



MEMORANDUM

To: Mayor and City Council

From: Michael Garza, P.E., Assistant Director of Public Works - Engineering
Kent Collins, P.E., Director of Public Works

Date: June 8, 2021

Reference: Contract with NEMA 3 Electric, Inc. for fiber optic cable and conduit installation along Denton Tap Road for the Denton Tap Intersection Improvement Project

2040: Pillar 0: Sustainable City Government
Goal 3: Well-maintained City Infrastructure

General:

- In January 2020, NEMA 3 Electric, Inc. was awarded the City-wide Electrical Services Maintenance and Repair Contract through a competitive RFP process.
- In January 2021, City Council awarded a contract to Rebcon for the Denton Tap Intersection improvement project.
- This contract with NEMA 3 is for the installation of conduit, electrical and fiber associated with the Denton Tap Intersection improvement project in the amount of \$154,546.88.

Introduction:

This agenda item is being presented to consider approval of awarding a contract with NEMA 3 Electric, Inc. for the installation of conduit, electrical and fiber associated with the Denton Tap Intersection Improvement Project, in the amount of \$154,546.88, as provided for from the bond proceeds; and authorizing the City Manager to sign any necessary documents.

Analysis:

The Denton Tap Road Intersection Improvements construction project work began in April with a scope including construction of approximately 4,700 square yards of full-depth pavement for right and left turns lanes, traffic signal improvements, storm sewer inlet relocation, and 1,200 square yards of sidewalk construction. Project locations include the intersections of Denton Tap Road with Southwestern Boulevard, Bethel School Road, Sandy Lake Road, and Parkway Boulevard. A fifth intersection at SH 121 and Denton Tap is under design and will be added. This project also includes the improvements to vehicle detection systems at various intersections throughout the City (27

intersections). As part of this project conduit, electrical and fiber optic cable will need to be relocated, constructed, and installed to accommodate the intersection improvements. Typically, all work related to a project would have been included in the project scope, including fiber and conduit. However, in this case, the City's fiber network not only serves the traffic signals, but also provides connectivity to all city facilities and buildings. As such, the critical nature of this work is elevated.

Historically, the city fiber network has been installed, operated, and maintained by two primary groups: city staff and NEMA 3. Given the critical nature of the fiber network, staff determined that it was worthwhile to deal directly with NEMA 3 on this specific scope. Our electrical and fiber network is a complex system and because NEMA 3 has been the City's electrical contractor for several years they are very familiar with our system and fiber network. From a fiscal perspective, staff compared pricing for these project elements from Rebcon and NEMA 3. Pricing from NEMA 3 was approximately \$50,000 less. The primary risk associated with breaking project elements out like this is related to coordination among contractors, but it is a risk worth taking given the critical nature of the fiber optic network.

Legal Review:

The contract has been reviewed by the City Attorney.

Fiscal Impact:

The fiscal impact of this agenda item is \$154,546.88, as provided through bond proceeds.

Recommendation:

The Public Works Department recommends approval of this contract.