

City Council Staff Report



Date: 11/2/2022

Applicant: N/A

Prepared By:
Matt Hancock Director
Mapleton City Network

Public Hearing: N/A

Attachment:

REQUEST

Request to award MAPLETON CITY FIBER NETWORK CONSTRUCTION – PHASE II PROJECT for the Mapleton City fiber optic network.

BACKGROUND & DESCRIPTION

On April 28th 2021 Mapleton city passed a revenue bond to construct a fiber optic network throughout the community of Mapleton. This network system will provide high speed Internet access to residents and businesses within Mapleton City. Phase I was completed October 24, 2022.

This contract, Phase II will construct the last mile or in other words, the connection from the backbone fiber nodes to each residential and business property.

TIMELINE OF PHASE II

The work will be substantially complete within 365 days of notice to proceed and procurement of all materials.

PHASE II DELIVERABLES AND COST ESTIMATES

A solicitation for construction of phase II went out on the Utah State purchasing website and the Utah public notice website. This solicitation was posted on August 23 and closed on October 6th. The result of this solicitation is listed below.

Option B Tabulation Micro Trenching	Interwest	Fiber Tel	Americom
Option B: Underground Micro duct and Cabling System **Either Option A or Option B will be selected by the City, not both.**	\$3,921,001.60	\$5,463,560.00	\$3,941,739.20
Cable Installation Within Existing Conduit	\$33,200.00	\$11,500.00	\$21,000.00
Optimus 12123 Pedestal	\$637,399.00	\$936,250.00	\$555,758.00
Fusion Splice	\$137,450.00	\$49,482.00	\$79,446.10
Splice Enclosure	\$626,520.00	\$612,900.00	\$295,159.02
Service Drop Conduit Installation; Residential	\$2,809,760.00	\$2,210,000.00	\$1,728,560.00
Service Drop Conduit Installation; Commercial	\$136,450.00	\$132,500.00	\$107,500.00
Total Estimated Cost	\$8,301,780.60	\$9,416,192.00	\$6,729,162.32
Cost per passed property connection	\$6,918.15	\$7,846.83	\$5,607.64
2021 Feasibility studies from Uptown and other Utah County Cities \$1600-\$2000	\$2,000.00	\$2,000.00	\$2,000.00

Phase II project increased cost per property connection	\$4,918.15	\$5,846.83	\$3,607.64
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Phase II Bid Estimate

Option B

The cost of the Phase II bids came in extremely high. We have decided to rework the deployment plan within the confines of the bid estimates. We plan to lower costs by purchasing materials directly from the vendors and by assigning Mapleton crews do some of the work on the project. This plan will increase connections and decrease the cost of the project significantly. However, this option will only complete 75% of the connections to each property in Mapleton. Additional funds will still be needed to finish the project. Please see the cost sheet below.

Option B Mapleton Provided Micro Duct, Installing Service Drops, Pedestals, and splice cases	Micro Duct and Cable	**Interwest
Option B: Underground Micro duct and Cabling System; City Supplied Micro Duct **Either Option A or Option B will be selected by the City, not both.**	159,520	\$3,276,540.80
Additional Micro duct and cable Installation	120,280	\$2,470,551.20
Total	279,800	\$5,747,092.00

** Lowest bid estimate provided by Interwest Electric Company.

RECOMMENDATION

Three qualified contractors submitted bid estimates for this project. After a thorough review and scoring of each bid estimate, Interwest Electric Company based in Springville, Utah submitted the winning bid. Mapleton City selected bid option B within the confines of the bid estimate. This includes Mapleton city providing some labor and all materials needed to complete the micro trenching and the fiber installation.

Staff recommends, awarding MAPLETON CITY FIBER NETWORK CONSTRUCTION – PHASE II PROJECT to, Interwest Electric Company for the total sum of \$5,747,092 Dollars.