



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

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## A. General Application Information

1. Applicant Information	
1-A. Name, Address, and Federal ID for Applicant	
<b>i. Legal Name:</b>	Columbia County Georgia IT
<b>ii. Employer/Taxpayer Identification Number (EIN/TIN):</b>	586000807
<b>Street 1:</b>	630 Ronald Reagan Drive
<b>Street 2:</b>	PO Box 498
<b>City:</b>	Evans
<b>County:</b>	Columbia
<b>State:</b>	GA
<b>Country</b>	United States
<b>Zip/Postal Code:</b>	30809

1-B. Name and Contact Information of Person to be Contacted on Matters Involving this Application:	
<b>Prefix:</b>	Mr.
<b>First Name:</b>	Lewis
<b>Middle Name:</b>	
<b>Last Name:</b>	Foster
<b>Suffix:</b>	
<b>Telephone Number:</b>	706-312-7325
<b>Fax Number:</b>	706-868-3398
<b>Email:</b>	lfoster@columbiacountyga.gov
<b>Title:</b>	IT Manager



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<b>1-C. Other Required Identification Numbers</b>	
<b>i. Organizational DUNS:</b>	072471667
<b>ii. CCR # (CAGE):</b>	5KNP0
<b>iii. Funding Opportunity Number:</b>	1
<b>iv. Catalog of Federal Domestic Assistance Number:</b>	<b>BTOP CFDA Number:</b> 11.557 <b>BIP CFDA Number:</b> 10.787 <b>BTOP CFDA Title:</b> Broadband Technology Opportunities Program <b>BIP CFDA Title:</b> Broadband Initiatives Program

**1-D Eligible Entities**

Please classify your organization. (Note: If there are multiple organizations involved in the project, designate the lead applicant that would enter into a Loan or Grant agreement with the Agency and assume operational and financial responsibility should an award be made). **Political subdivision of a State, including Local or County Government**

**1-E. RUS Borrower Status**

No

**1-F. Applicant Federal Debt Delinquency Explanation**

Is the Applicant Delinquent On Any Federal Debt? **No**  
**Federal debt delinquency Explanation:**

**2. Project Description & Project Title**

**2-A. Project Title:** Columbia County Community Broadband Network (CCCBN)

**2-B. Project Description:** The CCCBN will provide state-of-the-art communication services while enhancing broadband communication options to the current and future citizens of Columbia County. The Network will provide infrastructure for affordable bandwidth and services, and will integrate public



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safety, public health, education and other government use, to provide an essential next step in government services.

**3. Application ID for Multiple Submissions for Identified Service Areas:**

**4. Rural Area Determination**

At least 75 percent of the proposed service area to be funded falls within rural areas that are unserved or underserved.

**No**

**5. Applications for Rural Areas:** Please choose the funding program(s) to which you are submitting this application.

a) BIP broadband infrastructure category to which you are applying:

b) Would you like this Application for Rural Areas to also be considered for BTOP funding?

c) BTOP Infrastructure category for which you are applying.

**Middle Mile**

**6. Applications for All Other Areas: Per the NOFA, all applications to fund broadband infrastructure projects in areas that are less than 75% rural must be submitted to NTIA for consideration under BTOP.**

BTOP broadband infrastructure category to which you are applying: **Middle Mile**

## **B. Eligibility Factors**

**7. Application Submission**

**BIP and BTOP Factors Selected By Applicant:**

**Applicant has submitted a completed application and provided all supporting documentation required for**



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the application.
The Project will be substantially complete within 2nd year from the award date, and the project will be fully complete by the end of the 3rd year from the award date.
For projects seeking more than \$1 million funding, the Applicant agrees to submit a certification, from a Professional Engineer, that attests that a) the system will deliver the stated performance; and b) the projected project will be substantially completed within two years, and fully completed within three years.
The Applicant provides two-way data transmission with advertised speeds of at least 768 kbps downstream and 200 kbps upstream.
Applicant understands and agrees to comply with the nondiscrimination and interconnection obligations outlined in the NOFA.
If applying for a last mile Broadband Infrastructure project, applicant understands and agrees to comply with the last mile coverage obligations as outlined in the NOFA.

<b>Additional Factors for BIP Selected By Applicant</b>

<b>Additional BTOP Factors Selected By Applicant</b>
<ul style="list-style-type: none"> <li>• Conformity with Statutory Purposes</li> <li>• Cost Sharing/Matching</li> <li>• Reasonableness of Project Budget</li> </ul>
The project advances at least one of the statutory purposes for BTOP



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Applicant has provided documentation that the project would not have been implemented during the grant period without federal grant assistance.

Applicant has provided a budget that is appropriate to the proposed technical solution and only includes eligible costs.

- **Demonstration the Project Could not be Implemented But For Federal Grant Assistance**  
Applicant is providing matching funds of at least 20 percent towards the total eligible project costs?  
Yes

**7-k. Cost Sharing/Matching Fund Explanation**

## C. Executive Summary

### Executive Summary of Project for BIP and BTOP:

#### 8. Infrastructure Projects Executive Summary Overview

Columbia County, Georgia is a community in East Georgia that adjoins Augusta. The Northeastern portion of the county is relatively affluent, while the southern and western parts of the county are economically challenged and sparsely populated. The Northeastern section, which comprises approximately 40% of the County, has reasonable commercial broadband access while the remaining 60% is economically challenged and has very limited or no access. Due to the low subscriber densities in these areas, it is difficult for a commercial entity to justify the investment necessary to provide reasonable broadband access to these economically challenged communities. The State of Georgia has classified the county as an area in critical need of enhanced broadband connectivity.

The objective of this application is to establish a network that will provide increased broadband



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and wireless access to the entire community, especially the economically challenged areas. The network will be used to improve the quality of life in these areas and enhance employment opportunities. The County government is proposing to channel its existing IT expenditures to support the establishment and maintenance of the new network.

The network will be open to commercial users, governmental users, broadband service providers (both wireline and wireless) and anchor institutions. It will be operated for the sole benefit of the community, but it will be operated as an open network that can be used by commercial service providers to enhance and expand service, especially in areas that are economically challenged. The County has extensive project management experience with large complex projects and the operational experience necessary to help ensure continued success. It has also engaged a professional engineering firm with extensive experience designing and developing communications networks in the area, and it has the commitment of established construction firms and system integrators. Furthermore, commercial service providers, educational organizations, health care providers, public safety organizations, libraries and other anchor institutions have pledged their support and plan to use the network to improve the quality of life in the area.

#### The Proposed Network Project

The Columbia County Government is requesting funds from the NTIA to establish the Columbia County Community Broadband Network (CCCBN). This project will enhance broadband and wireless access in the community through the use of a 200 mile fiber optic network and five wireless towers. The network will also support 60 free wireless access points in parks and other public spaces, with a focus on low income areas.

The network will establish an open access broadband platform that will be open to :

1. Health Care Providers, including the Medical College of Georgia and local clinics;
2. Educational Organizations including the school system, technical college and libraries;
3. Public Service and Community Organizations;
4. Local municipalities and utilities;
5. Broadband Service Providers and Wireless Service Providers;
6. Citizens in economically challenged neighborhoods through free community “hot spots”.



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In summary, the proposed network will establish an open broadband highway that will be available at a reasonable cost to commercial service providers to enable service to the underserved areas of the community for both wireline and wireless services. This broadband highway will also be available to anchor institutions such as government, public health, education, libraries, etc. at dramatically reduced rates that generally reflect the marginal cost of operation.

The fiber routes will provide interconnection points for numerous areas which have been identified as both unserved and underserved according to the definitions of the NOFA. The project also includes new radio towers to improve public safety coverage and facilitate additional fixed and mobile wireless broadband services to citizens throughout the county. The network will initially be equipped with LAN and WAN networking equipment for use by anchor institutions. However, most commercial service providers prefer not to mix their traffic with traffic from other networks due to latency, system compatibility and network control concerns. To eliminate this issue, the network will provide dark fiber for the exclusive use of the users that need this capability.

The network will facilitate competitive broadband services in areas with limited or no broadband availability by being an open platform available to any and all private and public service providers. The potential service providers will be responsible for the last mile connections to their customers and for operation of their equipment. Free wireless broadband access will be provided in libraries, community centers, and parks.

Columbia County is estimated to contain approximately 33,000 households and 2400 businesses. The project has received overwhelming support from all county and city agencies, whose facilities will be connected as part of the project. Details on the types of facilities can be found elsewhere in the application, but there will be a total of approximately 150 facilities connected initially, including public safety entities, city and county government facilities, and critical community agencies. Additionally, the Medical College of Georgia, the State's flagship medical school, has plans to build a data center in Columbia County. MCG has made its support known in terms of in-kind contributions and letters of support for the project. A complete list of partnering and supporting organizations is found in Question 41, "Government and Other Key Partnerships".





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The CCCBN will provide redundant fiber infrastructure to service providers that will enable competitive broadband services to the unserved and underserved areas of Columbia County. The service providers will be responsible for the last mile broadband connectivity to their customers. The companies will also be responsible for providing and maintaining equipment to light-up the fiber strands leased from the County. The fiber connections will be owned, operated and maintained by Columbia County. Service providers and businesses will also be able to lease “dark fibers” from the network.

The CCCBN is intended to be an open network. Its anchor tenants represent a partnership of both city and county government facilities. The fiber strands will be made available to any and all public or private service providers who desire to connect to the citizens of the County.

The project will utilize a variety of technologies. To allow connectivity to the anchor tenants of the county, the project includes Cisco networking equipment to light up the new fiber strands and provide a county-wide network for governmental services. The new project will upgrade and extend the current capabilities of the County's network to public facilities throughout the county, along with public Wi-Fi spots. The school facilities will be networked together using electronic equipment provided by the Board of Education. This equipment will use the new fiber strands provided in the project and will be provided by the Board as an “in-kind” contribution toward the county’s matching funds. All the connections to the city and county facilities will be made via 100 Mbps or 1 Gbps Ethernet links.

To extend broadband to unserved and underserved county residents, the project provides fiber at interconnect points where such end-users are located. As a result there will be no electronic equipment in the initial network to provide connectivity to the end users; rather these users will be connected to the CCCBN in the future by independent service providers. Since the providers will be able to lease dark fibers to build their own networks, the technology standards will most likely consist of FTTH (fiber to the home) or HFC (hybrid fiber-coax) topologies.

Wireless technology will also be deployed through the establishment of free, public Wi-Fi hot spots at city and county parks and public spaces. New towers will be constructed to improve public safety capabilities and increase opportunities for private wireless broadband service providers to connect to unserved and underserved county residents.



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The Columbia County IT department operates a robust network consisting of 9 sites linked to a newly completed data center. The staff holds numerous industry certifications including PMP, Cisco, N+, S+, and ITIL Foundation certifications. In the last 3 years the staff has completed over 30 projects totaling over \$7M in scope. The staff has over 260 years combined experience in IT projects.

The infrastructure cost of the new broadband system is estimated at \$18,002,130. This figure includes all of the following: design, construction, and testing of the fiber optic cable; design and construction of the radio towers; electronic equipment to provide services to county and city buildings; and Wi-Fi equipment for public broadband access. This overall cost includes \$4,489,128 in matching cash and in-kind contributions (25% of the project total).

Over the next five years, the CCCBN is expected to serve a potential subscriber base of approximately 9900 households throughout the county. The County has already received a commitment from an area service provider (Knology) to provide services in the Grovetown and Harlem areas as soon as fiber connections are available in these areas; as a result the construction is planned to begin in these communities.

Using the guidelines published by the Council of Economic Advisors and the information posted on [www.recovery.gov](http://www.recovery.gov), it is estimated that the design, construction, and implementation of the CCCBN will create and retain the equivalent of 195 full-time jobs over the course of the project's life cycle.

**Description of BTOP Project Purpose (BTOP Applicants Only Next Three Questions)**

**9. BTOP Statutory Purpose:**

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Provide access to broadband service to consumers residing in “unserved” areas of the United States.
Provide improved access to broadband service to consumers residing in “underserved” areas of the United States.
Provide broadband education, awareness, training, access, equipment, and support to schools, libraries, medical and healthcare providers, community colleges and other institutions of higher education, and other community support organizations by or through these organizations.
Provide broadband education, awareness, training, access, equipment, and support to organizations and agencies that provide outreach, access, equipment and support services to facilitate greater use of broadband service by low-income, unemployed, aged, and otherwise vulnerable populations.
Improve access to, and use of, broadband service by public safety agencies.
Stimulate the demand for broadband, economic growth, and job creation.

**10. Description of BTOP Project Purpose:**

The Columbia County Community Broadband Network (CCCBN) will spur private-sector innovation and competition, thereby offering affordable bandwidth and services to residents of Columbia County. The CCCBN strategy will also integrate public safety, public health, education, libraries, community centers, and other government users. The CCCBN will serve as a backbone for networking County agencies and is essential to enhancing government services.

For the convenience of the reviewer, the project purpose is summarized below, relative to the specific points required by the application:

a) Project addresses compelling problem or presents an opportunity consistent with the BTOP statutory goals:

The CCCBN addresses all five of the BTOP Statutory Goals as specified in the NOFA and summarized in Section 9 above. One of the primary goals of the project is to build a fiber optic infrastructure to the unserved and underserved areas of the county. The design has identified a



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minimum of 2 unserved areas and 4 underserved areas in the Appling/Harlem/Grovetown areas. The fiber optic cable route establishes interconnection points at all of these areas, from which last mile service providers can build their networks to connect citizens in these areas.

The BTOP statutory purposes also include the requirement to “provide broadband education, awareness, training, access, equipment, and support” to a variety of institutions including schools, libraries, medical and healthcare providers, institutes of higher education, advocacy groups for low-income and aged citizens, and others. The CCCBN has established partnerships with groups and organizations from all of these categories and has included each of these facilities as “anchor tenants” in the fiber optic cable route. These partners are listed in more detail in Section 41, “Government and Other Key Partnerships”.

The final two Statutory Purposes include “improved access to and use of broadband services by public safety agencies”, and “stimulating the demand for broadband, economic growth, and job creation”. Since this project has been created, defined, and driven by the IT department of the Board of County Commissioners, buy-in from all public safety agencies has been virtually automatic and has been easily solidified from the origins of the project. Public safety agencies are all included as anchor tenants on the cable route and letters of support from all such agencies are included as part of Item 41. Finally, it is well-known that increased broadband access in an area is an established driver for economic growth and job creation. Knology, an established broadband provider for a number of Tier-2 cities in the Southeast (including greater Augusta) has already committed to lease fibers from the CCCBN project to provide broadband connectivity to previously underserved areas of the county such as Grovetown, Harlem, and the Greenbrier area of Evans.

b) Project offers an effective solution to that problem or addresses the opportunity.

The CCCBN offers an effective solution to the compelling problems addressed by the BTOP statutory goals. The solution establishes connectivity to public city and county anchor points and defines interconnect points to unserved and underserved residents of the county. Well-established technologies such as fiber optic cable, high speed routers and switches, and radio towers are the infrastructure which will provide the means to the effective solution to the problem.



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c) Proposed solution demonstrates broad significance and includes development that can be replicated to improve future projects.

We firmly believe that the project does indeed demonstrate broad significance because it has potential positive impact on each and every citizen of Columbia County. Even for citizens who live in areas which are well-served, the project has broad significance because a county-wide broadband infrastructure will result in increased job opportunities and economic growth for the entire area. Additional goals of the project which further demonstrate its broad significance are listed at the end of this section.

d) Whether the proposed funded service area is in an unserved or underserved area.

As stated above in Item a, the funded service areas in the project do indeed consist of unserved and underserved areas of the county. These areas are for the most part concentrated in the areas south of Interstate 20, in the areas including and surrounding the cities of Harlem and Grovetown.

e) The extent to which the project addresses more than one statutory purpose.

It is our firm belief that the CCCBN addresses all five of the statutory purposes of the BTOP as outlined in the NOFA and summarized above in Item 9, “BTOP Statutory Purpose”.

Additionally, although not submitted as a separate BTOP application, the project intends to install computers in anchor tenant facilities such as Libraries and Senior Centers to provide broadband internet access.

As a final supplement to the discussion of the Project Purpose, the following list of “project goals” from the County’s original business plan has been included as further evidence of the purpose of the project:

- Economic Growth and Quality Jobs
- Promotion of Private Sector Competition
- Enhancement of Digital Inclusion
- Wireless Backhaul
- E-Government, Civic Participation and Public Safety –
- Education and Integrated Learning –
- Intelligent Transportation System (ITS)



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- Communication Security, Capacity, Quality and Cost
- Interoperability and Disaster Recovery
- Telemedicine and Independent Living
- Supervisory Control and Data Acquisition (SCADA)

**11. BTOP Enhanced Services for Health Care Delivery, Education, and Children:**

The enhancement of services for health care, education, and children are among the core components of the mission of the CCCBN. The county has formed a vital health care partner in the Medical College of Georgia (MCG). MCG is located in nearby Augusta and is the flagship university in the State of Georgia for medical careers and public health. MCG provided an early letter of support for the project and has attended a number of informational sessions to provide input into the project's direction. MCG Health has committed to an in-kind contribution of over \$140,000 per year in the form of access to their Personal Health Record System for the citizens of the county. As quoted in the letter of support (see section 41 of the application), the CCCBN broadband project would "improve treatment for the citizens who would access the health system" and also "provide a vehicle for the assembly of clinical data about the population for long term improvement of clinical outcomes, which in turn should improve the overall health status of the population."

The Columbia County Board of Education has also been a charter partner in the development of the CCCBN plan. The project intends to connect some 33 school sites in all areas of the county. The Board of Education has signed on as an in-kind partner, with plans to self-purchase \$930,000 in new equipment to connect the schools to the fiber infrastructure provided by the project. The CCCBN has also budgeted approximately \$85,000 of grant funds to be earmarked for broadband-connected computer labs at libraries in the county, as well as computer labs at the Senior Centers and Community Centers in Harlem and Grovetown. Both enhancements will improve educational opportunities for citizens of all ages in the county.

Regarding enhanced services to children, the group known as Columbia County Community Connections has pledged to support the project in order to enhance the lives of the low-income and underprivileged children that it serves. This group has determined that 75% of the children that it serves do not have any type of computer access to enable them to complete routine homework assignments. Their only non-school access to computers is through the public library, whose resources and hours are limited and have been further impacted by state budget cuts. The expansion in local broadband opportunities in Harlem and Grovetown facilitated by



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the CCCBN “would make a huge difference in the lives of these young people.”

## **D. Proposed Funded Service Area**

### **12. Proposed Funded Service Area Maps:**

**12-A.** Service Area Map (Reference Number): **3239-E7E2-49C7-8ECA**

**12-B.** Is the applicant is seeking a waiver for providing less than 100% coverage of a census block. **No**

### **13. Proposed Funded Service Area (BIP - Last Mile Projects):**

Please refer to section M at the end of document.

### **14. Proposed Funded Service Area (BTOP - Middle Mile Project):**

Please refer to section M at the end of document.

### **15. Non-Funded Service Area( BIP Only):**

### **16. Coverage Waiver:**

Applicant is seeking a waiver for providing less than 100% coverage of a census block.

**No**

For Response of “Yes” please refer to upload section for additional supporting documentation.

### **17. Methodology for Area Status:**

The Columbia County IT Department has put forth significant effort in forming a methodology to determine the status of the unserved and underserved service areas to be included as interconnect points in the middle mile project. First and foremost, the IT department is a Columbia County agency and has extensive familiarity with the growth trends and demographic statistics of all areas of the county. The county government has as an extremely useful asset in a comprehensive Geographic Information System (GIS) mapping platform. The GIS can be linked to a variety of population and demographic databases and used to plot detailed maps of the county with a variety of demographic information superimposed on detailed street and physical maps of the county (including census blocks).

To gain an extensive understanding of service areas that are “potentially” unserved or underserved in Columbia County, a detailed county map showing census block information



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was plotted and used in an extensive Field Coverage Survey in July 2009. The entire 200-mile cable route was surveyed by car, with particular attention paid to areas of the county showing demographics suspected to correlate with a lack of broadband services (generally, areas in and around Harlem, Grovetown, and Appling). The primary information documented in the survey was 1) a visual assessment of the communities contained in the census blocks, and 2) the presence of existing broadband cable plant and/or wireless signal strength in the areas. However it must be stressed that a mere field survey alone would not be sufficient to determine with certainty if any particular census blocks could truthfully be classified as “unserved” or “underserved” according to the definition of the NOFA.

In order to make certain that potential areas were unserved, a number of street addresses were noted during the survey. After the survey was complete, these street addresses were cross-referenced to county property records to obtain current phone numbers. Then, once street addresses and home telephone numbers were known, this information was entered into the websites of the incumbent broadband service providers to determine if these addresses can be served by an existing provider. On the wireline side, these incumbents include AT&T (DSL), Comcast (cable modem), and Charter (cable modem). (Knology is a wireline provider who is known only to have service in Evans and Martinez, which contain none of the areas designated as unserved or underserved). On the wireless side the incumbents are AT&T, Verizon, and Sprint. Since the wireline incumbents’ websites are clear indicators of the presence of broadband service, we feel confident that this is a very reliable method to decide if an area is unserved. To augment this effort on the wireless side a number of smartphones were used to conduct download speed tests, with none of the tests passing the 768 kbps download speed required in the NOFA.

Underserved areas were somewhat more complex to define since they may be so qualified using any one of the three criteria. The underserved areas in our project generally are believed to have some broadband services available, so we did not rely on the “50% of residents having access to broadband” criteria. Since subscriber take rates are hard to determine without obtaining information from the incumbent providers, we are most confident that the “advertisement of 3 Mbps download speeds” criteria will be met in all service areas marked underserved. We have confirmed that all incumbents (both wireline and wireless) are advertising maximum download speeds less than 3 Mbps.

**18. Middle Mile Benefits**





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<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

1) Identify the last mile service areas for which your middle mile project will provide service.

The project will provide service for a total of 6 last mile service area interconnect points. Of these 6 service areas, 4 have been identified as underserved and 2 have been identified as unserved. The service areas and their Map ID #s are referenced in Question 12.

Since the fiber infrastructure is designed to pass so many city and county facilities, the cable route encompasses all areas of the county. For this reason, additional last mile service areas that are deemed unserved or underserved in the future can easily be served through additional interconnection points at anchor facilities or at strategic access points along the route itself. This presents a potentially significant additional benefit for other areas of the county not initially designated as unserved or underserved.

2) List the service providers with whom the proposed network proposes to interconnect and the critical community facilities, community anchor institutions and public safety entities that the network will target as direct customers.

The CCCBN has already received confirmation from Knology indicating their interest in leasing fiber in order to provide broadband services in areas surrounding Harlem, Grovetown, and one small area in Evans which lies along the cable route (see section 41 for additional details). Knology is an established service provider serving mid-size metropolitan areas in the Southeast, including the Augusta area. Knology already serves parts of the Evans and Martinez CDP areas in the eastern part of Columbia County. Extending Knology's service into the previously underserved areas in and around Harlem and Grovetown will be an obvious and immediate benefit of the CCCBN. In addition to Knology's known interest, it is believed that incumbent service providers Comcast and Charter are potential interconnect partners as well. Georgia Public Web, a network operated by a consortium of Georgia city governments, is a potential interconnect partner because it has a nearby presence in the city of Wrens, located 16 miles south of Harlem.

The lack of sufficient wireless coverage in the county presents a twofold problem. In addition to limited signal strength for voice and mobile broadband subscribers, there is a lack of ubiquitous coverage for public safety radio usage. This presents potential safety concerns since



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emergency and law enforcement personnel may not be able to remain in contact throughout all parts of the county. With the additional radio towers to be included in the project, the county will be able to improve coverage for safety personnel and better protect its citizens. In addition, any of the national or regional wireless service providers (AT&T, Verizon, Sprint, and others) could locate facilities on the antennas to enhance their broadband services in the area.

The CCCBN will target a number of community facilities, anchor institutions and public safety entities as direct customers. The full list of sites can be found elsewhere in the application, but in summary the list includes: County facilities - 8; County parks/public areas - 17; Water system facilities – 44, Board of Education facilities/schools – 33; City of Grovetown – 8; City of Harlem – 7; Fire Stations – 20. Additionally, the Medical College of Georgia, a state-supported university located in Augusta, has plans to build a data center in Columbia County and will come on board as a partner when the fiber is installed and available.

3) Please provide the projected end users that will be served by these proposed connections and the basis for these end-user projections. If applicable, describe the level of need or vulnerability and how such connections will enhance services to the community beyond providing broadband service.

Columbia County contains a total of approximately 33,000 households. Assuming a reasonable take rate of approximately 30%, we project that a total of 9900 potential end users in the service areas could be served within a 5-year period. These end-users are in addition to the facilities included in the list of community anchor sites listed above as “direct customers.” Many of these areas correlate strongly with the lower-income areas of the county and therefore contain citizens in higher need and more vulnerable to the disadvantages inherent to being on the wrong side of the "digital divide".

## **E. Proposed Service Offering**

### **19. Broadband Service Offerings for Last Mile Project:**

Please refer to upload section at the end of the document.



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**20. Service Offerings for Middle Mile Project:**

Please refer to upload section at the end of the document.

**Competing Service Providers**

**21. Existing Broadband Service Providers and Services Offered:**

Please refer to upload section at the end of the document.

**Non-Discrimination, Interconnection**

**22. Description of Network Openness:**

The CCCBN has been intended from the beginning to be an open network. It has been envisioned and undertaken by the IT Department of the County Commissioners’ office. As a result, the goals of the project are to better serve the populace of the county, as opposed to generate a profit for corporate entities to the exclusion of any segment of the citizens of the county. The network’s anchor tenants are local (both city and county) government facilities. Most importantly for an open network, the fiber strands will be made available to any and all public or private service providers who desire to connect to the citizens of Columbia County. This goal is in keeping with the statement from the NOFA, “an awardee may satisfy the requirement for interconnection by negotiating in good faith with all parties making a bona fide request.”

BTOP applicants must commit to the following five obligations for Nondiscrimination and Network Openness. By repeating them here, the CCCBN affirms its intent to comply with all of these requirements in order to provide a network open to all providers and potential end users in the county:

- i. Adhere to FCC 05–151 (FCC Internet Policy Statement);
- ii. Not favor any lawful Internet applications and content over others;
- iii. Display any network management policies in a prominent location on the service provider’s web page and provide notice to customers of changes to these policies;



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iv. Connect to the public Internet directly or indirectly, such that the project is not an entirely private closed network;

v. Offer interconnection, where technically feasible without exceeding current or reasonably anticipated capacity limitations, on reasonable rates and terms to be negotiated with requesting parties.

**Non-Discrimination and Interconnection (BTOP applicants only for next three questions)**

**23. Non-Discrimination Obligations (applicable to Last Mile and Middle Mile Applicants):**

Adhere to the minimum non-discrimination requirements as set forth in the NOFA.
Display the nondiscrimination practices in a prominent location on the service provider’s web page, and provide notice to customers of changes to these policies.

**24. Interconnection Obligations (applicable to Last Mile Applicants):**

--



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**25. Interconnection Obligations Middle Mile Applicants:**

Adhere to the minimum interconnection requirements as set forth in the NOFA.
Display the interconnection policies in a prominent location on the service provider’s web page, and provide notice to customers of changes to these policies.
Commit to offering wholesale access to network components and services such as wavelength or fibers at reasonable rates and terms.
Commit to binding private arbitration of disputes concerning interconnection obligations.

**Cost Effectiveness and Affordability**

**26. Cost per Household (BTOP only):**

Since the CCCBN is a Middle Mile Project, it is assumed that Question 26 is not required for our application (since the question reads “for last mile projects”). However, to insure a complete application, we have provided the following information.

Total Project Cost (including all cash and in-kind contributions by the county): \$18,002,133.  
 Total Number of Households in the Columbia County Service area: 32,994  
 Cost per Household: \$545 per household

If the calculation is required for only the requested grant amount, the per household cost would be:

Total Project Cost (grant request only): \$13,513,006.  
 Total Number of Households in the Columbia County Service area: 32,994  
 Cost per Household: \$409 per household

It should be noted that the cost figures above include all the networking electronics which will be used to connect the county facilities, schools, etc. (i.e. the anchor institutions), which will



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not directly impact the potential broadband services for the households of the county. If the equipment to be used by the anchor institutions is removed, the per household costs are reduced to \$446 (total project) and \$310 (grant request only). This more accurately reflects the per household costs of the infrastructure directly targeted at the residents' homes.

**27. Affordability**

The CCCBN is a middle mile project which will connect City and County anchor tenants, as well as provide a fiber optic and tower infrastructure for potential service providers to use to access unserved and underserved residents of the County. Therefore there are no Last Mile broadband services being initially provided directly to end users. As such, the “broadband service offerings” as discussed in this question would apply only to the dark fiber lease costs, the tower attachment fees, and the tower base building collocation fees. The planned pricing for these fees are as follows:

Dark fiber rates are based upon an indefeasible right of use (IRU) for a portion of Columbia County’s fiber system, rather than an ownership right. A 5-year commitment subject to annual consumer price index (CPI) adjustment each year will be required. The proposed rates are as follows:

- 10 miles and under \$125.00 per fiber pair per mile
- 10 - 75 miles \$100.00 per fiber pair per mile
- 75 - 150 miles \$75.00 per fiber pair per mile
- Over 150 miles \$50.00 per fiber pair per mile

Tower lease agreements also require a minimum 5 year commitment and are subject to annual consumer price index (CPI) adjustment each year. The proposed rates are as follows:

- \$1.00 per linear foot of height, per attachment, per month.
- Collocation at Tower Base (if using County-owned cabinet space): \$125/month for up to 5 rack units of cabinet space (includes power).
- Collocation at Tower Base (if service provider supplies its own cabinet): \$50/square foot of floor space/month (does not include power).



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These cost figures have been verified as affordable and representative of the competitive market by Columbia County’s professional engineering firm, which has extensive experience in dark fiber leasing and tower lease agreements for numerous providers in the state of Georgia and nationwide.

## F. Technology Strategy

### 28. Technology Type:

Wireline - xDSL
Wireline - Coaxial Cable
Wireline - Fiber-optic Cable
Wireless - Terrestrial Fixed
Wireless - Terrestrial Mobile

**Other:**

### 29. System Design

The Columbia County Community Broadband Network (CCCBN) will utilize fiber optic technology to enable the end users of the network to connect to the Internet at high rates of speed. The two primary goals of the project are 1) to connect the county and city anchor tenant facilities in a high-speed network, and 2) provide a high speed infrastructure to allow the connection of unserved and underserved residents of the county. For the convenience of the reviewer, the system design is summarized below, relative to the specific points required by the application:

- a) The key network components that enable connectivity from the end-user to the Internet backbone - showing what will be funded versus what already exists.



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Since the CCCBN is a middle mile project designed to connect numerous city and county anchor tenants and to provide interconnect points for unserved and underserved residents of the county, it encompasses a fairly diverse set of network components. The discussion below addresses each aspect of the overall system design

1) High-speed connections of community anchor tenants: The county facilities and WiFi access points will be interconnected using new Cisco Metro Ethernet switches and routers, providing 1 Gbps connections into the county buildings. At the core of the network will be Cisco Catalyst 6500 switches connected together using redundant 10 Gbps links. The core switches will be connected to dual Cisco 7600 MetroE Distribution Routers (also using 10 Gbps), which will aggregate traffic from the WAN links terminating in outlying county facilities. At the edge of each connected building will be Cisco ME3400 access switches, providing an aggregation point for lower-density Cisco Catalyst 3560 Ethernet switches connecting individual users in each facility. The traffic will be uplinked to the Internet via new Cisco C3845 Internet routers working with Cisco ASA 5540 security appliances.

2) Wireless Access Points (WiFi): The public (free) WiFi sites will be covered using Cisco 1524 Wireless Access Points (2.4 GHz /5 GHz) in a mesh configuration and uplinked to ME3400 access switches. The ME3400 switches will access the new fiber optic network and connect to the 7600 Distribution router via 1 Gbps optical links.

(Note: a network diagram showing the interconnection plans for the equipment described above has been included as an additional attachment).

3) Board of Education buildings: The CCCBN project will terminate a fiber drop cable into each of the Board of Education buildings (schools and other facilities). These fiber strands will be made available to the Board of Education and be used to interconnect the buildings through the fiber optic backbone. The electronic equipment to be used in the schools will be provided “in-kind” by the school system and is not requested to be funded in this application.

4) Traffic and water control systems (SCADA): CCCBN will provide the interconnected fiber network and electronics to implement an Intelligent Transportation System. This system will gather and process real-time, travel-related information by integrating all of the following





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components: roads, transit, traffic control devices, cameras, vehicles and drivers. The benefits of the system are: decreased travel time, increased travel speed, increased traffic capacity, decreased accident rates, decreased fuel consumption and decreased vehicle emissions. CCCBN will also provide communications and SCADA control systems to monitor and maintain daily operations of 4 sewer treatment plants, 2 water treatment plants, 10 elevated water storage tanks, 6 ground level water storage tanks, 22 lift stations, and 10 booster pumping stations. Currently the SCADA system uses wireless RF and leased lines for backhaul; converting these systems to the new fiber infrastructure will increase speed and reliability and eliminate ongoing leasing costs. Both systems will use fiber-uplinked security cameras for traffic flow monitoring, surveillance, security, and detection.

5) Radio towers: The CCCBN includes the construction of five (5) new radio towers in areas of the county which currently have poor RF coverage. These five new towers will work in conjunction with 8 existing county-owned towers to provide enhanced coverage for public safety radio systems throughout the county, as well as enhanced opportunities for increased wireless broadband coverage (both fixed and mobile) through leasing opportunities to existing and new service providers. The 5 new towers will be planned for a height of 300 feet and will be connected to the fiber backbone to provide the backhaul of traffic and services from the tower locations. The tower site design is based on the State of Georgia’s Region 10 Public Safety 700 MHz communications plan and the available frequencies in this band. The design uses propagation models based on 700 MHz spectrum, 768 kbps/200 kbps download/upload speeds, and 120-degree panel antennas for all 13 (new and existing) towers operating as an overall system.

6) Fiber backbone construction: The CCCBN’s fiber optic cable infrastructure will be built to current industry-standard specifications. The County has partnered with Engineering Associates, a well-known and long-established professional engineering services firm, to lead the design effort. The planned cable route will be finalized by experienced outside plant engineers and will be finalized in a set of formal bid documents. The bid package will be let by the county and will be awarded to qualified contractors, with the advice and guidance of Engineering Associates being a key part of the process. The engineering firm will also be involved throughout the construction and testing phases of the project, to insure that the final product meets all of the specifications to guarantee a high-quality final product. The fiber optic cable will have the following specifications: 144-strand backbone with 24-strand building



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interconnect drops; single-mode, loose tube, gel-filled cable design with polyethylene (PE) jacket and metallic shield; suitable for direct buried, aerial, and underground construction. Buried and underground routes will utilize hand-holes for pulling access and spare conduits for future expansion and system maintenance.

b) For wireless access, state the frequency, how much spectrum is available, technology used, morphology of the area, topology of the area, power levels at the user devices, whether or not mobile:

The CCCBN provides five new towers to be used as infrastructure for public safety and mobile broadband enhancements. The project does not include any wireless fixed/mobile access equipment to connect to end users (other than the public Wi-Fi access points discussed in Item A above). Additional information regarding the parameters used in the RF site design for the new towers in the project may be found above under #5, "Radio Towers".

c) Specific advantages for using this particular technology strategy, taking into account service offering capacity, speed, reliability, and cost effectiveness:

Since the project is a middle mile project and consists of a fiber backbone infrastructure, to a large degree the network is “technology agnostic”. That is to say, the project will provide the fiber optic infrastructure to allow any and all service providers to come in and provide the type of service of their choosing to the end users. The system is designed to allow a number of technologies to be used – including but not limited to FTTx (Fiber to the Home, or any of its closely related variants such as Fiber to the Curb or Fiber to the Node), HFC (Hybrid Fiber-Coax), or fixed and mobile wireless broadband (via the new tower infrastructure). With no restrictions on the technology strategy, the fiber infrastructure allows a variety of “speeds and feeds” and a variety of services including voice, high-speed data, video, and HDTV.

d) Paths to upgrade the system and add additional capabilities in the future:

All aspects of the system design have taken into account the need to upgrade the systems and allow for additional capabilities in the future. The design of the fiber backbone cable (144 strands) has sufficient spare capacity to allow unused fibers to be leased to future service providers. It also allows sufficient growth for expansion of the initial networks (Board of



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Education, County MetroE, Cities of Harlem/Grovetown, traffic/utility control systems) and addition of new networks by future users and partners such as private industry and higher education. The Cisco networking equipment platforms support system growth through port expansion and transceiver upgrades to higher speeds and capacities. The towers are sufficiently tall (300 feet) to allow for multiple system operators to locate on the space of the towers.

**30. Network Diagram:**

Please refer to upload section at the end of document.

**31. Certification by Professional Engineer:**

Please refer to upload section at the end of document.

**32. Buy American Waiver Request:**

Is the applicant seeking an individual waiver of the Buy American provision? **No**

**Buy American Waiver Request – Legal Justification**

**33. Choice of Service Provider:**

Does the project’s Infrastructure and the Company’s business plan allow more than one provider to serve end users in the proposed funded service area?

**Yes**

## **G. Project Milestones and Completion Factors**

### **Timeline & Milestones**



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**34. Infrastructure Build-out Timeline:**

Please refer to upload section at the end of the document.

**35. Licenses, Regulatory Approvals and Agreements:**

The CCCBN will not require any special licenses, regulatory approvals, or special arrangements for construction to begin or to be completed. However there will be the normal amount of pre-construction permitting required. These permits will be fairly routine, since fiber optic cable construction and radio tower erection are frequently undertaken projects and have a history of success in Columbia County. Both Columbia County and Engineering Associates have experience obtaining these permits for other projects, so no delays are expected.

A brief listing of the expected permits to be required includes:

- DOT permitting for cable construction along state highways
- DOT permitting for bridge attachments
- Army Corps of Engineers approval for Cable Construction in the areas leased to it along Clarks Hill Lake (especially Wildwood Park)
- Pole attachment agreements for aerial fiber optic construction (primarily with Georgia Power)
- Railroad permitting for crossing railroad Right-of-Way (via directional boring)
- State Environmental permitting for crossing certain waterways (via directional boring)
- Land acquisition for new tower sites (if not possible to locate on existing county-owned lands)
- Local zoning and building permits for modular building construction at tower sites
- FCC approvals for new tower construction
- FAA approvals for new tower construction
- State wildlife/environmental clearance for new tower site

All of these approvals will be initiated once funding is secured, as part of the detailed engineering phase of the project.

There are no leases planned (towers, equipment, building, land, etc.) since the project intends to own these assets as opposed to leasing them. FCC frequency allocations will be unnecessary since the CCCBN includes the towers only, as opposed to any initial radio equipment (which



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would be provided by any wireless service providers who will use the tower infrastructure in the future).

**36. Construction and Vendor Contracts**

The CCCBN will rely on contractors to construct the fiber optic cable facilities, erect the towers, install the networking equipment, etc. The vast majority of the construction effort will be in the fiber optic cable construction. As a county government, Columbia County cannot enter into any signed agreements with contractors before the project has been bid. However a large national contractor has been notified and has endorsed the project as viable to be constructed within the required timeframe. The specific verbiage reads as follows:

“A representative of Quanta Services has thoroughly reviewed the application, and we are pleased to confirm that we have the manpower, equipment and financial resources necessary to complete the project within the terms and schedule stated in the application....With operations in 50 states and Canada, more than 14,000 highly skilled, experienced, and mobile employees, and in excess of 24,000 pieces of equipment, we have the resources and expertise to complete projects that are local, regional, national, or international in scope.”

A copy of the letter from Quanta Services, Inc. has been attached as part of the Supplemental Information in the Upload section.

**Qualification of Management Team and Organizational Readiness**

**37. Management Team Resumes:**

Please refer to upload section at the end of the document.

**38. Organizational Readiness:**

With a budget of over \$44 Million, Columbia County’s government is a dynamic organization fully capable of delivering a variety of services to its 112,000 residents. The Columbia County IT Department is organized as a department of the County Government, and operates an annual budget in excess of \$3 Million, including \$1M for capital expenditures and \$2M for operational expenditures. With a staff of over 20 people supporting more than 750 customers at more than 85 locations, the IT Department can fully demonstrate the



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Organizational Readiness required for BTOP funding.

The IT Department has the necessary sales, operational, and billing support systems in place to provide the services proposed by the CCCBN. The IT Department has completed a number of other large projects, on time and within budget. The following is an overview of the organization and track record of the IT department.

The IT Department is comprised of four service teams:

- 1) Network Communications Team: This team has technical responsibility for the core of the County’s data network, including design and support of all WAN and LAN equipment. This includes the design and implementation of both hardwired and wireless network equipment. NCT is responsible for network security, IP Telephony, and for monitoring network utilization, along with VoIP systems, routers, switches, firewalls, intrusion detection systems, wireless access points, VPN concentrators, network management systems, cabling, and circuits.
- 2) Technical Support Team: The TST is responsible for managing and monitoring the County’s data center, desktop support, audio visual and Service Desk. This responsibility includes disaster recovery, server and environmental equipment, server virtualization, e-mail services, storage management, system security, web filtering, desktop imaging, customer administration and support, and Service Desk.
- 3) Application Support Team: The AST is responsible for application support; application development; business analysis, database management; application troubleshooting; access security, and customer education.
- 4) Business Administration: The Business Administration Team provides administrative support to the other three Information Technology teams, including strategic planning, project management, budget management, and procurement management.

Additional details for staff qualifications and recent projects are summarized below:

Technology Expertise on staff:



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- PMP (Project Management Professional) certified staff member
- Cisco certified staff members
- Experience in Wi-Fi and Fiber installation and configurations
- Project Management Experience
- All IT Staff ITIL Foundation Certified
- N+ and S+ Certifications
- 260 years combined technology experience

Recent Project Experience:

- Currently installing a 1 mile fiber loop for Traffic Engineering.
- Completed 15 cabling projects over the last 5 years.
- Converted Frame Relay wide area network to Metro-E in 3 months
- Modular Data Center Project completed in 12 months - \$1.5M.
- Cisco IP Telephony Project completed in 18 months - \$1M.
- Migrated Netware/GroupWise to Windows 2003 and Exchange 2003 completed in 9 months - \$400k
- Network Security Project completed in 9 months - \$300k
- ERP Project started September; 2006 approximately 75 percent complete - \$3M
- Wireless Hot Spots in County Facility for Mobile users and Public Safety completed in 6 months - \$150k
- County Web Site redesign using a Content Management solution completed in 15 months - \$125k
- Implemented Recreation Management System in 12 months - \$130k
- Implemented Service Desk Management System in 15 months - \$125k
- RFID System for three Columbia County Libraries completed in 12 months - \$425k

**Other**



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**39. Organizational Chart:**

Please refer to upload section at the end of document.

**40. Legal Opinion:**

Please refer to upload section at the end of document

**41. Government and other Key Partnerships:**

Columbia County has partnered with a number of public, nonprofit, educational, and private organizations to garner widespread support for this project. To date over 20 letters of support have been received from various organizations as listed below. The letters have been included as supporting documentation in the attachments. The supporting organizations include:

Public / Government Organizations

=====

- Columbia County Board of Education (also an in-kind contributor)
- Georgia Technology Authority
- Georgia Department of Labor
- Department of the Army (Corps of Engineers)
- Georgia State Patrol
- Columbia County Sheriff's Office
- Columbia County Fire and Rescue/Emergency Services
- Columbia County Senior Center
- Columbia County Development Authority
- Columbia County Chamber of Commerce
- Columbia County Library Board (also an in-kind contributor)
- City of Grovetown (also an in-kind contributor)
- City of Harlem (also an in-kind contributor)

Educational organizations:

=====

- Medical College of Georgia (also an in-kind contributor)
- Augusta Technical College
- Augusta Preparatory Day School





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Nonprofit organizations

=====

Columbia County Community Connections (also an in-kind contributor)  
Columbia County Cares

Private Sector:

=====

Knology (also an in-kind contributor)  
Advanced Technology Group (also a Small Disadvantaged Business partner)

In summary, one of the primary goals of this middle mile project is the interconnection of approximately 65 community anchor facilities as well as another 30-40 utility and traffic sites which are administered by the organizations listed above.

**42. Recovery Act and Other Governmental Collaboration.**

The provisions of the American Recovery and Reinvestment Act of 2009 include the payment of stimulus funds to healthcare providers who are meaningful users of health information technology. As mentioned in several additional sections of this proposal, Columbia County has partnered with the Medical College of Georgia (MCG Health) as a prime partner in the CCCBN. MCG Health is the not-for-profit business entity that supports the Medical College of Georgia (the region’s only academic medical center).

MCG Health has applied for \$8 Million in ARRA funds to establish a transitional broadband network operations/data processing/public computer center (NOC) that would provide centralized network connectivity and data processing capability to rural healthcare providers in east Georgia. The NOC will be operated by MCG Health and will be situated in the region in such a way that reliable services can be provided within the geographic coverage area. As per the grant request, “the NOC would be located in Columbia County and would utilize the broadband infrastructure created under the Columbia County Community Broadband Network.” The specific ARRA section from which funding is requested is the provision for “Funding to Strengthen the Health Information Technology”.

By collaborating with MCG Health at the outset of the project, Columbia County has insured that one of its anchor tenants will provide a dynamic and much-needed service to not only the citizens of Columbia County but also to many citizens in the surrounding Augusta region.



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Efficiencies were gained when both organizations worked together from the beginning of each of their grant request periods so that MCG’s infrastructure needs were known to the CCCBN project’s organizers and could be taken into consideration when the fiber specifications were being planned.

As another example of governmental collaboration (although not necessarily related to other parts of the ARRA), the County has worked at the state level with the Georgia Technology Authority (GTA). The GTA seeks to insure that the state’s IT infrastructure is stable, secure and well-governed. The GTA has stated its support for high-quality and impactful ARRA projects and has shown interest in the CCCBN in particular. The GTA has determined that Columbia County falls into a region of Georgia whose broadband needs for unserved and underserved residents are “Critical”. Thus GTA is well aware of the potential impact of the CCCBN not only in the County but also in the region in general.

A final example of inter-governmental collaboration is found in a study produced by the Georgia Tech Enterprise Innovation Institute. The “Clarks Hill Partnership TechSmart Regional Report” was conducted to perform a study of Columbia, Lincoln, McDuffie, Warren, and Wilkes Counties. This report concluded that approximately 85% of the land area and 54% percent of the population of these five counties lacked broadband opportunities. One of the recommendations of this report was for “each community to move forward in leveraging their opportunities to improve technology utilization.” The CCCBN will allow Columbia County to do so by providing infrastructure for carriers to build broadband networks to unserved and underserved residents, especially in the southern and western parts of the county.

**Community Involvement (BTOP Applicants Only)**

**43. Partnering with Disadvantaged Businesses**

Columbia County has been in discussions with a number of socially and economically disadvantaged small businesses (SDBs). The County plans to use SDBs wherever possible in this project and will encourage the companies constructing the network to include such businesses in their contract proposals.

The County has partnered with an SDB called Advanced Technology Group. ATG is a



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company that owns and operates a microwave broadband access network providing broadband services in a six-county regional area in and around Augusta (the region includes Richmond, Columbia, Lincoln, Burke, McDuffie, and Jefferson counties).

ATG has stated its interest in partnering with Columbia County for arrangements on the new radio towers and using the fiber optic infrastructure for route diversity and backhaul. Since ATG reaches beyond the immediate Augusta and Columbia County area, adding ATG as a partner in the network will expand the potential reach of broadband into a more regional basis.

## **H. Project Budget**

### **44. General Overall Budget**



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Budget	Loan Request	Grant Request	Equity	Debt	Bond	Other
Network & Access Equipment (switching, routing, transport, access)		1,626,252				545,074
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)		9,556,445				3,203,055
Buildings and Land – (new construction, improvements, renovations, lease)		5,992				2,008
Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)		11,235				3,765
Billing and Operational Support Systems (IT systems, software, etc.)		645,858				216,473
Operating Equipment						



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(vehicles, office equipment, other)						
Engineering/ Professional Services (engineering design, project management, consulting, etc.)		1,540,417				516,305
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)		64,974				21,777
Site Preparation		7,490				2,510
Other		24,341				8,159
<b>TOTAL BROADBAND SYSTEM</b>		<b>13,483,004</b>				<b>4,519,126</b>



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**Total Budget:** \$ 18,002,130

**45. Detailed Budget:**

Please refer to upload section at the end of the document.

**Sustainability**

**46. Reasonableness**

The following information summarizes why Columbia County is very confident in the reasonableness of the unit prices and quantities used in the budget estimates contained in the application submittal. Approximately 90% of the total construction budget can be attributed to the new fiber optic cable routes, the new towers, and county and school networking equipment.

- Fiber optic cable construction estimates have been developed by Engineering Associates. Engineering Associates is an experienced and long-established telecommunications consulting engineering firm based in Atlanta. EA is currently providing outside plant and project management services for two extensive fiber optic cable projects in the immediate vicinity of Columbia County. One project is taking place at West Carolina Telephone Cooperative in Abbeville, SC (approx. 50 miles from Columbia County). This project has completed 500 miles of construction out of a total 1200 planned miles. Another project is at Wilkes Telephone Company in Washington, GA (also approx. 50 miles from Columbia County). This project has completed 250 miles of construction out of a total of 500 total planned miles. Both of these areas are representative of the construction conditions likely to be faced in Columbia County, and data from these projects has been used as the foundation of the cost estimating done for the CCCBN application.
- Tower construction estimates were also done by Engineering Associates, leveraging the experience of their wireless networking group. EA has done numerous projects with public safety organizations and telephone companies and has developed a cost model for new tower construction costs.
- Network equipment cost estimates have been taken from actual quotes from actual vendor partners with whom Columbia County has done business over the years. The Cisco quotes were provided using the 38% discount mandated by the existing contract between the



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County and its Cisco Value Added Reseller. Other vendors have provided quotes for other electronic components, such as Garretcom for water utility control (20% contract discount), and InSync for traffic control. Existing State of Georgia purchasing contracts will be used to purchase computer equipment and furniture for the new computer centers in the library, as well as Cisco network equipment to be used for the Board of Education network.

**47. Historical Financial Statements:**

Please refer to upload section at the end of the document.

**48. Broadband Subscriber Estimates:**

Please refer to upload section at the end of the document.

**49. Other Services:**

Please refer to upload section at the end of the document.

**50. Pro Forma 5-Year Financial Forecast and Assumptions:**

Please refer to upload section at the end of the document.

**51. Commitment of Capital Funding Support**

In addition to the funding requested in the application, Columbia County has secured

funding

from the following sources:

1) Cash funding for grant match

-----  
a) Columbia County: \$2,304,000 (12.8% of total project). Cash for grant matching to be used for infrastructure. No Financing Terms and Conditions.

b) Columbia County Library Board: \$16,000 (0.09% of total project). Cash for grant matching to be used for infrastructure. No Financing Terms and Conditions.

c) City of Grovetown: \$5,000 (0.03% of total project). Cash for grant matching to be used for infrastructure. No Financing Terms and Conditions.

-----  
Cash subtotal for Grant match: \$2,325,000 (12.9% of total project)



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2) In-kind contributions for grant match

- a) Columbia County – IT Department - Project Management and Labor hours: \$232,403 (1.3% of project).
- b) Columbia County - InSync Traffic System: \$510,240 (2.8% of project)
- c) Columbia County - other labor and materials: \$333,892 (1.7% of project)
- d) MCG Health – Personal Health Records System: \$142,591 (0.79% of project).
- e) Columbia County Board of Education – new networking equipment and labor: \$930,000 (5.17% of project)
- f) Columbia County Community Connections – training: \$15,000 (0.08% of project)
- g) City of Grovetown - training: \$15,000 (0.08% of project)
- h) City of Harlem – training: \$15,000 (0.08% of project)

In-kind subtotal for Grant match: \$2,194,126 (12.2% of total project)

=====  
=====  
Total funding by applicant (cash and in-kind): \$4,519,128 (25.1% of total project)

**BTOP Requirements**

**52. Matching Funds:**

- a. Cash: \$ 2,325,000.00
- b. In-Kind: \$ 2,194,127.00
- c. Percent of Total Project Cost: 25

**53. Demonstration of Financial Need:**

Pasted below is verbiage from a letter of explanation from the Columbia County Director of Financial Services. The complete letter has been included as part of the Supplemental Documentation, but the most salient points of the letter are included below. We submit this letter as evidence that the CCCBN would not be possible, "but for" federal grant assistance.





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=====

Columbia County is experiencing a decline in its economy as is the entire nation. Our two largest sources of revenues within the County are property tax revenues and sales tax revenues. According to the Chief Tax Appraiser, our 2009 tax digest includes only a 1% growth rate from the previous year. The State of Georgia has made many changes to the property tax legislation, including a mandatory “freeze” on current property values. This means that the County will only see growth in the digest from new construction, not from existing properties. Therefore, to be conservative, the fiscal year 2010 budget includes no growth in property tax revenues from the previous year.

Our sales tax revenues, of which we get 1% that goes into the General Fund for general operations and 1% that is used for special capital projects, have been steadily declining over the past 2 years. For the current year, we are experiencing a 7.84% decline in revenues. Therefore, we included a 3% reduction in sales tax revenues within the fiscal year 2010 budget.

The only sources of revenues for major projects are general obligation bonds and the 1% special purpose local option sales tax (SPLOST), of which I addressed previously. Both of these sources require a referendum with approval by the citizens of Columbia County. The bonds we currently have outstanding have been approved by the citizens and are obligated for other projects. The current SPLOST program, which started in 2006 and will be completed in 2010, has also been approved by the citizens and is obligated for other projects. Because of citizen approval, these funds must be used in the way that was presented to the voters at the time of the referendum. We have already had the next SPLOST program, 2011-2016, approved by the voters. So, it will be several years before any new capital funds are available.

In light of the County’s current economic situation and the current obligation of all capital project funds, no funds are currently available for the Broadband Infrastructure project you are proposing.

Sincerely,

Leanne C. DeLoach, CPA



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Director of Financial Services

**54. Unjust Enrichment**

This project has neither received nor applied for any Federal support for non-recurring costs in the area for which the award is being sought.

**55. Disclosure of Federal and/or State Funding Sources**

This project has neither received nor requested any other federal or state funding for activities or projects to which the application relates.

**I. Self Scoring – BIP Only Self Scoring**

**56. Self Scoring Sheet**



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Criteria	Method	Points	Self Scores
<b><u>PROJECT PURPOSE</u></b>			
Proportion of Rural Residents Served in Unserved Areas	1 point for every 10,000 unserved households	Up to 5	
Rural Area Targeting	1 point for every 5% increase in the rural service area up the minimum 75% rural area requirement	Up to 5	
Remote Area targeting	1 point for every 50 miles a service area is located from a non-rural area	Up to 5	
Title II Borrower	If you are or were a Title II borrower	5	
Recovery Act and other governmental collaboration	1 point will be awarded for each governmental or Recovery program the applicant is partnering with	Up to 5	
<b><u>PROJECT BENEFITS</u></b>			
Performance of the offered services	If a last mile wireline project delivers 20M to household – if a last mile wireless projects delivers 2M to end-user – if a middle mile projects delivers 100M to end points	<b>10</b>	
Affordable of services offered	Points awarded based on the proposed rate structure and the logistics of the proposed service area	Up to 5	



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Choice of service provider	If the proposed infrastructure is available to be used by multiple service providers	<b>5</b>	
Critical Community Facilities	If discounted rate packages at least 25% lower than advertise rates are available to critical facilities	<b>5</b>	
<b><u>PROJECT VIABILITY</u></b>			
Applicant's organizational capability	Points will be awarded on the strengths and accomplishments of key management	Up to 12	
Community Support	If a letter of support has been received from a designated representative of the community for every community in the proposed service territory	2	
Ability to promptly start project	If the applicant can demonstrate that all licenses and regulatory approvals have been received, contractors and vendors are ready to enter into contracts, and equity has been deposited into applicant accounts	10	
Socially and economically disadvantaged small businesses (SDB), as defined by section 8(a) of the Small Business Act, 15 U.S.C. §637.	If the applicant is a Section 8(a) entity	1	
<b><u>PROJECT BUDGET AND SUSTAINABILITY</u></b>			
Reasonableness of the budget	Points will be awarded based the	Up to 5	



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	adequacy of the proposed budget		
Leverage of outside resources (outside funding/financing requested)	(i) 10 points if this ratio is greater than 100% (ii) 7 points if this ratio is between 100% and 75% (iii) 5 points if this ratio is between 75% and 50% (iv) 3 points if this ratio is between 50% and 25% (v) 1 points if this ratio is lower than 25%	10	
Extent of grant funding (Grant funds/loan funds)	(i) 0 points if this ratio equals 100% (ii) 1 points if this ratio is between 100% and 75% (iii) 3 points if this ratio is between 75% and 50% (iv) 5 points if this ratio is lower than 50% (v) 10 points if no grant funds are requested	10	
<b>Total Points</b>		100	



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## J. BTOP Certification Requirements

### Certification (Requested for BTOP)

Please refer to upload section at the end of the document regarding following uploads.

1. U.S. Department of Commerce, Broadband Technology Opportunities Program
2. SF-424D Assurances—Construction Programs (Schedule N)
3. CD-511, Certification Regarding Lobbying (Attachment O)
4. SF-LLL, Disclosure of Lobbying Activities (Attachment P)
5. CD-512, Certification Regarding Lobbying—Lower-Tier Covered Transactions (Attachment Q) This certification will not be required until the time of the grant award, because it applies to subcontractors, etc.

## K. BIP Certification Requirements

### Certification (Requested for BIP)

Please refer to upload section at the end of the document regarding following uploads.

1. Equal Opportunity and Nondiscrimination Certification
2. Certification Regarding Architectural Barriers
3. Uniform Relocation Assistance and Real Property Acquisition - Policies Act of 1970 Certification
4. Certification Regarding Debarment, Suspension, and Other Responsibility Matters – Primary Covered Transactions
5. Certification Regarding Lobbying for Contracts, Grants, Loans, and Cooperative Agreements



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- 6. Network Design and Implementation Plan Certification (to be complete for projects requesting more than \$1 million in federal assistance)

## L. Schedules

### Schedule: A-1 Congressional Districts

1. State the Congressional District of the Applicant’s headquarters  
Georgia - 10

2. State the Congressional District for each area covered by the Project.  
Georgia - 10

## M. Proposed Funded Service Area Details (BIP & BTOP)

### 13. Proposed Funded Service Area (BIP - Last Mile Projects):

**Proposed Funded Service Area Name:**  
**Census Blocks in Proposed Funded Service Area:**  
**Community Name:**  
**Rural Classification of the Community:**  
**BIP - Service Status:**

<b>BIP - If Service Status is "Underserved" please select at least one applicable option from this list.</b>
--

**BTOP – Service Status:**

<b>BTOP - If Service Status is "Underserved" please select at least one applicable option from this list.</b>
---

**Total Square Miles of Community:**



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**Total Population :**  
**Total Number of Households:**  
**Total Number of Businesses:**  
**Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities:**

**14. Proposed Service Area (BTOP - Middle Mile Project):**

<b>Middle Mile Span Name:</b>		<b>Evans</b>		
<b>Census Blocks in Middle Mile Span:</b>		<b>030101</b>	<b>1</b>	<b>1000</b>
030101	1	1001		
030101	1	1002		
030101	1	1003		
030101	1	1004		
030101	1	1005		
030101	1	1006		
030101	1	1007		
030101	1	1008		
030101	1	1009		
030101	1	1010		
030101	1	1011		
030101	1	1012		
030101	1	1013		
030101	1	1014		
030101	1	1015		
030101	1	1016		
030101	1	1017		
030101	1	1018		
030101	1	1019		
030101	1	1020		
030101	1	1021		
030101	1	1022		





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030101	1	1023
030101	1	1024
030101	1	1025
030101	1	1026
030101	1	1027
030101	1	1028
030101	1	1029
030101	1	1999
030101	2	2000
030101	2	2001
030101	2	2002
030101	2	2003
030101	2	2004
030101	2	2005
030101	2	2006
030101	2	2007
030101	2	2008
030101	2	2009
030101	2	2010
030101	2	2011
030101	2	2012
030101	2	2013
030101	2	2014
030101	2	2015
030101	3	3000
030101	3	3001
030101	3	3002
030101	3	3003
030101	3	3004
030101	3	3005
030101	3	3006
030101	3	3007
030101	3	3008
030101	3	3009



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030101	3	3010
030101	3	3011
030101	3	3012
030101	3	3013
030101	3	3014
030101	3	3015
030101	3	3016
030101	4	4000
030101	4	4001
030101	4	4002
030101	4	4003
030101	4	4004
030101	4	4005
030101	4	4006
030101	4	4007
030101	4	4008
030101	4	4009
030101	4	4010
030101	4	4011
030101	4	4012
030101	4	4013
030101	4	4014
030101	4	4015
030101	4	4016
030101	4	4017
030101	4	4018
030101	4	4019
030101	4	4020
030101	4	4021
030101	4	4022
030101	4	4023
030101	4	4024
030101	4	4025
030101	4	4026



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030101	4	4027
030101	4	4028
030101	4	4029
030101	4	4030
030101	4	4031
030101	4	4032
030101	4	4033
030101	4	4034
030101	4	4035
030101	4	4036
030101	4	4037
030101	4	4038
030101	4	4039
030101	4	4040
030101	4	4041
030101	4	4042
030101	4	4043
030101	4	4044
030102	1	1001
030102	1	1002
030102	1	1003
030102	1	1004
030102	1	1005
030102	1	1006
030102	1	1007
030102	1	1008
030102	1	1009
030102	1	1010
030102	1	1011
030102	1	1012
030102	1	1013
030102	1	1014
030102	1	1015
030102	1	1016



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030102	1	1017
030102	1	1018
030102	1	1019
030102	1	1020
030102	1	1021
030102	1	1022
030102	1	1023
030102	1	1024
030102	1	1025
030102	1	1026
030102	1	1027
030102	1	1028
030102	1	1029
030102	1	1030
030102	1	1031
030102	1	1032
030102	1	1033
030102	1	1034
030102	1	1035
030102	1	1036
030102	1	1037
030102	1	1038
030102	1	1039
030102	1	1040
030102	1	1041
030102	1	1042
030102	1	1043
030102	1	1044
030102	1	1045
030102	1	1046
030102	1	1047
030102	1	1048
030102	1	1049
030102	1	1050



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030102	1	1051
030102	1	1052
030102	1	1053
030102	1	1054
030102	1	1055
030102	1	1056
030102	1	1057
030102	1	1058
030102	1	1059
030102	1	1060
030102	1	1061
030102	1	1062
030102	1	1063
030102	1	1064
030102	1	1994
030102	1	1995
030102	1	1996
030102	1	1997
030102	1	1999
030201	1	1000
030201	1	1001
030201	1	1002
030201	1	1003
030201	1	1004
030201	1	1005
030201	1	1006
030201	1	1007
030201	1	1008
030201	1	1009
030201	1	1010
030201	1	1011
030201	1	1012
030201	1	1013
030201	1	1014



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

030201	1	1015
030201	1	1016
030201	1	1017
030201	1	1018
030201	1	1019
030201	1	1020
030201	1	1021
030201	1	1022
030201	1	1023
030201	1	1024
030201	1	1025
030201	1	1026
030201	1	1027
030201	1	1028
030201	1	1029
030201	1	1030
030201	1	1031
030201	1	1032
030201	1	1033
030201	1	1034
030201	1	1035
030201	1	1036
030201	1	1037
030201	1	1038
030201	1	1039
030201	1	1040
030201	1	1041
030201	1	1042
030201	1	1043
030201	1	1044
030202	2	2000
030202	2	2001
030202	2	2002
030202	2	2003



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> Easygrants ID: 87	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030202	2	2004
030202	2	2005
030202	2	2006
030202	2	2007
030202	2	2008
030202	2	2009
030202	2	2010
030202	2	2011
030202	2	2012
030202	2	2013
030202	2	2014
030202	2	2015
030202	2	2016
030202	2	2017
030202	2	2018
030202	2	2019
030202	2	2020
030202	2	2021
030202	2	2022
030202	2	2023
030202	2	2024
030202	2	2025
030202	2	2026
030202	2	2027
030202	2	2028
030202	2	2029
030202	2	2030
030202	2	2031
030202	2	2032
030202	2	2033
030202	2	2034
030202	2	2035
030202	2	2036
030202	2	2037



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> Easygrants ID: 87	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030202	2	2038
030202	2	2039
030202	2	2040
030202	2	2041
030202	2	2042
030202	2	2043
030202	2	2044
030202	2	2045
030202	2	2046
030202	2	2047
030202	2	2048
030202	2	2049
030202	2	2050
030202	2	2051
030202	2	2052
030202	2	2053
030202	2	2054
030202	2	2055
030203	1	1000
030203	1	1001
030203	1	1002
030203	1	1003
030203	1	1004
030203	1	1005
030203	1	1006
030203	1	1007
030203	1	1008
030203	1	1009
030203	1	1010
030203	1	1011
030203	1	1012
030203	1	1013
030203	1	1014
030203	1	1015





**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030203	1	1016
030203	1	1017
030203	1	1018
030203	1	1019
030203	1	1020
030203	2	2000
030203	2	2001
030203	2	2002
030203	2	2003
030203	2	2004
030203	2	2005
030203	2	2006
030203	2	2007
030203	2	2008
030203	2	2009
030203	2	2010
030203	2	2011
030203	2	2012
030203	2	2013
030203	2	2014
030203	2	2015
030203	2	2016
030203	2	2017
030203	2	2018
030203	2	2019
030203	2	2020
030203	2	2021
030203	2	2022
030203	2	2023
030203	2	2024
030203	2	2025
030203	2	2026
030203	2	2027
030203	2	2028



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> Easygrants ID: 87	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030203	2	2029
030203	2	2030
030203	2	2031
030203	2	2032
030203	2	2033
030203	2	2034
030203	2	2035
030203	2	2036
030203	2	2037
030203	2	2038
030203	2	2039
030203	2	2040
030203	2	2041
030203	2	2042
030203	2	2043
030203	2	2044
030203	2	2999
030203	3	3000
030203	3	3001
030203	3	3002
030203	3	3003
030203	3	3004
030203	3	3005
030203	3	3006
030203	3	3007
030203	3	3008
030203	3	3009
030203	3	3010
030302	3	3000
030302	3	3001
030302	3	3002
030302	3	3003
030302	3	3004
030302	3	3005



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030302	3	3006
030302	3	3007
030302	3	3008
030302	3	3009
030302	3	3010
030302	3	3011
030302	3	3012
030302	3	3013
030302	3	3014
030302	3	3015
030302	3	3016
030302	3	3017
030302	3	3018
030302	3	3019
030302	3	3020
030302	3	3021
030302	3	3022
030302	3	3023
030302	3	3024
030302	3	3025
030302	3	3026
030302	3	3027
030302	3	3028
030302	3	3029
030302	3	3039
030302	3	3040
030302	3	3041
030302	3	3044
030302	3	3045
030302	3	3046
030302	3	3047
030302	3	3048
030302	3	3049
030302	3	3050



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

030302	3	3051
030302	3	3052
030302	3	3053
030302	3	3054
030302	3	3055
030302	3	3056
030302	3	3057
030302	3	3058
030302	3	3059
030302	3	3060
030302	3	3061
030302	3	3062
030302	3	3063
030302	3	3064
030302	3	3065
030302	3	3066
030302	3	3067
030302	3	3068
030302	3	3069
030302	3	3070
030302	3	3071
030302	3	3072
030302	3	3073
030302	3	3074
030302	3	3075
030302	3	3076
030302	3	3077
030302	3	3078
030302	3	3079
030302	3	3080
030302	3	3081
030302	3	3082
030302	3	3999
030303	2	2000



**Broadband Infrastructure Application  
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<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030303	2	2001
030303	2	2002
030303	2	2003
030303	2	2004
030303	2	2005
030303	2	2006
030303	2	2007
030303	2	2008
030303	2	2009
030303	2	2010
030303	2	2011
030303	2	2012
030303	2	2013
030303	2	2014
030303	2	2015
030303	2	2016
030303	2	2017
030303	2	2018
030303	2	2019
030303	2	2020
030303	2	2021
030303	2	2022
030303	3	3000
030303	3	3001
030303	3	3002
030303	3	3003
030303	3	3004
030303	3	3005
030303	3	3006
030303	3	3007
030303	3	3008
030303	3	3009
030303	3	3010
030303	3	3011



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

030303	3	3012
030303	3	3013
030303	3	3014
030303	3	3015
030303	3	3016
030303	3	3017
030303	3	3018
030303	3	3019
030303	3	3020
030303	3	3021
030303	3	3022
030303	3	3023
030303	3	3024
030303	3	3025
030303	3	3026
030303	3	3027
030303	3	3028
030303	3	3029
030303	3	3030
030303	3	3031
030303	3	3032
030303	3	3033
030303	3	3034
030303	3	3035
030303	3	3036
030303	3	3037
030303	3	3038
030303	3	3039
030303	3	3040
030303	3	3041
030303	3	3042
030303	3	3043
030303	3	3044
030303	3	3045



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030303	3	3046
030303	3	3047
030303	3	3048
030303	3	3049
030303	3	3992
030303	3	3993
030303	3	3994
030303	3	3995
030303	3	3996
030303	3	3997
030303	4	4000
030303	4	4001
030303	4	4002
030303	4	4997
030303	4	4998
030305	2	2000
030305	2	2001
030305	2	2002
030305	2	2003
030305	2	2004
030305	2	2005
030305	2	2006
030305	2	2007
030305	2	2008
030305	2	2019
030305	2	2020
030305	2	2021
030305	2	2022
030305	2	2023
030305	2	2024
030305	2	2025
030305	2	2026
030305	2	2027
030305	2	2028



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> Easygrants ID: 87	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030305	2	2029
030305	2	2030
030305	2	2031
030305	2	2032
030305	2	2033
030305	2	2034
030305	2	2035
030305	2	2036
030305	2	2037
030305	2	2038
030305	2	2039
030305	2	2040
030305	2	2041
030305	2	2042
030305	2	2043
030305	2	2044
030305	2	2045
030305	2	2046
030305	2	2047
030305	2	2048
030305	2	2049
030305	2	2050
030305	2	2051
030305	2	2052
030305	2	2998
030305	2	2999
030400	4	4998
030400	5	5000
030400	5	5999
030603	3	3000
030603	3	3001
030603	3	3002
030603	3	3003
030603	3	3004





**Broadband Infrastructure Application  
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<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030603	3	3005
030603	3	3006
030603	3	3007
030603	3	3008
030603	3	3009
030603	3	3010
030603	3	3011
030603	3	3012
030603	3	3013
030603	3	3014
030603	3	3015
030603	3	3016
030603	3	3017
030603	3	3018
030603	3	3019
030603	3	3020
030603	3	3021
030603	3	3022
030603	3	3023
030603	3	3024
030603	3	3025
030603	3	3026
030603	3	3027
030603	3	3028
030603	3	3029
030603	3	3030
030603	3	3031
030603	3	3032
030603	3	3033
030603	3	3034
030603	3	3035
030603	3	3036
030603	3	3037
030603	3	3038



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

030603        3        3039  
 030603        3        3040  
 030603        3        3041  
 030603        3        3042  
 030603        3        3043  
 030603        3        3998  
 030603        3        3999

**Last Mile Service Area Name:**        Evans  
**Community Name:**                        Evans  
**Rural Classification of the Community:** Non-Rural  
**BIP – Service Status:**                    Served

**BIP - If Service Status is "Underserved" please select at least one applicable option from this list.**

**BTOP - Service Status:**    Underserved

**BTOP - If Service Status is "Underserved" please select at least one applicable option from this list.**  
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

**Total Square Miles of Service Area: 56**  
**Total Population : 60,887**  
**Total Number of Households: 22,235**  
**Total Number of Businesses: 1,300**  
**Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities: 40**

**Middle Mile Span Name:**                        Wildwood  
**Census Blocks in Middle Mile Span:**    Tract            Group Block

030400        1        1000  
 030400        1        1001  
 030400        1        1002  
 030400        1        1003



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

030400	1	1004
030400	1	1005
030400	1	1006
030400	1	1007
030400	1	1008
030400	1	1009
030400	1	1010
030400	1	1011
030400	1	1015
030400	1	1016
030400	1	1017
030400	1	1018
030400	1	1019
030400	1	1020
030400	1	1021
030400	1	1022
030400	1	1023
030400	1	1024
030400	1	1025
030400	1	1026
030400	1	1027
030400	1	1030
030400	1	1031
030400	1	1032
030400	1	1033
030400	1	1034
030400	1	1035
030400	1	1999
030400	4	4000
030400	4	4001
030400	4	4003

**Last Mile Service Area Name:** Wildwood  
**Community Name:** Other  
**Rural Classification of the Community:** Rural  
**BIP – Service Status:**



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> Easygrants ID: 87	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

**BIP - If Service Status is "Underserved" please select at least one applicable option from this list.**

**BTOP - Service Status:** Underserved

**BTOP - If Service Status is "Underserved" please select at least one applicable option from this list.**  
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;  
 The rate of broadband subscribership for the proposed funded service area is 40% of households or less.

**Total Square Miles of Service Area: 34**  
**Total Population : 743**  
**Total Number of Households: 443**  
**Total Number of Businesses: 50**  
**Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities: 5**

Middle Mile Span Name:	Appling	
	Census Blocks in Middle Mile Span:	Tract Group Block
030400	1	1012
030400	1	1013
030400	1	1014
030400	1	1028
030400	1	1029
030400	1	1998
030400	2	2000
030400	2	2001
030400	2	2002
030400	2	2003
030400	2	2004
030400	2	2005
030400	2	2006
030400	2	2007



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030400	2	2008
030400	2	2009
030400	2	2010
030400	2	2011
030400	2	2012
030400	2	2013
030400	2	2014
030400	2	2998
030400	2	2999
030400	3	3000
030400	3	3001
030400	3	3002
030400	3	3003
030400	3	3004
030400	3	3005
030400	3	3006
030400	3	3007
030400	3	3008
030400	3	3009
030400	3	3010
030400	3	3011
030400	3	3012
030400	3	3013
030400	3	3014
030400	3	3015
030400	3	3016
030400	3	3017
030400	3	3018
030400	3	3019
030400	3	3020
030400	3	3021
030400	3	3022
030400	3	3023
030400	3	3024



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> Easygrants ID: 87	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

- 030400      3      3026
- 030400      3      3027
- 030400      4      4004
- 030400      4      4005
- 030400      4      4006
- 030400      4      4007
- 030400      4      4008
- 030400      4      4009
- 030400      4      4010
- 030400      4      4011
- 030400      5      5001
- 030400      5      5002
- 030400      5      5003
- 030400      5      5004
- 030400      5      5007
- 030400      5      5013
- 030400      5      5014
- 030400      5      5015
- 030400      5      5016
- 030400      5      5997
- 030400      5      5998
- 950100      1      1016
- 950100      1      1060

**Last Mile Service Area Name:**      Appling  
**Community Name:**                      other  
**Rural Classification of the Community:** Rural  
**BIP – Service Status:**

<b>BIP - If Service Status is "Underserved" please select at least one applicable option from this list.</b>
--

**BTOP - Service Status:**    Underserved

<b>BTOP - If Service Status is "Underserved" please select at least one applicable option from this list.</b>
No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

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**Total Square Miles of Service Area: 94**  
**Total Population : 3,811**  
**Total Number of Households: 1,502**  
**Total Number of Businesses: 100**  
**Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities: 15**

<b>Middle Mile Span Name:</b>		<b>Harlem</b>	
<b>Census Blocks in Middle Mile Span:</b>	<b>Tract</b>	<b>Group</b>	<b>Block</b>
030501	1	1003	
030501	1	1004	
030501	1	1005	
030501	1	1006	
030501	1	1007	
030501	1	1008	
030501	1	1009	
030501	1	1010	
030501	1	1011	
030501	1	1012	
030501	1	1013	
030501	1	1014	
030501	1	1017	
030501	1	1018	
030501	1	1019	
030501	1	1020	
030501	1	1021	
030501	1	1022	
030501	1	1023	
030501	1	1024	
030501	1	1025	
030501	1	1026	
030501	1	1027	
030501	2	2000	



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030501	2	2001
030501	2	2002
030501	2	2003
030501	2	2004
030501	2	2005
030501	2	2006
030501	2	2007
030501	2	2008
030501	2	2009
030501	2	2011
030501	2	2012
030501	3	3001
030501	3	3002
030501	3	3005
030501	3	3006
030501	3	3007
030501	3	3008
030501	3	3009
030501	3	3010
030501	3	3011
030501	3	3012
030501	3	3013
030501	3	3014
030501	3	3015
030501	3	3016
030501	3	3017
030501	3	3018
030501	3	3019
030501	3	3020
030501	3	3021
030501	3	3022
030501	3	3023
030501	3	3024
030501	3	3025





**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

030501	3	3026
030501	3	3027
030501	3	3028
030501	3	3029
030501	3	3030
030501	3	3031
030501	3	3032
030501	3	3033
030501	3	3034
030501	3	3035
030501	3	3036
030501	3	3037
030501	3	3038
030501	3	3039
030501	3	3041
030501	3	3042
030501	3	3043
030501	3	3044
030501	3	3045
030501	3	3046
030501	3	3047
030501	3	3048
030501	3	3049
030501	3	3050
030501	3	3051
030501	3	3052
030501	3	3053
030501	3	3054
030501	3	3055
030501	3	3056
030501	3	3057
030501	3	3058
030501	3	3059
030501	3	3060



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

030501	3	3061
030501	3	3062
030501	3	3063
030501	3	3064
030501	3	3065
030501	3	3066
030501	3	3067
030501	3	3068
030501	3	3069
030501	3	3070
030501	3	3071
030501	3	3072
030501	3	3073
030501	3	3074
030501	3	3075
030501	3	3076
030501	3	3077
030501	3	3078
030501	3	3079
030501	3	3080
030501	3	3081
030501	3	3082
030501	3	3083
030501	3	3084
030501	3	3085
030501	3	3086
030501	3	3087
030501	3	3088
030501	3	3089
030501	3	3090
030501	3	3091
030501	3	3092
030501	3	3093
030501	3	3094



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> Easygrants ID: 87	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030501      3      3095  
**Last Mile Service Area Name:** Harlem  
**Community Name:** Harlem  
**Rural Classification of the Community:** Non-Rural  
**BIP – Service Status:**

<b>BIP - If Service Status is "Underserved" please select at least one applicable option from this list.</b>

**BTOP - Service Status:** Unserved

<b>BTOP - If Service Status is "Underserved" please select at least one applicable option from this list.</b>
---

**Total Square Miles of Service Area:** 47  
**Total Population :** 7,111  
**Total Number of Households:** 2,757  
**Total Number of Businesses:** 175  
**Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities:** 20

<b>Middle Mile Span Name:</b>	<b>Grovetown</b>		
<b>Census Blocks in Middle Mile Span:</b>	<b>Tract</b>	<b>Group</b>	<b>Block</b>
030501	1	1000	
030501	1	1001	
030501	1	1002	
030501	1	1015	
030501	1	1016	
030501	1	1028	
030501	1	1029	
030501	3	3000	
030501	3	3003	
030501	3	3004	
030502	4	4002	
030502	4	4005	
030502	4	4006	
030502	4	4008	



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030502	4	4010
030502	4	4011
030502	4	4012
030502	4	4013
030502	4	4014
030502	4	4015
030502	4	4016
030502	4	4017
030502	4	4018
030502	4	4019
030502	4	4020
030502	4	4021
030502	4	4022
030502	4	4023
030502	4	4024
030502	4	4025
030502	4	4026
030502	4	4027
030502	4	4028
030502	4	4029
030502	4	4030
030502	4	4031
030502	4	4032
030502	4	4033
030502	4	4034
030502	4	4035
030502	4	4036
030502	4	4037
030502	4	4038
030502	4	4039
030502	4	4040
030502	4	4041
030502	4	4042
030502	4	4043



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030502	4	4044
030502	4	4045
030502	4	4046
030502	4	4047
030502	4	4048
030502	4	4049
030502	4	4050
030502	4	4051
030502	4	4052
030502	4	4053
030502	4	4054
030502	4	4055
030502	4	4056
030502	4	4057
030502	4	4058
030502	4	4059
030502	4	4060
030502	5	5000
030502	5	5001
030502	5	5002
030502	5	5003
030502	5	5004
030502	5	5005
030502	5	5006
030502	5	5008
030502	5	5009
030502	5	5010
030502	5	5011
030502	5	5012
030502	5	5013
030502	5	5014
030502	5	5015
030502	5	5016
030502	5	5017



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030502	5	5018
030502	5	5020
030502	5	5021
030502	5	5022
030502	5	5023
030502	5	5024
030502	5	5025
030502	5	5026
030502	5	5027
030502	5	5028
030502	5	5029
030502	5	5030
030502	5	5031
030502	5	5032
030502	5	5033
030502	5	5034
030502	5	5035
030502	5	5036
030502	5	5037
030502	5	5038
030502	5	5039
030502	5	5040
030502	5	5041
030502	5	5042
030502	5	5043
030502	5	5044
030502	5	5045
030502	5	5046
030502	5	5047
030502	5	5048
030502	5	5049
030502	5	5050
030502	5	5051
030502	5	5052



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

- 030502      5      5053
- 030502      5      5054
- 030502      5      5055
- 030502      5      5056
- 030502      5      5057
- 030502      5      5058
- 030502      5      5059
- 030502      5      5060
- 030502      5      5061
- 030502      5      5062
- 030502      5      5063
- 030502      5      5064
- 030502      5      5065
- 030502      5      5066
- 030502      5      5067
- 030502      5      5068
- 030502      5      5069
- 030502      5      5997
- 030502      5      5998
- 030502      5      5999

**Last Mile Service Area Name:** Grovetown  
**Community Name:** Grovetown  
**Rural Classification of the Community:** Non-Rural  
**BIP – Service Status:**

**BIP - If Service Status is "Underserved" please select at least one applicable option from this list.**

**BTOP - Service Status:** Underserved

**BTOP - If Service Status is "Underserved" please select at least one applicable option from this list.**  
 No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

**Total Square Miles of Service Area: 26**



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

**Total Population : 10,165**  
**Total Number of Households: 4,006**  
**Total Number of Businesses: 600**  
**Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities: 15**

<b>Middle Mile Span Name:</b>		<b>Patriot's Park</b>	
<b>Census</b>	<b>Blocks</b>	<b>in Middle Mile Span:</b>	<b>Tract      Group Block</b>
030302	3	3030	
030302	3	3031	
030302	3	3032	
030302	3	3033	
030302	3	3034	
030302	3	3035	
030302	3	3036	
030302	3	3037	
030302	3	3038	
030302	3	3083	
030302	3	3084	
030304	1	1000	
030304	1	1001	
030304	1	1003	
030304	1	1004	
030304	1	1005	
030304	1	1006	
030304	1	1007	
030304	1	1008	
030304	1	1009	
030304	1	1010	
030304	1	1011	
030304	1	1012	
030304	1	1013	
030304	2	2000	
030304	2	2001	





**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b> <b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program	<b>Applicant Organization:</b> Columbia County Georgia IT
<b>Task:</b> Submit Application - Infrastructure Programs	<b>Applicant Name:</b> Mr. Lewis Foster

030304	2	2002
030304	2	2003
030304	2	2004
030305	2	2009
030305	2	2010
030305	2	2011
030305	2	2012
030305	2	2013
030305	2	2014
030305	2	2015
030305	2	2016
030305	2	2017
030305	2	2018
030400	5	5005
030400	5	5006
030400	5	5008
030400	5	5009
030400	5	5010
030400	5	5011
030400	5	5012
030400	5	5017
030400	5	5018
030400	5	5019
030400	5	5020
030400	5	5021
030400	5	5022
030400	5	5023
030400	5	5024
030400	5	5025
030400	5	5996
030400	7	7000
030400	7	7001
030400	7	7002
030400	7	7003



**Broadband Infrastructure Application  
Submission to RUS (BIP) and NTIA (BTOP)**

<b>Submitted Date:</b>		<b>Easygrants ID: 87</b>	
<b>Funding Opportunity:</b> Broadband Initiatives Program and Broadband Technology Opportunities Program		<b>Applicant Organization:</b> Columbia County Georgia IT	
<b>Task:</b> Submit Application - Infrastructure Programs		<b>Applicant Name:</b> Mr. Lewis Foster	

030400        7        7004  
030400        7        7005

**Last Mile Service Area Name:** Patriot's Park  
**Community Name:** other  
**Rural Classification of the Community:** Non-Rural  
**BIP – Service Status:**

<b>BIP - If Service Status is "Underserved" please select at least one applicable option from this list.</b>

**BTOP - Service Status:** Underserved

<b>BTOP - If Service Status is "Underserved" please select at least one applicable option from this list.</b>
No fixed or mobile broadband service provider advertises broadband transmission speeds of at least 3 mbps downstream in the proposed funded service area;

**Total Square Miles of Service Area: 38**  
**Total Population : 5,714**  
**Total Number of Households: 2,051**  
**Total Number of Businesses: 400**  
**Total Number of Critical Community Facilities, Anchor Institutions and Public Safety Entities: 10**

## N. Uploads

In order to improve system performance and help ensure that all applicants are able to complete their applications by the deadline, we have changed the way your application PDF is created. This PDF contains all of the information you entered throughout the Easygrants data entry screens. PDF copies of all documents that have been uploaded can be viewed and printed separately from the **Main page of the application after you submit**. These will continue to be available to you in read-only format after your application has been submitted.