
Subject: Award of Contract 2020-T-59 Reconstruction of Regional Road 71
(St. David's Road)

Report to: Public Works Committee

Report date: Tuesday, July 14, 2020

Recommendations

1. That Contract 2020-T-59 – Reconstruction of Regional Road 71 (St. David's Road) From Highway 406 ramps to Regional Road 56 (Burleigh Hill Drive/Collier Road), in the City of St. Catharines and the City of Thorold, **BE AWARDED** to Beam-Rankin Joint Venture Limited, at their bid price of \$9,451,597 (including 13% HST);
2. That a gross capital budget adjustment in the amount of \$3,290,153 gross and \$0 net **BE APPROVED** (and **INITIATED**) for the Reconstruction of Regional Road 71 (St. David's Road), and that the gross capital budget adjustment **BE FUNDED** from cost sharing agreements with both the City of St. Catharines (\$2,115,852) and City of Thorold (\$1,174,301).

Key Facts

- The purpose of this report is to seek Council's approval to award Contract 2020-T-59 for the Reconstruction of Regional Road 71 (St. David's Road) From Highway 406 ramps to Regional Road 56 (Burleigh Hill Drive/Collier Road) to Beam-Rankin Joint Venture Limited.
- The Purchasing By-law 2016-02 requires that Council approve tender awards greater than \$5,000,000.
- Per the Budget Control By-Law, Council approval is required if a gross budget adjustment being requested is greater than \$1,000,000.
- The project is being undertaken as a result of a Municipal Class Environmental Assessment completed in 2018, and has been identified as a supporting project for the 2021 Canada Summer Games.
- A public tender process was initiated and three bids were received with the lowest bid being \$8,364,245 (excluding taxes) from Beam-Rankin Joint Venture Limited.

- The City of St. Catharines and the City of Thorold are cost sharing partners in this project and have a total contribution of \$3,565,153 with respective contributions of \$2,390,852 for the City of St. Catharines and \$1,174,301 for the City of Thorold related to the construction of storm sewers, sanitary sewers, watermains, and sidewalks.
- Together with a prior approved cost share budget of \$275,000 for the City of St. Catharines, a gross budget adjustment of \$3,290,153 is required to cover the total cost sharing contribution for the City of St. Catharines and the City of Thorold.

Financial Considerations

In 2015, Council approved a budget for 20000319 (St. David's Road East Reconstruction) of \$1,766,000 to complete the environmental assessment, detailed design, property acquisition, and utility relocations. In 2019 Council further approved an additional \$5,168,000 for construction, contract administration and inspection, construction testing, and the City of St. Catharines cost share of \$275,000 increasing the overall project budget for 20000319 to \$6,934,000. Council also previously approved a budget for 20000982 (St. David's Road Watermain Replacement) of \$2,140,000 for the design and construction of a trunk watermain replacement. Therefore, the combined overall budget for the two projects is \$9,074,000.

The City of St. Catharines and the City of Thorold are cost sharing partners in this project and have a total cost sharing contribution of \$3,565,153 (including 1.76% non-recoverable HST) with respective contributions of \$2,390,852 for the City of St. Catharines and \$1,174,301 for the City of Thorold. Together with a prior approved cost share budget of \$275,000 for the City of St. Catharines a gross budget adjustment of \$3,290,153 is required to add up to the total cost sharing contribution for the City of St Catharines and City of Thorold. Through the life of the project, the scope of work undertaken on behalf of the City of St. Catharines and the City of Thorold was further refined to include system improvements, underground servicing, and future development servicing.

A return of funds to the Capital Variance – Levy Project of \$816,416 will result in a net overall combined project budget increase from \$9,074,000 to \$11,547,737.

A full budget breakdown can be found in Appendix 3 Total Estimated Project Cost.

Analysis

- In 2017, Niagara Region initiated a Schedule B Municipal Class Environmental Assessment for the Regional Road 71 (St. David's Road) reconstruction.
- The Municipal Class Environmental Assessment Study for St. David's Road was completed, and the Project Report filed, in June 2018, recommending improvements to address existing road conditions and intersection safety, and to implement active transportation facilities.
- This project is a supporting project for the 2021 Canada Summer Games, and is targeted to be completed prior to the start of the Games.
- Water and Wastewater Services identified the need to replace the existing Zone 2 Standpipe feedermain as part of this project.
- The original scope of work identified by Water and Wastewater Services was for the replacement of the existing aged Zone 2 transmission watermain from Marmac Drive to the Zone 2 Standpipe. During the course of the project additional system improvements were identified and incorporated in the project. These system improvements included; a new feedermain for the Zone 2 standpipe; new drain line for the Zone 2 Standpipe; additional valve chambers; and upgrades to existing valve chambers on St. David's Road and at the Zone 2 Standpipe. These improvements will increase operational efficiency, remove bottle necks for improved efficient service, and will significantly reduce the likelihood of water main breaks.
- The original cost sharing with the City of St. Catharines was for the replacement of sidewalks in the project area. However, the City of St. Catharines and the City of Thorold identified additional improvements to their local infrastructure namely watermain replacement and sanitary sewer replacements, and in addition, servicing of future developments was identified by the City of Thorold.
- Formal cost sharing agreements with the City of St. Catharines and the City of Thorold have been agreed to and include the estimated cost share amounts and payment schedules.
- The proposed improvements for St. David's Road include a two lane urban cross section with a multi-use path on the south side, and sidewalks on the north side.
- Niagara Region retained CIMA+, through a competitive procurement process, to undertake the detailed design for the project through a competitive process under 2018-RFP-37.

- A public tender process was initiated on April 9, 2020, to obtain tenders for the Reconstruction of Regional Road 71 (St. David's Road) From Highway 406 ramps to Regional Road 56 (Burleigh Hill Drive/Collier Road). Niagara Region received three electronic bids on May 12, 2020.
- Niagara Region's Procurement & Strategic Acquisitions reviewed the bids received for compliance, and determined that all bids were compliant.
- CIMA+ reviewed the bids received, and has provided a recommendation to award Tender 2020-T-59 to Beam-Rankin Joint Venture Limited at their bid price \$8,364,245 (excluding HST) as noted in Appendix 2.
- Contract award requires resources from Corporate Services in order to execute the required contract documents. Transportation Engineering staff will be providing resources throughout the project in order to manage the contract with assistance from Corporate Services on contract/project payments.

Alternatives Reviewed

A Municipal Class Environmental Assessment Study (EA) for St. David's Road was completed, and the Environmental Study Report filed, on July 6, 2018, recommending improvements to address existing road conditions and intersection safety, and to implement active transportation facilities.

Four alternative solutions were reviewed as part of the EA:

1. Do nothing;
2. Roadway Surface Improvements;
3. Roadway Reconstruction with Operational Improvements; and
4. Roadway Reconstruction with Operational Improvements and Active Transportation Facilities.

The preferred alternative for St. David's Road was "Roadway Reconstruction with Operational Improvements and Active Transportation Facilities."

In addition to the alternative solutions, three alternatives were reviewed as a subset to address active transportation facilities:

1. Multi-use path on the south side of St. David's Road through the entire study area;

2. Bicycle lanes and sidewalks on both sides of the road from Tupper Drive/Barbican Gate to Collier Road/Burleigh Hill Drive; and
3. Cycle track and sidewalks on both sides of St. David's Road through the entire study area.

The preferred alternative for active transportation facilities was a Multi-use path on the south side of St. David's Road through the entire study area.

As part of the EA process, two Public information Centres were held. The first session occurred on March 22, 2017, and the second was held on April 5, 2018. In addition to the Public Information Centres a presentation to the Region's Active Transportation Sub-Committee (ATSC) was made on March 29, 2017.

Relationship to Council Strategic Priorities

This recommendation relates to the Responsible Growth and Infrastructure Planning strategic priority since the planned upgrades will ensure reliable and effective transportation modes including an inter-connection of various types of transportation.

Other Pertinent Reports

PW 54-2015 - Transfer of Road Jurisdiction in the City of St. Catharines and City of Thorold

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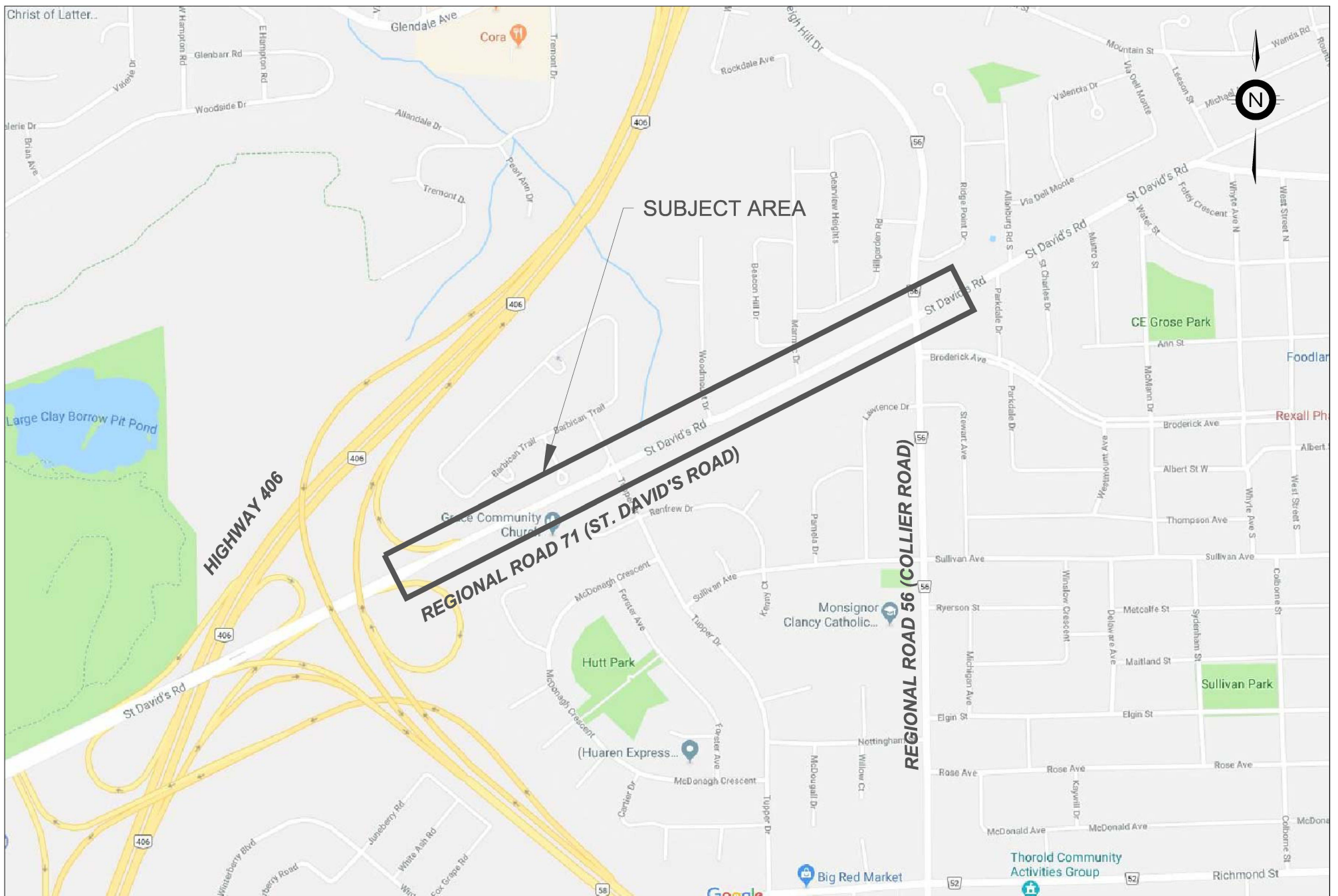
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This report was prepared in consultation with Frank Tassone, Associate Director Transportation Engineering, Tracie Byrne, Manager Purchasing Services, Dan Ane Manager, Program Financial Support, and reviewed by Carolyn Ryall, Director Transportation Services.

Appendices

Appendix 1	Key Plan
Appendix 2	Summary of Bids Received
Appendix 3	Total Estimated Project Cost



PW 25-2020 APPENDIX 2
Summary of Bids Received
Contract Award
Reconstruction of Regional Road 71 (St. David's Road) From
Highway 406 ramps to Regional Road 56 (Burleigh Hill
Drive/Collier Road) In the City of St. Catharines and the City of

Bidder	Tender Price (Excluding HST)
Beam-Rankin Joint Venture Limited	\$ 8,364,245
Peters Excavating Inc.	\$ 8,470,000
New-Alliance Ltd	\$ 10,333,414

PW 25-2020 APPENDIX 3
Total Estimated Project Cost
Contract Award

Reconstruction of Regional Road 71 (St. David's Road) From Highway 406 ramps to Regional Road 56 (Burleigh Hill Drive/Collier Road) In the City of St. Catharines and the City of Thorold

	Council Approved Budget	Budget Increase/ Reallocation	Revised Council Approved Budget	Expended & Committed as of 05/01/20	Forecast	Budget Remaining
	(A)	(B)	(C) = (A) + (B)	(D)	(E)	(F) = (C)-(D)- (E)
<u>Total Estimated Project Cost (20000319)*</u>						
(a) Planning	1,500,000	(1,500,000)	-	-	-	-
(b) Construction (including Construction Contingency and 1.76% non-refundable HST)**						
i. Niagara Region	5,159,000	(1,130,582)	4,028,418	-	3,459,490	568,928
ii. Cost Sharing - City of St. Catharines	275,000	1,898,502	2,173,502	-	2,173,502	-
iii. Cost Sharing - City of Thorold		1,078,288	1,078,288	-	1,078,288	-
(c) Project Contingency		500,000	500,000	-	500,000	-
(d) Consulting Engineering Services						
i. Environmental Assessment		148,362	148,362	148,362	-	-
ii. Detailed Design						
1. Niagara Region		452,195	452,195	204,707		247,488
2. Cost Sharing - City of St. Catharines		114,190	114,190	-	114,190	-
3. Cost Sharing - City of Thorold		50,442	50,442	-	50,442	-
iii. Contract Administration & Inspection						
1. Niagara Region		224,463	224,463	-	224,463	-
2. Cost Sharing - City of St. Catharines		85,022	85,022	-	85,022	-
3. Cost Sharing - City of Thorold		37,558	37,558	-	37,558	-
iv. Geotechnical Service-Quality Control						
1. Niagara Region		47,888	47,888	-	47,888	-
2. Cost Sharing - City of St. Catharines		18,138	18,138	-	18,138	-
3. Cost Sharing - City of Thorold		8,013	8,013	-	8,013	-
(e) Project Management (In-House) and Operations		186,000	186,000	-	186,000	-
(f) Traffic Signals and Signs		203,520	203,520	-	203,520	-
(g) Utility Relocation		868,154	868,154	318,154	550,000	-
Total Estimated Project Costs (20000319)	6,934,000	3,290,153	10,224,153	671,223	8,736,514	816,416
<u>Total Estimated Project Cost (20000982)*</u>						
(a) Construction (including Construction Contingency and 1.76% non-refundable HST)**	1,755,000	45,176	1,800,176	-	1,800,176	-
(b) Project Contingency	217,375	(117,375)	100,000	-	100,000	-
(c) Consulting Engineering Services						
i. Detailed Design	110,000	(14,277)	95,723	-	95,723	-
ii. Contract Administration & Inspection		71,272	71,272	-	71,272	-
iii. Geotechnical Service-Quality Control		15,205	15,205	-	15,205	-
(d) Project Management (In-House) and Operations	57,625		57,625	10,025	47,600	-
Total Estimated Project Costs (20000982)	2,140,000	0	2,140,000	10,025	2,129,975	-
Total Estimated Project Costs Combined	9,074,000	3,290,153	12,364,153	681,248	10,866,489	816,416
<u>Project Funding Sources (20000319)</u>						
Capital Levy	(6,659,000)		(6,659,000)		(6,659,000)	-
Municipal Cost Sharing - St. Catharines	(275,000)	(2,115,852)	(2,390,852)		(2,390,852)	-
Municipal Cost Sharing - Thorold		(1,174,301)	(1,174,301)		(1,174,301)	-
Total Estimated Project Funding Sources (20000319)	(6,934,000)	(3,290,153)	(10,224,153)	-	(10,224,153)	-
<u>Project Funding Sources (20000982)</u>						
Water Reserve	(1,240,000)		(1,240,000)		(1,240,000)	-
Debt Funding	(900,000)		(900,000)		(900,000)	-
Total Estimated Project Funding Sources (20000982)	(2,140,000)	-	(2,140,000)	-	(2,140,000)	-
Total Estimated Project Funding Sources Combined	(9,074,000)	(3,290,153)	(12,364,153)	-	(12,364,153)	-

*All costs include 1.76% non-refundable HST.

** Total Contract Cost includes both Regional and Municipal cost sharing amounts.

** Total Contract Award is equal to i) \$8,364,245 before tax; ii) \$8,511,456 including 1.76% non-refundable HST; \$9,451,597 including 13% HST.