

# Report to Council



**Date:** January 11, 2021  
**To:** Council  
**From:** City Manager  
**Subject:** ICIP-CVRIS - Adaptation, Resilience & Disaster Mitigation Program  
Grant Application - Brandt's Creek Crossing at Ellis  
**Department:** Infrastructure Engineering

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## **Recommendation:**

THAT Council receives for information, the report from the Infrastructure Engineering Department dated January 11, 2021, with respect to the Investing in Canada Infrastructure Program (ICIP) – COVID 19 Resilience Infrastructure Stream (CVRIS) - Adaptation, Resilience & Disaster Mitigation (ARDM) Program – Brandt's Creek Crossing at Ellis;

AND THAT Council authorizes staff to apply for an ICIP-CVRIS-ARDM grant as outlined in this report;

AND THAT Council authorizes the Mayor and City Clerk to execute the ICIP-CVRIS-ARDM grant, if the application is successful;

AND FURTHER THAT the 2021 Financial Plan be amended to include the grant for Brandt's Creek Crossing at Ellis project, if the application is successful.

## **Purpose:**

To consider staff's recommendation to apply for an Investing in Canada Infrastructure Program – COVID 19 Resilience Infrastructure Stream - Adaptation, Resilience & Disaster Mitigation Program Grant.

## **Background:**

Brandt's Creek flows under Ellis Street through a culvert crossing some 700 meters east of Okanagan Lake. The culvert is undersized and prone to flood damage when Brandt's Creek floods. The 1 in 100-year storm hydrology has increased substantially over the last number of years, where we are seeing climate change increase flood flow peaks and increase sediment/debris movement and deposition from the upper watershed that includes most of the Glenmore communities and areas north. The Ellis Street creek crossing is also part of a restrictive section of creek that prevents fish passage during normal flow conditions due to its lack of light, imperfect flow conditions and lack of suitable riparian protection. The new culvert crossing will be broader, higher and better protected to allow for more capacity, resist blockage from debris, and improve conditions for fish passage and new spawning opportunities

upstream. The grant application includes an upgrade component within the project footprint to re-construct impacted utilities passing under the culvert. This aligns well with the ultimate replacement of the old transmission mainline along Ellis slated for upgrade to a higher capacity mainline from Poplar Point to the downtown core. This work is consistent with growth and renewal needs identified in the upcoming 20 Year Servicing Plan.

This application is supported by an advanced preliminary design of a flood diversion alternative being considered for the Mill Creek Flood Protection Project and is in final planning stages for construction. The Ellis Street Crossing Project currently has no other grant money applied to it.

A key outcome of the CVRIS grant program is to demonstrate a boost to the local economy to offset employment concerns and lost revenue from the COVID19 crisis. In addition, the project must be constructed in the 2021 calendar year. This will require an efficient open bid and delivery process including a comprehensive construction and stakeholder communication plan.

As part of the application, the City has included recent relevant work into the application:

- Culvert Condition Inspections and Structural Assessments (2018 and 2019) by Associated Engineering.
- Brandt's Creek Crossing at Ellis Street Culvert Replacement - Design Criteria providing a preliminary design and costing information for the culvert replacement and utility upgrades.

All work will be done with a high sensitivity to fisheries impacts with appropriate mitigation conducted at all times. This will be done by qualified professionals hired as part of the project.

As part of the application process, a Council resolution is required indicating support for the current proposed activities and willingness to provide overall grant management.

**Internal Circulation:**

Divisional Director, Infrastructure  
Financial Planning Manager  
Grants & Special Projects Manager  
Infrastructure Engineering Manager

**Financial/Budgetary Considerations:**

The City is requesting up to a \$2,000,000 grant from the ICIP-CVRIS-Adaptation, Resilience & Disaster Mitigation Program stream, which the City can apply for in addition to a second ICIP-CVRIS grant application for COVID-19 recovery. This funding stream can contribute a maximum of 100% of the cost of eligible activities. If the application is successful, the City would immediately complete the final design of the structure and prepare to tender the project and immediately look for environmental approvals.

**Considerations not applicable to this report:**

Alternate Recommendation:  
Communications Comments:  
Existing Policy:  
External Agency/Public Comments:  
Legal/Statutory Authority:  
Legal/Statutory Procedural Requirements:

Personnel Implications:

Submitted by:

Rod MacLean, P.Eng. Utilities Planning Manager

**Approved for inclusion:**

A square box containing a handwritten signature in black ink, which appears to be 'A. Newcombe'.

A. Newcombe, Infrastructure Divisional Director

cc: Divisional Director, Corporate Strategic Services  
Divisional Director, Financial Services  
Divisional Director, Infrastructure  
Financial Planning Manager  
Grants & Special Projects Manager  
Infrastructure Engineering Manager