

**Glenwood Telecommunications, Inc.**  
**Lewellen Rural**  
**Attachment G\_1 – Business Plan**

**Proposed Project**

Glenwood Telecommunications propose to build fiber in Keith and Garden counties connecting fiber to the community of Lewellen and provide service to 30 residents and businesses along the route. The network would build fiber-to-the-home (FTTH) along the routes serving unserved homes and businesses. Glenwood intends to expand upon our existing redundant fiber ethernet transport framework using GPON and Active Ethernet to deliver services. These routes will also be used for FTTH expansion in coming years, thus reaching additional customers.

Glenwood is aware of the need to provide broadband service to unserved locations not being served by their ILEC provider. The Nebraska Broadband Bridge Program with the grant opportunities will make the Lewellen Rural project financially viable by allowing Glenwood to expand off our existing fiber network to provide reliable, robust broadband service at an affordable price.

**Challenges**

Project challenges include material acquisition, permitting and contractor management. Glenwood feels that the strong relations fostered over the years of working together will help in overcoming these items. Industry demand has pushed recent fiber optic cabling and equipment purchase lead times beyond the standard time frame for delivery. Glenwood does maintain fiber stock that will work to minimize fiber delivery delays. Applying for permits to occupy and permits to cross are always a concern on a project of this size. However, Glenwood has experienced staff with good working relationships with all the entities involved. Working with local jurisdictions including City, County, State, Railroad, and water crossing officials can be time consuming, however we are also experienced with these processes. Glenwood has been installing fiber since the early 1990s and has skills and experience with the necessary procedures to acquire permits to install fiber in this area. Securing underground contractors is a challenge with the huge demand for fiber installation industrywide however Glenwood has strong relationships utilizing several local contractors for many years. Glenwood's project manager and staff have the expertise to manage local contractors and will have the capability to complete this project in a timely manner.

**Long-Term Maintenance**

As stated above, Glenwood has been installing and building fiber networks for over thirty years and keeps an adequate staff of Network Engineers, IT support, Enhanced Service Technicians, and Customer Service Representatives to maintain the network, plant, and take care of the customers' needs. Glenwood uses a third-party source to provide 24/7/365 customer support along with our in-house support team. Glenwood also contracts third-party vendors to assist with network design and maintenance when necessary. Glenwood would also look to hire additional technical and service staff to keep up with the high standards of service we strive for. These jobs would also help the local economies by providing good paying local jobs keeping the communities strong.

Glenwood has equipment and processes in place to continually monitor the network to ensure it is running securely and efficiently. The estimated life of the electronics is 5 to 10 years; however, Glenwood continually evaluates the efficiencies of the network equipment in place and updates cards and optics as technology improves. Glenwood's network construction consists of an all fiber network to the home. The expected useful life of the fiber network is approximately 40 years.

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**Financial Analysis**

The allowable costs of this project for all 30 locations are estimated to be \$503,256.99, and Glenwood is requesting a 75% grant of \$377,442.74. Glenwood has funds available to fund the difference of \$125,814.25 and will not need to borrow funds to complete the buildout and long-term maintenance obligations of this project.

The financial analysis of this project does not demonstrate a positive cash flow in five years; however, this project will make connection to the town of Lewellen giving Glenwood an opportunity to build to many unserved and underserved residents and businesses within the community. Glenwood is financially strong and has funds available for project costs that exceed the amount of the requested grant and will be able to maintain this project.

The business model for this project includes the assumption of acquiring a take rate of 60% or 18 locations within the first year. Glenwood believes this is attainable as those currently unserved will now have access to reliable and robust broadband services at an affordable price.

Revenues will be generated from Broadband, Voice, and Managed Wi-Fi services. Also included are ‘*good faith estimates*’ of broadband prices as shown in the chart below. The price increases could be necessary to offset increases in expenses.

Good Faith Estimates of Broadband Prices							
Residential Plans	Year						
	1	2	3	4	5	6	7
300 Mbps / 150 Mbps	\$ 49.95	\$ 49.95	\$ 54.95	\$ 54.95	\$ 54.95	\$ 54.95	\$ 57.95
500 Mbps / 250 Mbps	\$ 59.95	\$ 59.95	\$ 64.95	\$ 64.95	\$ 64.95	\$ 64.95	\$ 67.95
700 Mbps / 350 Mbps	\$ 69.95	\$ 69.95	\$ 74.95	\$ 74.95	\$ 74.95	\$ 74.95	\$ 77.95
1 Gbps / 500 Mbps	\$ 89.96	\$ 89.96	\$ 94.95	\$ 94.95	\$ 94.95	\$ 94.95	\$ 97.95

Business-class broadband service is \$10.00 additional. Symmetrical broadband service is available for additional \$20.00.  
 Glenwood does not require service contracts, usage caps, metered or usage limits, early termination fees, long term contracts, nor charge for service installation.

**Federally Awarded Grants**

Glenwood has not received any prior federally awarded grant funds for broadband deployment within this project area.

**Community Engagement**

Glenwood recognizes the value of engaging with local leaders and residents to ensure that our prospective service meets the broadband needs of the community and is both affordable and accessible.

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As this project covers a rural area in Garden County, we have interacted with the Garden County Commissioners to communicate our intent to seek funding through the Nebraska Broadband Bridge Program for deployment of a fiber-optic infrastructure in their county. During our discussions it was determined that both entities share the same vision in overcoming digital inadequacy in rural Garden County. During the meeting, the Commissioners communicated their desire to partner with Glenwood going forward in order to complete the mission of bringing quality, high-speed broadband that will allow residents to thrive. Garden County's Letter of Support is included in Attachment M.

Should Glenwood be successful with our grant application, Marketing will share the scope and details of the construction process with county officials and the 30 residents located along the proposed fiber route. Near completion of the fiber project, Glenwood will visit each resident and place a door hanger with information on the benefits of fiber, service offerings & pricing, and ways to sign up. To ensure this information is received, we will follow up with a direct mail campaign that will provide the same information.