

## Executive Summary

### 1 Project Overview

Interstate Cablevision d/b/a OmniTel Communications (Interstate Cablevision) is proposing a FTTH project in Pottawattamie and Warren Counties that will provide broadband services to households, businesses, and key community organizations within the target service area. This broadband connectivity 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 serving area due to the ongoing COVID-19 pandemic.

For this project, Interstate Cablevision is proposing to construct a Fiber to the Home (FTTH) 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.

Interstate Cablevision 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 \$256,000 with \$128,000 requested in grant funding.

### 2 Geographic Area

The rural broadband project will include the construction of FTTH infrastructure in rural census blocks in Pottawattamie and Warren Counties.

As shown in Exhibit B, the target service area includes 2 census blocks which cover 1.76 square miles and passes 11 broadband units.

### 3 Deployment Model

Interstate Cablevision intends to build a FTTH architecture using Gigabit passive optical network (GPON) technologies to serve the subscribers within the target service area. 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 Interstate Cablevision with visibility into the total bandwidth utilization on each PON and Interstate Cablevision will have the ability to easily update the network to ensure that the end users do not experience congestion.

Interstate Cablevision d/b/a OmniTel Communications

Interstate Cablevision FTTH

## 4 Timeline

The following is an overview of the preliminary timeline milestones for the proposed project.

Project Objectives and Activities	2020		2021			
	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4
Network Design and Construction Drawings	x					
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				