

## For Information Only

### Paris Street Bridge Emergency Repairs

Presented To:	City Council
Presented:	Tuesday, Jan 27, 2015
Report Date	Friday, Jan 16, 2015
Type:	Correspondence for Information Only

### Recommendation

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### Finance Implications

The cost for this construction work will be funded from the Various Bridge Repairs account in the approved 2014 Capital Budget.

## Introduction:

This report has been prepared to fulfill the requirements of the City's Purchasing By-law 2006-270 which states "a report to Council shall be made by the General Manager or the Agent in all circumstances where the Emergency purchase exceeds \$35,000." The bylaw defines emergency as a situation which may affect the safety, health and/or welfare of the public. This report outlines the emergency work undertaken by CGS staff, the Structural Engineer, and the Contractor on the Paris Street Bridge commencing in July 2014.

## Background:

In July of 2014, City staff identified an unusual condition on the Paris Street Bridge near the north expansion joint of the southbound lanes. Staff observed a small hole in the asphalt through to the concrete deck below, a viscous 'cement like' material around the surface of the hole, and concrete spalling on the underside of the deck in the area of the hole. Staff immediately retained a Structural Engineer, Exp Services Inc., to attend the site to inspect and provide any necessary recommendations for remedial work.

The Structural Engineer indicated that there was no immediate threat to public safety and recommended that the investigation and remedial work be completed at the same time. The investigation work would include the removal of the asphalt pavement and waterproofing membrane from the area to allow for examination of the concrete deck, and to determine the nature and extent of any defects. Due to the importance of the bridge, the traffic volume and increased road maintenance issues, the recommended work

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was expedited. The Structural Engineer prepared a Request for Quotation document that had an estimate for quantities to remove and replace the asphalt pavement, waterproofing and deficient concrete. Final payment to the Contractor was based on actual quantities as the extent of the problem area could not be defined until the concrete was properly exposed.

The Request for Quotation was sent to three contractors with experience in bridge construction and the contractors were required to submit bids in a short timeframe. The successful respondent, R.M. Belanger Construction Ltd., commenced work on the bridge on August 6, 2014.

After removal of the asphalt and waterproofing membrane, an area of deteriorated concrete deck was observed. The deteriorated areas of the concrete deck were repaired and the waterproofing and asphalt were replaced.

All northbound lanes and one southbound lane were kept open on the bridge while the repair work was in progress. This required the work to be completed in two phases as the work was completed one lane at a time. Both southbound lanes were reopened to traffic on September 10, 2014.

The final cost for the Contractor's work is \$91,337.50 + HST. This payment will be funded from the Various Bridge Repairs Capital Account.