Attachment C

Project name: Chambers County Community Broadband Project
Legal name of entity: Roanoke Telephone Company, Inc.
Mailing address: 236 East Capitol St, Jackson, MS 39201
Name and title of CEO: James Garner, Vice President of Operations
Grant Contact: Lisa Wigington, Vice President of Strategic Operations
Phone: 601-354-9070 Email: LisaW@TEC.com
Autonomous System Number: 17253
List Internet Exchange Membership: Digital Realty Atlanta and Equinix Chicago
PeeringDB entries: https://www.peeringdb.com/asn/17253

Other Program Priorities:

1. **Does this project seek to leverage grant funds through private investment?**
    a. YES – The Chambers County Community Broadband Project is an extension of RTC's existing broadband services and outside plant infrastructure to reach the unserved and underserved locations in rural Chambers county, AL that cannot feasibly be reached without grant funding or other opportunities. RTC will provide an 65% match in cash to build the project with a 35% grant award from the Alabama Broadband Accessibility Fund, as evidenced by the letter attached detailing and confirming the amount available to RTC in Attachment B-2 and a copy of the bank statement is available upon request.

2. **Will this project be an extension of existing infrastructure?**
    a. YES - TEC has been meeting the communication needs of the rural south since 1923. Roanoke Telephone Company, Inc. (RTC) is a wholly-owned subsidiary of TEC and has provided voice service since 1951 and internet service since 1995. Currently, RTC serves voice to 2,231 customers in its certificated area and internet service to 2,013 customers in Randolph and Chambers counties, AL and has made broadband available to over 98% of the approximately 160 square miles of the incumbent ILEC service area. Currently, RTC passes approximately 10,675 locations with broadband service in Randolph and Chambers counties in Alabama. With RTC's highly skilled and experienced customer care and technical staff of 11 employees located in Roanoke, AL, the company is positioned to give superior service to customers and has the tier two support from the TEC corporate office located in Jackson, MS for design and construction of fiber plant and maintenance of the network. The equipment strategy for this expansion project is to leverage existing fiber to deploy a Gigabit Passive Optical

Network (GPON) Fiber to the Home (FTTH) solution using the Adtran TA5000 platform. Customers served by a GPON connection will have a 2.4Gbps/1.2Gbps GPON connection from the Optical Network Terminal (ONT) at their home through designated distributed 1:32 optical splitters to the serving remote Optical Line Terminal (OLT). The Chambers County Community Broadband Project will not require upgrades to the existing RTC network but will be an extension of that network and infrastructure utilizing the FTTH network design described here.

This GPON capacity will easily scale to provide Gigabit service for these customers. However, if more bandwidth were to be required, NG-PON2 or XGS-PON at 10Gbps or Point to Point 10Gbps connections or higher could be deployed on an as-needed basis over the proposed Fiber optic cable. Latency within the proposed Adtran FTTH equipment ranges from microseconds to around 3-5ms, depending on location.
A centralized network operations center (NOC) is located in Jackson, MS and operated by another wholly owned subsidiary (LecNet, Inc.) of RTC's parent company, Telephone Electronics Corporation (TEC) and has multiple 10 GB redundant transport routes from the company to the NOC. LecNet's Internet peering connections and routers are monitored by the NOC personnel and three upstream providers, Cogent, CenturyLink and AT&T, to ensure redundancy and adequate bandwidth and IP addresses are available to our broadband customers. LecNet also peers at 350 East Cermak (Chicago) and 56 Marietta (Atlanta) via multiple CSpire 10 Gbps transit links. Additionally, LecNet hosts Netflix, Google and Akimai caching servers at the NOC in order to minimize streaming congestion on the network. In total, LecNet has 50 Gbps of internet transport and transit bandwidth, with the ability to scale it higher as bandwidth usage grows. This network facilitates excellent response times across the network with minimal latency. Overall latency from LecNet's network edge to our Internet peering locations is typically well below 20ms.

3. **Does this project serve locations with demonstrated community support?**
   a. YES – The Five Points and Fredonia Communities, as well as Chambers County, have been tremendously supportive and showed great interest in this proposed project. Below is a summary matrix of the community leaders, schools, local government and economic development entities, safety entities and health care organizations who graciously sent letters of support (Attachment C-1 contains copies of the letters).

Community Support

Community Support	Contact Person	Type of Commitment
City of Lanett Fire and EMS	Chief Johnny H. Allen	Supports the Chambers County Community Broadband Project and sites the need for internet for EMS to provide medical emergency response and patient care.
Congress of the United States House of Representatives	Senator Mike Rogers	Supports the Chambers County Community Broadband Project.
Chambers County Development Authority	Valerie Gray, Executive Director	Supports the Chambers County Community Broadband Project. Will partner in and support the digital literacy program planned for the library and school district for online safety for children as well as the online training geared toward workforce readiness and economic growth
Alabama House of Representatives	Bob Fincher, Representative District 37	Supports the Chambers County Community Broadband Project.
Chambers County Commission	Sam Bradford, Chairman	Supports the Chambers County Community Broadband Project.
Randolph County Health Care Authority	William Caypless Chairman	Supports the Chambers County Community Broadband Project and the need for access to telemedicine in rural communities.
Chambers County School District	Casey Chambley, Superintendent	Will participate in and support the digital literacy program planned for the library and school district. Also requests internet access for students living in the area to have broadband access from home to use their school issued devices for homework.
Alabama State Senate	Senator Randy Price, District 13	Supports the Chambers County Community Broadband Project.
Chambers County Sheriff	Sid Lockhart, Sheriff	Supports the Chambers County Community Broadband Project. Service important for routine patrol, investigation of crimes and assistance in communication for search and rescue.
Chambers County Emergency Communications District, Inc.	Jessica Yeager, Director	Supports the Chambers County Community Broadband Project for additional first responder training and broadband access for communication during emergencies and rapid dissemination of alerts and warnings to the community.
Annie L. Awbrey Public Library	Margaret Calhoun, Director	Will partner in and support the digital literacy program planned for the library and school district

		for online safety for children and workforce readiness and economic growth
48 home owners in the PFSA	Various	Signed letters of support and confirmation there is no adequate broadband service available

4. **Will this project serve the highest number of unserved homes, businesses, and community anchor points for the least cost?**
    a. YES – The Chambers County Community Broadband Project has been modeled based on an average per mile cost of other fiber projects constructed by TEC in this area and the project will be open to bid by qualifying OSP contractors, assuring a competitive rate per mile for construction of mainline or distribution fiber. Local outside plant employees or the contractor will bury the drop fiber and install the CPE to turn up the customers.
    b. **Number of Households and Businesses Passed:** The Chambers County Community Broadband Project service area includes a total population of approximately 380. This area represents an estimated 152 locations in approximately 3 square miles per the E911 addresses in the area and the RUS broadband mapping tool located at (https://broadbandsearch.sc.egov.usda.gov/bsa). Per RTC research two of these locations are businesses and the remaining locations are residential.
    c. **Number of Critical Community Facilities, Public Safety Entities, etc.:** Per the sheriff of the Chambers County Sheriff's Office, the superintendent of the Chambers county school district, and the chief of the Lanett Fire and EMS all critical community facilities who are not located in the proposed funded service area, but serve this community, broadband is essential for these entities to function. Many students live in this area and need access for homework or virtual learning, employees of the Sheriff's office and EMS live in this area and need access for first responder training and to receive communication from these entities to provide these services to the area. These needs have been documented in the attached letters of community leader support.

5. **Does this project emphasize the highest broadband speeds?**
    a. YES – RTC will be able to serve Gigabit service to these customers. The equipment strategy for this expansion project is to leverage existing fiber to deploy a Gigabit Passive Optical Network (GPON) Fiber to the Home (FTTH) solution using the Adtran TA5000 platform. Customers served by a GPON connection will have a 2.4Gbps/1.2Gbps GPON connection from the Optical

Network Terminal (ONT) at their home through designated distributed 1:32 optical splitters to the serving remote Optical Line Terminal (OLT). The Chambers County Community Broadband Project will not require upgrades to the existing RTC network but will be an extension of that network and infrastructure utilizing the FTTH network design described here.

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6. **Will this project provide material broadband enhancements to hospitals located in rural areas as defined in Section 22-21-20, Code of Alabama 1975?**
   a. YES – The Department of Veterans Affairs now has a telehealth service available from veterans at home if a broadband connection is available. There are many telehealth resources that are used to deliver care to a patient. However, VA's Video on Demand has been an important resource for providers and patients. Veterans don't need to be at a clinic to speak with their provider thanks to VA Video on Demand. Providers refer appropriate patients to participate in this program. This telehealth tool is a secure, web-enabled video service, connecting Veterans with their providers. www.va.gov **VA » Veterans Health Administration »**

Telehealth Revolutionizing Veterans Health Care

b. Many patients who live in rural areas will not have to travel as far to see their doctors thanks to the University of Alabama at Birmingham which is expanding its telehealth network. Access to health care is limited in many of the state's rural counties. Death rates from cardiovascular and oncologic illnesses, and diabetes are significantly higher for rural Alabamians than for those living in urban areas. The majority of Alabama's medical specialists are located in the state's larger cities; but a large percentage of the state's population lives outside those areas, making it difficult for them to receive care. While currently patients can go to the Alabama Department of Public Health county health departments to utilize this technology for their appointments. The time is near when these appointments will be done from the residence through an online portal.

7. **Will this project support local libraries in this state for the purpose of assisting the libraries in offering digital literacy training pursuant to state library and archive guidelines?**
   a. YES – Roanoke Telephone Company, Inc., dba: TEC has created and launched a Digital Literacy Training plan and created an online learning portal, see Attachment C-2. RTC has reached out to the local community, including the Chambers County Schools, the Chambers County Chamber of Commerce and the Annie L. Awbrey Public Library to provide live classroom training for internet safety for children and parents, as well as, access to and training on how to use the TEC Digital Literacy Portal provided by TEC at http://www.driveyourlearning.org/co/tec.html as part of TEC's Roadmap to Improve Digital Literacy training plan (see comprehensive plan - Attachment C-2). TEC has provided the presentations and a train the trainer program with the library and the schools.

Course categories consist of the titles below and more will be added:

- Internet and Computer Basics
  - Introduction to E-Mail
  - Introduction to the Internet
  - Evaluating Web Pages
  - Internet Safety
  - Microsoft Word 2010: Unit 1
  - Microsoft Word 2010: Unit 2
  - Computer Basics
  - Mouse Tutorial
  - Windows 8
  - Creating an Email account: Gmail
  - Starting on the Computer

    - DigitalLearn-Intro to Email
    - Using the Internet
    - Windows10

- Job Skills
    - Cover Letters
    - Networking Basics
    - Interviewing 101
    - Job Applications
    - Business Planning 101
    - Guide to Starting a Business
    - Small Business Cybersecurity
    - Resume Writing

- Social Media
    - Getting Started with Pinterest
    - Instagram Basics
    - Facebook 101
    - Etsy 101
    - LinkedIn Basics
    - LinkedIn for Job Seekers

- Life Skills
    - Money Basics
    - Guide to Buying a Car
    - Guide to Buying a Home
    - Essentials of Nutrition
    - Guide to Starting a Business
    - Taxes 101
    - Business Planning 101
    - U.S. Citizenship Exam Prep
    - Credit 101

- General Education
    - SAT Math Preparations
    - The GED Test Tutorial
    - Selling on EBay
    - GMAT – Test Prep
    - Documentation (DAP skills)

- Basic Programming
    - Programming Fundamentals
    - Get Your Business Online
    - Introduction to HTML
    - Introduction to Ruby
    - JavaScript

- jQuery
- Introduction to CSS
- PHP Basics
- GESMV – Job Success

8. **Is the applicant a certified Minority Business Enterprise under the Alabama Minority Business Enterprise Program? Or is it certified under another Disadvantaged Business Enterprise Program?**
    a. NO – However, RTC uses KGPCo as its primary distribution vendor for electronics and materials. KGPCo is certified by the Women's Business Enterprise National Council (WBENC) and California Public Utilities Commission Utilities Supplier Diversity Program as a Women Business Enterprise (WBE). KGPCo is committed to actively seeking products and services from diversity organizations to further the efforts of broad collaboration and the advancement of these companies.