# Arkansas Rural Connect Projects Proposed Round 2c

**Arkansas Department of Commerce Broadband Office** 

November 10<sup>th</sup>, 2021

## **List of Projects**

- AVECC-Wave Rural Connect Charleston
- AVECC-Wave Rural Connect Rural Crawford County
- CableSouth Media 3 Lincoln County
- HillBilly S. Sharp County
- Ind.Co. Cable TV Newark
- Mountain View Telco Stone Co-Mingues Turner/Hwy 87/Pleasant Grove
- Premier Mineral Springs
- Premier Stamps
- Ritter Craighead County Central
- Ritter Craighead County East
- Ritter Cross County Crowleys Ridge
- Ritter Cross County West
- Ritter Jefferson County NE
- Ritter Jefferson County NW
- Ritter Poinsett County NorthCentral
- Ritter Poinsett County SouthCentral

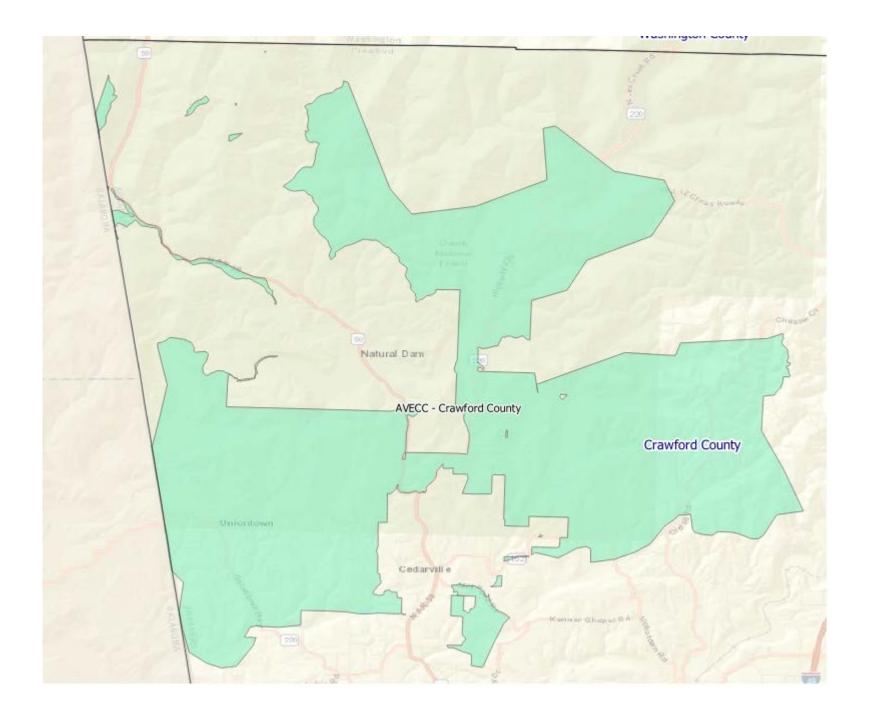
- Ritter Pope County Appleton-Hector-Scottsville
- Ritter Pope County SouthWest
- Ritter St. Francis County NorthCentral
- Ritter St. Francis County NorthWest
- SATCO Bradley County
- SATCO South Warren
- SWAT Blevins & McCaskill
- SWAT Columbia County
- Walnut Hill Telephone Ebeneezer
- Walnut Hill Telephone Falcon
- Walnut Hill Telephone Medlock
- Walnut Hill Telephone Oak Grove Rd
- Walnut Hill Telephone Shiloh
- Walnut Hill Telephone South Lake Columbia
- Windstream Cleburne
- Windstream Dallas County 2

**Total Amount requested: \$124,766,141.48** 

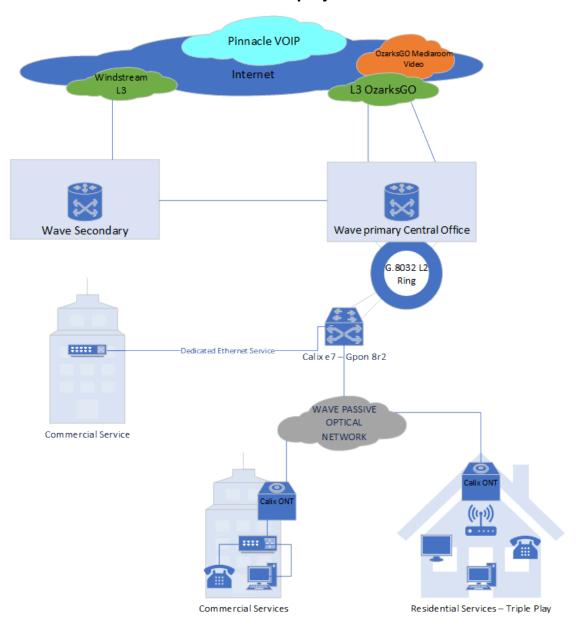
Application	Households	Award request	Technology
AVECC-Wave Rural Connect - Charleston	472	\$1,200,000.00	Fiber
AVECC-Wave Rural Connect - Rural Crawford County	1,012	\$3,316,500.00	Fiber

**Total** \$4,516,500.00





# **AVECC All projects**

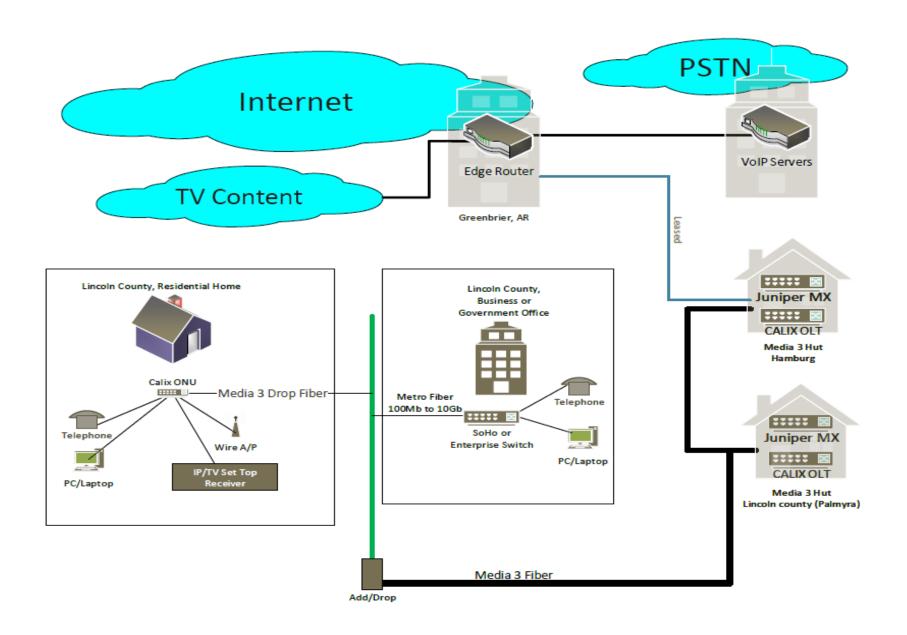


Application	Households	Award request	Technology
CableSouth Media 3 - Lincoln County	769	\$4,119,296.08	Fiber

**Total** \$4,119,296.08



## Cablesouth - Lincoln

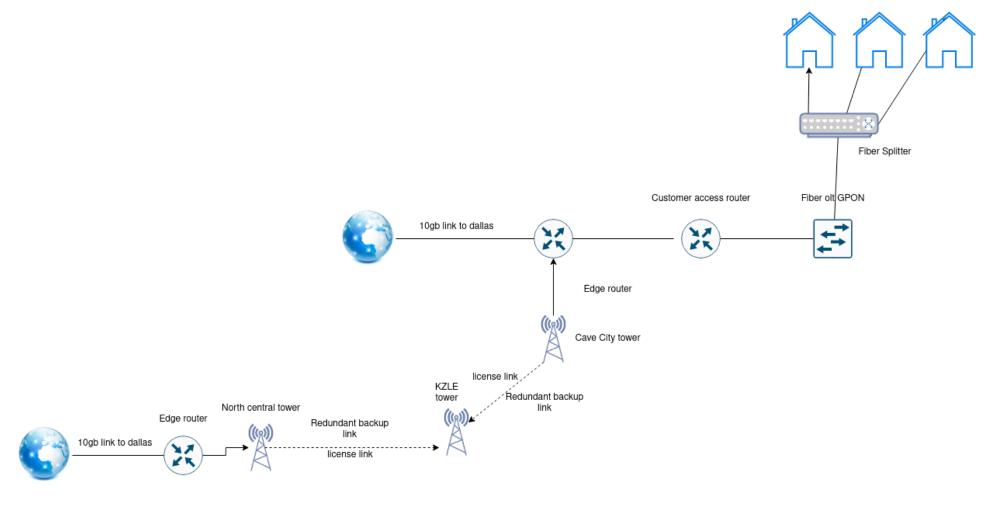


Application	Households	Award request	Technology
Hillbilly Wireless - Sharpe County South	697	\$8,958,197.00	Fiber
		1	

**Total** \$8,958,197.00

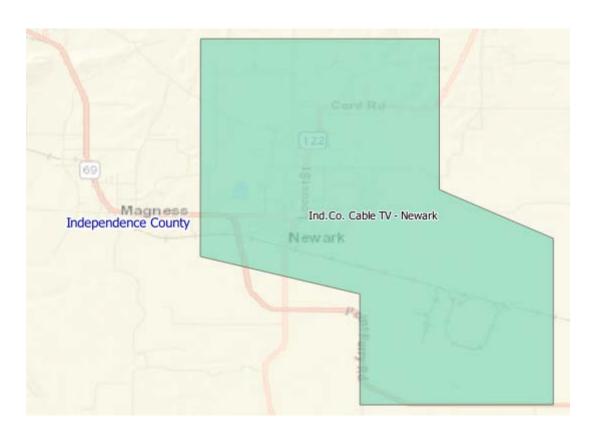


HillBilly - S. Sharpe

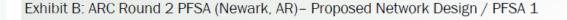


Application	Households	Award request	Technology
IndCo Cable TV - Newark	659	\$6,803,125.00	Fiber

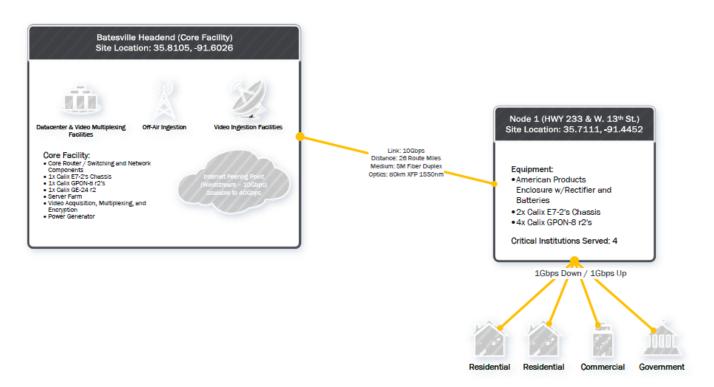
**Total** \$6,803,125.00



### Indco Cable – Newark



September 22, 2021



#### Service Area Details:

- •Area Covered: 29.19 sq mi
- •Fiber (Feeder) Route Miles: 61
- •Fiber (Trunk) Route Miles: 44
- PFSA Materials Total: \$2.113,276
- PFSA Construction Total: \$4,276,645
   Other: 9
- PFSA Other / Misc. Total: \$305,000
- PFSA Total: \$6,694,920
- Application: 100% Buried Plant
- Soil Type: 80% Rock & 20% Dirt/Clay

#### Premise Details:

- Residential: 780
- Commercial: 16
- Agricultural: 4
- Industrial: 6
- Total: 815

#### Services Provided:

- · All sites will deploy services via GPON for Residential and Standard Business Customers (Can provide 2.5Gbps Down and 1.25Gbps Up) • Distributed Split Passive Optical Network \*\*Will Scale to 10GPON\*\*
- · Active Ethernet for Dedicated Commercial, Industrial, and Critical Institutions (Can provide up to 10Gbps Down and 10Gbps Up)

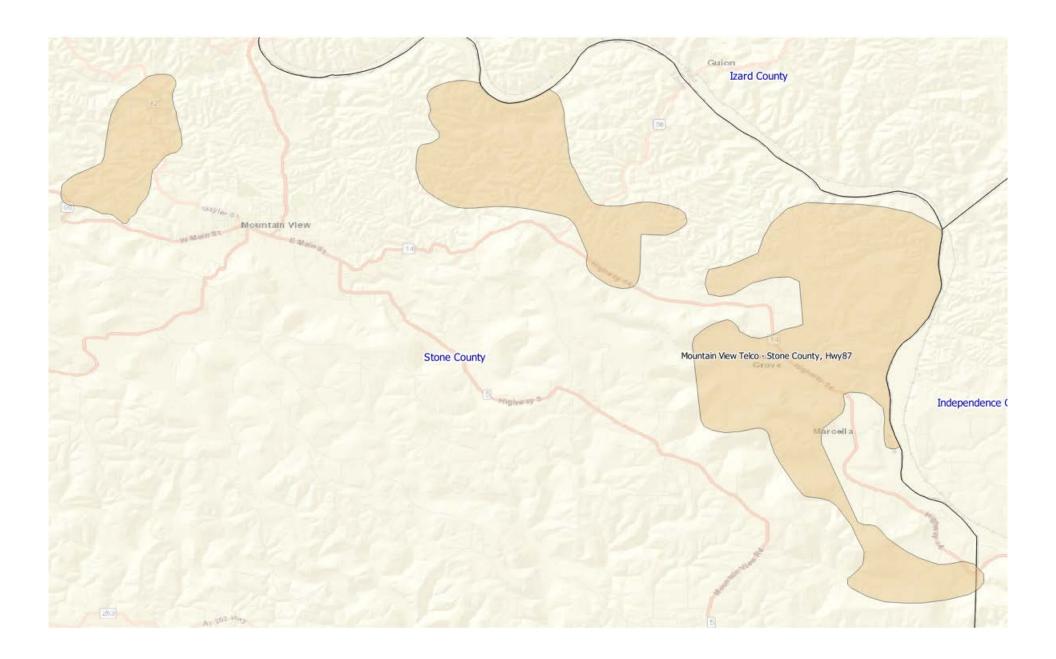
#### Architecture:

- Calix AXOS Modular Platform GPON, 10GPON. & Active Ethernet
- · Can comfortably provide services to premises within 20 route miles from site
- · Multiple fiber paths for redundancy and fail-
- Standby Power w/Battery Backup

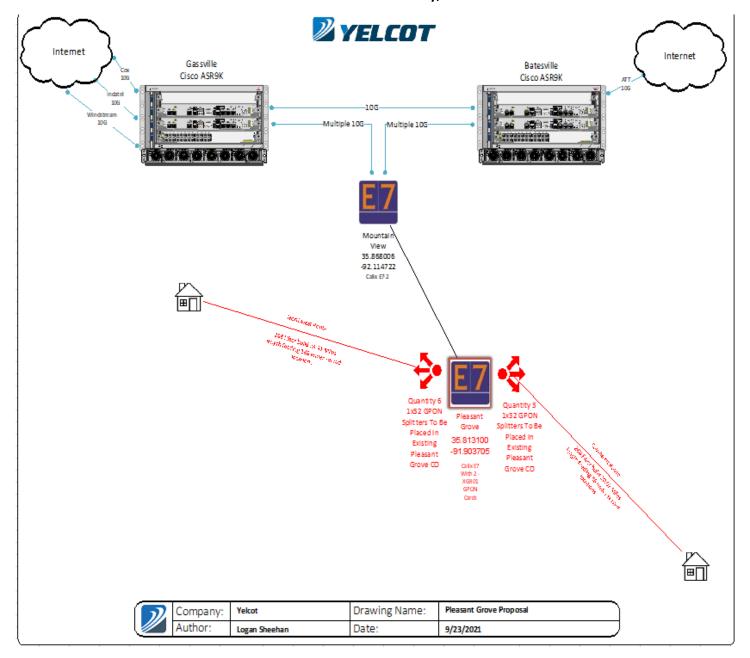


Application	Households	Award request	Technology
Mountain View Telco - Stone Co-Mingues Turner/Hwy 87/Pleasant Grove	497	\$6,066,845.00	Fiber

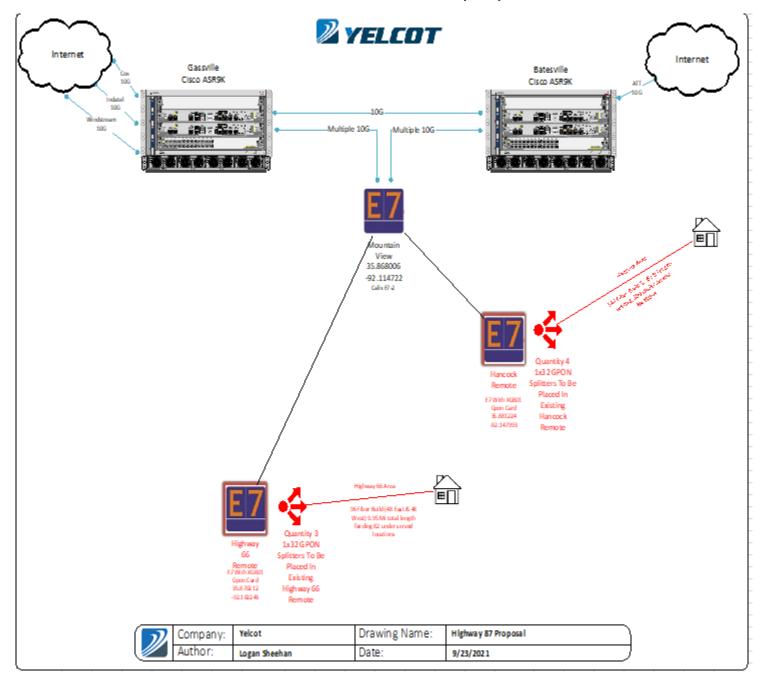
**Total** \$6,066,845.00



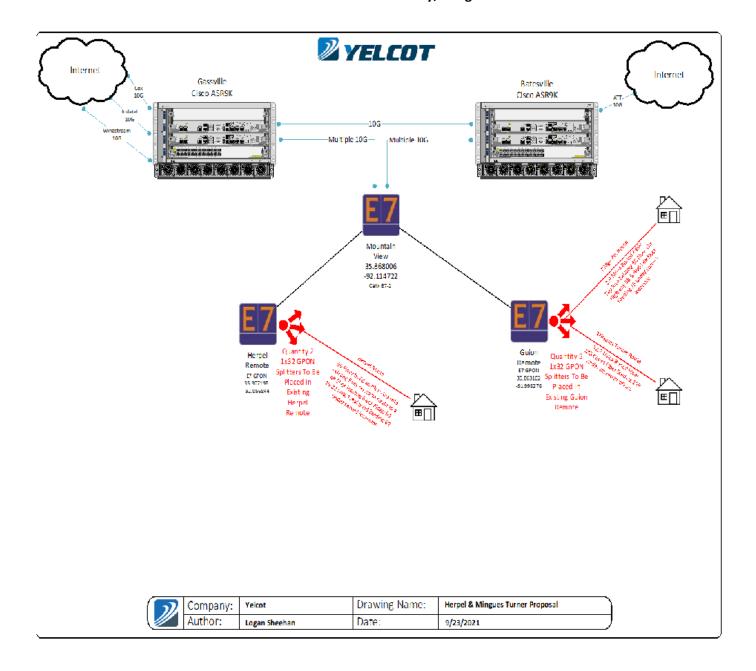
## Mountain View Telco - Stone County, Pleasant Grove



## Mountain View Telco - Stone County, Hwy 87

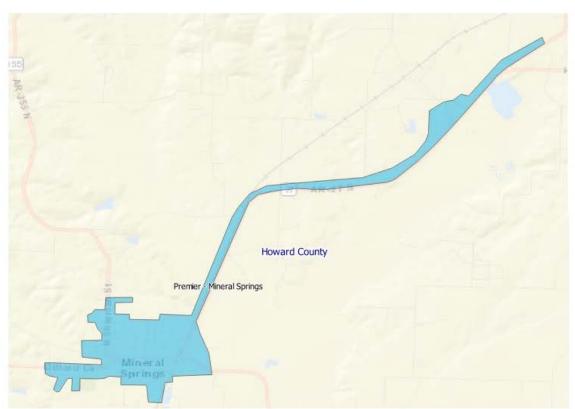


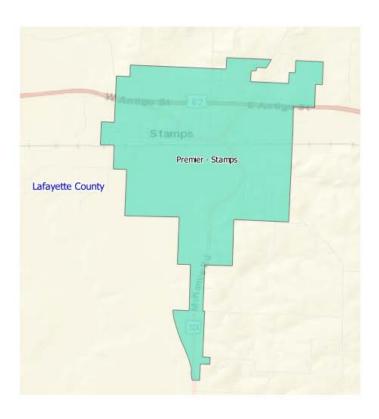
## **Mountain View Telco - Stone County, Mingues Turner**



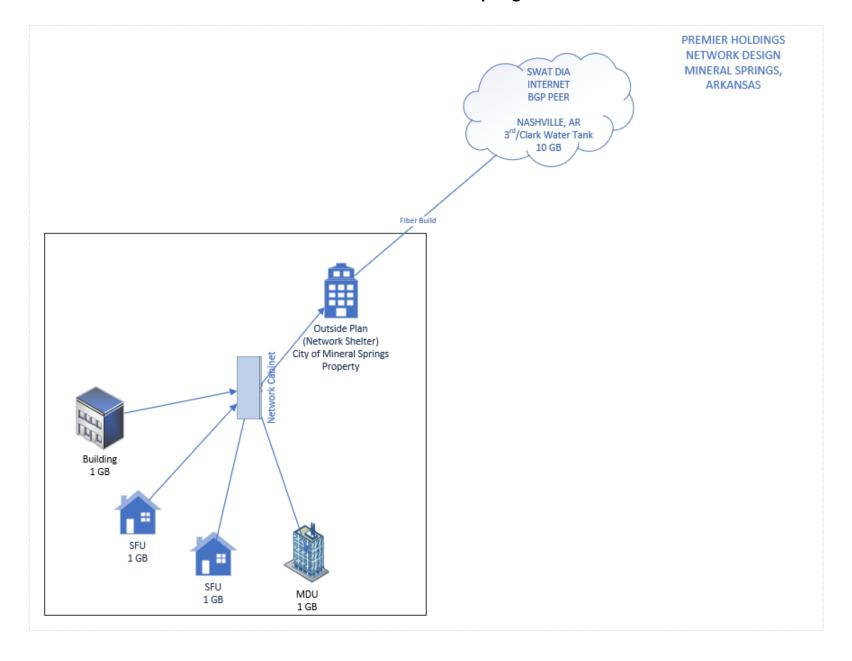
Application	Households	Award request	Technology
Premier Holdings LLC - Mineral Springs	539	\$4,477,692.52	Fiber
Premier Holdings LLC - Stamps	700	\$3,985,912.88	Fiber

**Total** \$8,463,605.40

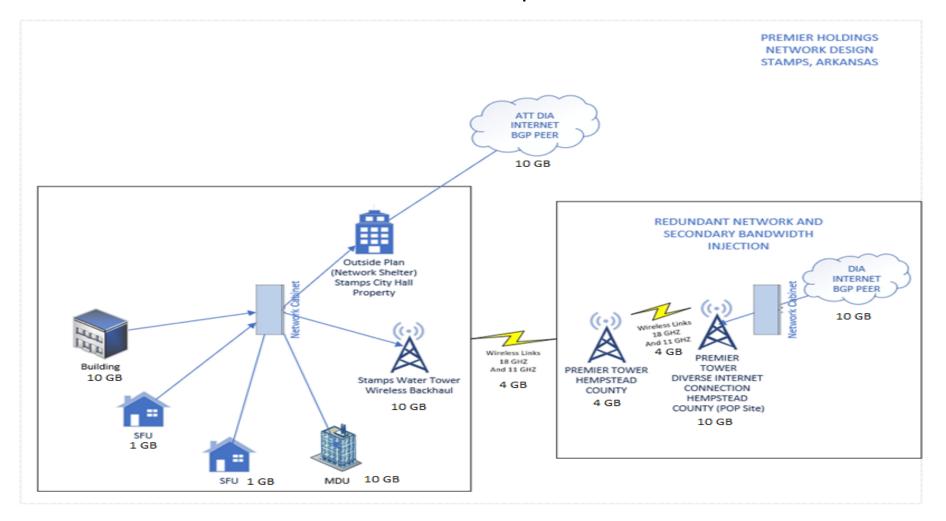




## **Premier – Mineral Springs**

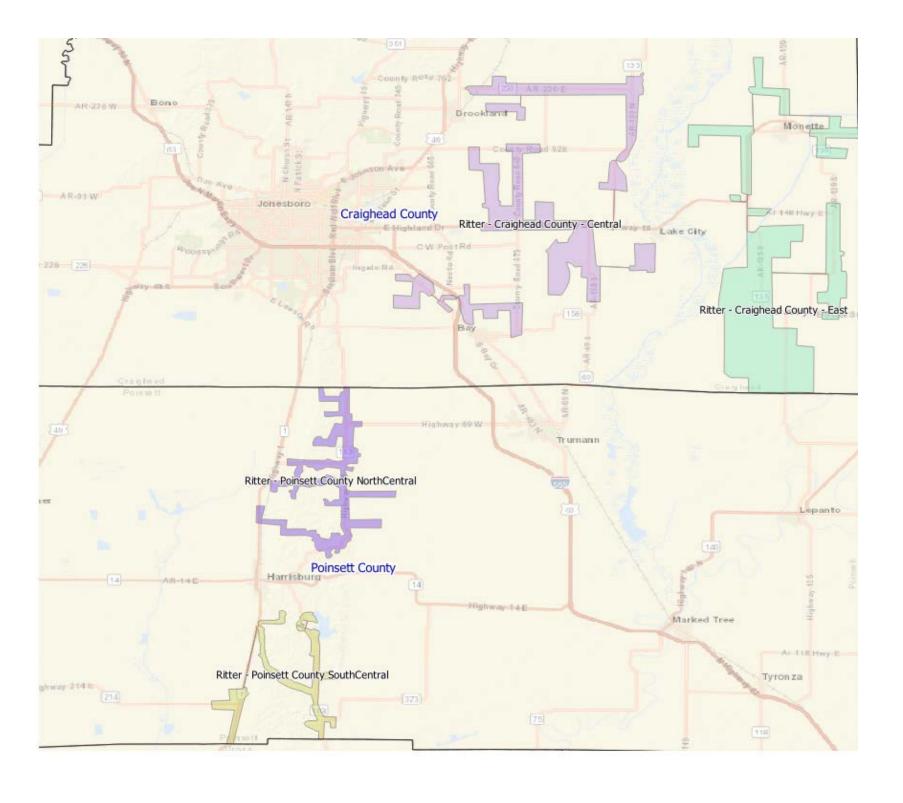


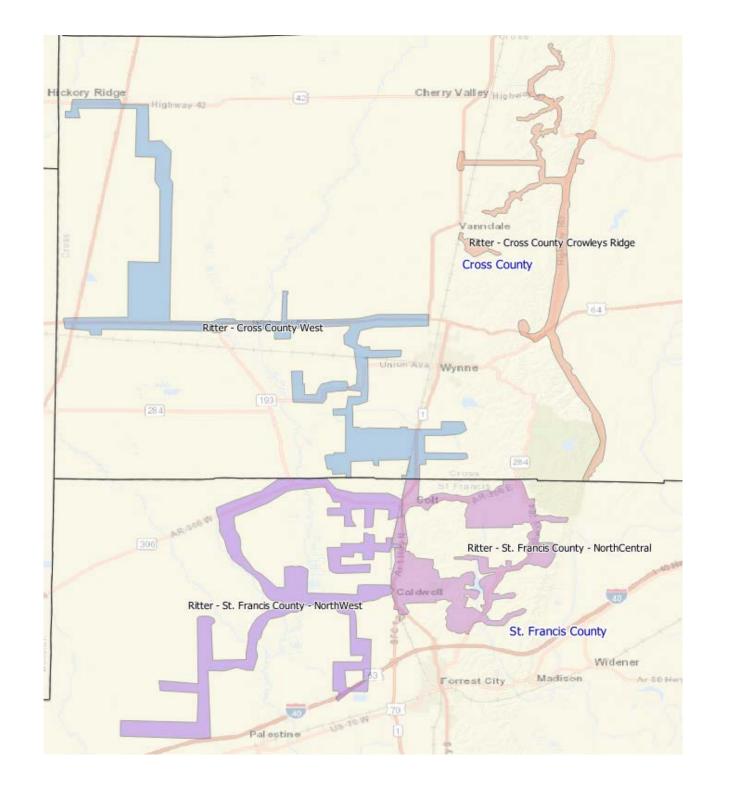
## **Premier - Stamps**

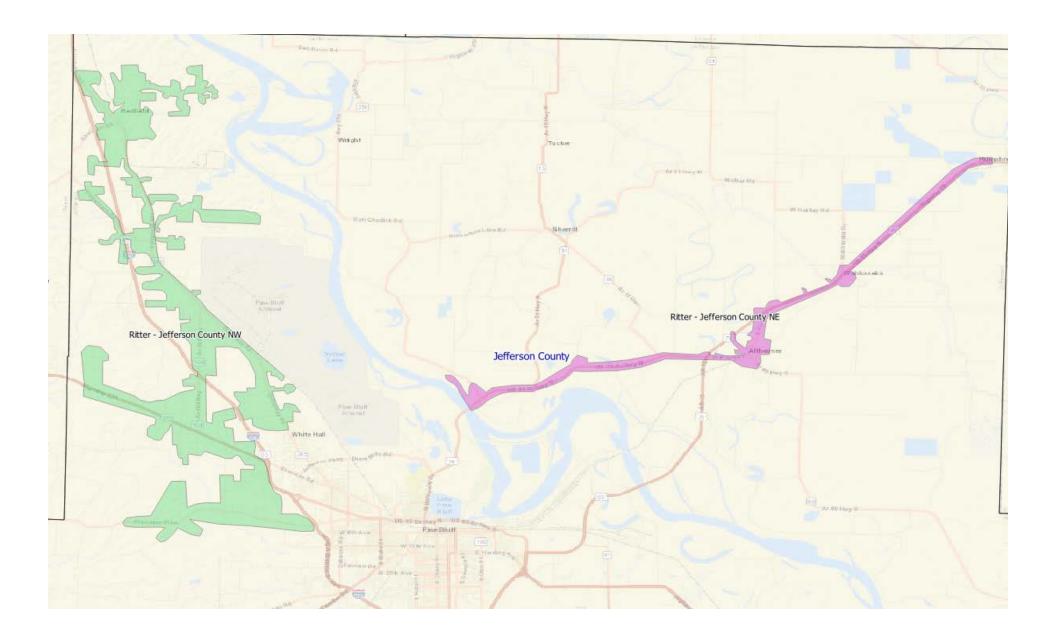


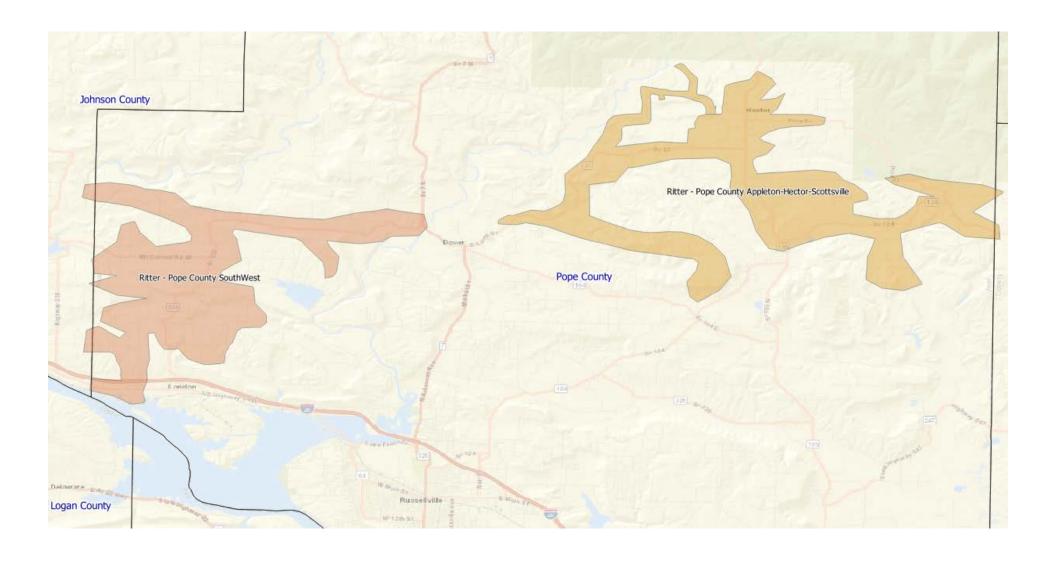
Application	Households	Award request	Technology
Ritter - Craighead County - Central	698	\$3,787,289.00	Fiber
Ritter - Craighead County - East	526	\$3,251,190.00	Fiber
Ritter - Cross County Crowleys Ridge	441	\$3,180,100.00	Fiber
Ritter - Cross County West	588	\$4,257,650.00	Fiber
Ritter - Jefferson County NE	529	\$4,636,917.00	Fiber
Ritter - Jefferson County NW	4,140	\$11,305,061.00	Fiber
Ritter - Poinsett County NorthCentral	504	\$2,893,700.00	Fiber
Ritter - Poinsett County SouthCentral	246	\$1,631,845.00	Fiber
Ritter - Pope County Appleton-Hector- Scottsville	977	\$5,665,012.00	Fiber
Ritter - Pope County SouthWest	772	\$7,053,243.00	Fiber
Ritter - St. Francis County - NorthCentral	1,305	\$4,311,450.00	Fiber
Ritter - St. Francis County - NorthWest	694	\$3,296,875.00	Fiber

**Total** \$55,270,332.00



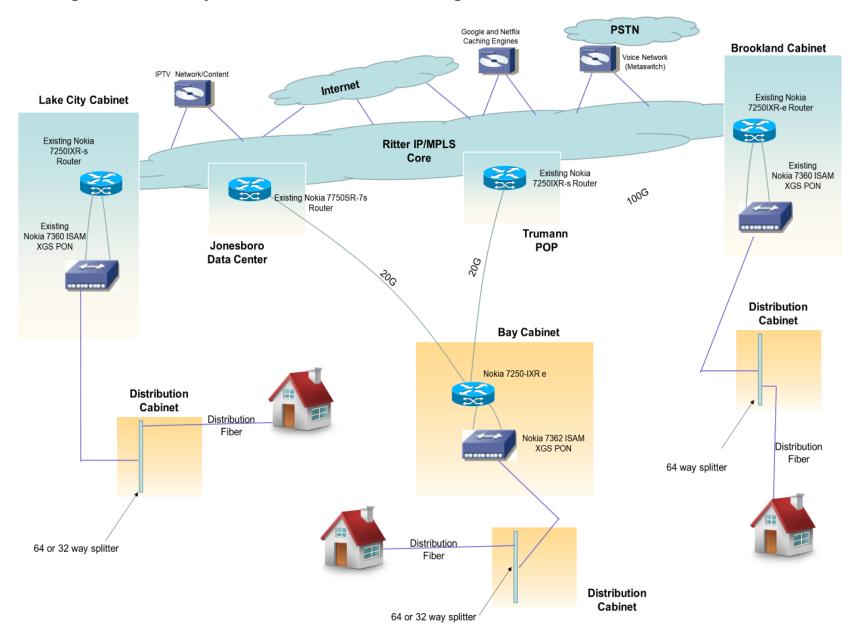






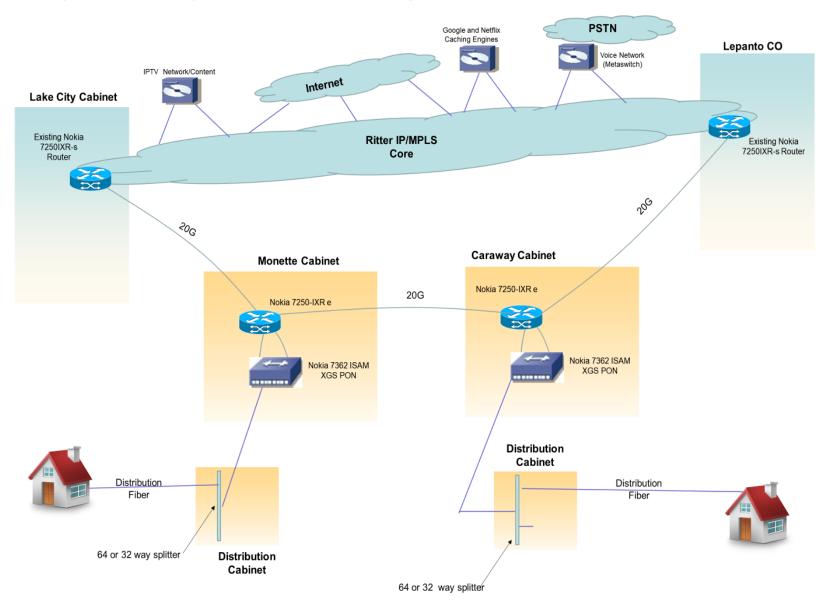
## Ritter - Craighead County - Central

# Craighead County – Central Network Diagram

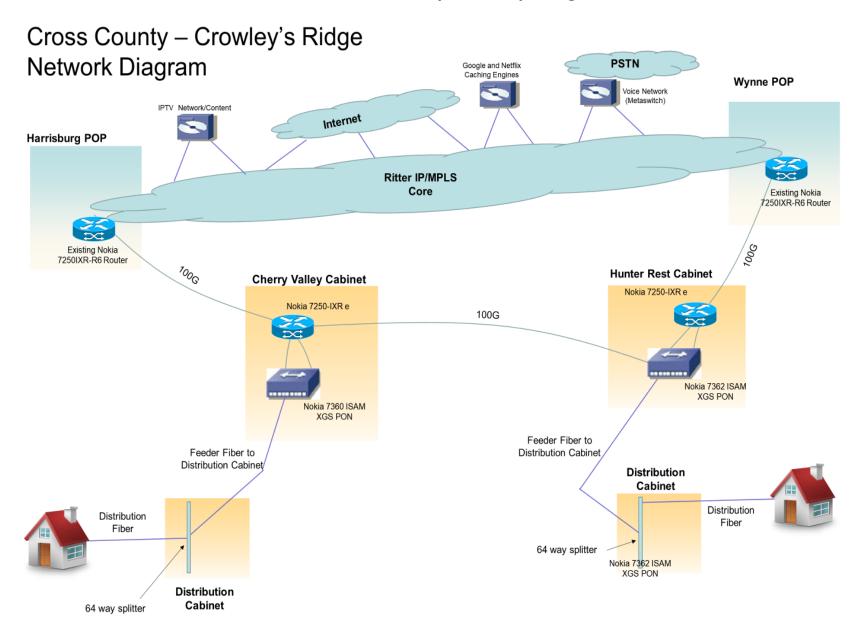


## Ritter - Craighead County - East

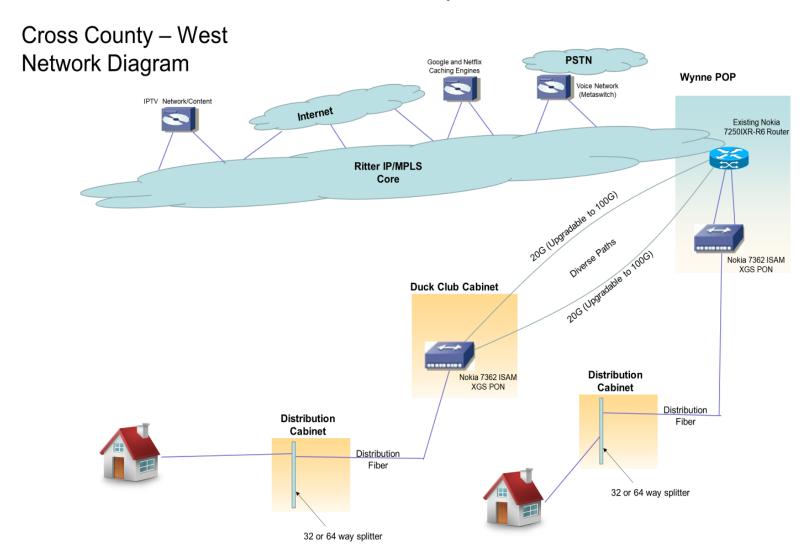
# Craighead County – East Network Diagram



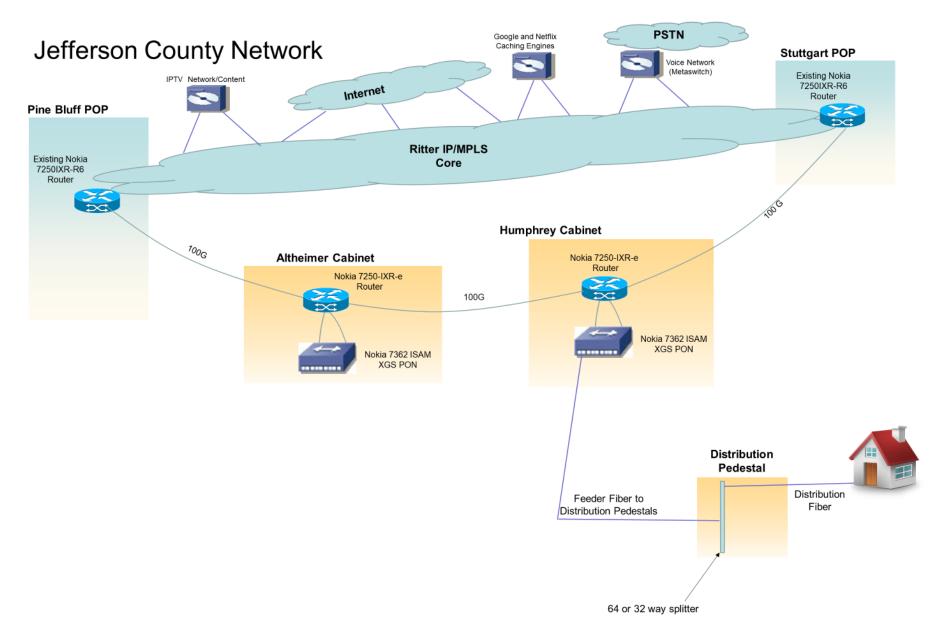
## Ritter - Cross County - Crowley's Ridge



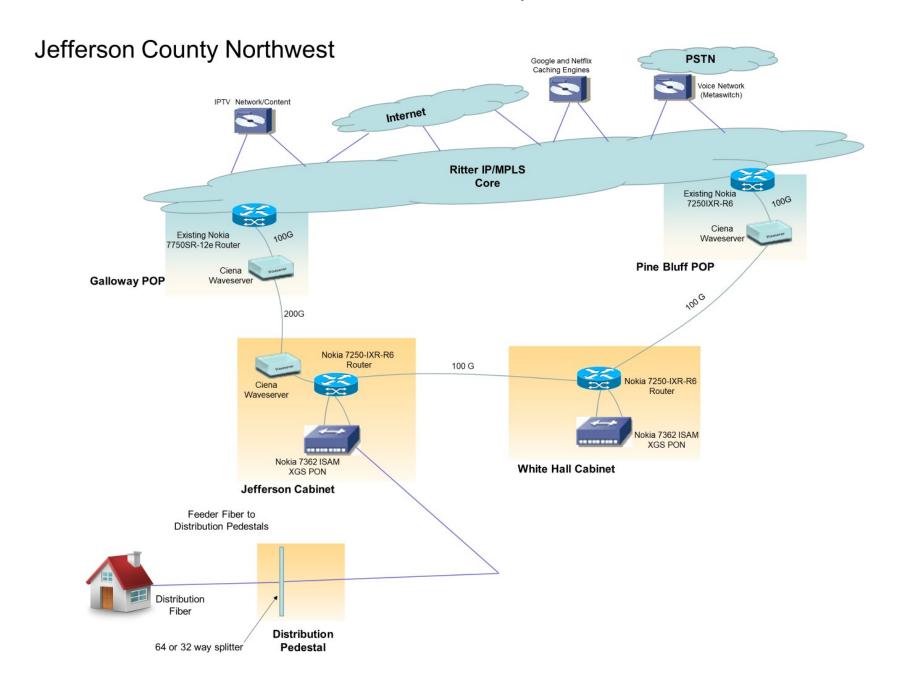
## Ritter - Cross County - West



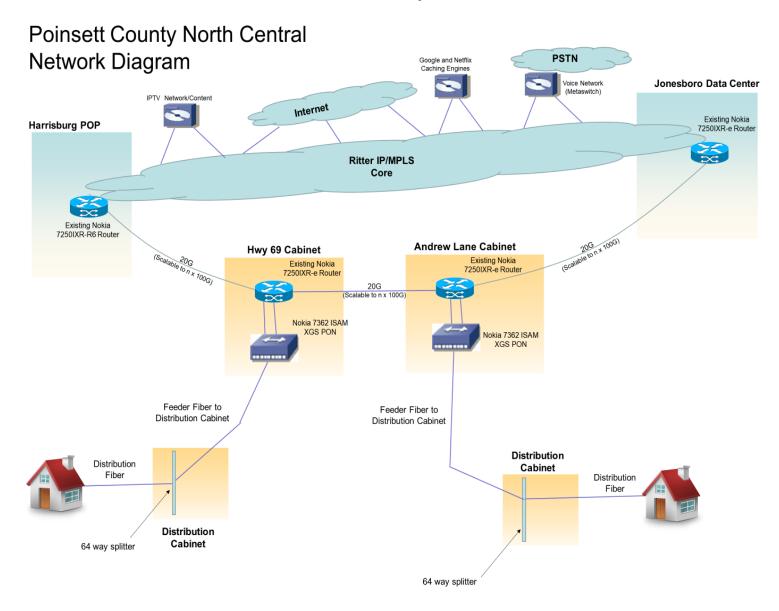
## Ritter – Jefferson County – NE



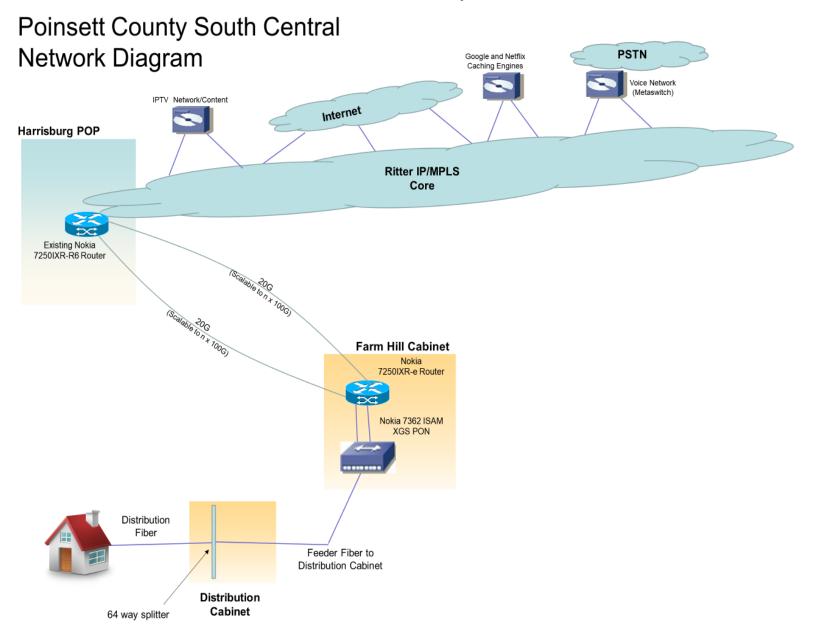
## Ritter - Jefferson County - NW



## Ritter - Poinsett County - North Central

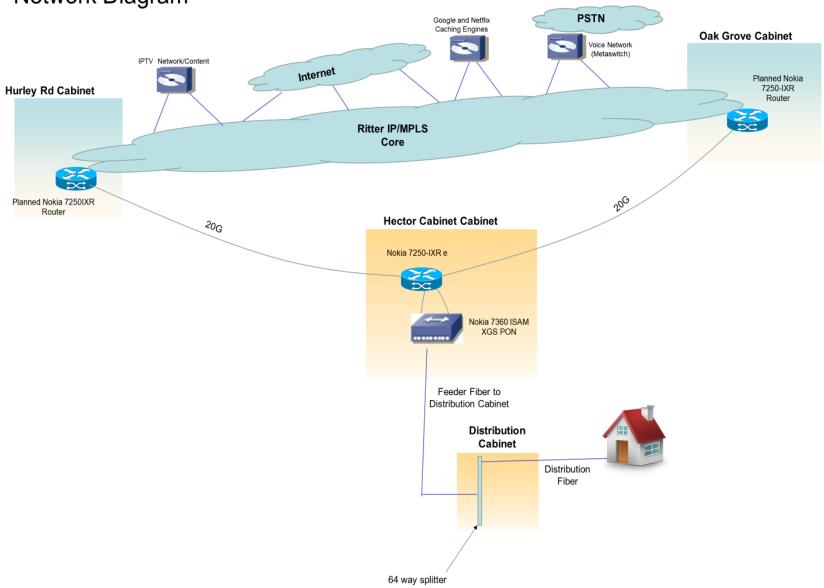


## Ritter - Poinsett County - South Central



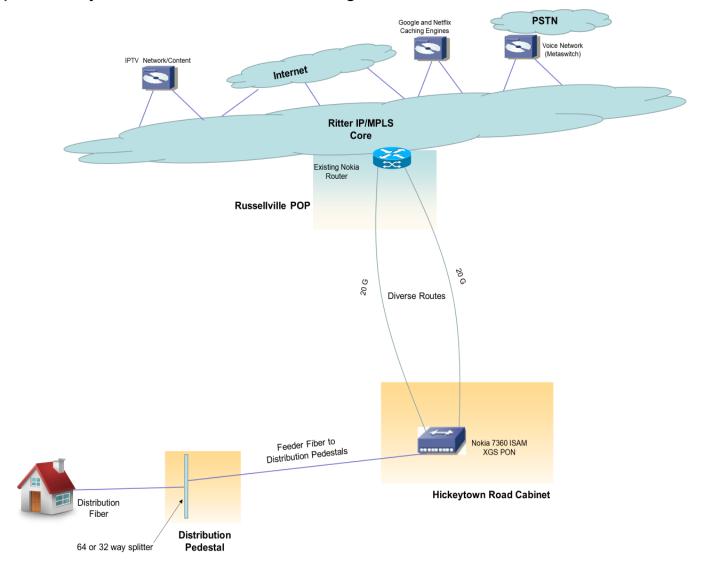
## Ritter - Pope County - Appleton-Hector-Scottsville

Pope County – Appleton-Hector-Scottsville Network Diagram

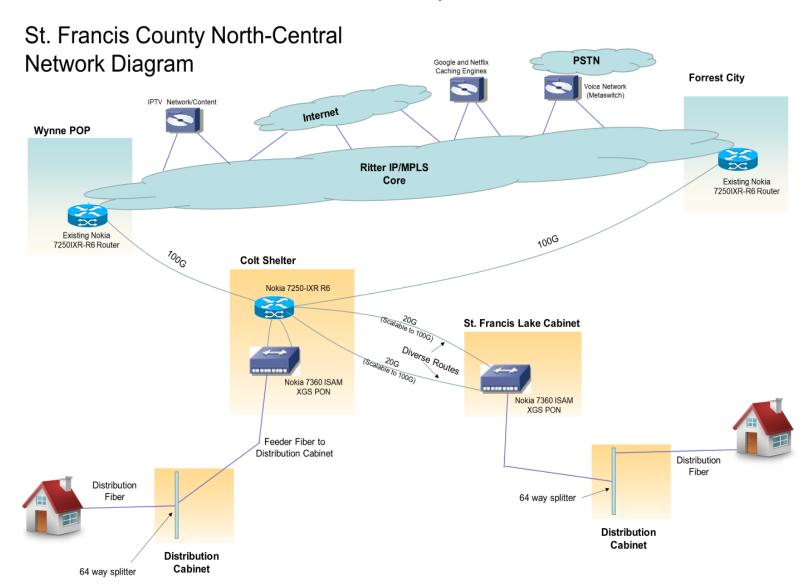


## Ritter – Pope County – Southwest

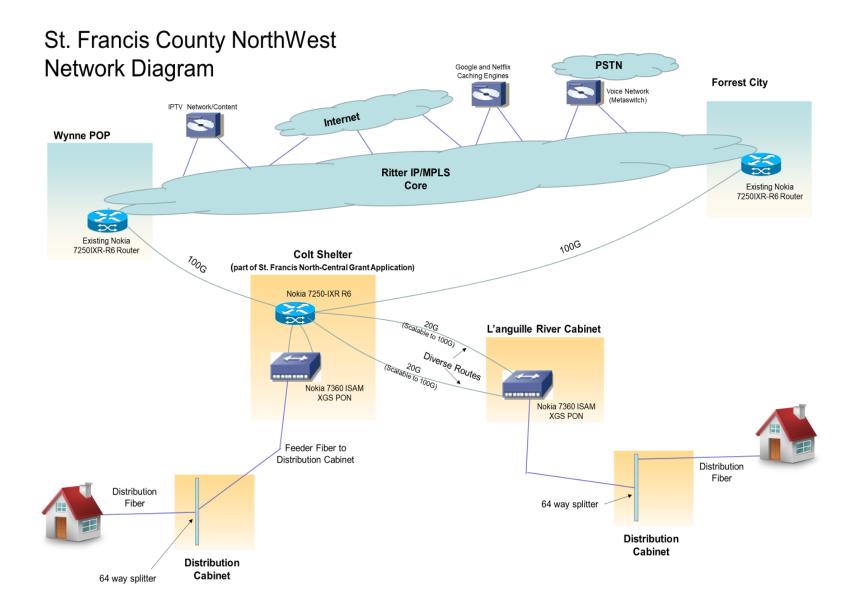
# Pope County – SouthWest Network Diagram



Ritter - St. Francis County - North Central

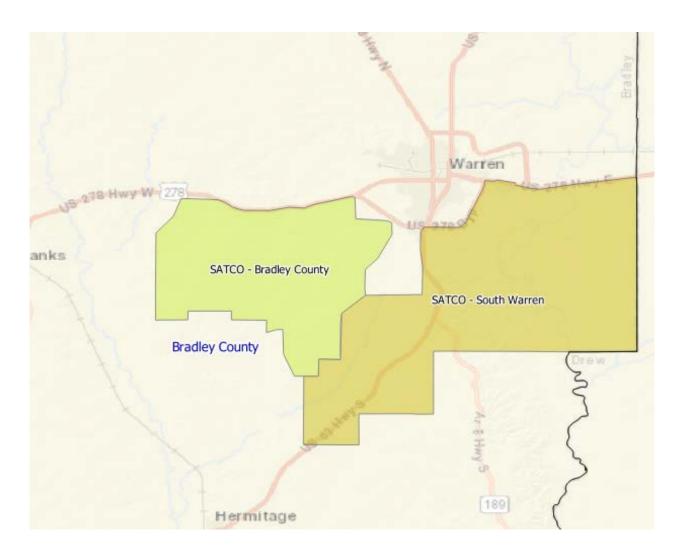


## Ritter – St. Francis County – Northwest

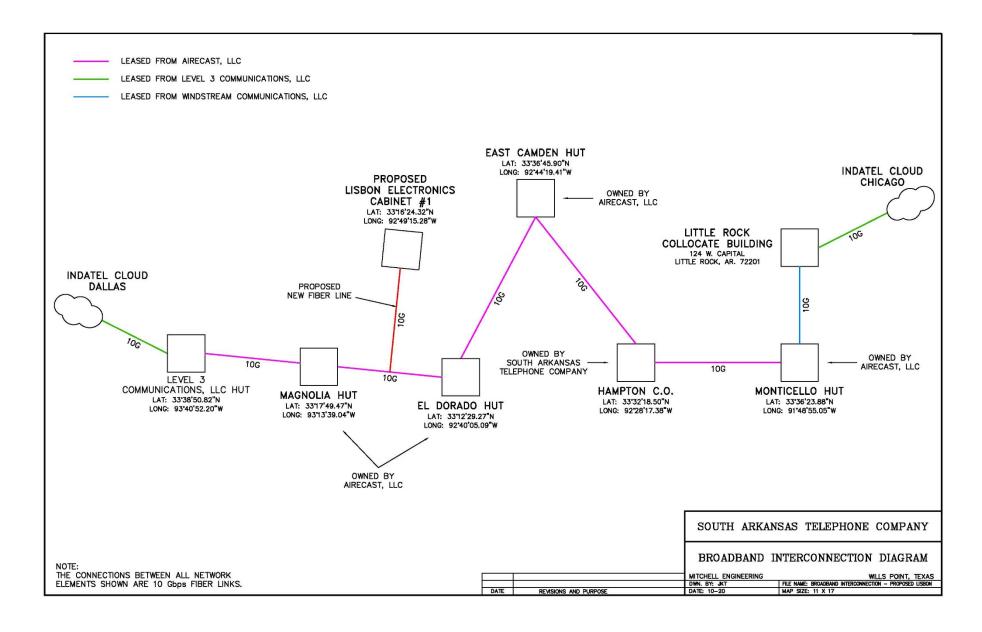


Application	Households	% Served by +25:3 mbps (Form 477 wireline)	Award request	Technology
SATCO - Bradley County	208	35%	\$2,991,357.00	Fiber
SATCO - South Warren	236	73%	\$3,377,110.00	Fiber

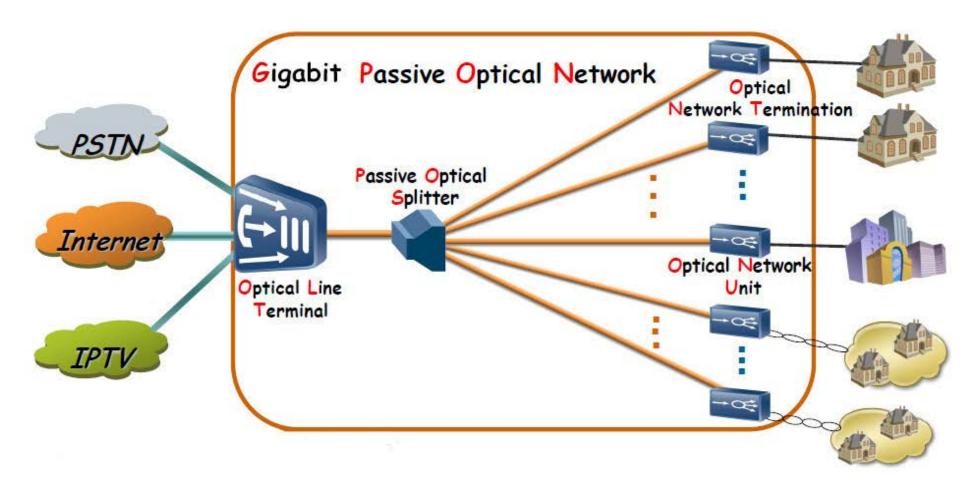
**Total** \$6,368,467.00



#### **SATCO All Projects**

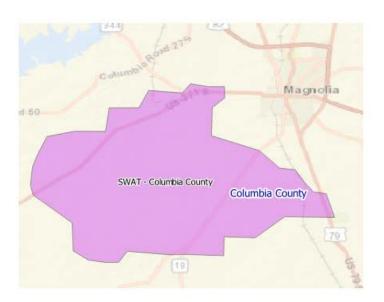


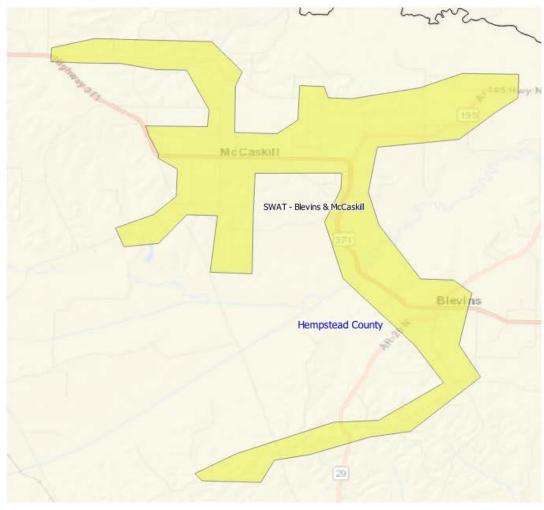
# **SATCO All Projects**



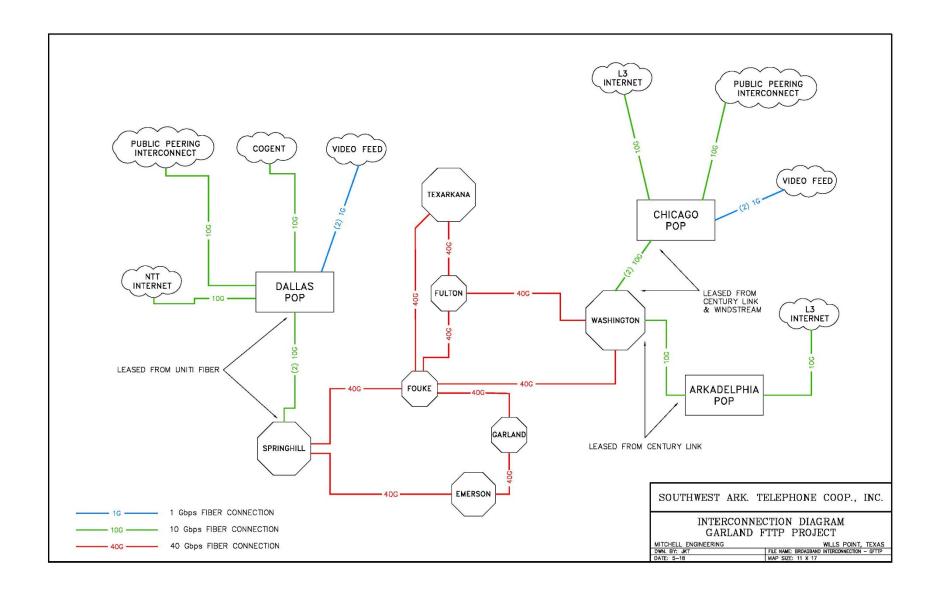
Application	Households	Award request	Technology
SWAT - Blevins & McCaskill	352	\$3,696,764	Fiber
SWAT - Columbia County	633	\$5,494,263	Fiber
		4	

**Total** \$9,191,027

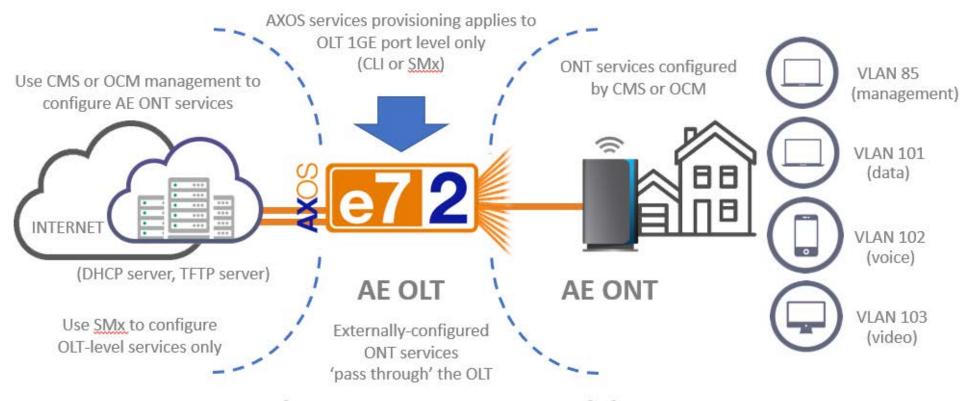




### **SWAT – All Projects**



### **SWAT – All Projects**

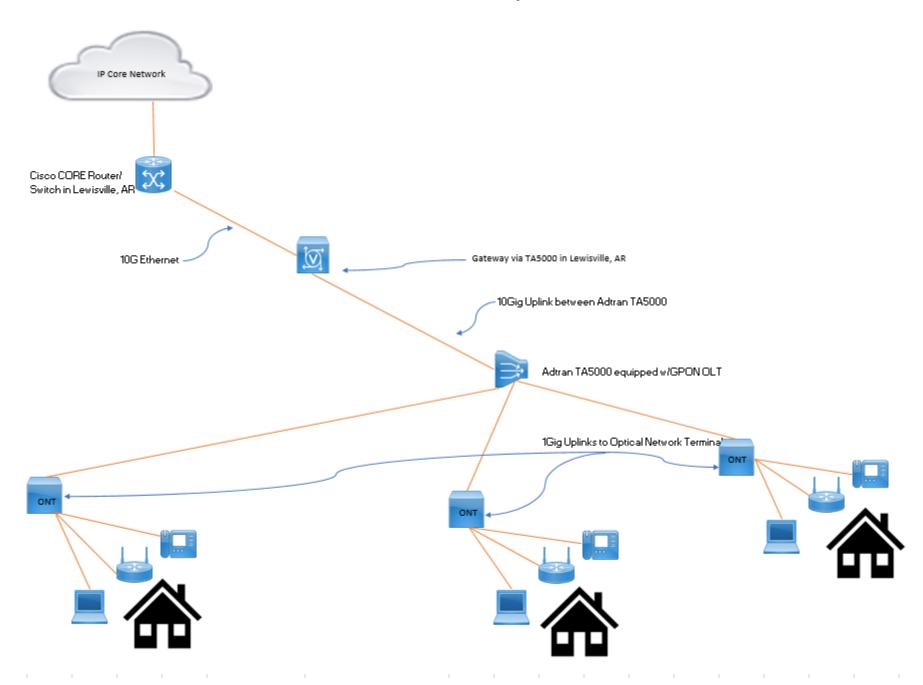


External ONT management model

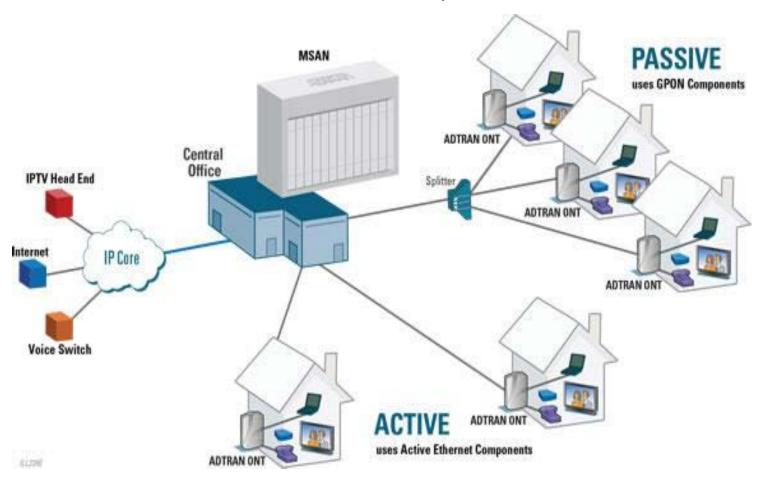
Application	Households	Award request	Technology
Walnut Hill Telephone - Ebeneezer	155	\$1,953,060.00	Fiber
Walnut Hill Telephone - Falcon	131	\$1,419,735.00	Fiber
Walnut Hill Telephone - Medlock	55	\$793,461.00	Fiber
Walnut Hill Telephone - Oak Grove Rd	270	\$1,810,694.00	Fiber
Walnut Hill Telephone - Shiloh	206	\$1,845,485.00	Fiber
Walnut Hill Telephone - South Lake Columbia	271	\$1,943,357.00	Fiber

\$9,765,792.00 Total Nevada County Ouachita County Walnut Hill Telephone - Falcon Walnut Hill Telephone - Shiloh Lafayette County Walnut Hill Telephone - Medlock Walnut Hill Telephone - Ebeneezer Hill Telephone - Oak Grove Rd Columbia County Walnut Hill Telephone - South Lake Columbia

# Walnut Hill – All Projects



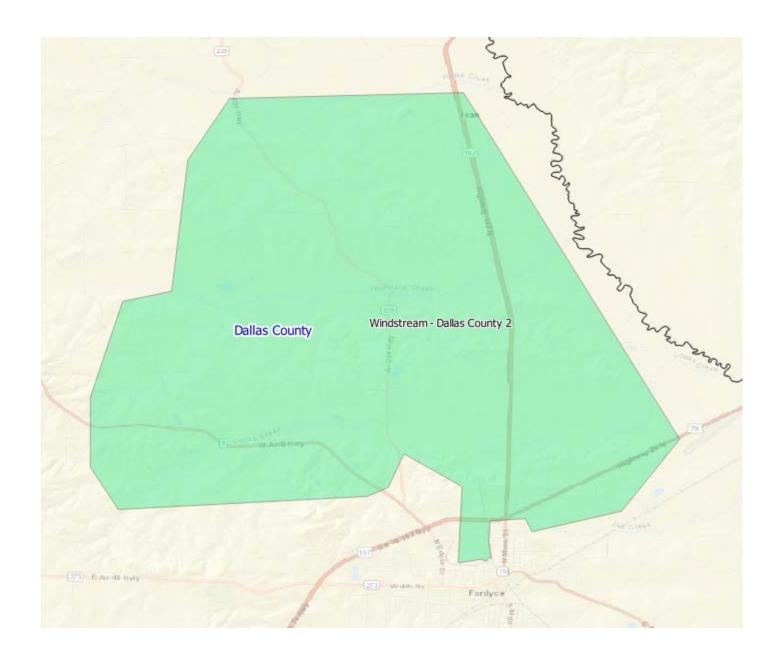
# Walnut Hill – All Projects



Application	Households	Award request	Technology
Windstream - Cleburne County	424	\$2,802,321.00	Fiber
Windstream - Dallas County 2	366	\$2,440,634.00	Fiber
		4	

**Total** \$5,242,955.00





#### Windstream - All Projects

Windstream General Fiber-To-The-Home Network Architecture

Customer Installation Order Not Included in Pre-Existing Network. Not Included in ARC Project Application. **ARC Project Network Build** ARC Project Application. IP/VoIP Core Central Office w/BNG Central Office Outside Plant Fiber **Customer Premise** nx10GE LAG Backbone Card-diverse Fiber 10GE or 100GE (packet-sw wave) Route-diverse Fiber nx10GE LAG Fiber Distribution Fiber and PON Splitter Drop to MSAN/ Multiport Service Terminals Home OLT 10GE or 100GE (packet-sw wave) Multiservice Access Node (MSAN) is a shelf that houses Optical Line Terminal (OLT) equipment in support of PON fiber networks. Windstream deploys both Adtran and Calix MSAN/OLT equipment and considers them equal. Adtran MSAN = TA5000 or TA5004 Calix MSAN = E7 or E3-2 • Fiber, PON splitters and terminals are sourced from multiple suppliers including Commscope and Clearfield. These items are included in the material price per foot.

Specific quantities and cost information included in application spreadsheet.

- Voice (VoIP) Network = Metaswitch
- IP Core = Juniper MX, Nokia 7750 SR-7S
- IP Provider Edge (PE) = Juniper MX and Cisco ASR9K
- IP Broadband Network Gateway (BNG) = Nokia 7750 SR-7/SR-12
- Transport Packet Optical Network (POTS) = Ciena Z-Series, Z77/ Z33/Z22

- Residential Gateway (RG) = Actiontec T3260
- Optical Network Terminal (ONT) depends on MSAN/ OLT vendor and individual customer requirements.
- Adtran Most Common ONTs = TA352, TA411, TA372
- Calix Most Common ONTs = 760GX, 803Gv1, 711GE