

**LANCASTER COUNTY GRANT FORM**

Submitted by: Mikayla Johnson \_\_\_\_\_ Today's date: 8/9/22 \_\_\_\_\_

(On behalf of: Don Phares),

1. Funding source: Middle Mile Grant through the National Telecommunication and Information Administration.
2. Grant due date: 11:59 EDT on September 30, 2022
3. Amount requested: Project total is \$6,502,954
4. Other sources of funding anticipated:

Funding Source	In-kind	Cash	Committed	Pending
a. Private Public Participate (Service Provider)		X		X
b.				
c.				
d.				

5. Project Contact: Don Phares
6. Project Contact's Phone Number: 402-429-8962
7. Number of years grant will run if funded: 3 years
8. This grant is: New
9. General purpose for the grant: (2-3 sentences)
  - The Middle Mile Grant Program provides up to \$1 billion in funding for the construction, improvement, or acquisition of middle mile infrastructure. The purpose of the grant program is to expand and extend middle mile infrastructure to reduce the cost of connecting areas that are unserved or underserved to the internet backbone.
10. Attach a one page summary of grant
11. Attach a one page budget of grant.



### **MMG OVERVIEW:**

The Middle Mile Grant (MMG) is one of a family of federal broadband grants available to the states, counties, cities, towns, and un-incorporated areas of the states and territories of the United States.

The goals of the broadband grants are to allow the expansion of broadband (Fiber optic) internet access To underserved and unserved areas of the state. These areas are typically found in poor urban areas, or, rural farming areas.

The Middle Mile Grant is unique as it connects the current networks that are isolated from each other, and or extend the current unconnected networks.

This may be more easily understood by picturing two networks: a freeway system (Internet) and a secondary road. The secondary road is like a Local Area Network. Each systems have resources on their particular road that can be accessed, but both systems are separate from each other. The MMG can be viewed as a “freeway ramp” from the secondary road (“O street” to the freeway (I-180). Without the ramp, access to the freeway (Internet)is not possible, and once on the freeway, (internet) one can travel anywhere.

The grant application and ensuing project is a concerted effort with the city/county, local contractors, Internet Service Providers (ISP’s) and community organizations.

### **GOAL:**

The goal is to close the “digital divide” by connecting and expanding existing disparate networks, and to provide adequate network speed and infrastructure reliability/resiliency to underserved & unserved areas of Lancaster County, NE.

### **GRANT AMOUNT:**

The total grant amount available for the program is \$980M. The total amount available to each state is \$5M to \$100M. The grant requires a minimum matching of fund of 30% or more of the total budgeted costs.

### **MMG BUILT-OUT TIMELINE:**

This grant program is a 5-year initiative with required percentages of the build-out to be completed each year of the 5-year duration. The project may be completed in a shorter period if possible.

### **NEXT STEPS:**

Complete the MMG grant application by September 30th. This will require creating local city/county project teams to work with the newly created State Broadband Board, (Tom Rolfes,) and for the grant teams to follow the MMG grant checklist & program application guide to apply for the MMG grant.

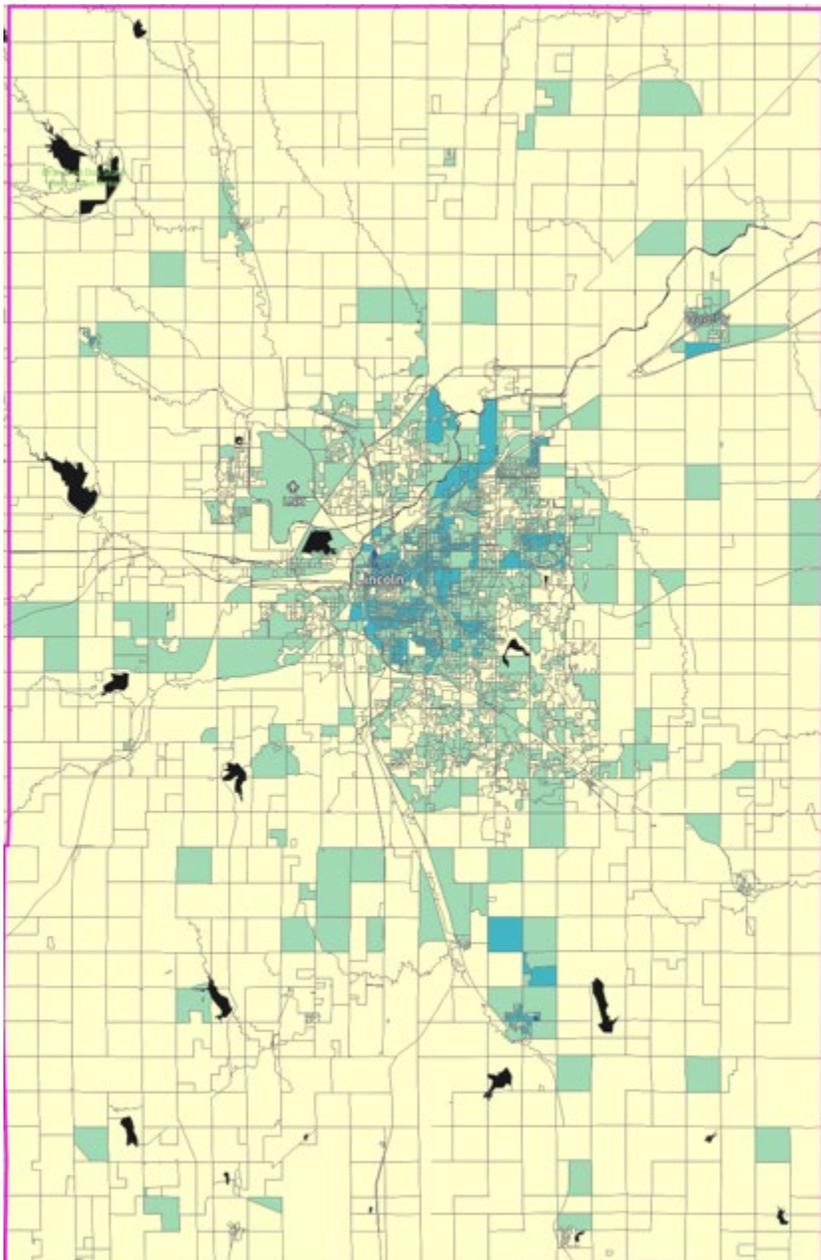
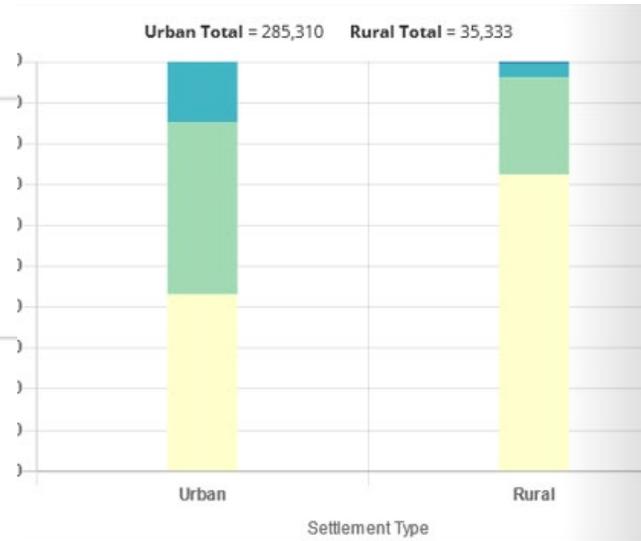
# Lancaster County, NE

## Number of Fixed Residential Broadband Providers



## Broadband

Technology Fiber  
 Speed ≥ 100/10 Mbps  
 Date Dec. 2020 (latest public release)



### REFERENCE LEGEND FOR PAGE 2

#### Middle Miles Per Quadrant (GREEN)

NE = 24.5, NW = 37

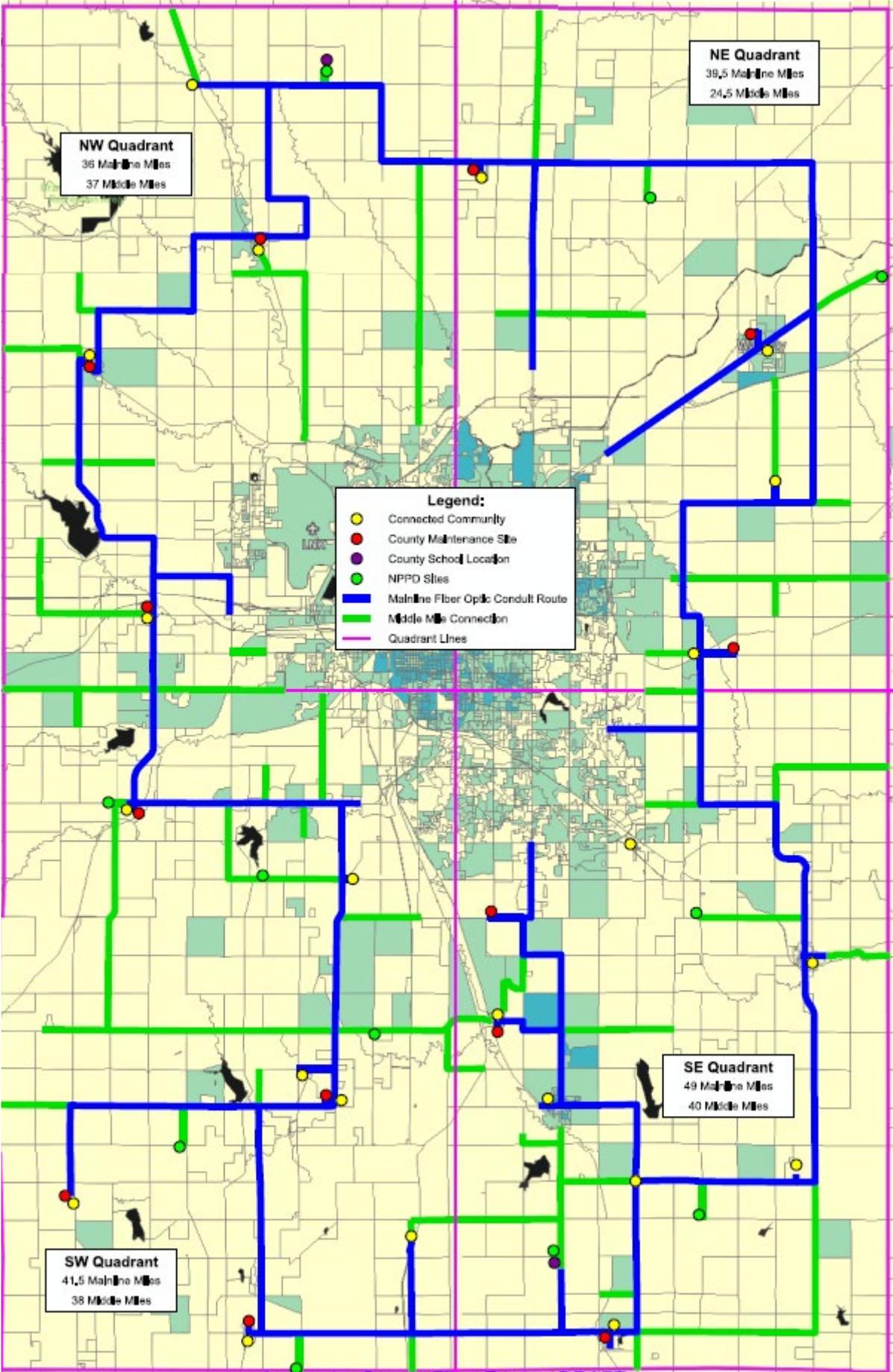
SE = 40, SW = 38

TOTAL MILES 139.5

#### Population Per Quadrant

NE = 8,524, NW = 5,909

SE = 13,449, SW = 7,451



Lancaster County Fiber Route - DRAFT

# POPULATION MAPPING

**NW Quadrant**  
36 Mainline Miles  
37 Middle Miles

**NE Quadrant**  
39.5 Mainline Miles  
24.5 Middle Miles

**Legend:**

- Connected Community
- County Maintenance Site
- County School Location
- NPPD Sites
- Mainline Fiber Optic Conduit Route
- Middle Mile Connection
- Quadrant Lines

**SE Quadrant**  
40 Mainline Miles  
40 Middle Miles

**SW Quadrant**  
41.5 Mainline Miles  
38 Middle Miles

Lancaster County - CONCEPTUAL

Total Middle Mile Project      \$6,502,954  
Amount Request                      \$3,186,447.46  
Matching Funds 51%,                \$3,316,506.54  
Number Years Funding (3YR)      \$2,167,651.33

**Opinion of Probable Project Costs - Lancaster County Middle Mile - Preliminary**

Pay Item	Unit	Cost / Unit	NE Quadrant Build		NW Quadrant Build		SW Quadrant Build		SE Quadrant Build		Totals	
			QTY	Cost	QTY	Cost	QTY	Cost	QTY	Cost	QTY	Cost
Mobilization	LS	8%	1	\$ 63,192	1	\$ 95,384	1	\$ 97,952	1	\$ 103,088	1	\$ 359,616
TTC	LS	7%	1	\$ 55,293	1	\$ 83,461	1	\$ 85,708	1	\$ 90,202	1	\$ 314,664
MLCG (4-pack)	Mi	\$ 29,800	24.5	\$ 730,100	37	\$1,102,600	38	\$1,132,400	40	\$1,192,000	139.5	\$ 4,157,100
T-48	Ea	\$ 2,300	26	\$ 59,800	39	\$ 89,700	40	\$ 92,000	42	\$ 96,600	147	\$ 338,100
<b>Totals</b>				<b>\$ 908,385</b>		<b>\$ 1,371,145</b>		<b>\$ 1,408,060</b>		<b>\$ 1,481,890</b>		<b>\$ 5,169,480</b>
Contingencies (5%)												\$ 258,474
Professional Engineering, Construction Admin./Inspection, GIS												\$ 1,075,000
<b>Project Total</b>												<b>\$ 6,502,954</b>