



**TO:** Mayor Shaun Sipma  
Members of the City Council

**FROM:** Stephen Joersz, PE, PTOE, Traffic Engineer

**DATE:** December 2, 2019

**SUBJECT:** 2019 SIGNAL IMPROVEMENTS – EQUIPMENT PROCUREMENT BID (4429)

**I. RECOMMENDED ACTION**

1. Recommend council to award the equipment procurement portion of the 2019 Signal Improvement Project bid to Traffic Control Corporation in the amount \$621,027.00.

**II. DEPARTMENT CONTACT PERSONS**

Lance Meyer, City Engineer	857-4100
Stephen Joersz, Traffic Engineer	857-4100

**III. DESCRIPTION**

A. Background

In 2012, the Engineering Department conducted a Traffic Signal Pole Inspection Report that documented the condition of one-hundred and twelve (112) traffic signal poles throughout the City of Minot. An initial round of traffic signal standard replacements was completed in 2014. The 2019 Signal Improvement project will continue addressing the worse of the worst signal standards.

Additionally, the 2019 Signal Improvement project will replace ten (10) traffic signal cabinets. Most of these locations have cabinets and controllers over twenty (20) years old. Maintenance has become difficult as spare parts are rare and product service has ceased. The new signal cabinets and controllers will be compatible with a future Intelligent Transportation System (ITS).

B. Proposed Project

The 2019 Signal Improvement Project features both traffic signal cabinet and traffic signal standard upgrades at the following locations:

Signal Cabinet Improvement Locations:

- Site 1 - 20th Avenue SW and 4th Street SW
- Site 2 - West Burdick Expressway and 6th Street SW
- Site 3 - West Burdick Expressway and 16th Street SW
- Site 4 - South Broadway and 20th Avenue SW
- Site 5 - West Burdick Expressway and South Broadway
- Site 6 - South Broadway and 2nd Avenue SW
- Site 7 - South Broadway and 22nd Avenue SW
- Site 8 - South Broadway and 27th Avenue SW
- Site 9 - South Broadway and 11th Avenue SW
- Site 10 - 16th Street SW and 37th Avenue SW

Signal Standard Improvement Locations:

Site 1 - 20th Avenue SW and 4th Street SW (All 4 Signals)

Site 2 - West Burdick Expressway and 6th Street SW (All 4 Signals)

Site 3 - West Burdick Expressway and 16th Street SW (West 2 Signals)

C. Consultant Selection

On Tuesday, November 19, 2019 at 11:00 am, bids were opened for the 2019 Equipment Procurement portion of the 2019 Signal Improvement project. Below is a bid tabulation summary that shows the bid comparisons as they relate to the engineer's estimate:

BID TABULATION				
2019 Signal Improvement Project - Equipment Procurement				
City Project # 4429				
Tuesday, 11/19/19, 11:00 AM				
Engineers Estimate: \$ 614,455.00				
Bidder	Bid Bond	Contractor License	Acknowledge Addendum	Total Bid
Traffic Control Corporation	x	NA	NA	\$ 621,027.00

It is recommended that the 2019 Equipment Procurement portion of the 2019 Signal Improvement project be awarded to Traffic Control Corporation with their bid of \$621,027.00, which is 1% over the Engineer's Estimate.

**IV. IMPACT:**

A. Strategic Impact:

Public safety and efficient traffic operations is a priority for the City.

B. Service/Delivery Impact:

A delay in the award of the signal equipment procurement will result in a delay in putting the construction portion of the 2019 Signal Improvement project out for bid.

C. Fiscal Impact:

At the January 22<sup>nd</sup> 2019 City Council meeting, the council approved to allocate the unused 2018 Traffic Signal Pole/Mast Arm Replacement fund and the unused 2018 Traffic Signal Cabinet Replacement fund into the 2019 Traffic Signal Pole/Mast Arm Replacement fund and the 2019 Traffic Signal Cabinet Replacement fund, respectively.

This project will be paid for from the 2019 Traffic Signal Cabinet Fund, the 2019 Signal Pole/Mast Arm Replacement Fund and the 2019 Battery Backup Fund. Each fund has been dedicated per the Capital Improvement Plan.

Project Costs

Equipment Procurement Bid Price	\$ 621,027
Engineering Fees	TBD
<u>Construction Bid Price</u>	<u>Later Date</u>
Total	TBD

<u>Funding Source</u>	
2019 Traffic Signal Cabinet Fund	\$ 540,000
2019 Signal Pole Replacement Fund	\$ 350,000
<u>2019 Battery Backup</u>	<u>\$ 10,400</u>
Total	\$ 900,400

**V. ALTERNATIVES**

Alt 1. The City Council could choose not to award the signal equipment procurement bid. This result in a delay in advertising the construction portion of the 2019 Signal Improvement project.

**VI. TIME CONSTRAINTS**

Approving the procurement bid in a timely manner will allow the Engineering Department to continue with the 2019 Signal Improvement Project and prepare the next set of documents to get the construction portion of the project advertised for bid.

**VII. LIST OF ATTACHMENTS**

N/A