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**Date:** May 8, 2017  
**To:** Mayor and Council  
**Author:** Kevin Girard, Manager of Municipal Services  
**RE:** Contract MS17-102-01: Bridge #28 over Wigle Creek  
**Report No.:** MS 2017-20

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## **AIM**

This report is presented to obtain Council's authorization to award the contract for the rehabilitation of Bridge #28 on Road 2W over Wigle Creek.

## **BACKGROUND**

As part of the approved 2017 Capital Budget schedule and the 2014 Bridge and Culvert Needs study conducted by Dillon Consulting, Municipal Services has outlined Bridge #28 for rehabilitation.

Dillon Consulting was retained by the Town in April 2016 for Professional Engineering Services for the condition assessment and detailed design for the rehabilitation of Bridge #28.

## **DISCUSSION**

The 10.57m single-span rigid frame arch bridge was originally constructed in 1961 and carries two lanes of traffic over the Wigle Creek. The 56 year old structure is located approximately 3.0km west of Division Road and has an AADT of approximately 1,100 vehicles, of which approximately 6% is truck traffic. There have been no major rehabilitations completed since the original construction of this structure.

The following will be completed as part of the proposed contract completed by Dillon Consulting:

- Fully close bridge to road traffic;
- Remove existing tar and chip wearing surface over deck and approaches;
- Remove granular road base to expose concrete deck;

- Remove deteriorated concrete barrier system;
- Remove deck drains;
- Scarify concrete deck surface;
- Remove and repair deteriorated concrete from deck in phased manner to maintain structural integrity of bridge;
- Remove and repair deteriorated concrete from soffit, fascia, wingwalls and abutment walls as required;
- Place new variable depth reinforced concrete deck overlay;
- Install new PL-1 concrete parapet wall with two tube railing;
- Install deck waterproofing and reinstate tar& chip surface;
- Install new guide rails with end treatments;
- Install new curb and gutter with erosion protected spillways or catch basins; and
- Install embankment stabilization and erosion protection.

## LINK TO STRATEGIC PLAN

Provide safe, adequate and affordable municipal services and infrastructure.

## FINANCIAL CONSIDERATIONS

Using the Town's electronic tendering system, the following results (not including HST) were received for the MS17-102-01 contract:

<b>1. Intrepid General Limited</b>	<b>\$492,122.40</b>
2. SLR Contracting Group Inc.	\$521,935.00
3. Carlington Construction Inc.	\$612,635.00
4. Facca Incorporated	\$804,960.00

Since the Town has only entered into an agreement with Dillon Consulting for the detailed design and condition assessment of Bridge #28, the Town will be required to enter into a second agreement for contract administration and site inspection with Dillon. Attached is the proposal from Dillon for these services in the amount of \$47,400 (not including HST).

In addition, Dillon Consulting completed the balance of the design services in 2017 and incurred costs in the amount of \$19,920 (not including HST).

Should Council agree to authorize the lowest bidder, Intrepid General Limited, the cost that will be reflected on the approved capital budget would be as follows:

Construction Costs	\$492,122.40
Balance of Design Cost	\$19,920.00
<u>Engineering Inspection and Administration</u>	<u>\$47,400.00</u>
Total	\$559,442.40
<u>HST Burden</u>	<u>\$9,846.19</u>
<b>Total Impact on 2017 Budget</b>	<b>\$569,288.59</b>

Therefore, the project would be \$130,711.41 under budget from the \$700,000 initially set out in the approved capital budget schedule. It should also be noted that the Contract Cost from Intrepid General includes a contingency allowance of \$50,000.

## CONSULTATIONS

Dillon Consulting  
Municipal Services

## RECOMMENDATION

That Council receives the letter of recommendation from Dillon Consulting and authorizes the award of Contract Number MS17-102-01 for the rehabilitation of Bridge #28 over the Wigle Creek to Intrepid General Limited in the amount of \$492,122.40 (not including HST). Also, that Council approves Municipal Services to enter into an agreement for the contract administration and site inspection with Dillon Consulting in the amount of \$47,400 (not including HST).

Respectfully submitted,

*Kevin J. Girard*

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