Attachment G – Business Plan

ATC has provided internet services to rural homes and farm industry in the proposed project area since 1998. Even though the facilities have evolved over the decades, the current technology is unable to provide modern broadband services of 100 DL and 20 UL or greater to all locations.

The project area is rural Gosper and Dawson Counties. Using Tarana's next generation Fixed Wireless Access (ngFWA) platform, ATC proposes to overbuild our existing infrastructure to provide new tiers of broadband service that align with the NBBP standards. To supply the required bandwidth to all sites, ATC will construct and improve fiber facilities. This involves plowing 3.6 miles of fiber and upgrading fiber switches at each of the four tower sites outlined in the tower locations file attachment (K1). The next generation Fixed Wireless access Base Nodes will be oriented to maximize coverage and require host site improvements (transport fiber, switching, powering and battery, etc.) to support the multi-gigabit throughputs achievable for each new wireless cell. Advanced RN (Remote Node) will be installed at each customer location. Each end-user will have the option to receive ATC provided Gateway units that host the public IP of the location. This Gateway provides WiFi access to the premises and visibility to ATC support staff on individual locations performance. 296 locations have been identified as underserved. These locations are provided in the shapefile ATCCommunications_Canyonlakes_B.zip and are the Grant Requested locations. Also outlined per PSC request, are all locations including those under an enforceable commitment or locations that are "Served" that are within the RF coverage of the towers (Attachment B1).

ATC's fiber component of the project includes the use of public ROW, and private easements with prior collaboration from the landowner(s). The FCC has established an Automated Frequency Coordination (AFC) that governs the use of the 6GHz frequency band. The AFC provides insight into the band usage across the competitive market and allows ATC to request frequencies that avoid interference for each carrier at the cell or Base Node level. The AFC also allows engineers to access the system to determine suitability of the site for channel availability in the 6GHz spectrum. In the case of our deployment schema, UNI-5 and UNI-7 channels are available at full power with no expected interference at deployment. UNI-III and UNI-4 bands are certified for use with the system. UNI-4 currently requires a Special Temporary Authority from the FCC and ATC has an application for its use.

Look to attachment G1 for a financial analysis of the project with cashflow predictions.

Maintenance of a fixed wireless access network starts with accurate monitoring and record keeping. Fiber infrastructure, powering infrastructure, and RF statistics are continually monitored. Bi-Annual site inspection of the environmental, and powering components occur. Yearly evaluation of the tower located radios, cabling, and grounding are performed. The tower located equipment is exposed to harsh weather conditions year-round. ATC employs tower certified technicians equipped to respond for equipment recovery or sparing as required. Customer premise equipment is the most susceptible to regular maintenance needs. Records detailing installation specifications guide the maintenance of each end-user installation. On-going historical tabulation of each locations RF statistics and ethernet properties can be compared to the baselines recorded at installation facilitating rapid recovery of the end-user's network.

The area proposed is comprised of rural homes, farms, and businesses and should be considered a rural project.