

Guthrie Telecommunications Network, Inc
 Broadband Grant Program – Empower Rural Iowa
 NOFA #004

Executive Project Summary

Guthrie Telecommunications Network, Inc's (GTN) Guthrie County Broadband Expansion Project will provide broadband services to households within the targeted service area in rural Guthrie County in west Central Iowa. This broadband connectivity will create the potential for telehealth, telecommuting, and distance learning. As shown in Exhibit B, the target service area includes one census block which passes six broadband units. The overall total cost estimate of the project is \$238,500.00 with \$83,300.00 requested in grant funding.

For the Guthrie County Broadband Expansion Project, GTN is proposing to construct a Fiber to the Home (FTTH) outside plant and electronics infrastructure to the households located within the targeted serving area. An FTTH architecture will provide state-of-the-art telecommunications services and the highest level of broadband capabilities to their subscribers. The proposed FTTH electronics enables the provision of peak data speeds up to a 1 Gbps data service. The management system utilized for the proposed network provides GTN with visibility into the total bandwidth utilization. GTN will have the ability to easily update the network to ensure that the end users do not experience congestion.

GTN has considerable experience in broadband deployments with the goal of providing high-speed broadband to all locations in their serving area. GTN 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 Guthrie County Broadband Expansion Project is currently in the planning phase. GTN has explored building out this area; however, the high cost to deploy broadband due to its rurality has been a deterrent. With the proposed grant funding, GTN believes it feasible to complete this expansion. The following is an overview of the preliminary timeline milestones.

Project Objectives and Activities	2021				2022			
	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4
OSP Design/Fielding	x							
Pre-Construction Meeting		x						
Construction			x	x				
Fiber Splice and Test				x				
Electronics Order		x						
Electronics Ship			x					
Miscellaneous Equipment Install			x					
Electronics Equipment Install			x					
Equipment Turn Up / Test				x	x			