

AGENDA ITEM NO: 7.1

MEETING DATE: February 21, 2023

STAFF REPORT – COVER SHEET

SUBJECT: LED Street Lighting Retrofit Project - Phase 2 Tender Award DATE: February 7, 2023

DEPARTMENT: Engineering PREPARED BY: D. Mossey

1. SUMMARY OF ISSUE:

Two (2) tenders were received for Tender No. 2023-01, LED Street Lighting Retrofit Project - Phase 2. The work includes the supply of all labour and equipment to retrofit approximately 2,500 existing street lights with light emitting diode (LED) street light fixtures and provide data collection for existing davit style cobra head fixtures south of the Trans-Canada Highway. See Table A for details.

A decision to award the tender to the low bidder is required.

2. RECOMMENDATION:


Recommendation that Council award the tender for the 2023-01 LED Street Lighting Retrofit Project – Phase 2 to Crown Contracting Limited in the amount of \$128,490.00 (plus applicable taxes) and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.



Kara Jefford, Director of Engineering

3. FINANCE COMMENTS:


Funding for this initiative has been allocated within the approved 2023 Financial Plan.



Glen Savard, Director of Finance

4. CHIEF ADMINISTRATIVE OFFICER'S RECOMMENDATION/COMMENTS:

Supports recommendation.



Chris Crosman, CAO

**STAFF REPORT ON
LED Street Lighting Retrofit Project – Phase 2 Tender Award**

PREPARED BY: Dwayne Spies DATE: February 7, 2023
POSITION: Senior Roads Technician DEPARTMENT: Engineering

1. DEFINITION OF ISSUE:

Two (2) tenders were received for Tender NO. 2023-01, LED Street Lighting Retrofit Project - Phase 2. The work includes the supply of all labour and equipment to retrofit approximately 2,500 existing street lights with light emitting diode (LED) street lights and provide data collection for existing davit style cobra head fixtures south of the Trans-Canada Highway. See Table A for details.

TABLE A

Tenderer	Tender Price (plus applicable taxes)
Crown Contracting Limited	\$128,490.00
Fraser City Installations (1989)Ltd.	\$ 246,588.00

A decision to award the tender to the low bidder is required.

2. BACKGROUND:

- 2.1 Light emitting diodes (LED) fixtures are a source of highly efficient and environmentally friendly light fixtures. These fixtures reduce energy and maintenance costs, provide more direct lighting with less light pollution and improve visibility to the street and sidewalks at night.
- 2.2 LED fixtures typically last up to 20 years, which is five times the length of traditional street lights. These fixtures also consume 50-70% less energy and cost 50-75% less to maintain than traditional HPS (high pressure sodium) fixtures.
- 2.3 In February 2021, Council approved the purchase of the new LED street lighting fixtures through the BC Provincial Government Corporate Supply Agreement process. This tender is for the installation of these same LED fixtures purchased by the City as well as infrastructure data collection through the Arc GIS collector app.
- 2.4 Phase 1 saw the retrofit of approximately 1,200 davit cobra head style HPS street lights, primarily on City of Chilliwack roadways north of the Trans-Canada Highway and three City-owned public parking lots in the downtown area.
- 2.5 This second phase will concentrate on cobra head retrofits south of the Trans-Canada Highway as well as all signalized intersections throughout Chilliwack and, subject to funding availability, will retrofit custom themed fixtures specific to certain neighbourhoods.

2.6 Substantial completion is expected by September 29, 2023.

3. FACTORS:

3.1 The contractor will coordinate directly with the City-selected supplier to receive the delivery, provide storage and inspect the fixtures on the City's behalf.

3.2 The work will not affect power supply to adjacent properties and will not create excessive noise or disturbances.

3.3 GPS data collection will be provided to the City for all newly-retrofitted LED davit streetlight fixtures as well as existing LED davit streetlight fixtures. Data collection will include luminaire details, date of installation, pole condition, appurtenances and GPS location.

4. RECOMMENDATION & SUBSTANTIATION:

Recommendation:

Recommendation that Council award the tender for the 2023-01 LED Street Lighting Retrofit Project – Phase 2 to Crown Contracting Limited in the amount of \$128,490.00 (plus applicable taxes) and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.

Substantiation:

Crown Construction Limited successfully completed Phase 1 of this mass retrofit project for Chilliwack, as well as for various municipalities and the BC Ministry of Transportation and Infrastructure, and are highly recommended.