

Executive Summary

1 Project Overview

Danville Mutual Telephone Company's Danville FTTP project will provide broadband services to households, businesses, and key community organizations within the entire exchange of Danville, Iowa. This will create the potential for increased business growth, public services, public safety, telehealth, telework, and distance learning. These capabilities are urgently needed by residents of the proposed service area due to the ongoing COVID-19 pandemic.

Danville was previously awarded grant funds under the OCIO Broadband Grants Program – NOFA #2 for a portion of the area that is proposed in this application. Danville appreciates this previous award and the opportunity it provides to build out this unserved area. However, in considering NOFA #3, this opportunity would allow Danville to accelerate the build-out of the Danville exchange to a 1-year timeframe. This would be a 2-year reduction from the current 3-year construction schedule with the NOFA #2 award (and to a larger number of locations). This accelerated deployment would allow Danville to address the increased need for internet connectivity within the Danville exchange due to the COVID-19 pandemic. As indicated in the support letter from Dr. Tom Ward, Superintendent of Danville Community School District, broadband is greatly needed by the students to access online teaching. Their surveys indicated that approximately 46% of students do not currently have sufficient access to highspeed broadband to participate in distance learning. Therefore, Danville asks for the opportunity of this area to be considered for NOFA #3. If awarded funds through NOFA #3, Danville would rescind the NOFA #2 award.

For this project, Danville is proposing to construct a Fiber to the Premises (FTTP) outside plant and electronics infrastructure. This architecture will allow for the highest quality and the broadest range of telecommunications services that are available today, as well as, the maximum broadband capabilities to their subscribers.

Danville has a proven reputation of deploying applications that can reduce operating costs, increase services, improve customer satisfaction, and increase revenue generation. It is led by experienced key staff that can manage their established organization to successfully implement and operate the proposed broadband infrastructure.

The overall total cost of the project is \$7,489,850 with \$3,744,925 requested in grant funding.

2 Geographic Area

The project will include the construction of FTTH infrastructure in rural and town areas of the Danville, Iowa exchange. As shown in Exhibit B, the target service area includes 268 census blocks which cover 64.4 square miles and passes 1,072 broadband units.

3 Deployment Model

Danville intends to build a FTTP architecture to serve the subscribers within the target service area. The proposed FTTP electronics enables the provision of peak data speeds up to a 1 Gbps data service. The management system utilized for the proposed network provides Danville with visibility into the total bandwidth utilization and Danville will have the ability to easily update the network to ensure that the end users do not experience congestion.

4 Timeline

Danville has completed the design and mapping of the project. However, no construction has been initiated on the project, therefore it is “shovel ready” upon award of funds. The following is an overview of the preliminary timeline milestones.

Project Objectives and Activities	2020		2021			
	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4
Network Design and Construction Drawings	Completed					
Pre-Construction Meeting	x					
Construction	x	x	x	x		
Fiber Splice and Test		x	x	x		
Electronics Order	x					
Electronics Ship	x					
Miscellaneous Equipment Install		x				
Electronics Equipment Install		x				
Equipment Turn Up / Test		x				