

AGENDA ITEM NO: 7.1

MEETING DATE: February 6, 2024

**STAFF REPORT – COVER SHEET**

SUBJECT: 2024 Chilliwack Airport Runway DATE: January 29, 2024  
Scope Change

DEPARTMENT: Engineering PREPARED BY: Doug Mossey

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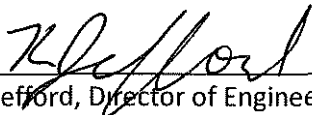
**1. SUMMARY OF ISSUE:**

During the detailed design for the 2023 Chilliwack Airport Runway Extension Project, it was concluded that the pre-design report and the estimate for the project grant application for the airport runway extension and lighting upgrade did not include all necessary scope and costs for the project. As such, the Class "A" estimate provided by Stantec Engineering at the detailed design stage significantly exceeds the project budget. The City reached out to the Ministry of Transportation, who provided grant funding, to determine if they would support a reduced scope. It was determined that the available budget will support electrical upgrades including runway and taxiway lighting. The runway expansion project will be deferred and considered during future budget review and grant programs

A decision is required to authorize staff to proceed based on the revised scope and issue the tender for the Chilliwack Airport Electrical Upgrades project for construction in 2024.

**2. RECOMMENDATION:**

Recommendation that Council authorize staff to proceed with the tender for the revised scope for the Chilliwack Airport Project; and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.

  
K. Jefford, Director of Engineering

**3. FINANCE COMMENTS:**

Funding is allocated within the 2024 Financial Plan for this project.

  
Glen Savard, Director of Finance

**4. CHIEF ADMINISTRATIVE OFFICER'S RECOMMENDATION/COMMENTS:**

Supports recommendation.

  
David Blain, CAO

**STAFF REPORT ON  
2023 CHILLIWACK AIRPORT RUNWAY SCOPE CHANGE**

PREPARED BY:	<u>                    D. Mossey                    </u>	DATE:	<u>                    February 6, 2024                    </u>
POSITION:	<u>                    Manager – Transportation &amp;   Drainage                    </u>	DEPARTMENT:	<u>                    Engineering                    </u>

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**1. DEFINITION OF ISSUE:**

During the detailed design for the 2023 Chilliwack Airport Runway Extension Project, it was concluded that the pre-design report and the Engineer’s estimate for the project grant application for the airport runway extension and lighting upgrade did not include all necessary scope and costs for the project. As such, the Class “A” estimate provided by Stantec Engineering at the detailed design stage significantly exceeds the project budget. The City reached out to the Ministry of Transportation, who provided grant funding, to determine if they would support a reduced scope. It was determined that the available budget will support electrical upgrades. The runway expansion project will be deferred and considered during future budget review and grant programs. Staff have worked with the Ministry of Transportation to approve the reduced scope to utilize the BC Air Access Program grant for electrical upgrades only.

A decision is required to authorize staff to proceed based on the revised scope and issue the tender for the Chilliwack Airport Electrical Upgrades project for construction in 2024.

**2. BACKGROUND:**

- 2.1 Magnum Management Inc. (Chilliwack Airport operator) hired SNC Lavalin to complete a feasibility study/preliminary design for the Airport runway extension in July 2018. They were hired again in November 2020 to complete an update to their study to comply with new Transport Canada regulations.
- 2.2 An updated Class ‘B’ Engineer’s cost estimate based on the feasibility study/preliminary design was required for the BC Air Access Program Provincial Grant application. SNC Lavalin provided this to Magnum Management in December 2022.
- 2.3 The BC Air Access Program grant was approved for up to \$1,925,500 in 2023.
- 2.4 The Chilliwack Airport Runway Extension Engineering Design was awarded to Stantec at the August 1, 2023 Council meeting.
- 2.5 After Stantec completed further geotechnical investigations, survey and detailed design, they provided the City with a Class ‘A’ Engineer’s cost estimate. This estimate came in at approximately \$7,000,000 which is \$5,000,000 over the project budget.
- 2.6 The SNC Lavalin estimate was deficient in several areas including the cost of preloading requirements for the east runway extension and additional drainage works. The primary

reason that SNC Lavalin’s construction cost estimate was exceedingly low was due to the fact that it did not include labour and installation costs. Unfortunately, this detail was not included in their Class “B” cost estimate submission which was used for budgeting.

2.7 A revised scope for electrical and lighting upgrades for the runway was developed to fit within the grant amount and has been accepted by the Ministry of Transportation. The lighting upgrades are critical, as the existing system has reached the point where it is not possible to source replacement parts. These works allow for expansion when the runway extension project proceeds at a future date. Below is a list of electrical upgrades that can proceed within the grant funds available:

- Airfield runway lighting
- Airfield taxiway lighting
- Airfield visual aids
- Airfield cabling/conduits
- Electrical accessories.

2.8 Tender drawings and documents have been prepared for the Chilliwack Airport Runway Electrical Upgrades project for release later this month.

2.9 Additional grant funding will be pursued for the runway extension as a subsequent phase of the project.

### 3. RECOMMENDATION & SUBSTANTIATION:

Recommendation:

Recommendation that Council authorize staff to proceed with the tender for the revised scope for the Chilliwack Airport Project; and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.

Substantiation:

The Chilliwack Airport Runway Electrical Upgrades project will provide operational improvements and enhanced safety at the airport.