Project Description and Timeline

The Rio Rico Fiber to the Home project proposes to bring high quality broadband service to about 1,021 unserved or underserved homes in Santa Cruz County, Rio Rico area. This project seeks to address the digital divide that currently exists in parts of the state of Arizona. We know when an area lacks access to high quality broadband service, the residents and businesses face more challenges to keep up with the modern world. The ongoing pandemic has shown that high quality, high speed broadband internet service is a necessity and not a luxury. When schools and businesses shut down and medical clinics and hospitals reached capacity, residents of Arizona turned to high speed broadband services to continue working, learning, and maintaining access to medical care. This became the temporary new normal. During this time, those without access to high speed broadband services were clearly disadvantaged. What we found when we reviewed this is that these areas are unserved due to a mixture of low population density, high cost of infrastructure expansion, below average income levels in the area, and the general rurality of the targeted service areas. Without grant funding from this program, there would not be a sufficient return on investment to incentive private investment to build this area. With this grant funding of [redacted] of total eligible project costs through the State of Arizona, we are confident we can bring many improvements to this unserved area with high quality broadband service.

This project proposes to build 45.14 miles of fiber to bring service to 1,011 homes and 10 businesses in the Rio Rico area of Santa Cruz County. While we don't have an exact population for this grant area, using the average person per home in the county we can estimate about 2,942 total population. The area of this grant doesn't cover any known community anchor institutions. Our build proposes to place all our fiber in conduit and run it underground to minimize aerial attachments, but in certain circumstances an aerial attachment may be required. Our goal is to minimize that where possible.

This build will bring a number of improvements to the targeted service area and greatly address the broadband needs. First, bringing high speed broadband service to an unserved area opens a number of opportunities for residents and businesses. For residents, this will open up more opportunities for education, better access for healthcare, and a possibility for more job opportunities or better job opportunities. This level of broadband service makes it easy for students to do remote learning, no matter if there is a young student in the home in K-12 school or graduate level students working on a more advanced degree. This level of broadband will allow streaming multiple lectures all while others are using the service with minimal impact. Being a more remote area, travel is often required for healthcare visits. This service will allow residents to use telehealth options to minimize their travel and get a wider range of doctors and specialists to help ensure proper healthcare. For the workforce, this level of broadband can make massive improvements. Allowing remote work will allow employers to take stress off of employees, minimize missed work due to sick time, and expand their range of who they can hire due to proximity to the building. It will open up more jobs for the residents in the area as many companies are shifting to hiring remote workers in different parts of the country. For the residents, this level of service will bring many positive improvements. For the economy and the businesses in the area, improvements will be vast as well. From expanding the work force and allowing remote work, to increasing productivity and output, high speed broadband can do a lot for existing businesses. We also know that potential home buyers gauge whether there is high quality broadband service when looking at homes. Adding this service could possibly increase

home value and help the overall economy in the area. These improvements for residents and businesses cannot be overstated.

We expect this project to take about two years from grant approval. For full description of the work being done per phase and timeline, please see Exhibit A: Project Timeline Detail. The work for this project will be handled by contractors and managed by internal Mediacom staff. We expect this project to be worked by Hylan West.

This project will fall under the ABDG Rural grant. All of the funds in the grant will be allocated to the project. For complete fund usage breakdown, please see Exhibit B: Budget Breakdown and Explanation. To the best of our knowledge, the homes and businesses that we are proposing to serve currently do not have access to speeds over 25/3 Mbps and we are proposing service that is 2000/1000, which is well above the 100/100 requirement. We have no other grants in this area, so there will be no issue of "double-dipping", which is prohibited in this grant application. We are fully capable of executing a contract with the ACA within sixty (60) days of notification of a grant award. For proof showing financial capacity to pay the incurred expenses of the project while grant reimbursements, please see supporting document "Documentation of Commitments". All match contributions will be from private capital from Mediacom. All match funds are now available and will remain available at the formalization of the grant agreement. We intend to use all match funds as expressed in Exhibit B: Budget Breakdown and Explanation. This commitment of funds by the applicant to deliver the match is binding in all circumstances.

Mediacom is committed to serving rural networks and we can extend that commitment to this project to serve this area for a minimum of five years upon completion of the improvements.

Project Description and Timeline – Development

This area of Rio Rico is currently unserved to the best of our knowledge. For background context, we have worked to determine if this could be built and pass internal requirements of return on investment and based upon our review it will not pass return due to rurality, adoption, and cost concerns. We have looked at this project numerous times, but we have failed to find a way to build this. When the State or Arizona opened this grant program, we felt this would be a fantastic opportunity to utilize state funds to help build unserved areas of the state, which meet the program goal.

This nature and scope of this project is to bring high speed, reliable Fiber to the Home broadband service to 1,011 homes and 10 businesses that currently do not have broadband at speeds of 25/3 Mbps. We don't have an exact population for this grant area, but using the average person per home in the county we can estimate about 2,942 total population. We are not proposing to build any anchor institutions with this project. The type of service that this project proposes is Fiber to the Home (FTTH). Mediacom's FTTH system will initially be deployed as a 10G XGS-PON solution (the "X" represents the number 10, the "G" stands for gigabit, the "S" stands for symmetrical, and the "PON" stands for Passive Optical Networks). This system will be capable of delivering multi-Gigabit download and upload speeds. The optical line terminal (OLT) hardware Mediacom deploys is pre-built to support 25G PON, which allows for cost effective upgrades when there is a system need. When building a new FTTH network, we place an OLT facility in or near the primary service market, equipped with backup power and transfer switch capable of connecting a portable generator in extreme cases such as natural disasters. Each OLT will have fiber optic connectivity to clusters of homes and businesses, each with a

fiber access terminal at the right of way of the connecting property. For homes or businesses that choose to become customers, Mediacom will build from that right of way point to the home or business and provide them with a fiber optic network terminal (ONT) at their premises. This style of connection will allow us to offer several different speed tiers, with our top tier being 2000 Mbps download and 1000 Mbps upload (2 Gbps Internet) with unlimited data. This network is equipped to handle multi-gigabit speeds that can be supported on an individual case basis up to and included a dedicated XGS-PON 8.5 Gbps service. At the customer premises, the customer will have access to managed Wi-Fi services to ensure whole-home coverage. Business customers will have access to our full suite of business products including private network connectivity both locally and nationally. This means that the network we are launching in this area will be something that can last many years into the future without major infrastructure changes, but as technology changes come and area needs arise, this network can be upgraded and adjusted with minimal overall changes. We intend to run this system in conduit underground to minimize any aerial attachments. There may be some certain situations where we use aerial, but that will be minimal and only where required.

Our approach to this project is similar to all internal projects we build. Once we receive grant approvals, we will finalize our project design internally and add the design to our system. We will then apply for all permits that will be necessary at the federal, state, and local level in order to build this system. Once we have all permitting, we will start physical construction in the area in order to extend the fiber. Once we have the complete construction done, we will start our quality control process to ensure everything in spec and meets all industry and internal standards. Once we ensure everything passes, we will then advertise to all homes and businesses that service is now available to ensure the area is aware of new service.

Our expected contractor for this project will be Hylan West, who we have worked with for an extended amount of time. Per their website: "Hylan is a leading provider of full-service turnkey communications solutions, electrical infrastructure design and construction services for wireline, wireless and smart city municipal services across the United States. Hylan is the parent company to four divisions that include Hylan Datacom & Electrical, Hylan West, Down Under Construction and Western Utility. Hylan Companies provide an array of comprehensive services, which include communications and electrical infrastructure design, DAS and small cell installations, engineering, construction and maintenance services and more. Originally founded as Hylan Datacom & Electrical over 60 years ago in New York City, Hylan now serves a wide variety of end-markets throughout the U.S., with current offices and facilities in New York, New Jersey, Arizona, California, Illinois, Iowa, Maryland, Pennsylvania, Utah and Virginia. Supported by private equity firms Flexis Capital and TZP Capital Partners to accelerate its growth strategy, Hylan plans for additional expansions throughout the U.S. in 2021 and beyond." We do not intend to utilize any additional contractors on this project at this time, but if more are added we will clearly disclose that based upon the grant agreement.

This project has been fully reviewed by a Professional Engineer in the state of Arizona. Please see Exhibit C: Professional Engineer Certification for the PE stamp approving this project.

Other Project Outcomes

Outside of the previously stated benefits that will come from the expansion of broadband to this area, one major benefit that this project will bring is expanding low-cost broadband

service to homes that may be financially challenged. We have offered our low-cost broadband service, Connect2Compete, for a number of years that offers broadband service to customers for $9.95/month if the household has a student on free or reduced lunch. We recently launched Connect2Compete+, which offers a higher speed of service for those who qualify through a number of low-income programs offered federally. We are also proud to be a part of the FCC's Emergency Broadband Benefit program, and the new Affordable Connectivity Program, which helps qualifying low-income households with the cost of broadband service. Mediacom prides itself on servicing rural communities and bringing high quality broadband that is usually only found in metropolitan areas to lower density and more rural markets and a part of that is making sure we offer affordable packages that will allow everyone in the area to connect to our high-quality broadband service.

Exhibit A: Project Timeline Detail

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[redacted]