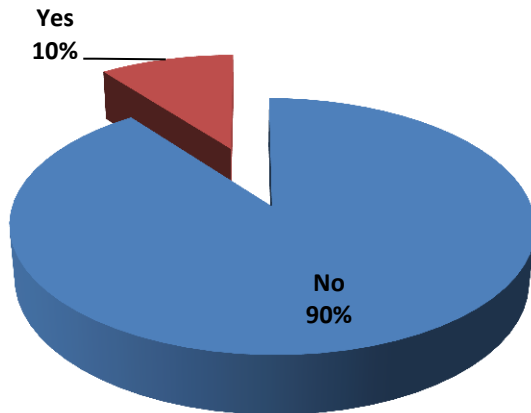
## K12 Households



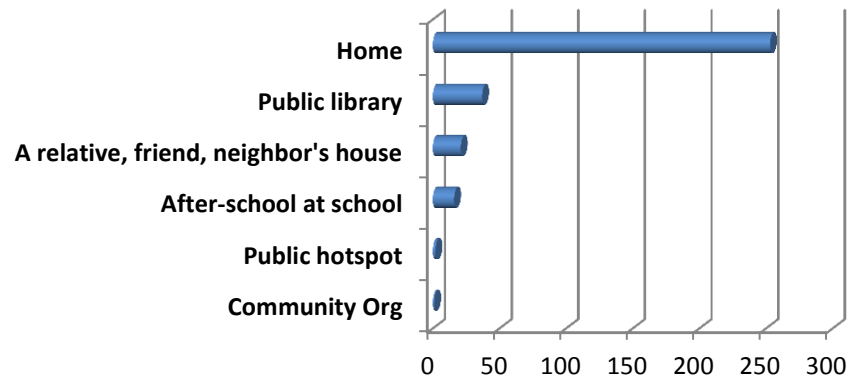
## K-12 Internet at home?



## Children Home Schooled



## Internet after school?

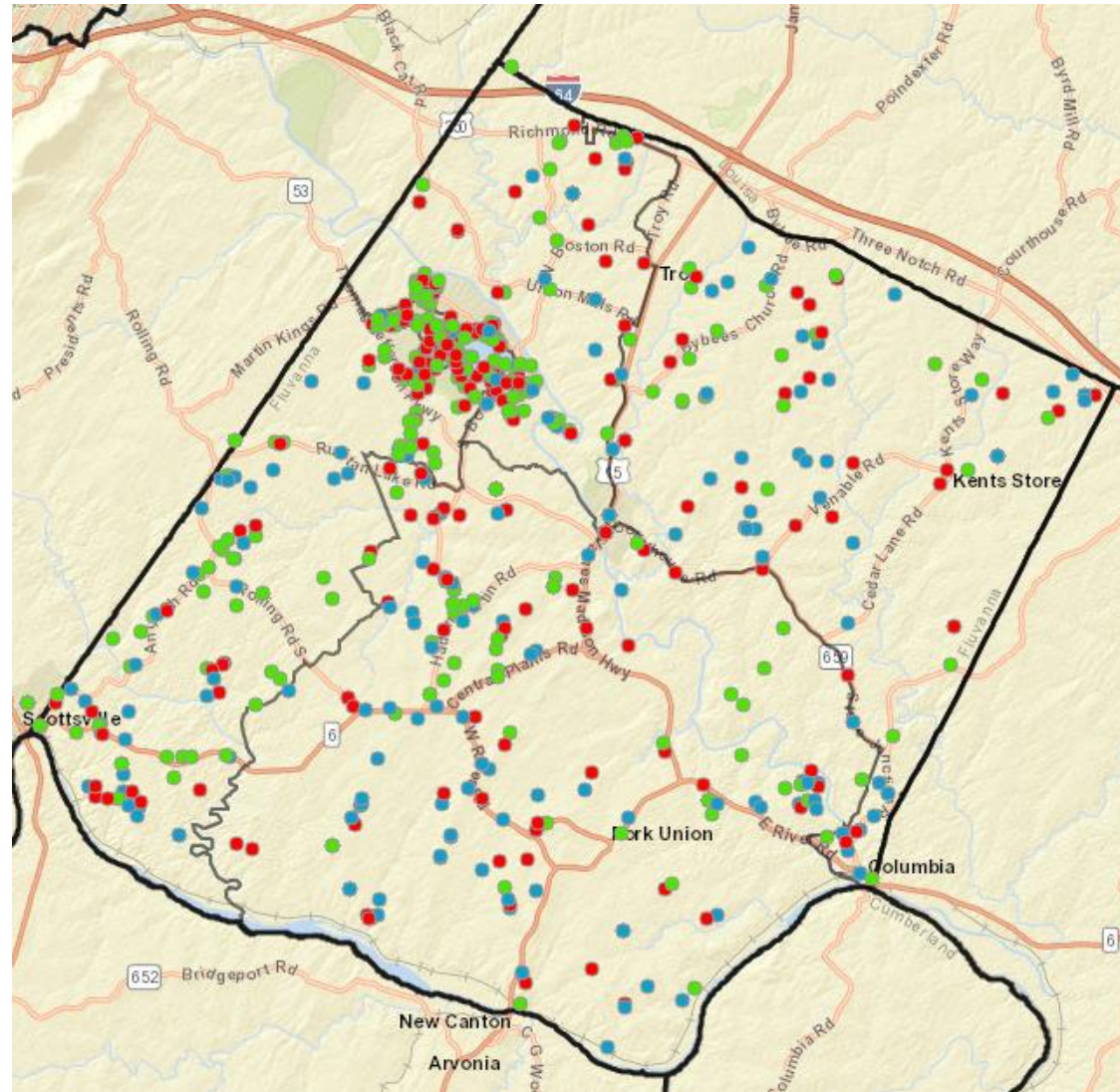
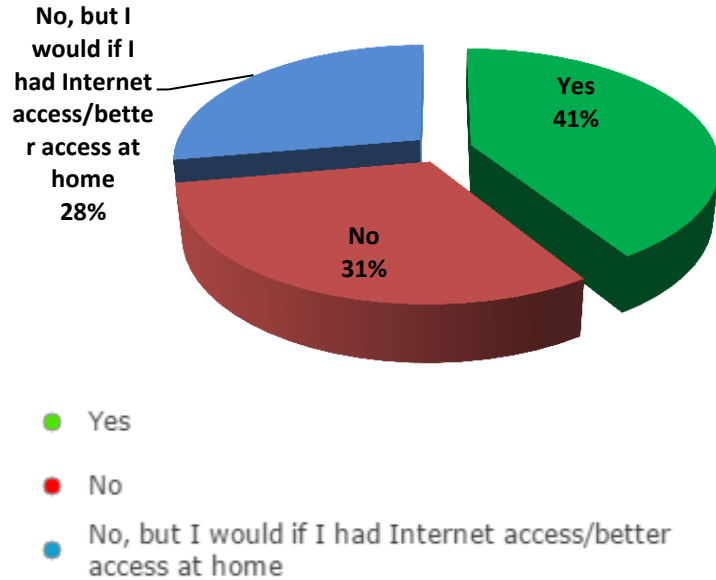


**Take away:** 53% of respondents report school-aged children. 10% of those are home schooled. 19% of K-12 students do not have Internet at home.

# Fluvanna County

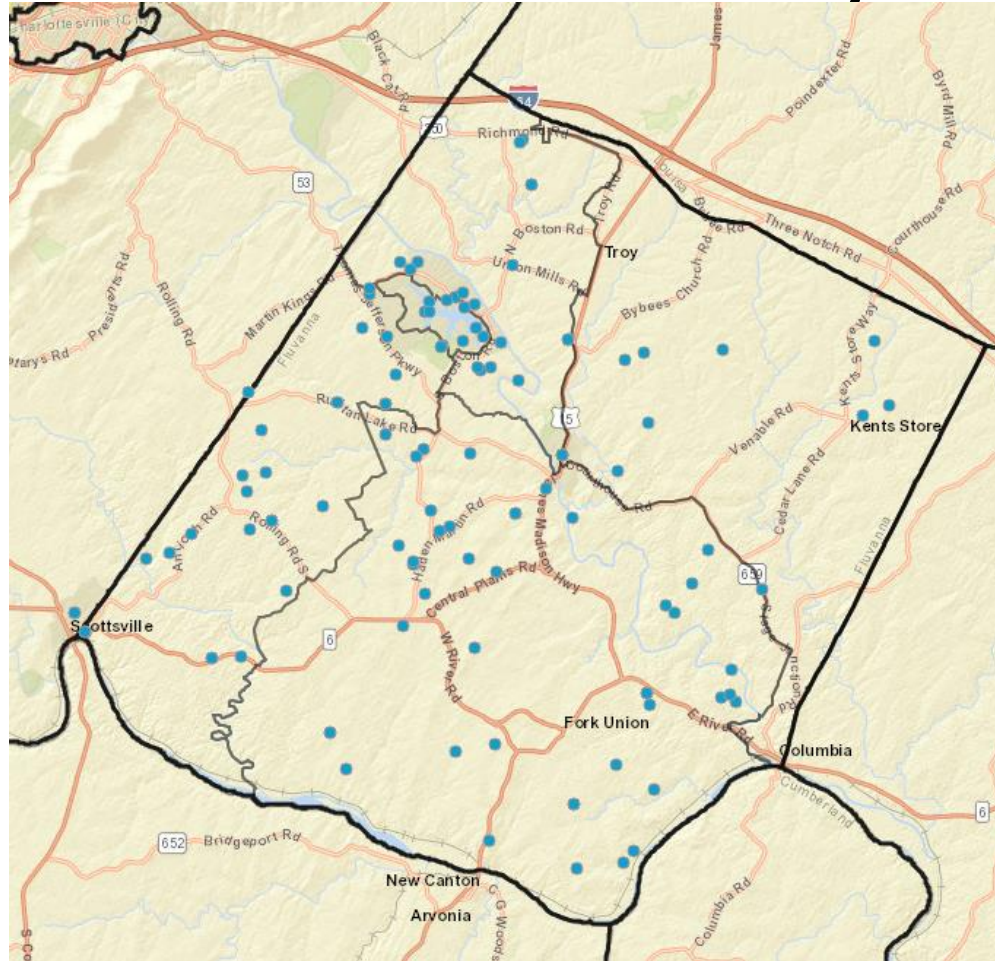
## Work from home?

Anyone work from home?

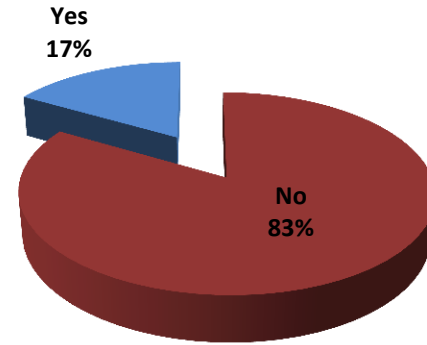


**Take away:** According to VEDP, over 60% of Fluvanna residents commute out of the county for employment. Almost 30% of respondents would work from home if they could.

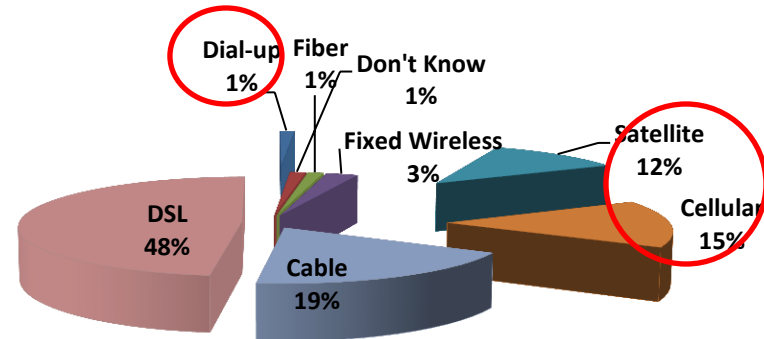
# Fluvanna County Business Locations



## Anyone Own a Business?



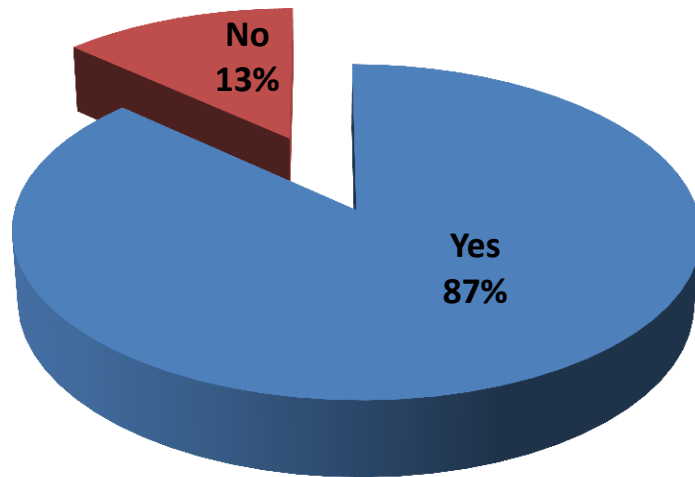
## Business Connection Types



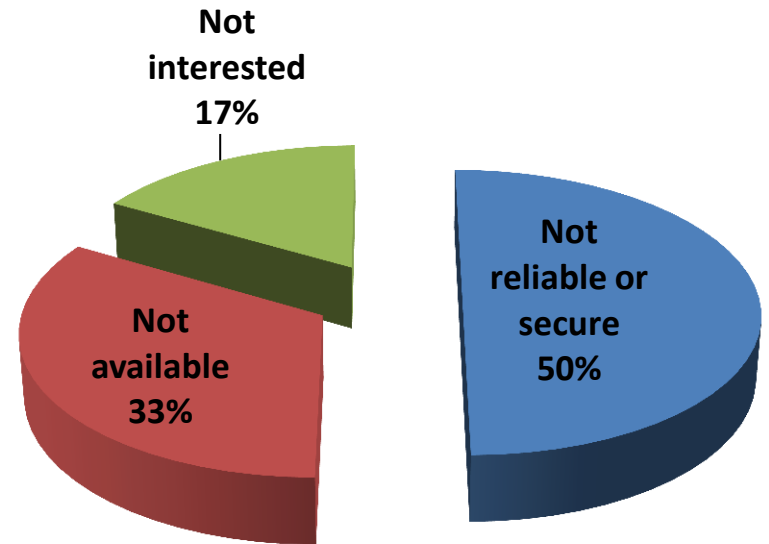
**Take away:** Almost 1/5 (113) of respondents report owning a business. 28% of businesses depend on inadequate and/or expensive services.

# Fluvanna County Businesses

Fluvanna Co - Do you use the Internet to support your business?



Why are you not using the Internet to support your business?

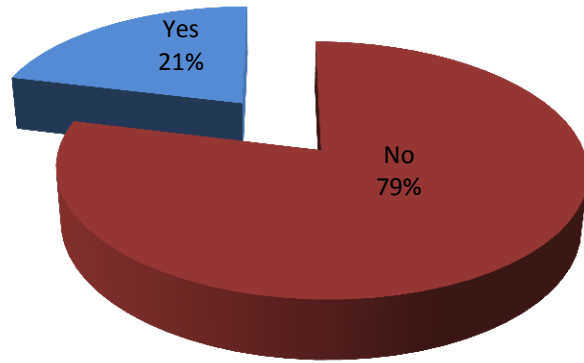


**Take away:** The majority of business owners use the Internet to support their business. 90% of those say the Internet is very important or critical to their businesses. Over 1/3 of business owners report the Internet is not available to them.

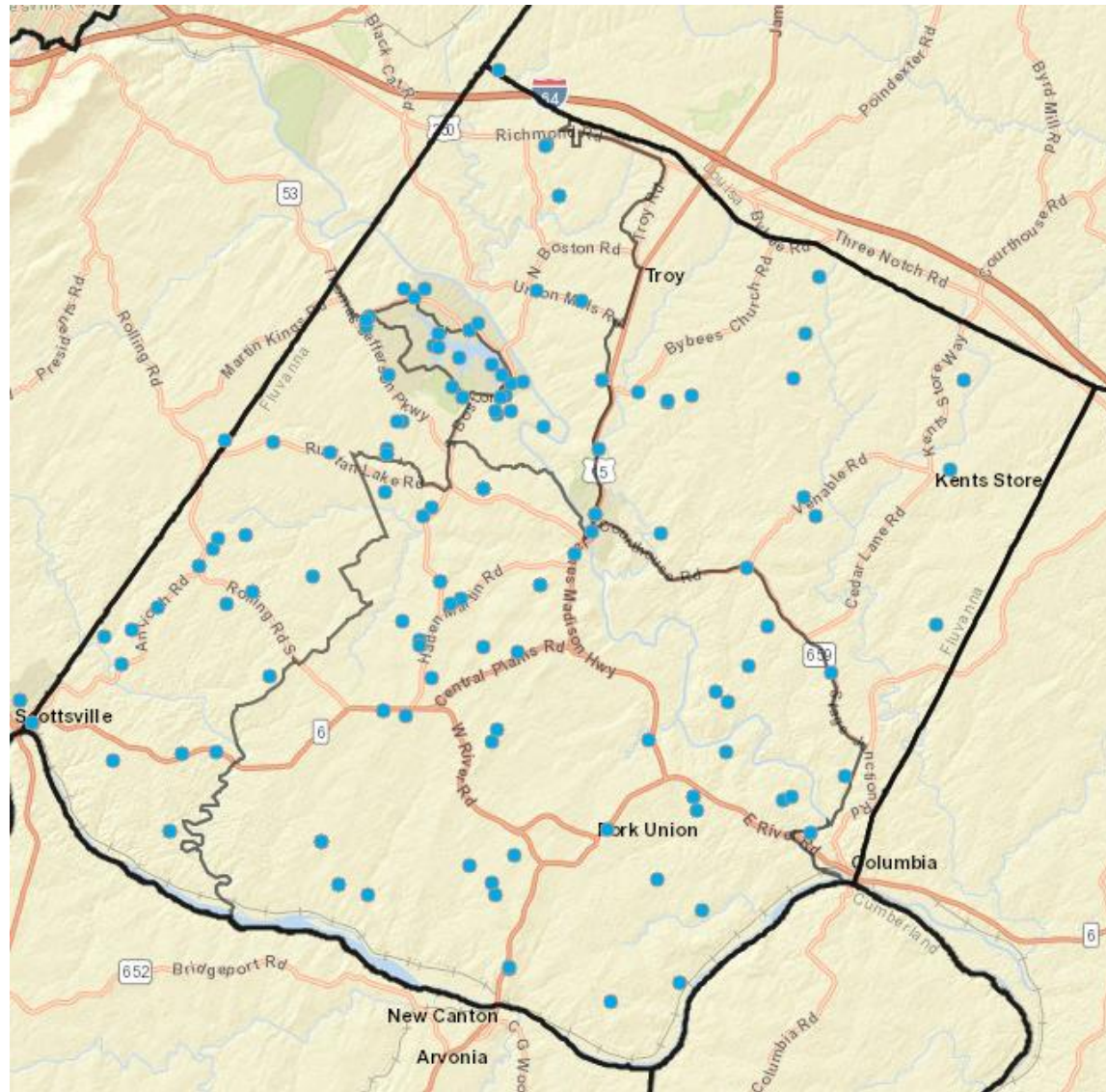
# Fluvanna County

## Home-based businesses

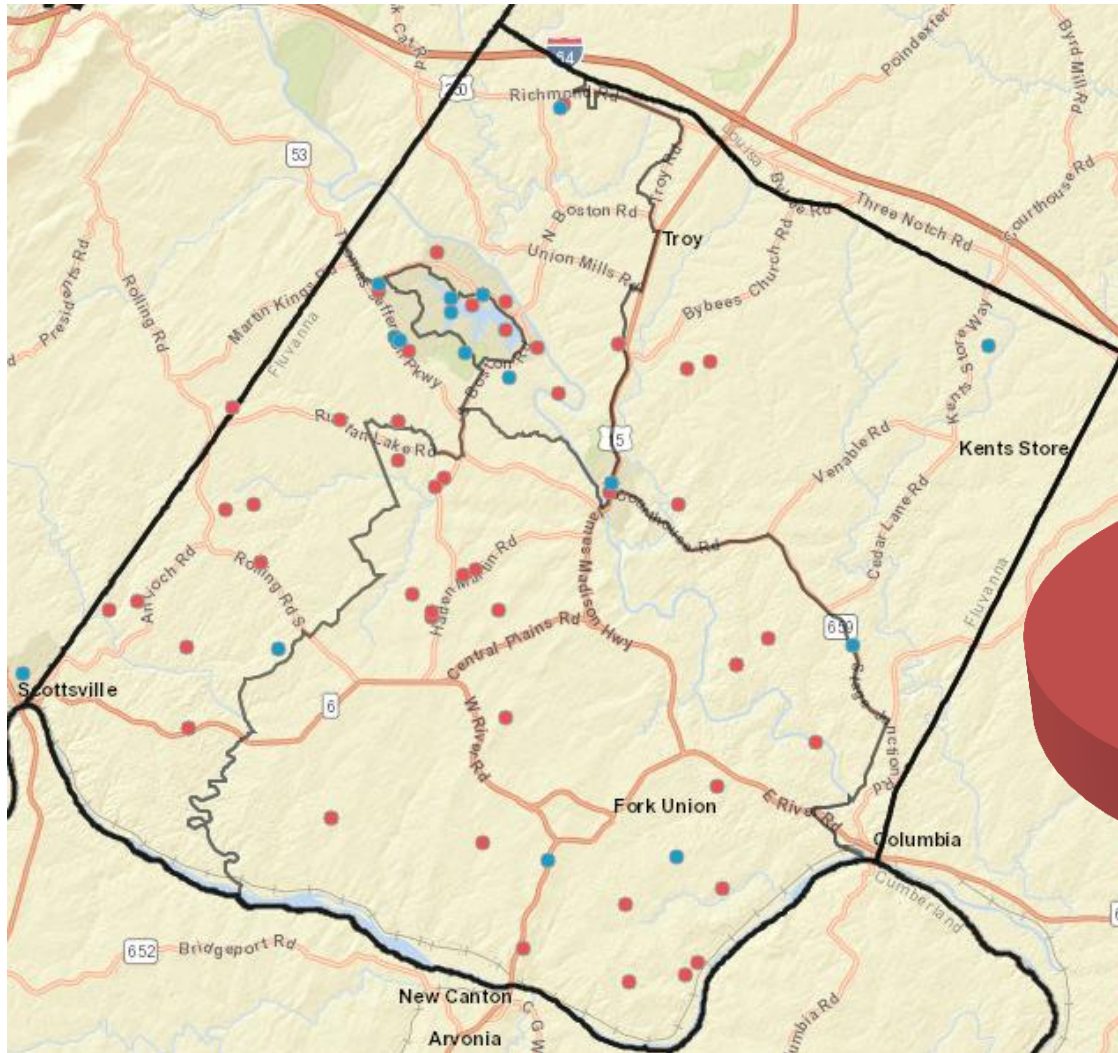
Anyone Own a Home-based Business?



Take away: ~1/5 of respondents report home-based businesses.

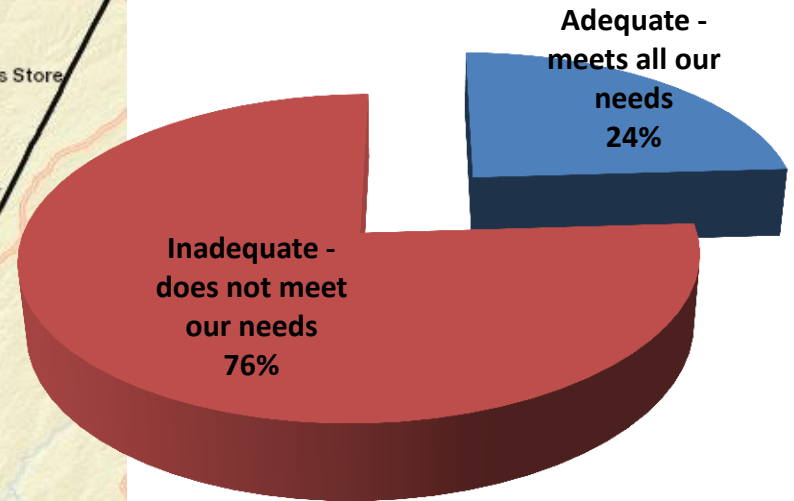


# Fluvanna County



- Inadequate - does not meet our needs
- Adequate - meets all our needs

## Rate your Business Connection






**Take away:** 76% of business owners consider their connections inadequate for their needs.

Vertical Assets, Fiber, Conduit and Community Anchors

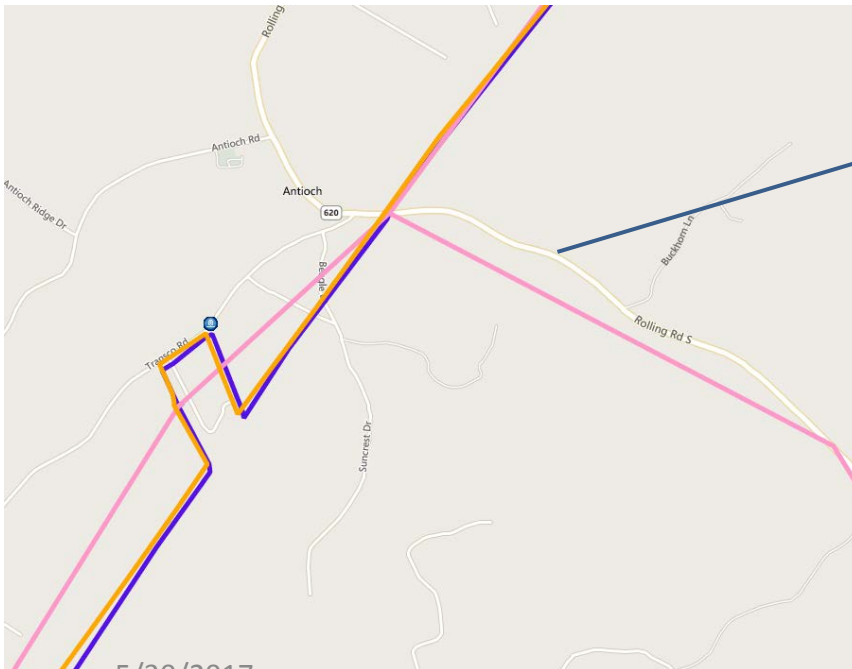
# **LOCAL ASSETS**

# Fluvanna Fiber Routes

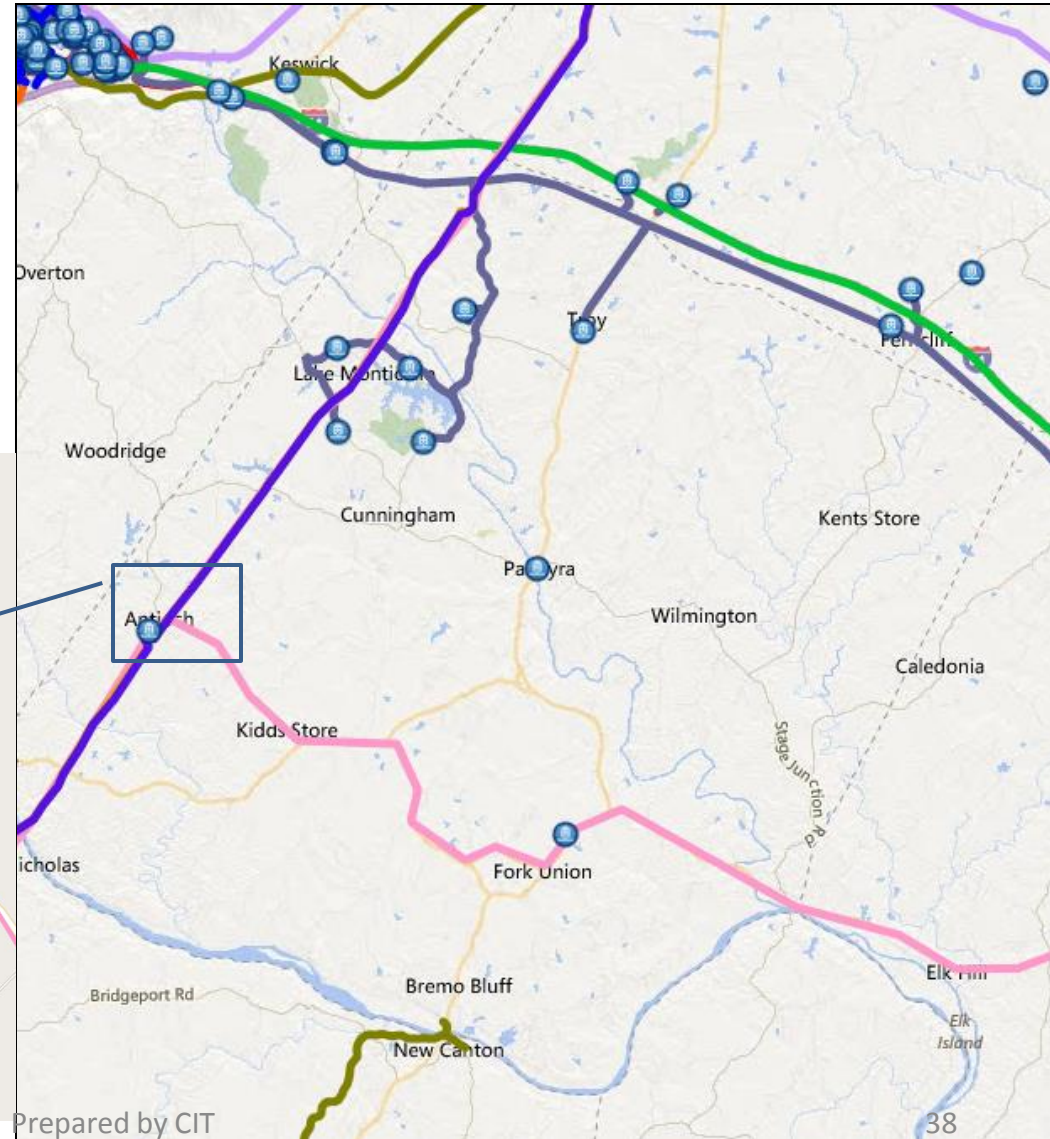
-  Lumos
-  Parallel Infrastructure...

-  Hudson Fiber LH Leased
-  Level 3
-  Telia Carrier

These long haul fiber routes overlap.  
Zoomed in view below:



5/30/2017



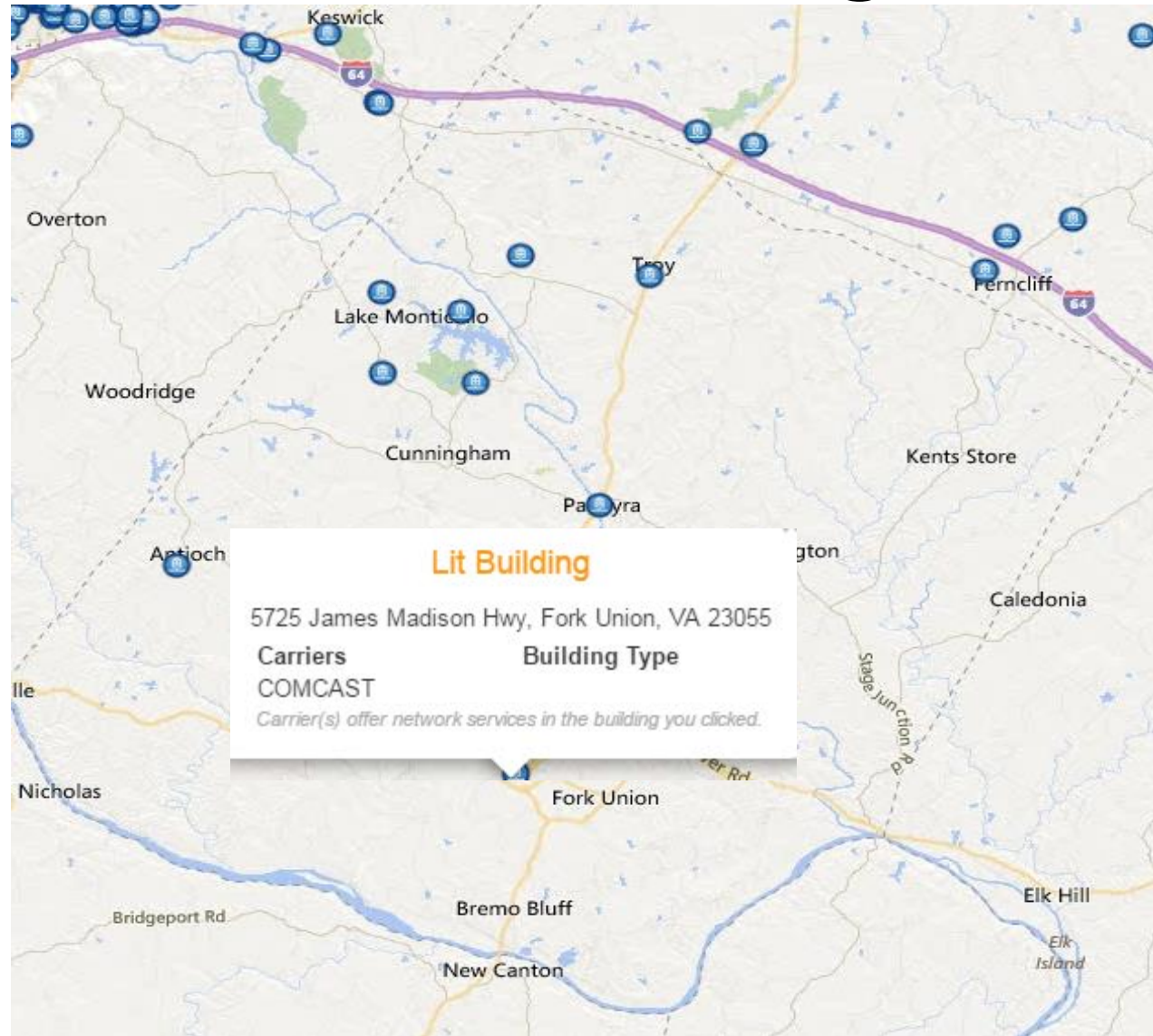
Prepared by CIT

38



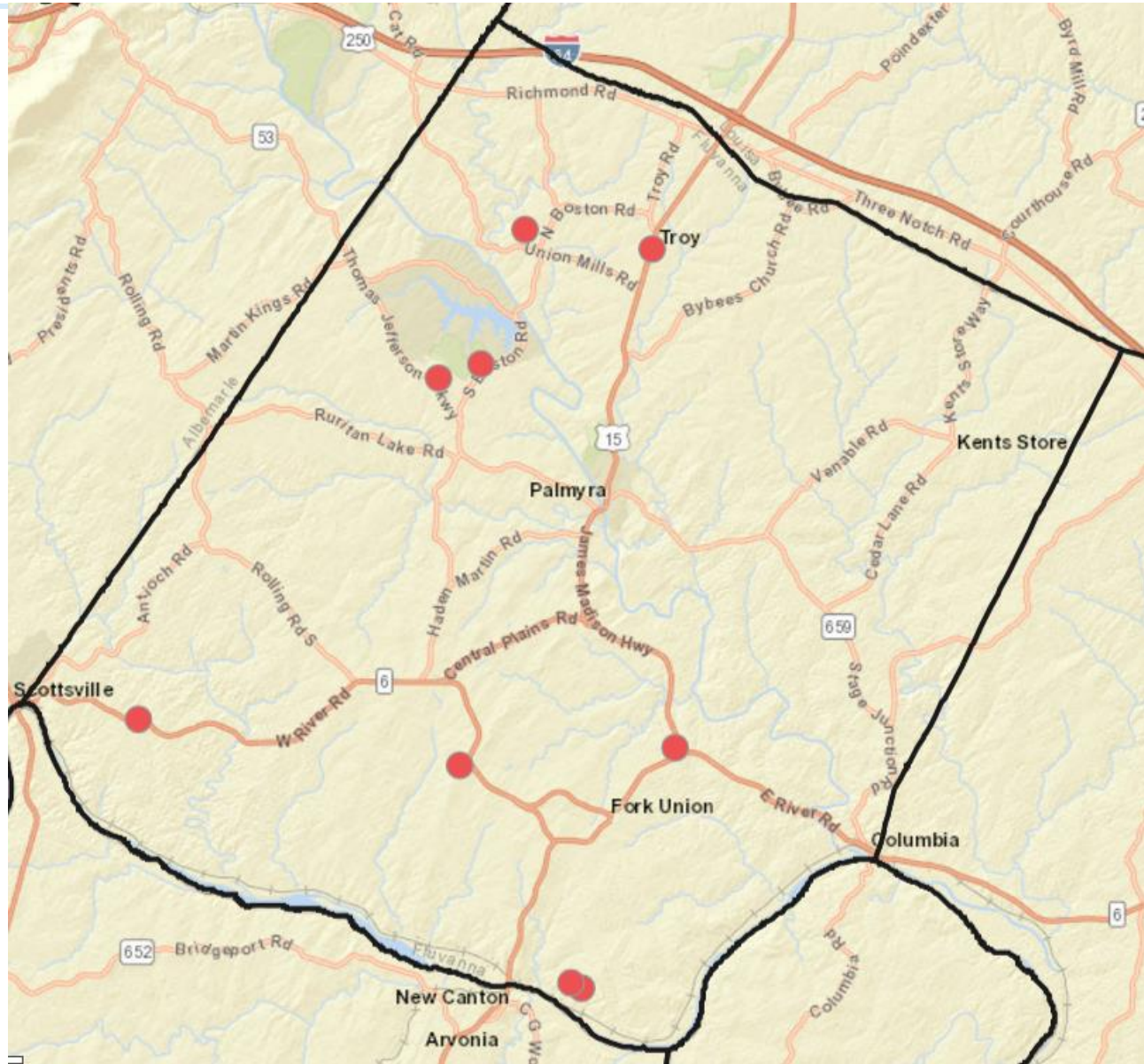
# Fluvanna Lit Buildings

Comcast does not provide their route information but we know they are in the county because they show up in lit buildings and report to the FCC.





# Vertical assets

● 'FCC: ASR'




# Vertical assets

 new water system at ZXR.


 Monopole at Abrams School


 'FCC: ASR'

Fluvanna Water tanks county owned


 Water Tank

Fluvanna Sites county owned


 E911

 Other


Fluvanna existing school board sites

 Monopole

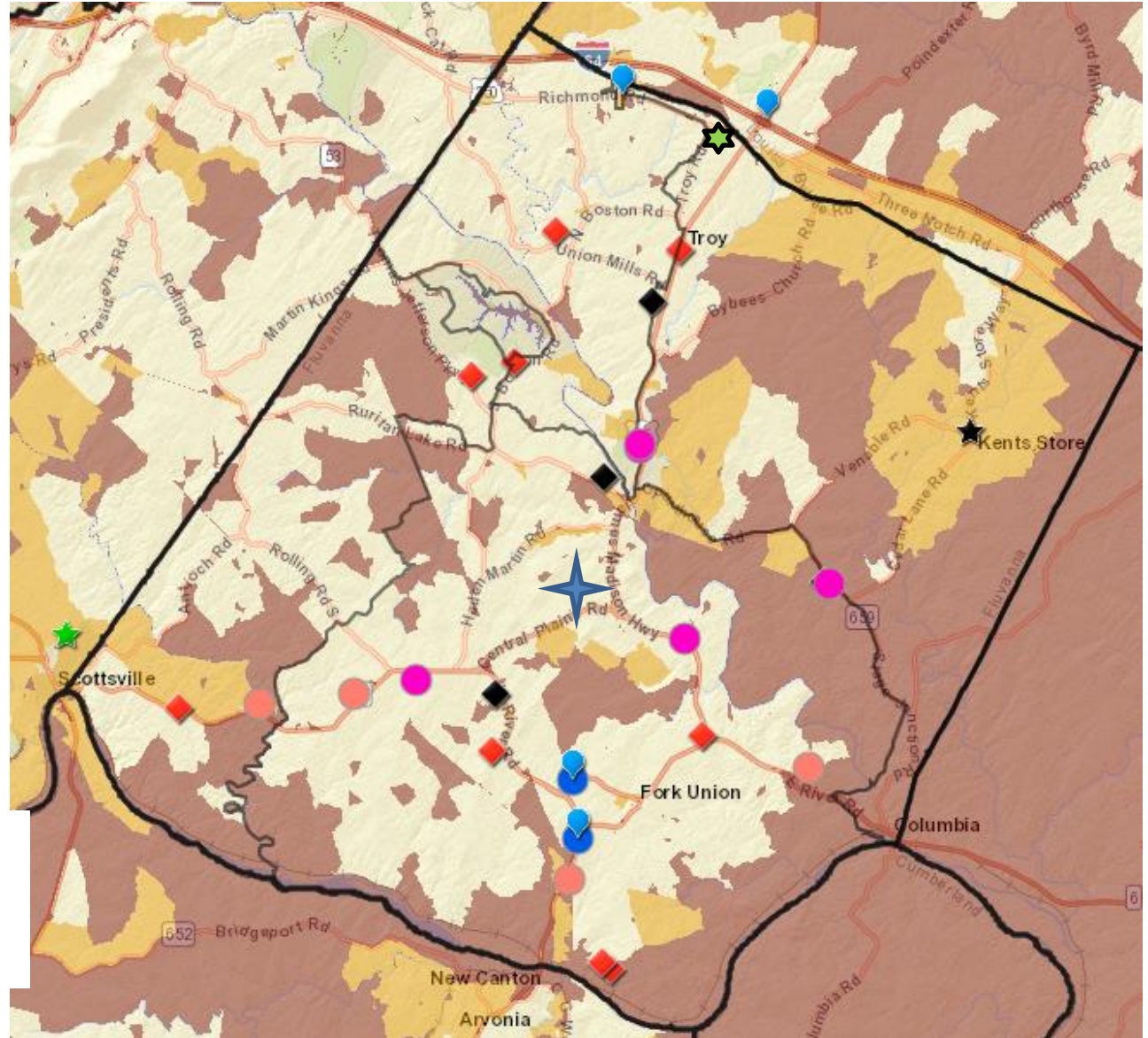
Fluvanna Approved Sites not built

 Monopole

Fluvanna WaterTanks Non-County Owned

 Water Tank

 E911

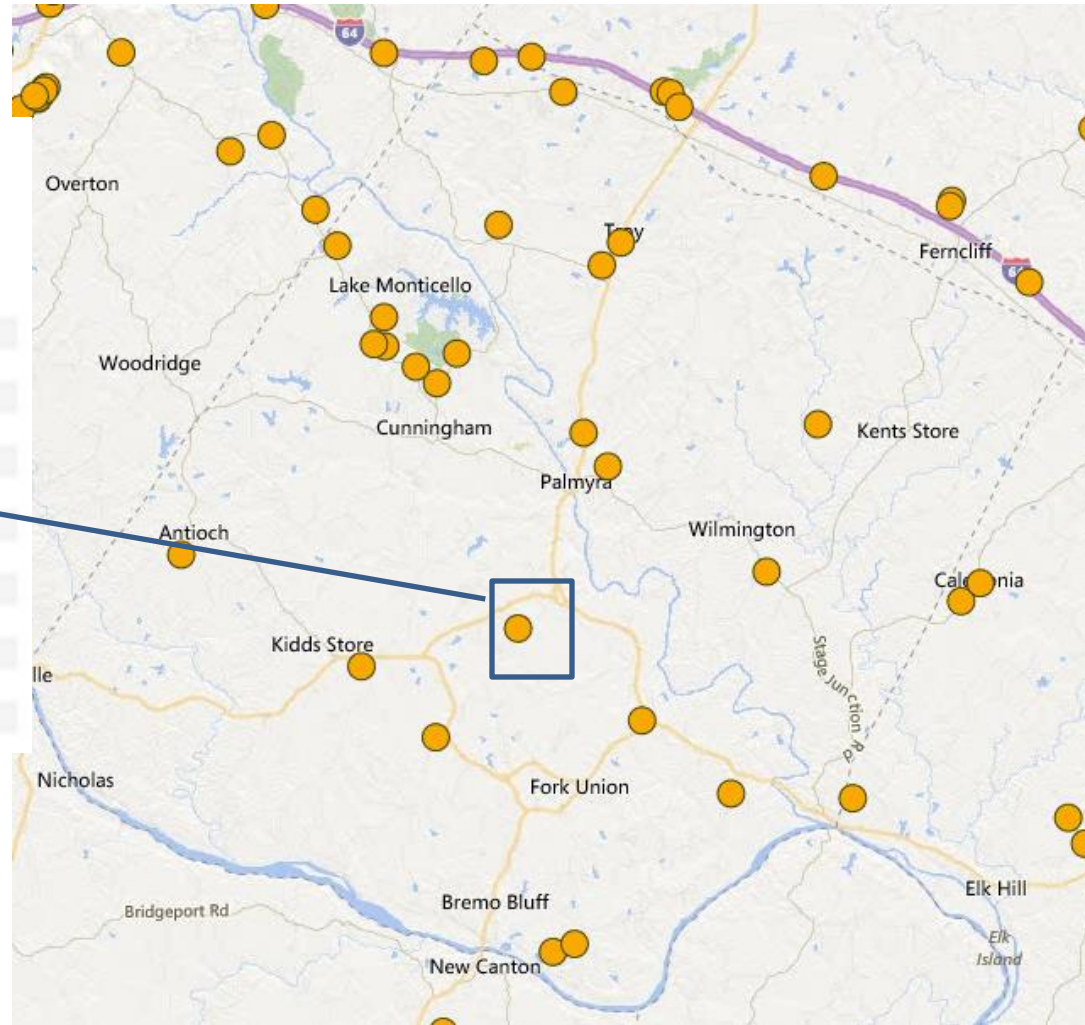


# Fluvanna Cell Towers

## Other Features

### Cell Towers

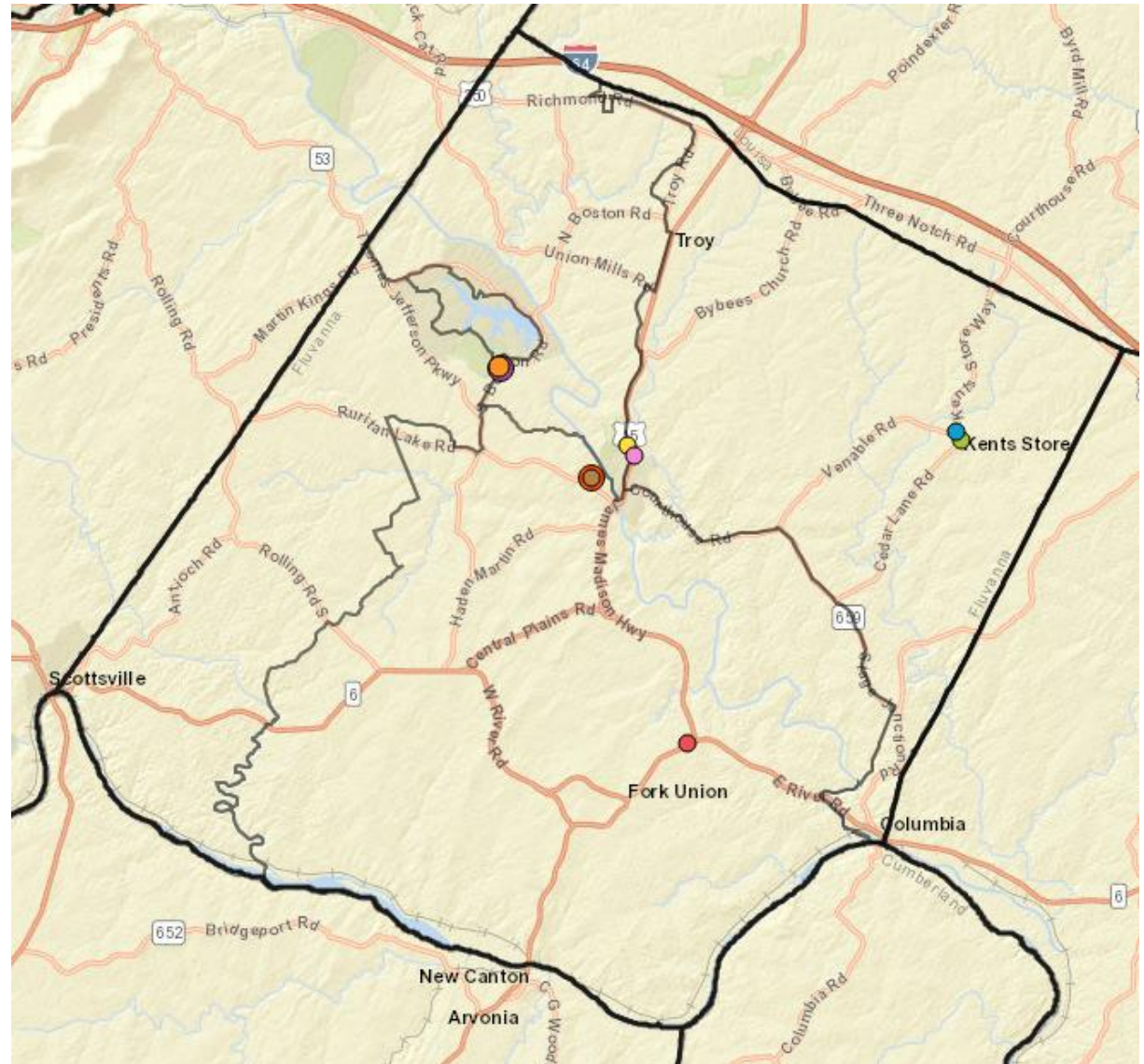
Address	2226 CENTRAL PLAIN RD, Palmyra, VA, 22963-4332
Owner	Verizon
Manager	
Site ID	99317
Site Name	PALMYRA VA
Asset Desc	
Asset Type	Monopole
Elev AMSL (ft)	186.8
Height AGL (ft)	33.5
ASR Number	
FAA Study Num	
Constructed Date	
Latitude	37.8131
Longitude	-78.2875



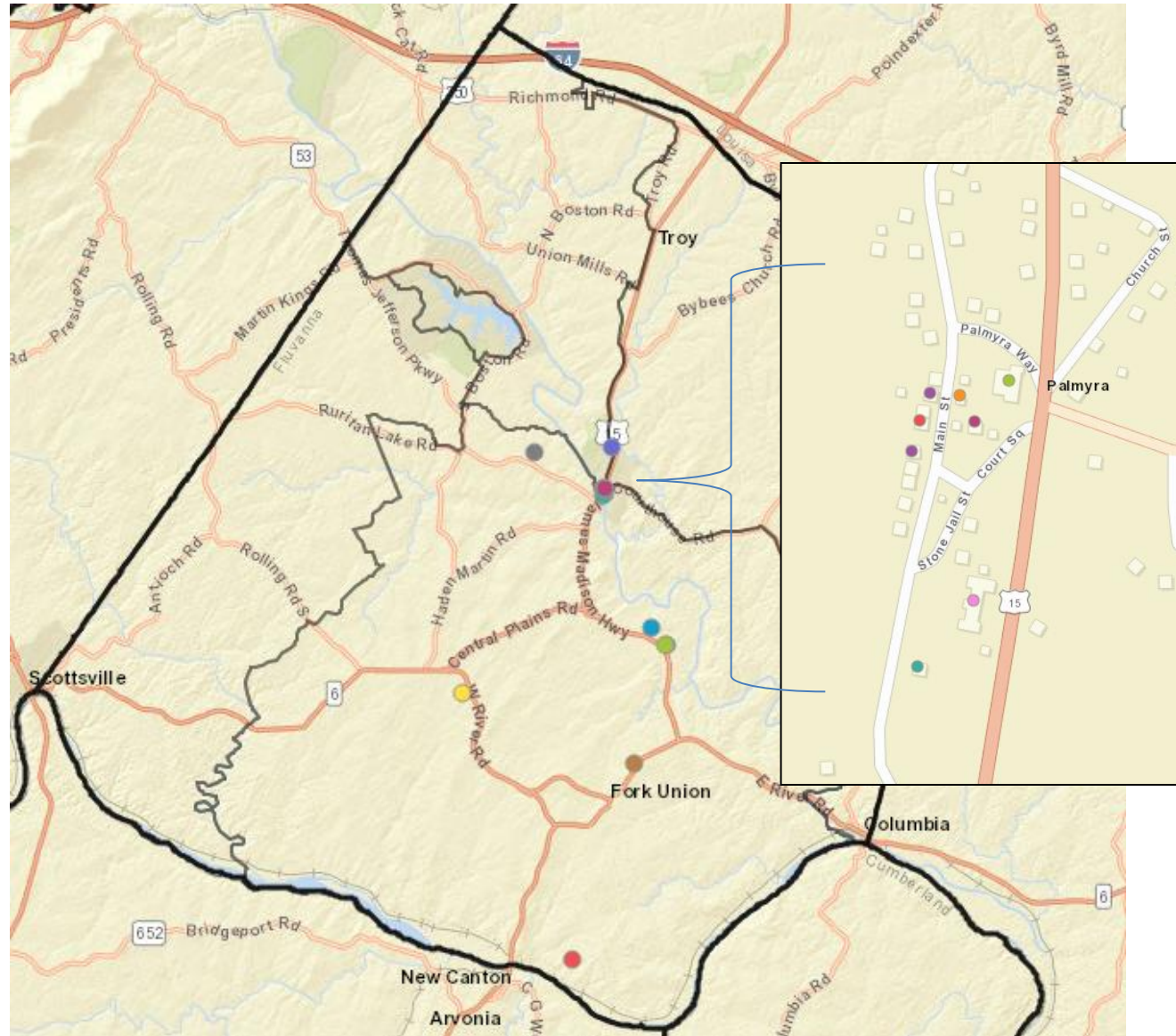
Verizon also does not provide route info but they have infrastructure, probably, feeding cell towers.

# Fluvanna County Public Safety

- Fork Union Fire Station
- Kents Store Fire
- Kents Store Rescue
- Lake Monticello Fire
- Lake Monticello Rescue
- Palmyra Fire Station
- Palmyra Rescue
- Sheriff's Office and EOC

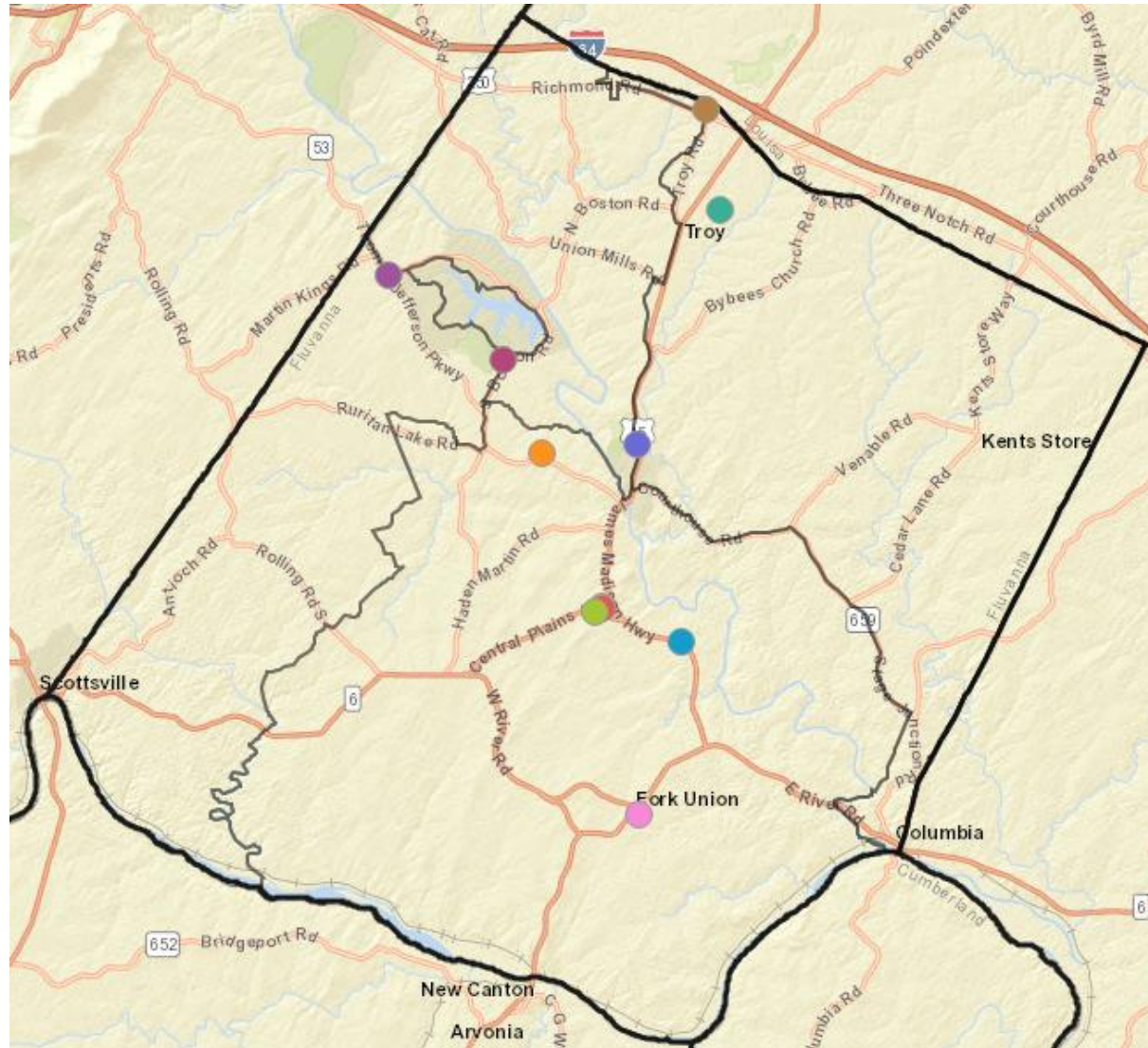


# Fluvanna County Government Facilities

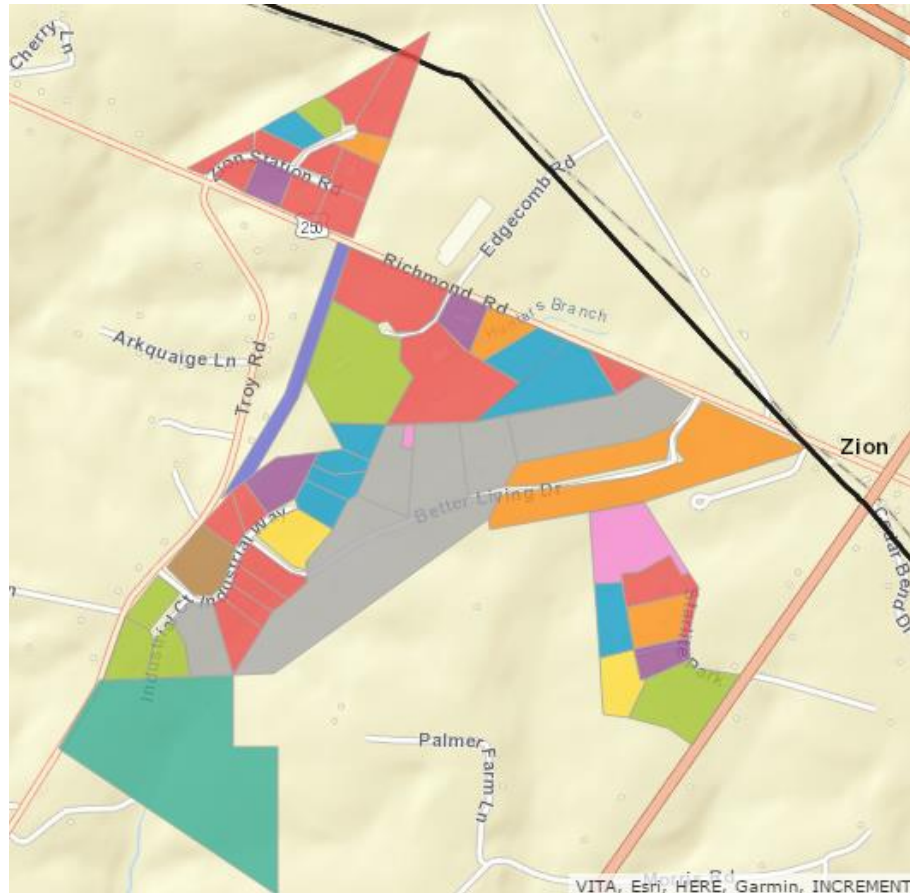


# Fluvanna County Schools

- Abrams Academy
- Carysbrook Elementary
- Central Elementary And West Central Primary
- Effort Christian School and Preschool
- Fluvanna County High School
- Fluvanna Middle School
- Fork Union Military Academy
- Lafayette School
- Open Door Church and Christian School
- School Board Administration Building
- The Light Academy



# Fluvanna County Business/Ind Parks



Lumos Fiber runs along Rt 250/Richmond Rd.

## Fluvanna Zion Station Ind Park

- JA-ZAN LLC
- 4933 RICHMOND ROAD LLC
- BAELLOW PROPERTIES LLC
- STONEGATE LAND HOLDINGS LLC
- TIGER FUEL CO

## Fluvanna Crossroads Better Living Ind Park

- CB ZCIP LLC
- MOLLEVILLE LAND TRUST
- BETHDAN LLC
- 4B LLC
- B PROPERTIES II LLC
- BUHL HALL LLC
- CEMETERY, PRIVATE
- GOLDEN HORSESHOE LLC
- HUNTERS BRANCH LLC
- MC CONNELL PROPERTIES LLC
- Other

## Fluvanna Satrlite Business Park

- 9MM INVESTMENTS LLC
- DANIEL REAL ESTATE LLC & LOW FLOATER
- MACON PROPERTIES LLC
- PT HOLDINGS LLC
- SAMISH ISL RE HOLDINGS LLC
- SERENITY PARTNERS LLC
- SHENANDOAH BLDING SUPPLY INC

## Fluvanna Hunters Branch Ind Park

- VB REAL ESTATE LLC
- BALLIF INVESTMENTS
- BROWNING-FERRIS INDUSTRIES
- VAN DER LINDE HOUSING INC
- VAN DER LINDE HOUSING, INC

## Fluvanna Zion Sta Prof Park

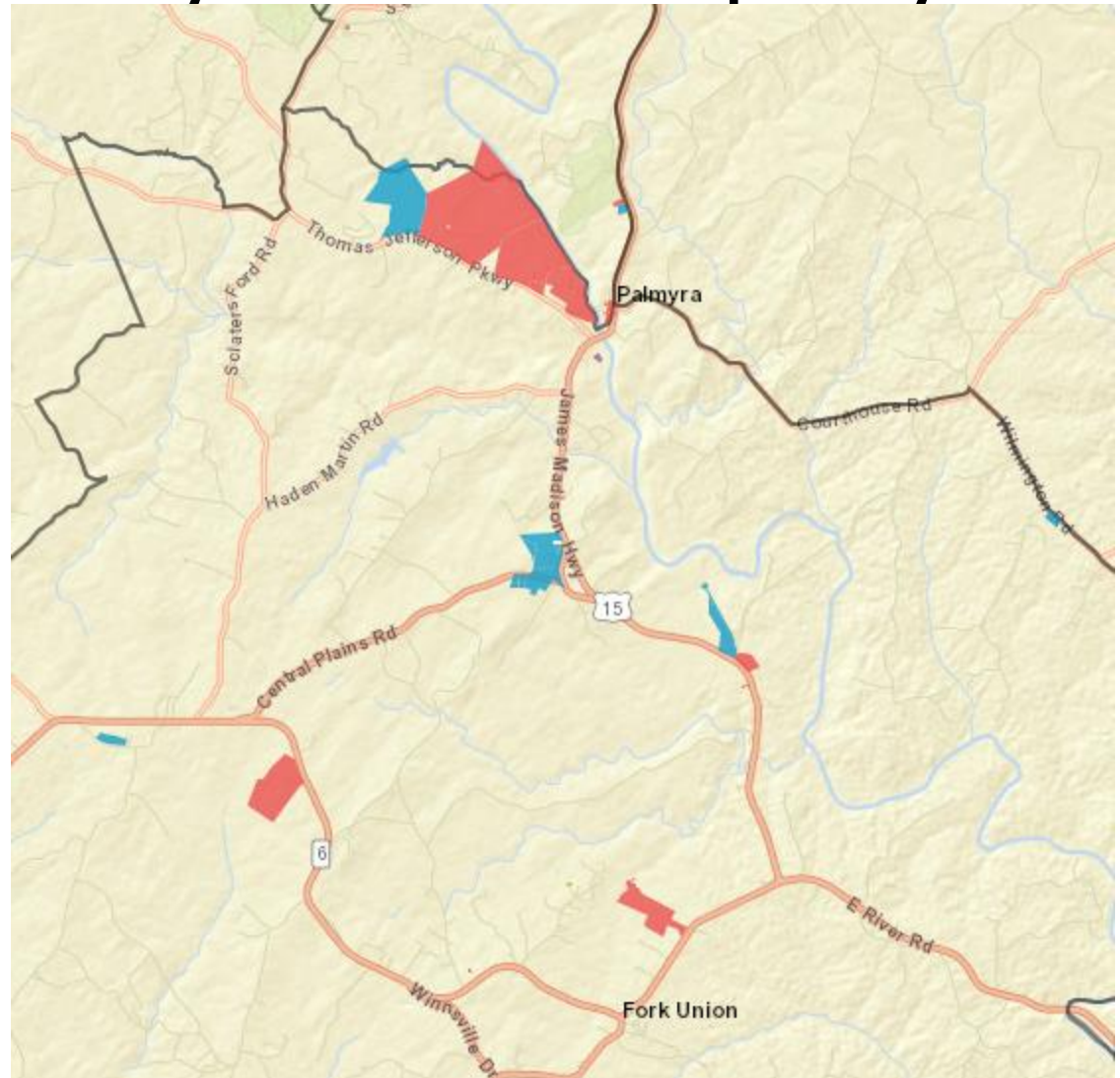
- BALLIF INVESTMENTS LLC
- ZION CROSSROADS LLC



# Fluvanna County Owned Property

Fluvanna county property

- FLUVANNA COUNTY
- FLUVANNA COUNTY SCHOOL BOARD
- FLUVANNA COUNTY BOARD OF SUPERVISOR
- COUNTY OF FLUVANNA
- FLUVANNA COUNTY BOARD



Affect the Broadband Economics

# **REVIEW OF LOCAL POLICIES & FEES**

# Make sure your policies and procedures are “Broadband Friendly”

**Review** comprehensive plans, community zoning regulations and process, policies, fees, etc. must **encourage and enable broadband investment.**

**Review** local franchise agreements for **setback or long-drop** policy. Long-drop policy information should be conveyed to all new homebuilders, and real estate developers.

**Adopt Dig Once:** Dig Once means less construction disruption, and costs for private providers—who may simply decide not to deploy in an area where the economics don’t work.

## Policy Considerations for Telecommunications Deployment

<https://www.wired.virginia.gov/sites/default/files/Telecom%20Deployment%20Policy%20Recs.pdf>

## Policy Assessment - Areas to Consider

[https://www.wired.virginia.gov/sites/default/files/Policy%20Assessment%20Tool%20Guide\\_0.pdf](https://www.wired.virginia.gov/sites/default/files/Policy%20Assessment%20Tool%20Guide_0.pdf)

## Policy Assessment worksheet:

<https://www.wired.virginia.gov/sites/default/files/Policy-Assessment-Tool.xlsx>

## Google Fiber Checklist:

<https://fiber.storage.googleapis.com/legal/googlefibercitychecklist2-24-14.pdf>

***Remember: to make it “cheap, quick & easy”***

# County Local Policies

*The following policies may not represent a comprehensive list of potential local Internet related policies. All local Internet related policies should be reviewed with potential partners and adjusted as necessary to explore incentives and identify barriers to broadband expansion*

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## Fluvanna not in Municode

Fluvanna adopted the Public-Private Education and Infrastructure Act of 2002 (PPEA) on May 5th, 2012. (according to Eric M. Dahl, Deputy County Administrator/Director of Finance

*Based on assessment, national goals, etc – include options to meet goals*

Assessment Based

# **COMMUNITY BROADBAND NEEDS**

# Needs Identified

- **Technology Adoption and Usage**
  - 17% of population are seniors,
  - 15% of population have educational deficiencies,
  - 13% of population have a disability,
  - 21% of population have incomes <30K

These populations may be less likely to subscribe to new services and/or have affordability challenges.

- **Recommendation:** Promote digital literacy / computer classes at library.
- **Recommendation:** Consider a computer refurb/donation program such as Virginia Star - a state-wide Student Training and Refurbishment program; <http://vostar.org/>

# Needs Identified (cont'd)

## Demand

### – Residential

- 61% of respondents report their Internet service is inadequate
  - **22% of those depend cellular, satellite or dial-up**
- 15% have NO Internet access at all
- 19% of school aged children have no Internet at home.
- 28% of respondents would work from home if they had better access

**OPTION: Expand access and capacity to residents, particularly in Fort Union, Columbia and Cunningham voting districts.**

### – Businesses

- 76 % of business owners report their Internet service is inadequate
- 21% (of all respondents) have home based businesses
- 33% of businesses have NO Internet access available

**OPTION: Expand access and capacity to businesses**

### – Most Desired Online Activities

- The ability to transmit large data files, work from home, video, education, and healthcare applications

# Needs Identified (Cont'd)

## Local Government

- Paying \$3,270.93 per month, \$39,251.16 per year for communication services from Comcast, CenturyLink, Verizon
  - ~\$29 per Mb Comcast fiber
  - ~\$22 per Mb CenturyLink DSL (**Library paying \$19 per Mb fiber**)
  - ~\$8 per Mb Comcast cable
  - ~\$8 per Mb Verizon MiFi

Some county facilities are in un/underserved areas

**OPTION – Expand access and capacity to Wastewater Plant, Fluvanna Courthouse(s)**

## Public Safety

- Kent Store Fire/Rescue are in reported underserved areas

**OPTION – Expand access and capacity to Kent Store Fire/Rescue**



# Needs Identified (Cont'd)

## Schools

**From Education Superhighway/USAC and The National Center for Education Statistics :**

**✘ 5 Schools – some schools not on fiber!**

- Total IA purchased; 700 Mbps from CenturyLink
    - Total Monthly Cost: \$2,815
    - \$4.02 per Mb
  - Total WAN purchased; 650 Mbps from CenturyLink and Conterra
    - Total monthly cost: \$5,761,
    - \$8.56 per Mb > twice as much as IA
- OPTION – most expense on WAN – build your own and include dark strans – leverage Erate. Need to own that fiber (form an authority)**
- ✓ 194 kbps per student (3,612 students)
    - **Well above national recommendation of 100 kbps per student**

School system paying >\$16K per month, ~\$196K per year on communications – including voice services.

# Needs Identified (Cont'd)

## Libraries

- ✓ 100 Mb fiber connection from Centurylink. \$1,953. per month. Month-to-month contract.
- ✓ \$19.53 per Mb.
  - National recommendation of 100 Mbps for libraries serving communities of 50,000 or less. (Fluvanna Co. pop ~25,945)
- ✓ Public computers, workforce development and computer literacy training classes are available at library.



# Potential Funding



<https://www.wired.virginia.gov/broadband/resources>

Look Under Funding Options



E-Rate: February 3 - May 26 (Schools) or July 21 (Libraries and Consortia)

Lifeline Support <http://www.lifelinesupport.org/ls/changes-to-lifeline.aspx> - Open all year

**NOW** USDA accepting applications for the [Community Connect Grant Program](#) for FY 2017. These grants may be used to provide broadband service in unserved, lower-income and extremely rural areas.

**NOW** USDA Distance Learning and Telemedicine Program (DLT)  
[http://www.rurdev.usda.gov/UTP\\_DLT.html](http://www.rurdev.usda.gov/UTP_DLT.html) Applications due July 17th 2017.

USDA Telecommunications Infrastructure Loans & Loan Guarantees  
<http://www.rd.usda.gov/programs-services/farm-bill-broadband-loans-loan-guarantees> **NOTE:**  
These loans are for local incumbent providers. Open annually around April

USDA Distance Learning and Telemedicine Program (DLT)  
[http://www.rurdev.usda.gov/UTP\\_DLT.html](http://www.rurdev.usda.gov/UTP_DLT.html) - The application window is announced annually

**NOW** USAC Healthcare Connect Fund Program  
<http://www.usac.org/rhc/healthcare-connect/default.aspx> - Filing Window : Mar 1 – June 30, 2017

DHCD VCI/VTI - <http://www.dhcd.virginia.gov/> - TBA

# Next Steps

- Identify and Prioritize Goals Based on Needs (slides 52-56)
  - Assessment findings need to be conveyed to the BoS.
  - Committee passes their recommendations to BoS, or leaves the decisions to the BoS.
- Determine the role the local government will assume in achieving the goals
  - Review CIT Partnership Models Handout
  - Decision need to be adopted by the COUNTY – Complete and return Decision Points document to CIT.
- CIT will prepare the Requirements Document and Draft RFP
  - CIT will formally document chosen goals, role, assets to be shared, local considerations etc. to include in RFP
- Seek private partner(s)
  - The County will publish the RFP, evaluate responses and choose partner(s)

# Questions? Comments?



## Contact Information

Jean Plymale, Broadband Project Manager

[Jean.plymale@cit.org](mailto:Jean.plymale@cit.org)

540-250-2751



# Broadband Funding Opportunities



Opportunity	Brief Description	Application Timeline
Community Development Block Grant Planning Grant <a href="http://www.dhcd.virginia.gov/index.php/community-partnerships-dhcd/79-community-development-block-grant-cdbg-planning-grant.html">http://www.dhcd.virginia.gov/index.php/community-partnerships-dhcd/79-community-development-block-grant-cdbg-planning-grant.html</a>	Funds available for 3 areas: planning grants, local innovation grants, implementation and economic development, and large scale local level projects ~ 700K.	January - September
Virginia Telecommunication Initiative <a href="http://www.dhcd.virginia.gov/">http://www.dhcd.virginia.gov/</a> Eligible applicants: Towns, cities, Counties, EDA/IDA, Broadband/wireless authorities, PDC, etc.)	To provide financial assistance to supplement construction costs by private sector providers to extend services to areas that are presently unserved by any broadband provider. Definition of unserved; speeds <= 10 Mbps/1 Mbps	Fall
The Vibrant Community Initiative (VCI) <a href="http://www.dhcd.virginia.gov/index.php/community-partnerships-dhcd/vibrant-community-initiative.html">http://www.dhcd.virginia.gov/index.php/community-partnerships-dhcd/vibrant-community-initiative.html</a>	The Vibrant Community Initiative (VCI) will combine multiple funding sources from the Virginia Department of Housing and Community Development (DHCD) to support local or regional comprehensive community-based projects including affordable housing and community and/or economic development components.	Fall
Indian Community Development Block Grant <a href="http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/icdbg">http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/icdbg</a>	Provides funds to eligible grantees for housing rehabilitation, land acquisition, community facilities, infrastructure construction, and economic development activities. Eligible applicants for assistance include any Indian tribe, band, group, or nation.	Winter
Indian Housing Block Grant (IHBG) program <a href="http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/ihbg">http://portal.hud.gov/hudportal/HUD?src=/program_offices/public_indian_housing/ih/grants/ihbg</a>	The provision of broadband is eligible under this program. Eligible IHBG recipients are Federally recognized Indian tribes or their tribally designated housing entity (TDHE), and a limited number of state recognized tribes who were funded under the Indian Housing Program authorized by the United States Housing Act of 1937 (USHA).	Winter
Native American Library Services	Basic Grants are available to support existing	Spring

# Broadband Funding Opportunities



Opportunity	Brief Description	Application Timeline
<a href="https://www.ims.gov/nofo/native-american-library-services-basic-grants-fy16-notice-funding-opportunity">https://www.ims.gov/nofo/native-american-library-services-basic-grants-fy16-notice-funding-opportunity</a>	library operations and to maintain core library services. Indian tribes, Alaska native villages, regional corporations, and village corporations are eligible to apply for funding under the Native American Library Services grant program. The Education/Assessment Option is supplemental to the Basic Grants.	
Appalachian Regional Commission (ARC) -Area Development <a href="http://www.arc.gov/funding/ARCProjectGrants.asp">http://www.arc.gov/funding/ARCProjectGrants.asp</a>	ARC funds are made available under the Appalachian Area Development Program.	Summer-Fall
USDA Distance Learning and Telemedicine Program (DLT) <a href="http://www.rurdev.usda.gov/UTP_DLT.html">http://www.rurdev.usda.gov/UTP_DLT.html</a>  Tribal eligibility	The Distance Learning and Telemedicine program helps rural communities use the unique capabilities of telecommunications to connect to each other and to the world, overcoming the effects of remoteness and low population density. 15% match required.	Winter
e-Rate Funding for Schools & Libraries <a href="http://www.fcc.gov/encyclopedia/e-rate-schools-libraries-usf-program">http://www.fcc.gov/encyclopedia/e-rate-schools-libraries-usf-program</a>	The schools and libraries universal service support program, commonly known as the E-rate program, helps schools and libraries to obtain affordable broadband.	Winter-Spring
US Department of Education - Promise Neighborhoods Competition. <a href="http://www2.ed.gov/programs/promiseneighborhoods/index.html">http://www2.ed.gov/programs/promiseneighborhoods/index.html</a>	Promise Neighborhoods, established under the legislative authority of the Fund for the Improvement of Education Program (FIE), provides funding to support eligible entities, including (1) nonprofit organizations, which may include faith-based nonprofit organizations, (2) institutions of higher education, and (3) Indian tribes.	Fall
Rural Health Care <a href="http://www.usac.org/rhc/healthcare-connect/funding-information/default.aspx">http://www.usac.org/rhc/healthcare-connect/funding-information/default.aspx</a>	Healthcare Connect Fund to reform, expands, and modernizes the Rural Health Care Program. The Healthcare Connect Fund provides support for high-capacity broadband connectivity to eligible health care providers (HCPs) and encourages the	Summer



# Broadband Funding Opportunities



Opportunity	Brief Description	Application Timeline
	formation of state and regional broadband HCP networks.	
<p>USDA Farm Bill Broadband Loan Program  <a href="https://agriculture.house.gov/bill/agricultural-act-2014">https://agriculture.house.gov/bill/agricultural-act-2014</a></p> <p>Falls under Substantially Underserved Trust Areas (SUTA) Provisions - These provisions allow the RUS Administrator to provide special consideration—including but not limited to lower interest rates and extended loan terms—to projects serving tribal lands.</p>	<p>To be eligible for a broadband loan, an applicant may be either a non-profit or for-profit organization, and must take one of the following forms:</p> <ul style="list-style-type: none"> <li>• Corporation;</li> <li>• Limited liability company (LLC);</li> <li>• Cooperative or mutual organization;</li> <li>• A state or local unit of government</li> <li>• Indian tribe or tribal organization</li> </ul> <p>Individuals and Partnerships are not Eligible.</p>	Spring-Summer
<p>USDA Telecommunications Infrastructure Loans &amp; Loan Guarantees  <a href="http://www.rd.usda.gov/programs-services/farm-bill-broadband-loans-loan-guarantees">http://www.rd.usda.gov/programs-services/farm-bill-broadband-loans-loan-guarantees</a></p> <p>Falls under Substantially Underserved Trust Areas (SUTA) Provisions - These provisions allow the RUS Administrator to provide special consideration—including but not limited to lower interest rates and extended loan terms—to projects serving tribal lands.</p>	<p>The Rural Broadband Access Loan and Loan Guarantee Program (Broadband Program) furnishes loans and loan guarantees to provide funds for the costs of construction, improvement, or acquisition of facilities and equipment needed to provide service at the broadband lending speed in eligible rural areas. These loans are for local incumbent providers.</p>	Spring-Summer
<p>USDA Community Connect Grant program  <a href="http://www.rd.usda.gov/programs-services/community-connect-grants">http://www.rd.usda.gov/programs-services/community-connect-grants</a></p> <p>Eligible applicants include:                      Most State and local governments                      Federally-recognized Tribes                      Non-profits                      For-profit corporations</p>	<p>This program helps fund broadband deployment into rural communities where it is not yet economically viable for private sector providers to deliver service. Eligible area include rural areas that lack any existing broadband speed of at least 4 Mbps downstream and 1 Mbps upstream is eligible.</p>	Annual NOFA or NOSA announcement, no specific time of year. Best to sign up for email alerts at: <a href="http://www.rd.usda.gov/programs-services/community-connect-grants">http://www.rd.usda.gov/programs-services/community-connect-grants</a>
<p>Virginia Resources Authority  <a href="http://www.virginiaresources.org/page/virginia-">http://www.virginiaresources.org/page/virginia-</a></p>	<p>VRA provides financing to local governments for essential projects. All VRA's authorized project</p>	Summer-Fall

# Broadband Funding Opportunities



Opportunity	Brief Description	Application Timeline
<a href="#">pooled-financing-program/</a>	areas are eligible for financing in the Virginia Pooled Financing Program (VPFP). Since inception in 2003, over 100 local governments in Virginia have utilized this program to finance or refinance over \$2 billion in infrastructure projects.	
FCC Connect America Fund (High Cost Areas) <a href="https://www.fcc.gov/general/connect-america-fund-caf">https://www.fcc.gov/general/connect-america-fund-caf</a>	Provider funding for FCC eligible areas only. Eligible areas map: <a href="https://www.fcc.gov/reports-research/maps/connect-america-phase-ii-initial-eligible-areas-map/">https://www.fcc.gov/reports-research/maps/connect-america-phase-ii-initial-eligible-areas-map/</a>	NA
Department of Commerce’s Economic Development Administration (EDA) PLANNING PROGRAM AND LOCAL TECHNICAL ASSISTANCE PROGRAM - FY 2016 – FY 2019 <a href="https://www.eda.gov/funding-opportunities/">https://www.eda.gov/funding-opportunities/</a>	The Planning program helps support organizations, including District Organizations, Indian Tribes, and other eligible recipients, with Short Term and State Planning investments designed to guide the eventual creation and retention of high-quality jobs, particularly for the unemployed and underemployed in the Nation’s most economically distressed regions.	Applications are accepted on a continuing basis and processed as received.
Department of Commerce’s Economic Development Administration (EDA) Public Works and Economic Adjustment Assistance programs. <a href="http://www.grants.gov/web/grants/view-opportunity.html?oppld=279842">http://www.grants.gov/web/grants/view-opportunity.html?oppld=279842</a>	Multiple programs. Grants made under these programs will leverage regional assets to support the implementation of regional economic development strategies designed to create jobs, leverage private capital, encourage economic development, and strengthen America's ability to compete in the global marketplace. Through the EDAP FFO, EDA solicits applications from rural and urban communities to develop initiatives that advance new ideas and creative approaches to address rapidly evolving economic conditions.	There are no submission deadlines under this opportunity. Proposals and applications will be accepted on an ongoing basis.
Virginia Tobacco Indemnification and Community Revitalization Commission <a href="http://www.tic.virginia.gov/overview.shtml">http://www.tic.virginia.gov/overview.shtml</a>	Broadband project eligible for 2 different categories: Southside or Southwest Economic Development funds. The Commission staff reviews applications for feasibility and the potential to positively impact the regional economic base, then	Grant application cycles are announced annually.

# Broadband Funding Opportunities



Opportunity	Brief Description	Application Timeline
	<p>provides recommendations to the Commissioners serving on the respective program Committee. Committee recommendations are determined in public meetings and are then forwarded to the full Commission for final action at one of its quarterly meetings.</p>	
<p>FCC Mobility Fund Phase II  <a href="https://www.fcc.gov/mobility-fund-phase-2">https://www.fcc.gov/mobility-fund-phase-2</a></p>	<p>The Mobility Fund is the wireless component of the Connect America Fund. It provides support for the expansion of mobile broadband networks in areas that might otherwise not be served. The Mobility Fund consists of two phases. Phase I provides immediate one-time support to accelerate the deployment of mobile broadband and voice service to unserved areas. A nationwide reverse auction held in September 2012 awarded \$300 million of Phase I funds to over 30 service providers. A separate auction, called the Tribal Mobility Auction, will award up to \$50 million to providers that serve Tribal lands. Phase II provides ongoing support to deploy and maintain mobile broadband and voice service in high-cost areas. Up to \$500 million will be available every year; however, the FCC is studying the exact amount to be allocated for services on Tribal lands in future years.</p>	<p>Not yet active.</p>

# Broadband Funding Opportunities



Opportunity	Brief Description	Application Timeline
<p>Lifeline Support <a href="http://www.lifelinesupport.org/lis/changes-to-lifeline.aspx">http://www.lifelinesupport.org/lis/changes-to-lifeline.aspx</a></p>	<p>After December 2, 2016, you will be able to apply your monthly Lifeline discount towards internet service. If you would like to switch to an internet plan, ask your telephone company or internet provider if a Lifeline Program cell phone data plan or home internet service is available in your area. For a list of companies in Virginia: <a href="http://www.lifelinesupport.org/lis/companies/CompanyListing.aspx?state=VA&amp;stateName=Virginia">http://www.lifelinesupport.org/lis/companies/CompanyListing.aspx?state=VA&amp;stateName=Virginia</a></p>	<p>This program is open year-round.</p>

# Fluvanna County Decision Points

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The following three steps highlight the **decisions Fluvanna County needs to make to stipulate their broadband goals, desired role in public private partnerships and how the County will facilitate partner expansions.** Once the County completes the following three steps, please return this document to us (completed with number/checks) and CIT will combine these decisions and information from the assessment to prepare the County's broadband requirements included in a draft conceptual phase RFP. The draft RFP will be provided for the County to set target dates, complete contact information and ensure the RFP meets the County's procurement policy. CIT is happy to distribute the RFP once the County is ready to publish it.

## Step 1: Adopt and Prioritize Broadband Goals

The needs listed below were identified from your community assessment. Select and prioritize those the County will adopt as goals moving forward with a broadband expansion plan. Feel free to add any other goals the County wants to include in this list. Please note priority by placing a number beside those needs you adopt as goals.

**#1** Expand access and capacity for residents that have no access or need other options. According to the Fluvanna survey data:

- 61% of respondents report their Internet service is inadequate
- 22% of those depend on inadequate and/or expensive services,
- 15% have NO Internet access at all,
- 19% of school aged children have no Internet at home,
- 28% of respondents would work from home if they had better access
- 53% of respondents report school-aged children, 10% of those are home schooled. 19% of K-12 students do not have Internet at home.
- 30% of respondents would work from home if they could.

Specific residential priorities areas include, but not limited to:

- **Fort Union voting district** around East River Road region, Shiloh Road Region, Haden Martin Rd, Sclaters Ford Rd.
- **Columbia voting district** around Stage Junction Road, west of Venable Rd
- **Cunningham voting district** around West River Road, Beals Ln, Rolling Rd, Antioch Rd, Branch Road region, SW of Rt 53.
- **Palmyra voting district** north of Lake Monticello Road, Broken Island Road area.
- **Rivanna voting district:** A number of residents around Lake Monticello report inadequate cable. **Cable segments may be exhausted, may need fiber upgrades.**

**#2** Expand access and capacity to Public Safety facilities. Some public safety facilities are in designated underserved areas, specifically:

- Kent Store Fire/Rescue is within an underserved area.

**#3** Expand access and capacity to businesses that have no access or need other options. According to the Fluvanna survey data:

# Fluvanna County Decision Points

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- 76 % of business owners report their Internet service is inadequate
- 21% (of all respondents) have home based businesses
- 33% of businesses have NO Internet access available

Specific priority areas include, but are not limited to:

- **Cunningham voting district:** around Rolling Rd and Antioch Rd,
- **Fort Union voting district:** around Haden Martin Rd, Sclaters Ford Rd, and the Brema Bluff area.
- **Rivanna voting district:** A number of businesses around Lake Monticello report inadequate cable. **Cable segments may be exhausted, may need fiber upgrades.**

**#4** Expand access and capacity to Government facilities. Some county facilities are in designated underserved areas, specifically:

- Wastewater Plant

**#5** Promote computer literacy classes at libraries, YMCA, community and senior centers for the populations that may be slow to adopt technology or need special equipment.

- 13% of population have a disability,
- 15% of population is educationally challenged,
- 17% of population are seniors

**#6** Consider a computer refurb/donation program for households with affordability challenges.

- 17% of population are seniors,
- 21% of population have incomes <30K

## Step 2: Determine the Desired Role of the County in Partnerships

Determine the role and partnership model that works best for Fluvanna County. Select one from the partnership models listed below (**Place a check mark beside desired role**):

**Locality Shares Assets Only**

Some localities do not have the resources (people or money) to bring to a partnership. However, all localities have assets (towers, land, rooftops). In these types of partnerships, the locality agrees to share assets and even provide the private partner some “anchor” tenants on their network – government facilities or fire/rescue stations that would buy service (or receive service in exchange for sharing assets) from the private partner’s network. This ensures the private provider recurring revenue – or customers that will not go away (residential and small businesses can come and go). Sharing assets lowers the deployment cost (capital investment) of the private provider which expedites deployment and helps make the business case for the less populated areas.

**Locality Covers Capital Investment**

Some localities prefer to make all the capital investments – funding towers, head-end Internet service (the connection that provides the bandwidth to the network and connects to the world), and wireless equipment. The private partner brings their expertise to the table – design, deploy, maintain and operate the network. The private

# Fluvanna County Decision Points

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partner would also provide the people resources to support end customers (setting up the connection, billing, etc.). In these models there is a revenue share and typically on a sliding scale – providing more of the revenue to the locality in the early years to reimburse them for the capital investment and then shifts to the private partner in the later years to offset their overhead expenses. The locality owns the network and contracts the private partner to run it.

## ✓ **Locality Invests Some Capital**

This model would be a blend of the previous two. The locality may share assets and may invest some capital to offset the initial costs of the network – maybe cover the costs of a new tower (or more) and/or some fiber deployment. The locality may arrange to recoup this investment by obtaining Internet services to county/city facilities, leasing space on the tower/fiber to other entities (ensuring there is no interference). The locality may purchase Internet service from the network and pay for years in advance – providing the private partner additional capital to help offset their initial investment. The private partner would fund the wireless equipment, customer premise equipment and all costs to deploy, maintain and operate the network. There would be no revenue sharing.

## **Step 3: Specify What the County will Share/Invest**

Anything Fluvanna County can offer a potential provider(s) in the form of incentives, such as rights-of-way, pole attachments, easements, permits, or facilities can shorten future deployment time and make a project more attractive to potential providers.

The following County assets as identified in the assessment should be considered for commitment to any future broadband partnership. **Please place a check mark beside the items the County is willing to commit to partners.**

- ✓ Space on vertical assets – existing towers, silos, water tanks, buildings etc.
  - The county is willing to share space on:
    - Two (2) county owned water tanks; Gold Mine Rd and Bremono Bluff,
    - One (1) water tank build is pending approval Zion Station Crossroads.
    - The county school system is willing to share space on the monopole at Abrams School.
  - Reduce or suspend leases on county or municipality owned towers for potential provider(s).
- ✓ Share space for towers, network equipment or poles.
  - Sharing space at fire stations/rescue buildings for small towers or poles
  - Space on or in county owned property for tower construction, location of points of presence, networking equipment etc.
- X Waive local fees for permitting and construction of any broadband infrastructure deployed by the private partner(s).

# Fluvanna County Decision Points

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- ✓ Assist with project marketing and/or public relations leveraging County media relationships, direct mailings to constituents and social media.
- ✓ Leverage county relationships with local utilities, carrier-grade construction companies, and educational facilities etc., to help facilitate future deployments.
  - Fluvanna is in the CVEC/SCS broadband buildout footprint.
- ✓ Provide a single-point-of-contact for any permitting for broadband infrastructure construction by the private partner(s).
- ✓ Leverage ongoing or pending capital projects, such as water, road construction, main street revitalization, new sub-divisions, fiber builds etc.
  - County Water project (underway now)
  - School fiber build - pending
  - There are 5 commercial tower sites approved but not yet built;
- ✓ Provide possible assistance with deployment costs depending on available County funds.
- ✓ Pursue any federal or state broadband funding opportunities to help offset the costs of broadband access and capacity expansion.
- ✓ Provide anchor tenants to any private partner(s)' broadband networks to provide recurring revenue source. The service provided to county facilities must be equal or better than current pricing and quality of service that provides the required bandwidth to support those County functions.

\*\*According to the Fluvanna County Connections Information Request:

- Local government facilities - **month-to-month contracts.**
- Library - **month-to-month contract.**
- Schools:
  - Abrams data center point to point leased connection between the HS and Abrams – **contract expires 06/30/19**
  - Abrams to SBO, Carysbrook and Central - **contract expires 10/31/19**
  - ISDN-PRI - 1 HS and 1 MS - **contract expires 06/30/17**
  - Cellular (Verizon), Local Long Distance voice (CenturyLink) – **month-to-month contracts**





charlottesville  
area

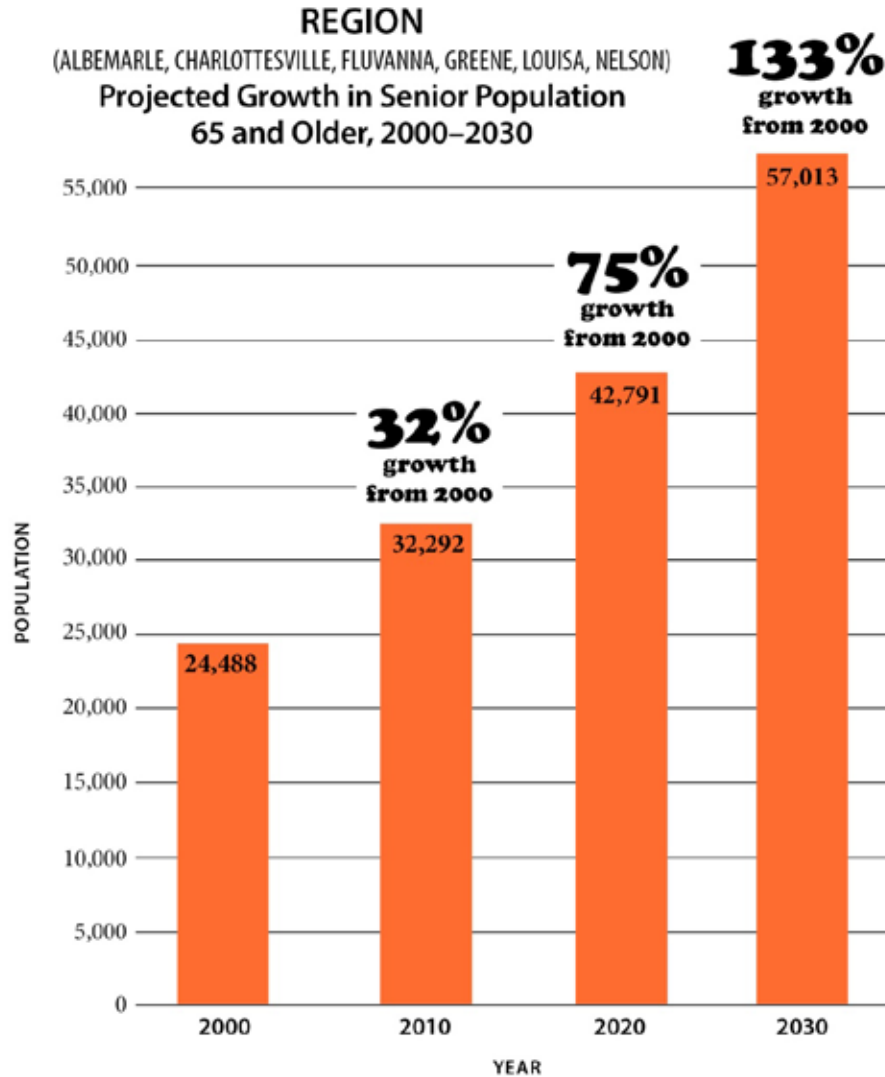
**alliance**

working together for an age-friendly community



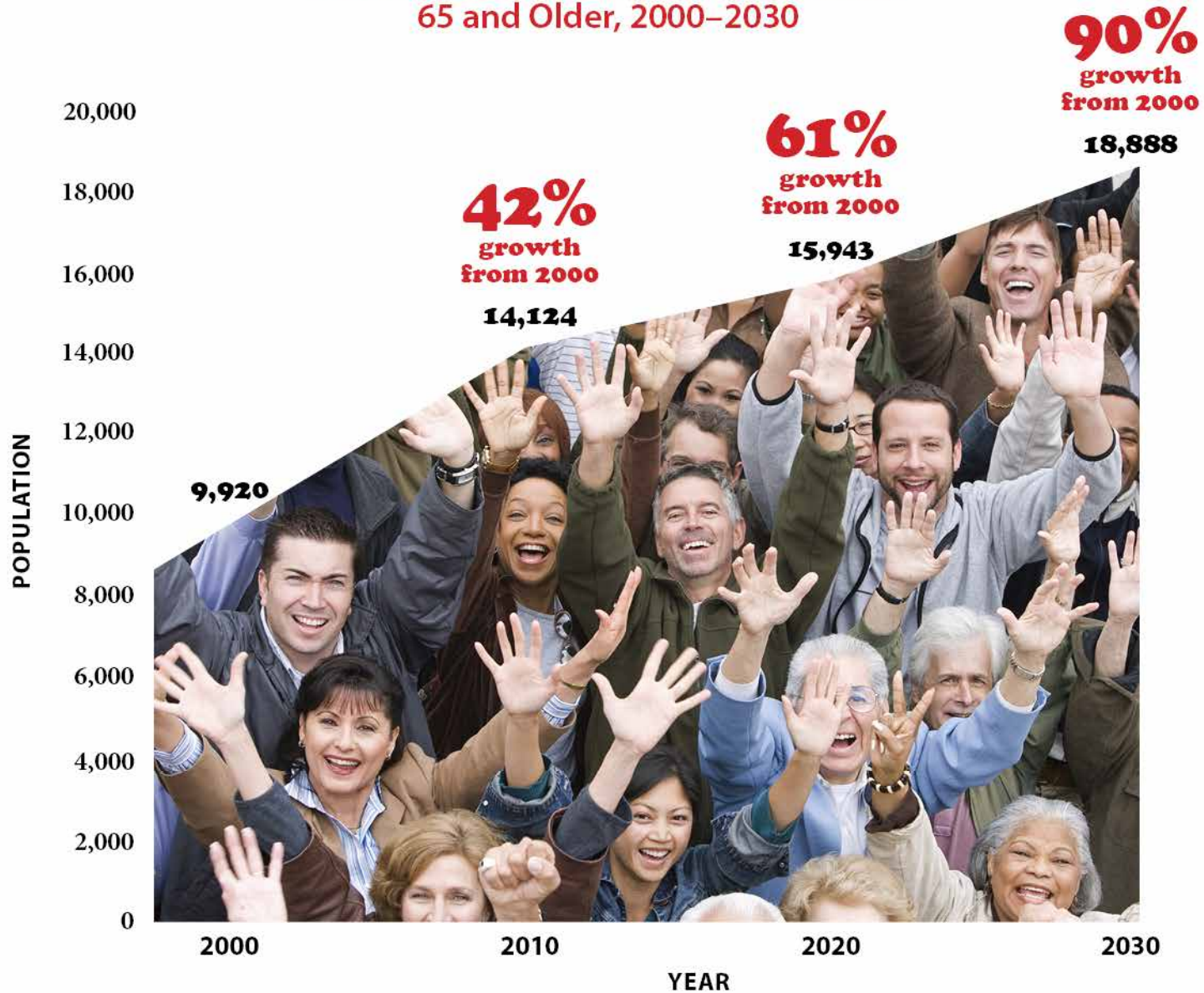


One in four.



# ALBEMARLE COUNTY

## Projected Growth in Senior Population 65 and Older, 2000–2030



# CITY OF CHARLOTTESVILLE

## Projected Growth in Senior Population 65 and Older, 2000–2030



Age-friendly *not* is about old people.  
^



## AGE-FRIENDLY = GOOD FOR EVERYONE

Plan for the needs of an aging population and we automatically check off the needs of all constituents.

“Winning communities in the future will be the ones that invest in creating great places to live, work, learn, and play at every age. Charlottesville Area Alliance is the right idea at the right time.”

Matt Thornhill

Founder & President, Boomer Project & Generations*Matter*

2014



2015



Now



vision

greater Charlottesville area to be  
the most age-friendly community  
in the country

mission

lead the advancement of an  
age-friendly community



# 8 LIFE ELEMENTS

FOR AN AGE-FRIENDLY COMMUNITY





### Partners

Advocates, leaders, contributors, and stakeholders in the community serving or advising the senior population.



### Steering Committee

Composed 13 members, with core of "lead organizations."



### Work Groups

Five standing work groups align with Alliance goals.



**We invite Fluvanna County to support the process of becoming an age-friendly community!**

Thank you!



# Draft – Ver4

Fluvanna County, Virginia  
Department of Administration  
Job Description

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## EMERGENCY MANAGEMENT COORDINATOR - #9400

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FLSA Status: Exempt  
Pay Grade: 18  
Job Title ID: 9400  
Reports To: County Administrator

### SUMMARY

The Emergency Management Coordinator (EMC) serves as Head of the County's Office of Emergency Management (OEM). The EMC is responsible for planning, training, response, resource coordination, and other emergency services support activities, both within the county government and in coordination with other local and state agencies. The EMC works under the general day-to-day direction of the County Administrator, who serves as the County's Director of Emergency Services (DES).

### ESSENTIAL FUNCTIONS

The EMC manages all matters pertaining to Disaster Preparedness, Emergency Management, and Recovery Assistance and administrative coordination with and support for all county emergency services departments and agencies in Fluvanna County. The essential functions of the position include, but are not limited to:

#### Emergency Management Oversight

1. Develop, update, and coordinate comprehensive emergency management plans and operations for Fluvanna County to mitigate, prepare for, respond to, and recover from the effects of any and all natural or manmade hazards.
2. Coordinate emergency management plans, procedures, and resources with all County departments, and other local, regional, state, and federal response agencies.
3. Coordinate activities and working relationships of service agencies within the County: Sheriff, Fire Departments, Rescue Services, Water Rescue Services, health care activities, Schools, Social Service agencies, County Public Works, the Red Cross, and others to assure their cooperation in an effective disaster relief system.
4. In consultation with the Director of Emergency Services (DES), activate and staff the County's Emergency Operations Center.
5. Disseminate warnings and notifications of disaster alerts and advise County staff and residents on emergency plans.
6. Coordinate emergency preparedness activities, training programs, and exercises to include workshops, drills, tabletop, functional, and/or full scale exercises to prepare residents, first responders, and staff to respond quickly and effectively in emergencies.
7. Develop and manage the emergency management budget; oversees and coordinates documentation of expense and reimbursement activities during the recovery phase of any emergency.
8. Prepare and make presentations and conduct other outreach activities for citizens and community groups regarding prevention, identification, and preparedness in emergency situations; participates in other public relations activities in support of the emergency preparedness program.
9. Prepare and disseminate educational materials and programs to assist residents in preparing for emergencies both in the home and at work; promotes emergency safety programs.
10. Prepare reports for the County Administrator, the Board of Supervisors, and the Local Emergency Planning Committee pertaining to emergency services and emergency management activities.

11. Work with the Department of Environmental Quality (DEQ) to manage environmental issues relative to identifying hazards; developing and approving remedial plans; hazardous waste handling and disposal; coordinates issues with other County staff.
12. Develop emergency management plans/strategies for special events organized by the County, in consultation with County emergency service providers.
13. Recruit, train, manage, and direct volunteers to assist the County during emergency situations.
14. Maintain public awareness; meets with news media for interviews and prepares press releases.
15. Serve as chairperson for the Local Emergency Planning Committee (LEPC).

### **Emergency Services Support**

16. Assist fire/rescue operations/services in developing policies/procedures for compliance with federal, state, and county laws, rules, regulations and ordinances.
17. Periodically attends volunteer department meetings and activities to foster positive engagement with the volunteers and their organizations.
18. Direct budget planning, implementation and monitoring of the department, and makes recommendations to the County Administrator regarding appropriations to the fire, rescue, and water rescue companies and units.
19. Coordinate on emergency services purchasing activities and perform grant writing, management, and reporting duties.
20. Collaborate with emergency communication personnel on protocols and in procuring and maintaining systems and equipment.
21. Collaborate with county emergency service providers (e.g., Fluvanna Fire, Fluvanna Rescue, and LMVFD&RS, Inc.) to coordinate resources, review and modify response patterns, and help ensure effective and efficient use of resources.
22. Oversee EMS services contract and continually reviews alternatives and options, including volunteer expansion, transition to paid staffing augmentation, and contract EMS support.
23. Coordinate collection and review of emergency service response and staffing data on an on-going basis; analyze data to identify needs and to drive the decision-making process regarding staffing, response assignments, etc.
24. In concert with the Fire and Rescue Association, develops and maintains a strong county-wide volunteer recruitment and retention program and identifies and recommends incentives to help maintain a vibrant roster of fire and rescue volunteers for County agencies.

### **Other**

25. Communicate with the County Administrator, Board of Supervisors, volunteer chiefs, and others, as appropriate, to keep them informed on all activities and works in cooperation with these individuals to manage the Department.
26. Work with the Virginia Department of Emergency Management to maintain plans, annual requirements for grant reporting, and attend required meetings, e.g., TEPW.
27. Plan for and attend meetings with staff, the County Administrator, the Board of Supervisors and special committees, including the Fire and Rescue Association.
28. Attend educational and training classes and seminars pertaining to Emergency Services and Emergency Management and convey information of interest to local agencies through formal and informal training programs and meetings.
29. Perform related duties as required.

### **REQUIRED KNOWLEDGE, SKILLS AND ABILITIES**

Knowledge of:

- Emergency, environmental and fire hazard prevention; principles and practices of emergency management, including hazard identification, mitigation, disaster preparedness, response and recovery.



- Local, state and federal laws, and regulations regarding emergency services, disaster response, recovery and mitigation, i.e. the Virginia Department of Emergency Management Laws, i.e. 44-146.19
- Understanding of the County's responsibility to submit the Local Capability Assessment Report (LCAR) annually by June 30.
- Principles and practices of emergency and disaster preparedness, as well as modern fire fighting/fire prevention and/or emergency medical services.
- Incident Command System (ICS) and the National Incident Management System (NIMS); Emergency Operations Center (EOC) structure and operating procedures; emergency operations communications systems.
- Virginia Office of Emergency Medical System requirements and training techniques for development of emergency service personnel.
- Interrelationships, responsibilities, goals and functions of local, State and Federal government in planning, conducting and implementing emergency services.
- Logistics and operations planning techniques to coordinate and evaluate methods of service delivery of emergency personnel and materials.
- Management information systems (MIS) and computer applications.
- Governmental responsibilities, programs and response plans for hazardous materials spills and/or nuclear emergencies.

Skills in:

- Management with a focus toward positive change and results, along with a strong commitment to teamwork, goal orientation, and fiscal responsibility.
- Preparing and presenting public information, and public speaking.
- Techniques for analysis and assessment of the types and extent of damages caused by various types of disasters.
- Operation and use of common office equipment including personal computers and copiers.
- Coordination and monitoring of emergency personnel activities, equipment, and supplies.
- Preparation of comprehensive reports, correspondence, and plans involving detail, statistical and other data, or instructions.

Ability to:

- Work independently and take initiative, and to thrive in fast-paced, high-stress environments.
- Assess relative cost and benefits of potential actions.
- Identify emergency and safety exposures.
- Analyze and recommend loss mitigation, prevention and control strategies, policies and programs.
- Develop and implement emergency and educational activity programs and training.
- Interpret State and Federal rules, regulations and directives governing disaster and emergency services.
- Exercise appropriate judgment in answering questions and releasing information, and in analyzing and projecting consequences of decisions and/or recommendations.
- Effectively communicate orally and in writing.
- Establish and maintain effective working relations with individuals, groups, and public agencies.

## ACCEPTABLE EDUCATION, EXPERIENCE, AND TRAINING

- Graduation from an accredited college or university with a Bachelor's Degree in Emergency Management, Safety, Fire Administration, Public or Business Administration, or related field. Five years of progressively responsible experience in fire services, rescue services, emergency management, emergency services, or public safety, or any equivalent combination of education, training and experience.
- Emergency Management Certification or ability to obtain certification within one year of employment (i.e., Professional Emergency Manager (PEM) that is granted by the Virginia Emergency Management Association (VEMA) after successful completion of all application requirements, and recertify every two years or

Certificate of completion of the Federal Emergency Management Agency's (FEMA) Professional Development Series for Emergency Management).

- In addition, the successful candidate will have one or more of the following certifications (ideally several of these), and have field experience in these areas in a combination volunteer/career department: Virginia Department of Fire Programs or Pro Board certifications in Firefighter 1 and 2, including Hazardous Materials Operations, NFPA/VA Instructor I, NFPA/VA Officer I, EMT through Paramedic.

**WORKING CONDITIONS AND PHYSICAL REQUIREMENTS**

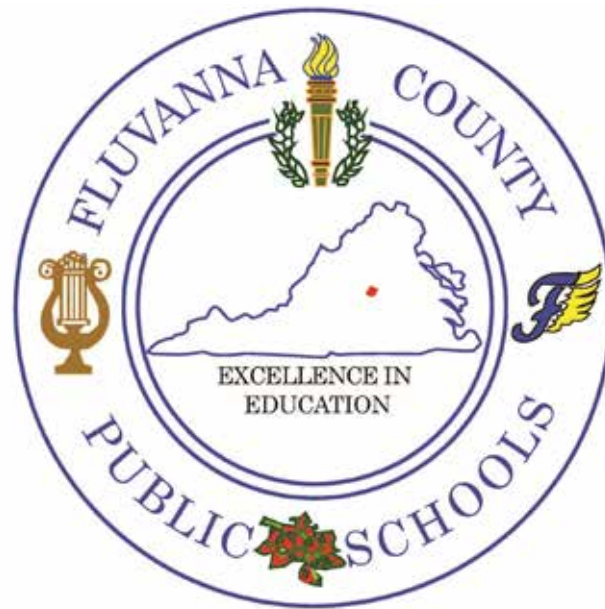
- Incumbent is provided with a County vehicle for use in commuting to and from work and in the performance of official duties.
- Required to carry a cell phone and subject to recall at any time during an emergency and may be required to work long hours without normal days off.
- Must be able to travel in personal or assigned vehicle to emergency scenes, meetings, or public events in order to complete office assignments.
- Must be able to respond independently or as directed at odd hours and for extended periods of time during emergencies.
- Must be available to work some weekends and evenings for presentations, training, and meetings.
- Office environment exposure to computer screens; sitting for prolonged periods of time.
- Ability to work indoors/outdoors under adverse conditions for an extended period of time in the event of an emergency.
- Must have ability to occasionally lift, push/pull, and hold/carry 30 pounds.
- Must have the ability to frequently stand and sit, and occasionally walk over flat and uneven terrain.

**POST OFFER REQUIREMENTS**

- Criminal Background check
- Possession of, or eligibility for, a valid driver's license issued by the Commonwealth of Virginia.
- The incumbent is required to reside within 30 minutes regular driving time of the County Administration Offices, or be able to relocate to meet this requirement within 6 months of hiring.

Recommended by:		Approved as to form:		Approved:	
Department Head	Date	Human Resources Manager	Date	County Administrator	Date

Approved by Board of Supervisors on \_\_\_\_\_



# Fluvanna County Public Schools

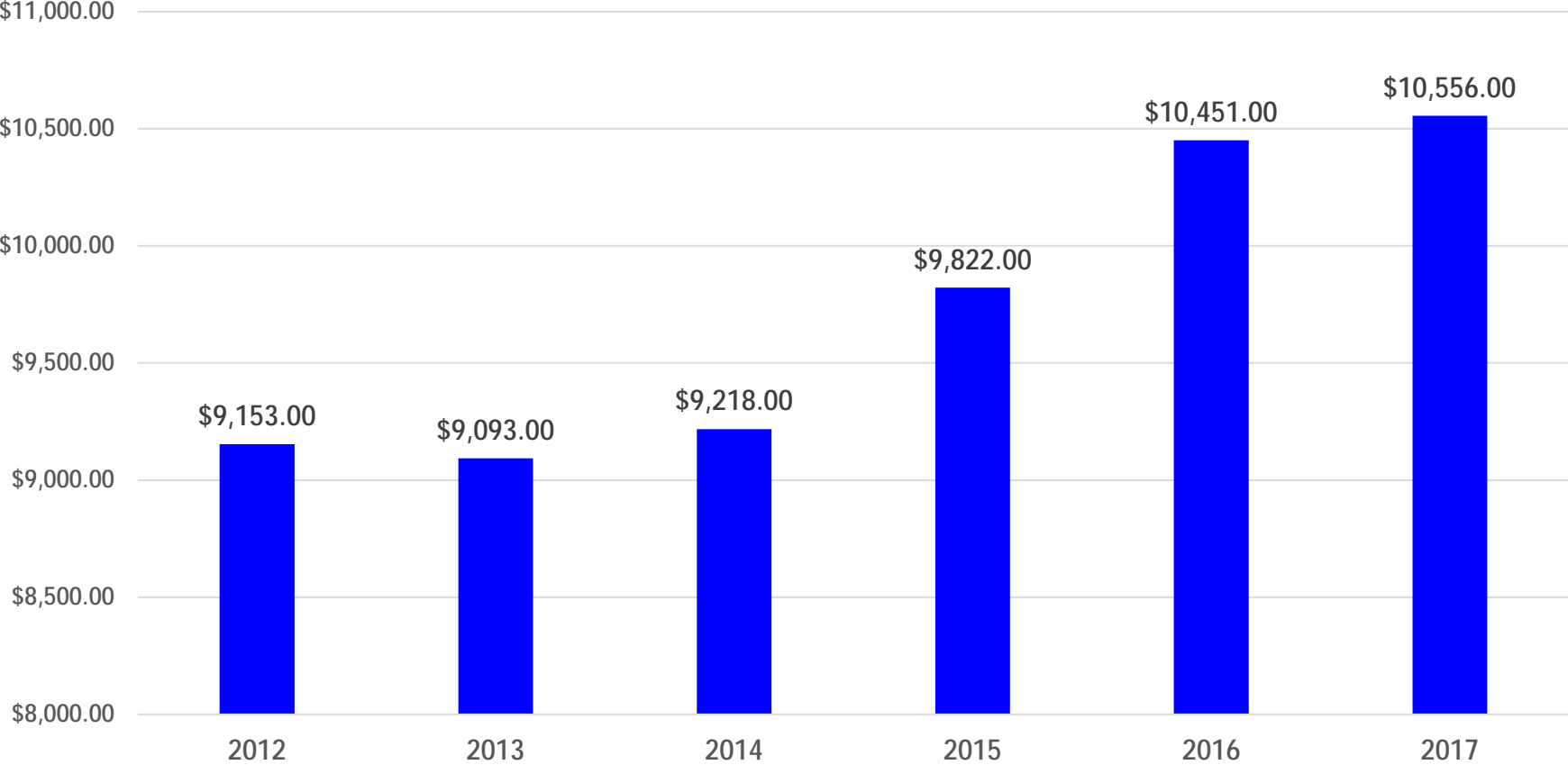
**BUDGET PREPARATION FOR FISCAL YEAR 2019  
BOARD OF SUPERVISORS MEETING  
NOVEMBER 1, 2017**

# POINTS OF PRIDE 2016-17

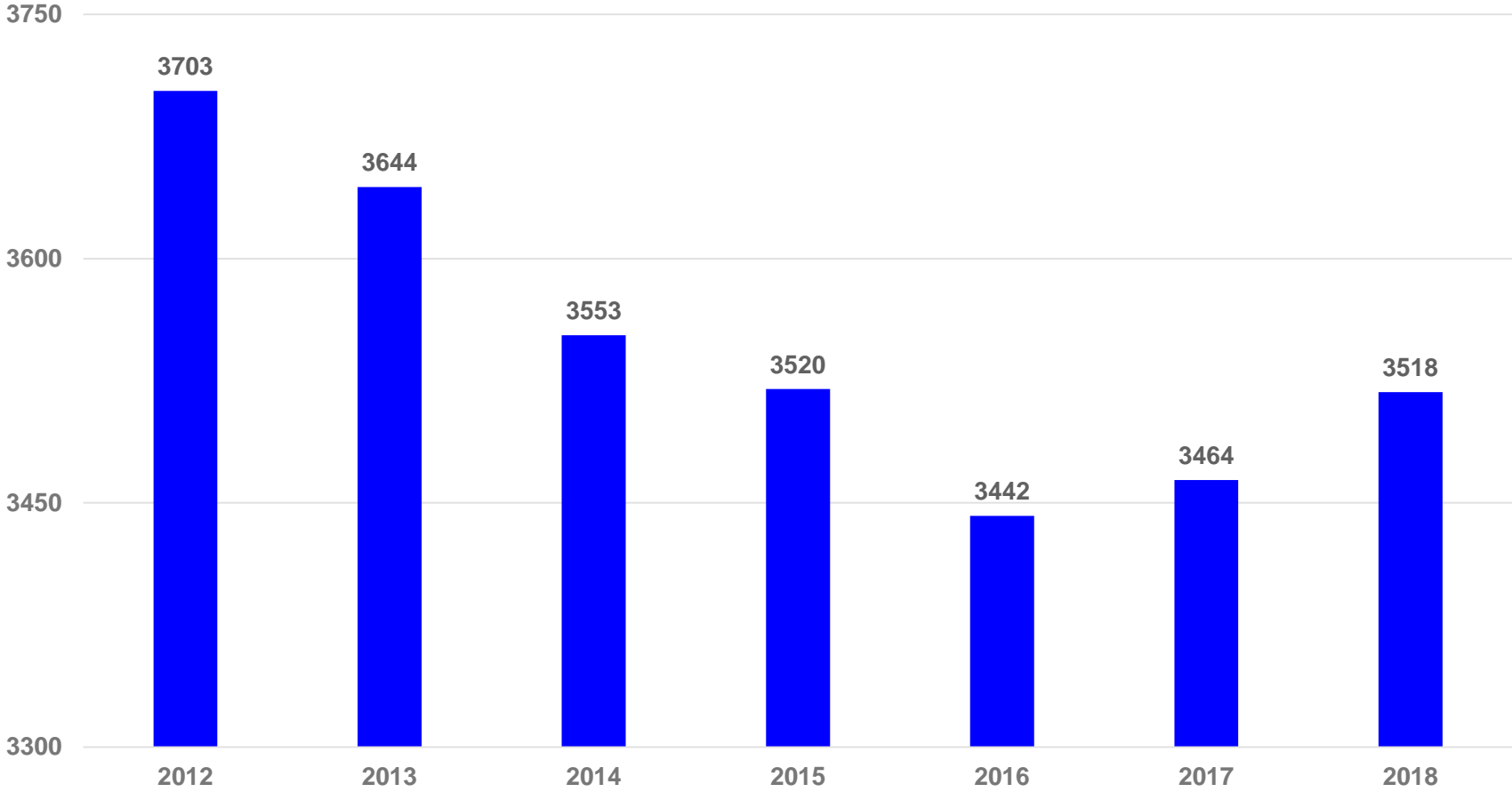
- ALL Schools are fully accredited for the 4<sup>th</sup> Consecutive Year. One of only 22 out of 132 school divisions who have achieved this benchmark.
- 97.4 percent On-Time Graduation Rate. Fourth highest rate in the State.
- 99 percent of Career and Technical Education (CTE) Program completers earned an Industry Credential for the Class of 2017.
- Fluvanna surpasses the State average in graduates earning an Advanced Studies Diploma.
- Fluvanna surpassed State and National averages for public school performance on the Scholastic Aptitude Test (SAT).
- Twenty-one percent of Advance Placement Test Takers earned AP Scholar Awards.

# Per Pupil Expenditure

Per Pupil Expenditure



# Enrollment



# UNKNOWNNS

Health Insurance Rate Increase

Utility Savings

Propane Usage

VRS Rate for FY2019

State Budget Allocations

Revisions to Standards of Quality

# Health Insurance

Cost per year- \$4,011,936

Employee- \$885,828

Employer- \$3,126,108

15% increase for FY19= approximately \$600,000

Factors influencing rate increase:

- High cost claims history
- Age of subscribers



# Utility Usage Report First Quarter FY2018

Utility Provider	Usage July - September			Cost July - September		
	2016	2017	2018	2016	2017	2018
Ameri-Gas	232	0	0	\$401.98	\$0.00	\$0.00
Central Virginia Electric Coop	1069536	1168039	1019136	\$98,986.58	\$104,954.18	\$89,747.63
Dominion	1403243	1720903	1232589	\$133,183.54	\$152,710.94	\$118,520.53
Foster Fuels	0	0	12691	\$0.00	\$0.00	\$12,901.00
James River Petroleum	7421	14804	7422	\$11,659.21	\$20,696.00	\$13,818.20
<b>Yearly Total Utility Usage &amp; Costs:</b>	<b>2480432</b>	<b>2903746</b>	<b>2271838</b>	<b>\$244,231</b>	<b>\$278,361</b>	<b>\$234,987</b>

# Possible Revisions to Standards of Quality

Potential Change	Current	Need if Changed	Potential Cost Increase
Staffing Ratio of 1 to 400 students for Assistant Principals. One full-time principal for each school.	1- Principal 1- Assistant Principal for West Central and Central	2 Additional Administrators- 1 Elementary and 1 High	<b>\$220,000</b>
Staffing Ratios for Schools Counselors- 1 to 250	10	4 Additional	<b>\$280,000</b>
Staffing Ratios for School Psychologists- 1 to 1,000	3	.5 Additional	<b>\$35,000</b>
Staffing Ratios for School Nurses- 1 to 1,000	5	No Change	<b>-0-</b>
Staffing Ratios for School Social Workers 1 to 1,000	1	2.5 Additional	<b>\$175,000</b>
<b>Total=</b>			<b>\$710,000</b>

A portion of these funds would be included in the state funding template.

# Technology Budget

Funding Source	Budget	Expenditures	Future Initiatives
FY19 VPSA	\$180,000	\$35,000	Replace 120 FMS student testing laptops with Chromebooks
		\$130,500	Upgrade 180 Carysbrook's student testing desktop computers
		\$14,500	Other- Repairs/replacement equipment
FY19 Instructional Technology CIP	\$200,000	\$113,000	110 instructional staff laptops replaced including FMS & Abrams <u>or</u> Central student testing computers and Instructional/Assistive Technology
		\$39,000	Upgrade 30 division wide student SPED computers
		\$48,000	Replace 8 Smartboards with InterActiv Panels
FY19 Division Funds	\$1,571,034		
		\$885,000	Staff
		\$586,034	Hardware and Software Renewals/Support, Copier Leases, Internet/Data Network Leases, Telephone Service, Repairs
		\$100,000	Hardware

# Budget Priorities for FY2019

Priority	Estimated Cost
Adjustments to Scale B	\$100,000
Step Increase for All Staff	\$220,000
1% Raise for All Staff	\$280,000
Health Insurance Increase 15%	\$600,000
Increase Teaching Staff for student and program needs	\$210,000
Technology- Teacher Laptop Replacement	\$100,000
VRS Increase?	TBD
Possible SOQ Changes	*\$710,000
<b>TOTAL (Est.)</b>	<b>\$2,220,000</b>

\*A portion of these funds will be received from the state, if approved by General Assembly.

# **FLUVANNA COUNTY PUBLIC SCHOOLS**



**DARE TO IMAGINE...**  
**ENGAGED, INSPIRED LEARNING**  
**EVERY DAY!**

# Questions





# COUNTY OF FLUVANNA

*"Responsive & Responsible Government"*

132 Main Street  
P.O. Box 540  
Palmyra, VA 22963  
(434) 591-1910  
Fax (434) 591-1911  
www.fluvannacounty.org

## BOARD OF SUPERVISORS

John M. "Mike" Sheridan  
Chair  
*Columbia District*

Mozell H. Booker  
Vice Chair  
*Fork Union District*

Patricia B. Eager  
*Palmyra District*

Anthony P. "Tony" O'Brien  
*Rivanna District*

Donald W. Weaver  
*Cunningham District*

## COUNTY ADMINISTRATION

Steven M. Nichols  
*County Administrator*

Kelly Belanger Harris  
*Clerk to the Board*

November 2, 2017

Mr. Jason Stewart, Director  
Planning/Zoning Department  
Fluvanna County  
132 Main Street  
Palmyra, VA 22963

Mr. Stewart,

1. Please see attached Contract for Purchase of Real Property whereby The Light Academy Inc. is the contract purchaser of that property described therein and known by the current street numbering as 479 Cunningham Road, Palmyra, Virginia 22963.
2. The County, as record owner, hereby consents to The Light Academy Inc. filing a special use permit related to the property prior to formal closing. Nothing herein is intended to be an approval of any special use permit by the County or any waiver of any procedure or rules relating thereto.
3. Thank you for your prompt attention to this matter.

Steven M. Nichols  
County Administrator

Attachment:  
Contract for Purchase of Real Property

CC:  
Kristina Hofmann, Asst. County Attorney

**FLUVANNA COUNTY BOARD OF SUPERVISORS  
AGENDA ITEM STAFF REPORT**

<b>MEETING DATE:</b>	November 1, 2017				
<b>AGENDA TITLE:</b>	Special Use Permit Process Authorization for The Light Academy Inc.				
<b>MOTION(s):</b>	I move to authorize The Light Academy Inc. be allowed to proceed with the Special Use Permit Process (SUP) for the property known by the current street numbering as 479 Cunningham Road, Palmyra, Virginia 22963, subject to Fluvanna County's receipt of a fully executed purchase contract.				
<b>STRATEGIC INITIATIVE?</b>	Yes	No	If yes, list initiative(s):		
		X			
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
		XX			
<b>STAFF CONTACT(S):</b>	Steven M. Nichols, County Administrator				
<b>PRESENTER(S):</b>	Steven M. Nichols, County Administrator				
<b>RECOMMENDATION:</b>	Approval				
<b>TIMING:</b>	Current				
<b>DISCUSSION:</b>	<p>The Light Academy Inc. is the contract purchaser of the former Cunningham School.</p> <p>The County, as current record owner, may consent to The Light Academy Inc. filing a special use permit related to the property prior to formal closing. This action would allow the prospective owners to proceed with the SUP process after the County receives a fully executed contract.</p> <p>Nothing herein is intended to be an approval of any special use permit by the County or any waiver of any procedure or rules relating thereto.</p>				
<b>FISCAL IMPACT:</b>	N/A				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	N/A				
<b>ENCLOSURES:</b>	Draft Authorization to Proceed Letter				
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other
	XX				



# County Initiated Rezoning Tax Map 4-A-27A

Board of Supervisors  
Staff Presentation  
November 1, 2017

Fluvanna County  
Planning & Zoning Department



*"Responsive & Responsible Government"*

# Overview

- Per Fluvanna County Code Section 22-20-1 and Section 15.2-2285 of the Code of Virginia, the Board of Supervisors can initiate a change to the regulations, restrictions or boundaries established in the Zoning Ordinance.
- The Board of Supervisors must adopt a resolution of intention to amend, which resolution upon adoption shall be referred to the Planning Commission.

# Tax Map 4-A-27A

Fluvanna County

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- Currently zoned A-1, Agricultural, General
- Palmyra Election District
- Rural Residential Planning Area

# Parcel Location

Fluvanna County



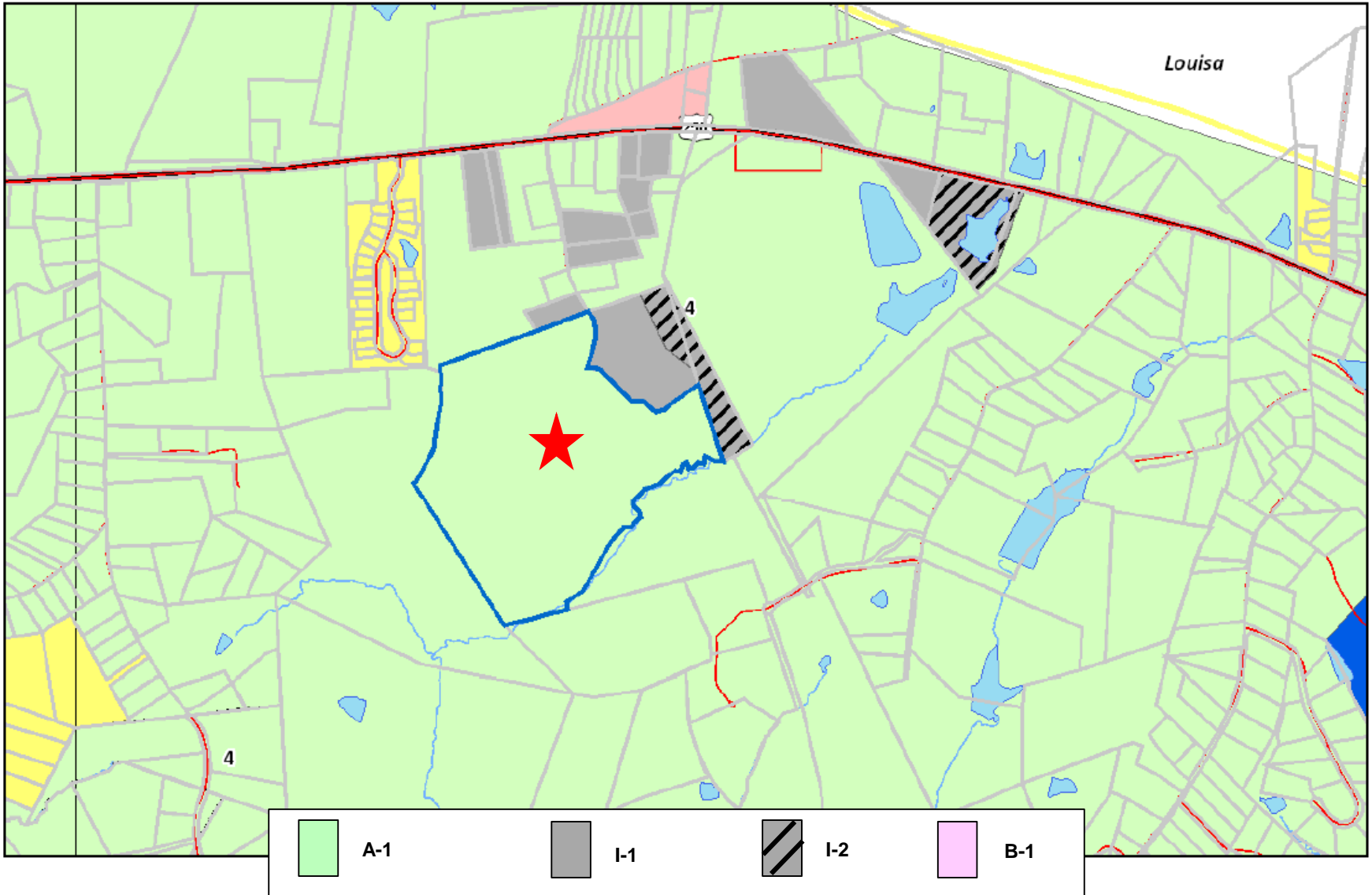
# Aerial

Fluvanna County



# Zoning

Fluvanna County



# I-2 Zoning By Right Uses

- Currently zoned A-1, Agricultural, General
- This action would initiate the process to rezone the parcel to I-2, Industrial, General

- **By Right Uses**

Contractor's storage yards  
Lumberyards  
Machine shops  
Manufacturing, light  
Manufacturing, medium  
Railroad facilities  
Research laboratories

Sawmills, permanent  
Sawmills, temporary  
Solid waste collection facilities  
Truck terminals  
Upholstery shops  
Wholesale warehouses

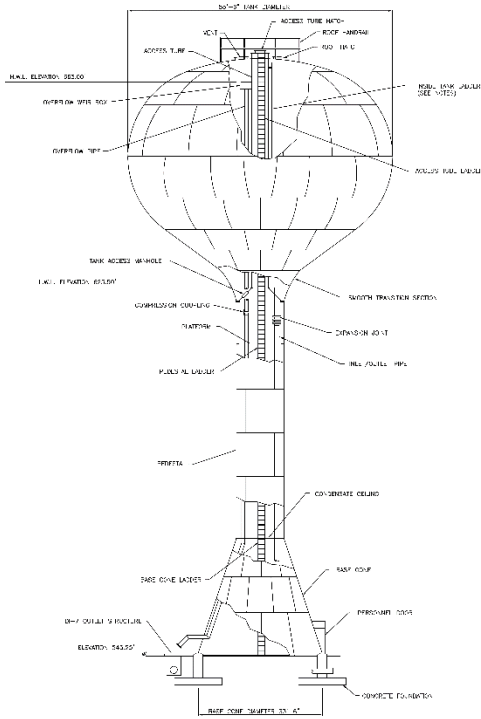
# Background

- Company looking to build a 100k sf facility, hire 35-40 new employees, and invest a total of \$8-10 million in this project
  - Property needs I-2, Industrial, General zoning for proposed economic development
- County is currently in discussions with the Company to finalize a plan of action for connecting the new business to the new water system at Zion Crossroads
- If the Board decides to move forward with the resolution, more specific information about the proposed business use will be available for PC and BOS Public Hearings in Dec 2017
- **In addition, special use permit (SUP) approval will also be required after property is rezoned**



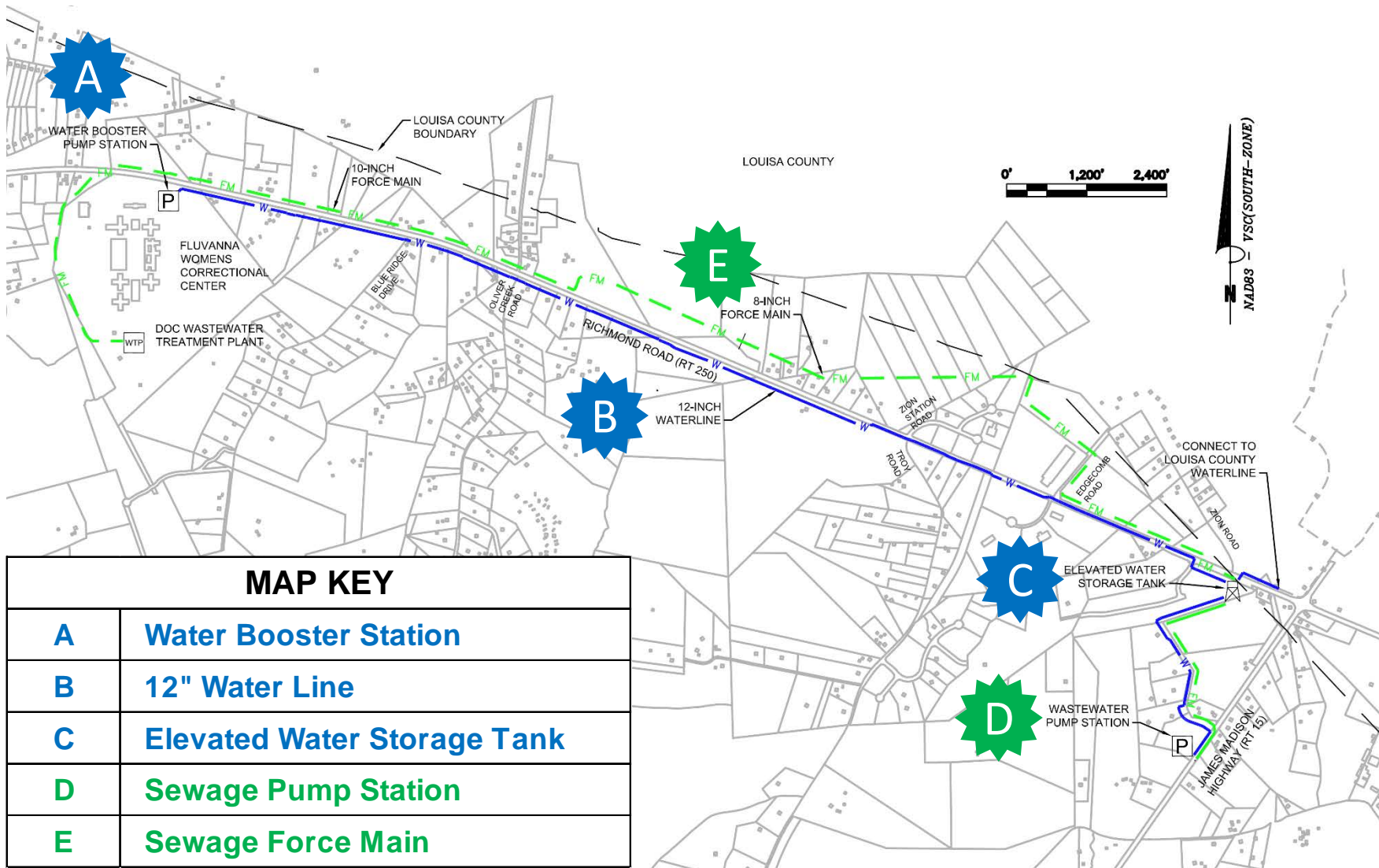
# Suggested Motion

- **I move the Board of Supervisors adopt a resolution entitled, “A RESOLUTION TO RECOMMEND AN AMENDMENT TO THE FLUVANNA COUNTY ZONING MAP FOR TAX MAP PARCEL 4-A-27A.”**



# Zion Crossroads Water & Sewer Project

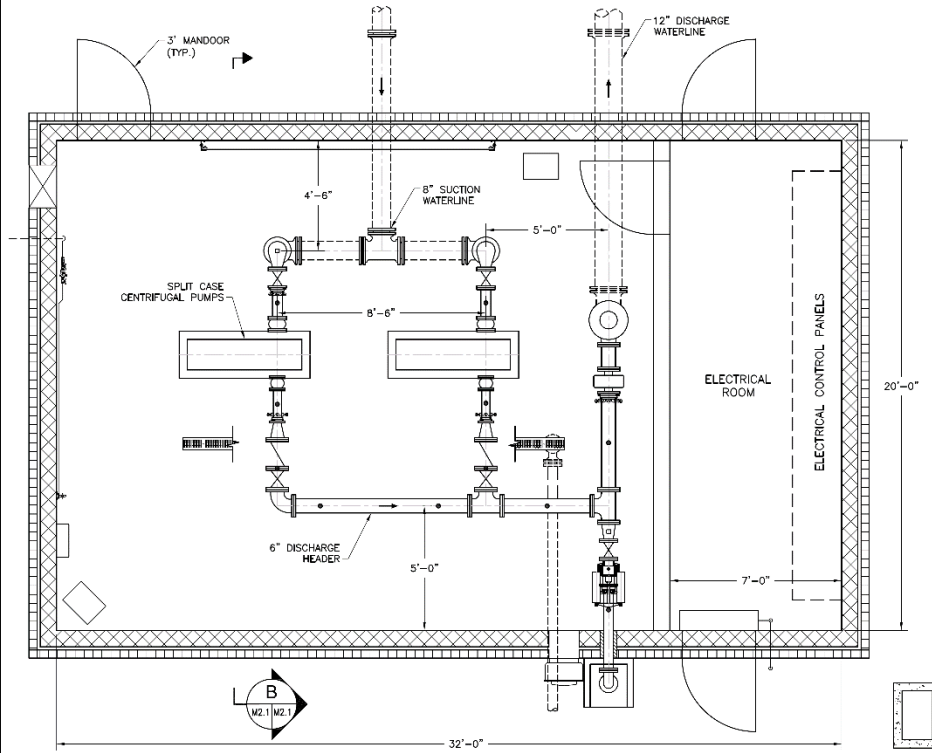
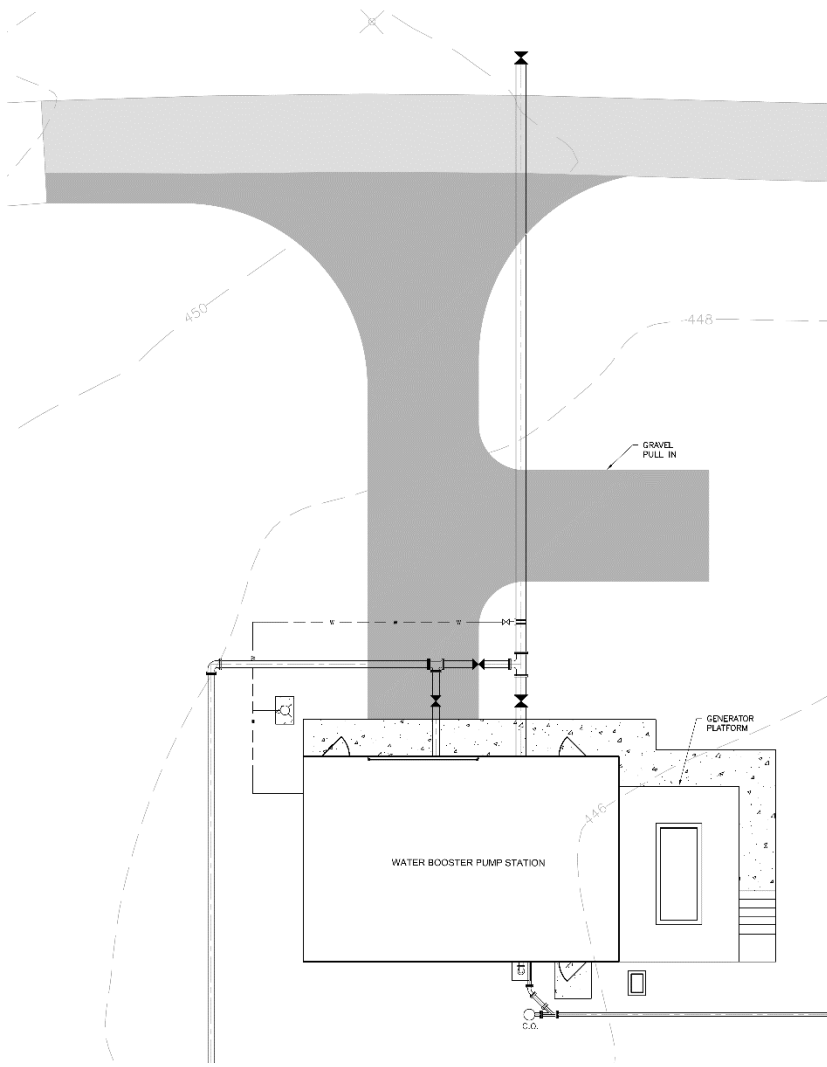
# Project Overview



# Proposed Water Line Extension



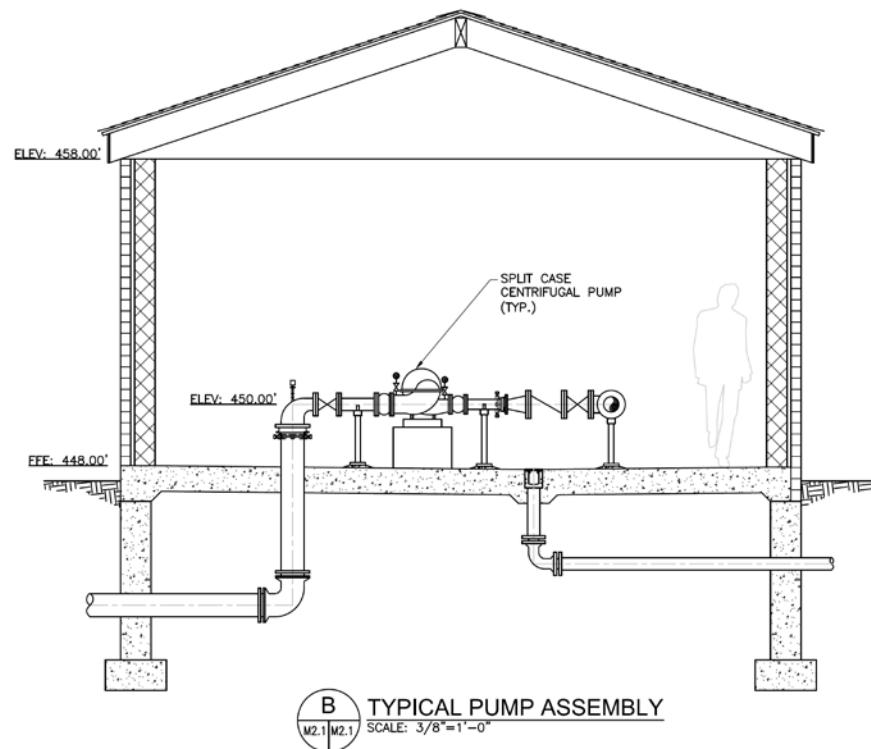
# Water Booster Pump Station A



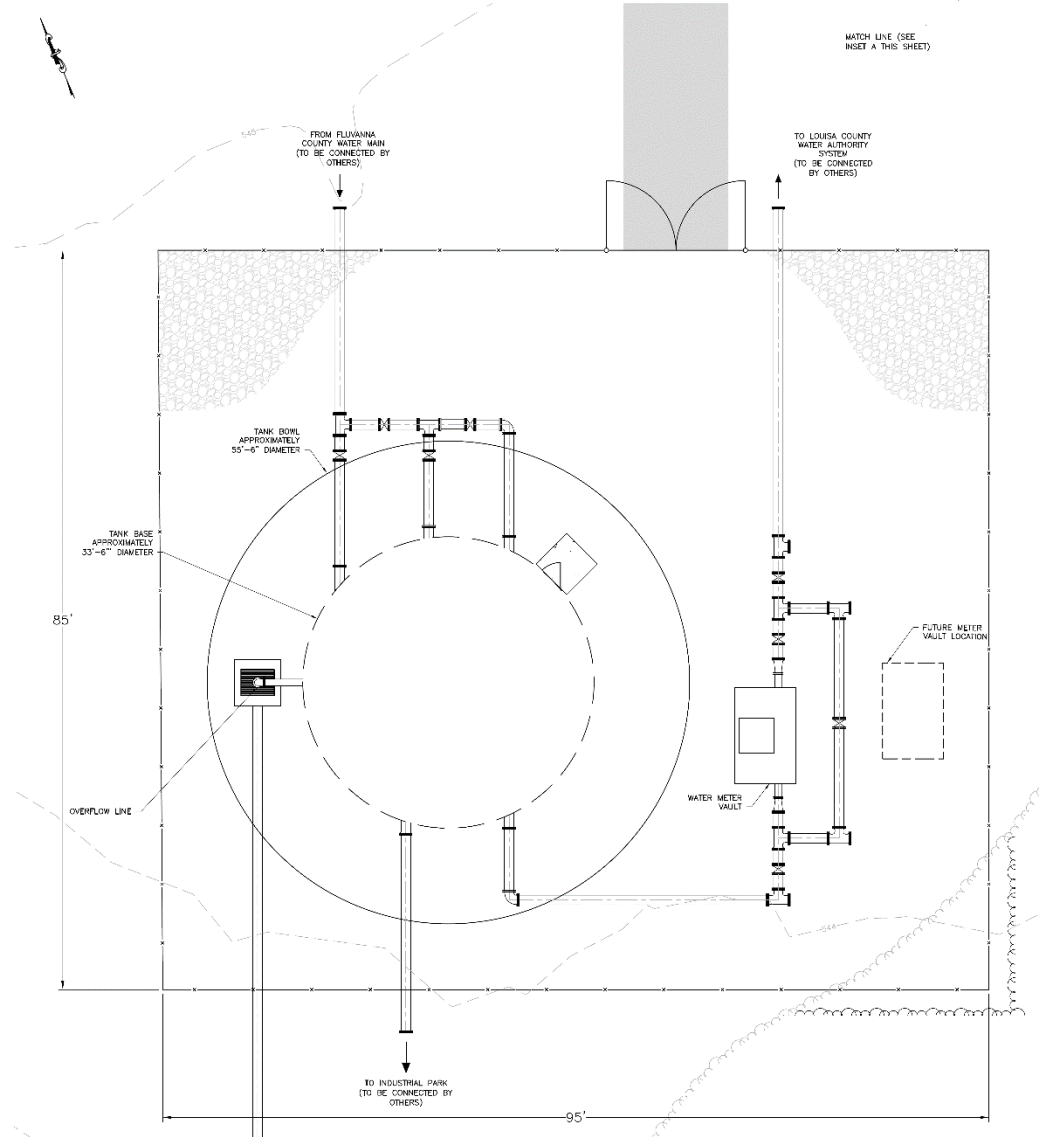
# Water Booster Pump Station **A**



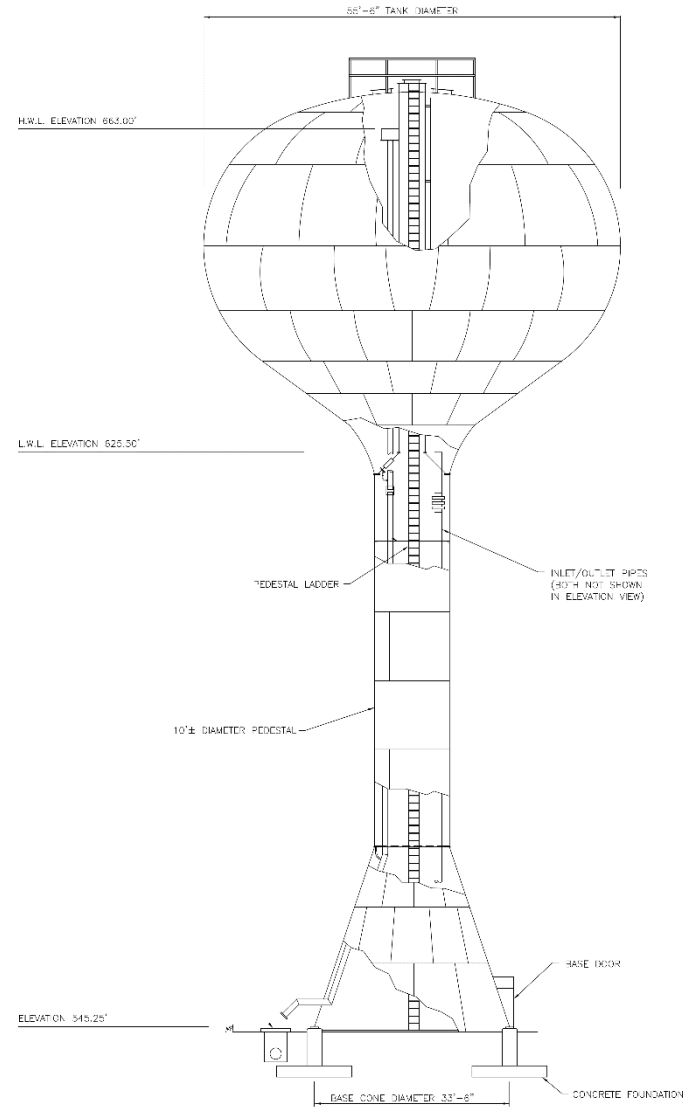
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# Elevated Water Storage Tank

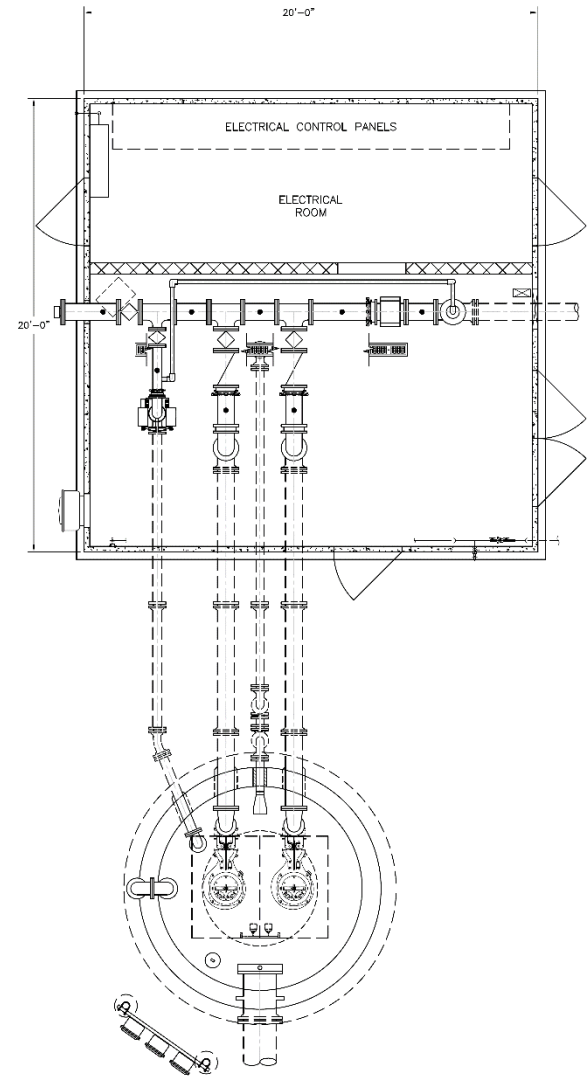
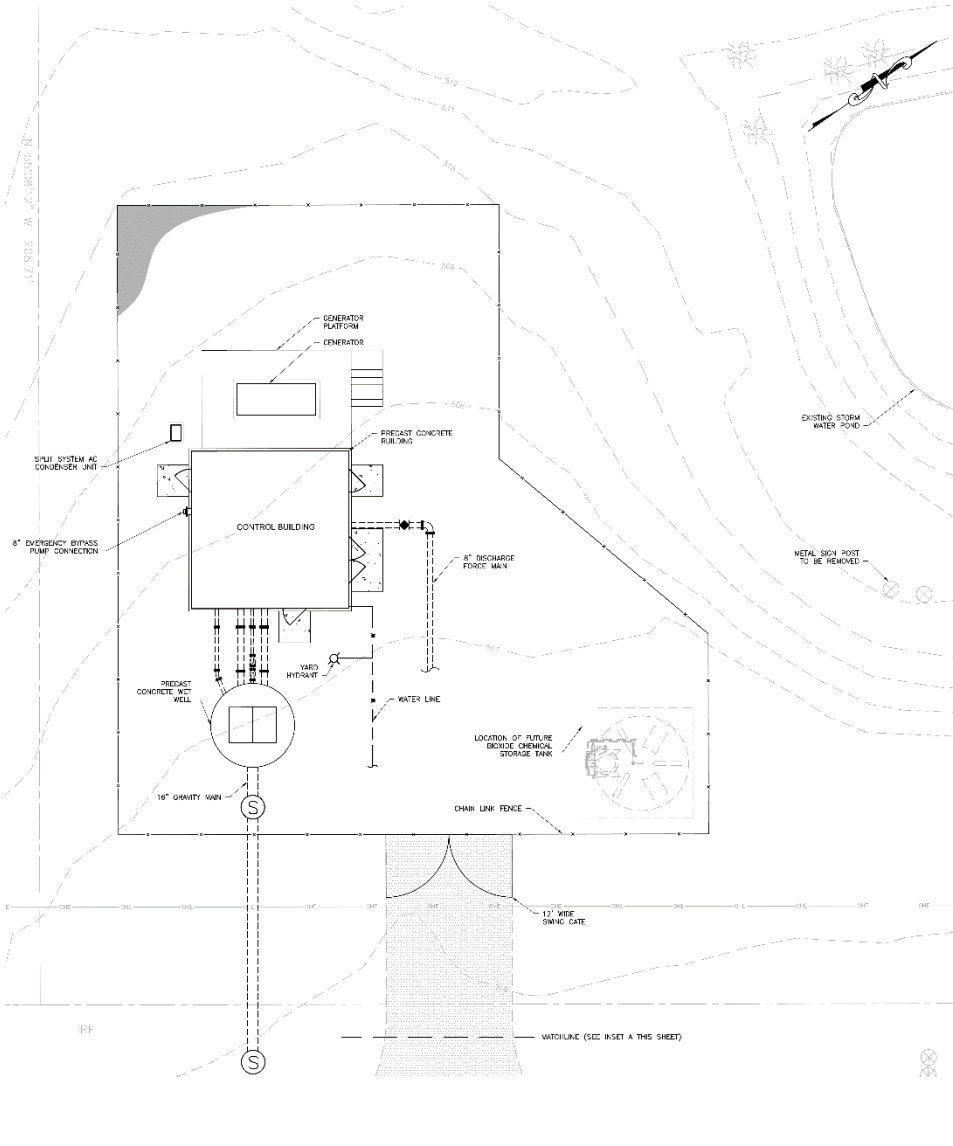


# Elevated Water Storage Tank





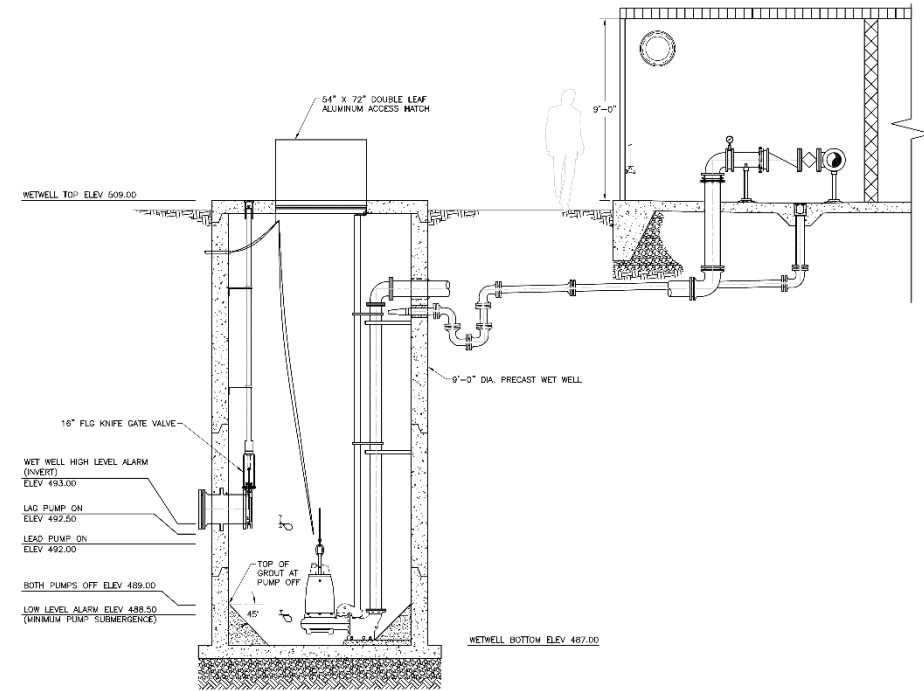
# Wastewater Pump Station **D**



# Wastewater Pump Station



<http://smithmidland.com/pdfs/buildings.pdf>



# Benefits for Fluvanna County

- Provides for water and sewer corridor along Route 250 and Route 15
- Allows for continued economic growth in Zion Crossroads Area
- Provides for fire protection along water line route



# Project Status/Timeline

- Design is Complete

**Cost Estimate**

- VDH, DEQ & DoC Approvals Received

- Awaiting COE Permit

- Next Steps:

- Land/Easement Acquisition
- Invitation for Bids

# Discussion/Questions

