

**Nebraska Central Telephone Company  
Boelus Village Limits Underserved  
Attachment G**

**Business Plan**

It is clear from examining the Business Plan for the Boelus Village Limits Underserved Broadband Bridge Act (the “Act”) grant application submitted by Nebraska Central Telephone Company (NCTC) that the project is viable from a technical, legal, and financial standpoint. That conclusion is bolstered by years of successful deployment and maintenance of financially viable broadband networks in the State of Nebraska by NCTC and its owner, Hamilton Telecommunications (Hamilton). As with the existing broadband networks constructed and maintained by NCTC and Hamilton, the Boelus Village Limits Underserved Application makes good sense in all aspects.

**Details of the proposed project Boelus Village Limits Underserved project.**

The geographic area of the Boelus Village Limits Underserved Act application is all within the village limits of Boelus, Nebraska. Boelus has a population of approximately 190 residents and is in Howard County, located on Highway 58 about 17 miles northeast of Ravenna. The proposed project, if approved, would deploy fiber broadband internet to every serviceable location in Boelus that is grant eligible. In order to complete fiber buildout to all serviceable locations in the community, nearly a mile of new fiber will be buried and connected to NCTC’s existing fiber network.

NCTC has maintained a broadband network for decades and maintaining the infrastructure that is part of this application would be status quo for NCTC. Both NCTC and Hamilton understand what it takes to build and maintain a broadband network. Both companies have technical staff capable of maintaining the existing broadband network and the project area for its expected life. Because there are in-house technicians monitoring and maintaining the network on a day-to-day basis, the fiber that would be part of this grant application would be expertly maintained for its useful life. NCTC will be burying all fiber which ensures the highest level of reliability and lowest ongoing maintenance costs when compared to aerial and wireless technology solutions.

**The Boelus Village Limits Underserved grant project infrastructure is anticipated to last for decades with proper construction and maintenance of the technological components needed to construct the project.**

Because NCTC will be burying all fiber deployed in the project, the expected life of the facilities should approach three decades. Although buried fiber is more resilient than other types of fiber deployment, it is not impervious to environmental factors. Additionally, internet technologies will continue to advance over time and some technological components will become obsolete and have to be replaced during the life of the network. Because of that, NCTC would project that there will be ongoing maintenance costs associated with sustaining the network through its expected useful life. The expertise NCTC has in maintaining its other networks will be applied to this project as well.

The technological components used in the project are fiber-optic cable, innerduct conduit, vaults, splice kits, optical line terminals (OLTs), and optical network terminals (ONTs). When the project is completed, those components will connect to the network described in NCTC's Technical Capability Statement (Attachment Letter: C). NCTC anticipates that the OLTs and ONTs will have to be replaced a few times during the life of the network due to needed upgrades and changes in technology. All other technological components will be replaced on an as-needed basis, if damaged by animals or other factors. NCTC has the ability to monitor and identify issues with the network and will diligently troubleshoot any issue that arises, just as it does with the rest of its network.

**The legal challenges and risk factors involved with the Boelus Village Limits Underserved Application planning, construction, and on-going maintenance of the network are well understood and manageable.**

Because NCTC has an existing broadband network, including fiber, in and around the village of Boelus, NCTC has a good grasp of the legal challenges and risk factors there. NCTC has had a relationship with the village for a significant period of time and always obtains permission to do work from the village. NCTC also purposefully communicates project timelines to the village, so all stakeholders are in the loop regarding work. As in the past, NCTC will seek approval from the village of Boelus to bury fiber in the community's right of way. Additionally, there is existing fiber that runs along Highway 58, which is a state highway that bisects Boelus, and there may be a need to obtain additional permitting from the Nebraska Department of Transportation as well. NCTC and Hamilton are well-versed in obtaining the

