

MUNICIPALITY OF CHATHAM-KENT
INFRASTRUCTURE AND ENGINEERING SERVICES
ENGINEERING AND TRANSPORTATION DIVISION

TO: Mayor and Members of Council

FROM: Stephen E. Jahns, P.Eng., CMMIII
Manager, Infrastructure and Transportation
Engineering and Transportation Division

DATE: August 22, 2008

SUBJECT: Tender Award: Contract T08-137
Rehabilitation of Queens Line Bridge over Government Drain 1
Community of Tilbury East, Municipality of Chatham-Kent

RECOMMENDATIONS

It is recommended that:

1. The tender in the amount of \$ 200,504.35 (\$ 190,956.52 plus 5% GST) for the work associated with Contract T08-137 Rehabilitation of Queens Line Bridge over Government Drain 1 be awarded to Ben Bruinsma & Sons Limited of Chatham, Ontario.
2. The Treasurer issue and sell debentures to raise funds to cover the cost of this project.
3. Pending the sale of the debentures, the Mayor and Treasurer be authorized to borrow temporary funds, as may be required, in order to meet the payments due to vendors.

BACKGROUND

The existing bridge structure (originally constructed circa 1976) is located on Queens Line the Community of Tilbury East at the following location:

Queens Line Bridge over Government Drain 1 Bridge TMS 4685105N17391537E

The subject structure was last inspected by Engineering Management Systems in March of 2008 and continues to demonstrate issues associated with the deterioration of the existing concrete parapet walls, abutment wall faces and deck soffit. Bi-annual inspections have been conducted by the Municipality of Chatham-Kent (as legislated under the *Public Transportation and Highway Improvement Act*) to continually monitor the condition of the structure and ensure public safety.

Queens Line over Government Drain 1 Bridge TMS 4685105N17391537E



Figure 1 - Queens Line over Government Drain 1



Figure 2 - South Elevation



Figure 3 - Deterioration at North Parapet Wall



Figure 4 - Deterioration at South Parapet Wall



Figure 5 - Deterioration at West Wingwall and Haunch



Figure 6 - Deterioration at South Elevation of Structure

COMMENTS

Dillon Consulting was charged with the task of preparing drawings associated with the rehabilitation and coordinating all necessary reviews and approvals required to undertake works at the subject structure. Upon receipt of all necessary approvals, the project was let for public tender in August of 2008.

The Purchasing Officer received and opened tenders for the work on June 26 of 2008. The tender results were as presented in Table 7.

Tender Results Contract T08-137 Rehabilitation of Queens Line Bridge over Government Drain 1 Community of Tilbury East, Municipality of Chatham-Kent		
Bidder	Bidder and Location	Tender (including GST)
1	Ben Bruinsma and Sons – Chatham, Ontario	\$ 200,504.35
2	Facca Incorporated – Ruscom, Ontario	\$ 259,129.50
3	Intrepid General Limited – Chatham, Ontario	\$ 260,295.00
4	PCR Contractors – Windsor, Ontario	\$ 269,829.00 ^A
5	Amico Design Build – Oldcastle, Ontario	\$ 313,627.38 ^A
6	Elmara Construction – Windsor, Ontario	\$ 359,987.87 ^A
7	Front Construction – Windsor, Ontario	\$ 372,000.08 ^A
Note A: Contained mathematical errors which did not impact rank of bids received.		

Dillon Consulting Limited has reviewed the tenders and notes that they are complete in all respects. The consultant's comments and recommendation letter is provided in Appendix A. All project fees (consultant fees, costs of construction, etc.) associated with this project will be funded through the Bridge Lifecycle Budget. A detailed financial breakdown associated with this project is provided in the Financial Implications section of this report.

The commencement of bridge projects is typically subject to the receipt of approvals from the Department of Fisheries and Oceans, Coast Guard, Conservation Authority and any other agency deemed necessary. All necessary advertisements have been completed and the appropriate approvals have been obtained in advance of tendering the project.

Signage will be posted at the structure advising motorists of the approaching construction activities and duration of same. Traffic will be maintained across the structure for the entire duration of the project.

Under the requirements of the contract, work may start anytime after award and execution of the necessary agreements. Completion of the project is required by December, 2008.

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

A. Health – We are a healthy community

A1: Provide sufficient capacity to sustain community health and economic growth

B. Economy – We are a prosperous community

B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

Desired Outcomes

- Provide safe, accessible, convenient and efficient public transportation
- Support new infrastructure investments and modernize existing infrastructure

The recommendations will not adversely impact on the remainder of the Community Strategic Plan.

CONSULTATION

The Tenders were opened by the Purchasing Officer and reviewed by the Tendering Committee comprised of the Purchasing Officer, Corporate Services, the Director, Financial Services/Treasurer, Corporate Services and the Director, Engineering and Transportation Division, Infrastructure and Engineering Services.

FINANCIAL IMPLICATIONS

The project is municipally funded from the Bridge Lifecycle Budget and through the sale of debentures. The current project is summarized in the following table:

Financial Implications Contract T08-137 Rehabilitation of Queens Line Bridge over Government Drain 1 Community of Tilbury East, Municipality of Chatham-Kent		
A) Project Costs	Recommended Tender	\$ 200,504.35
	Engineering – Design and Tendering	\$ 65,000.00
	Engineering – Contract Admin. / Inspect.	\$ 12,000.00 ^A
	Engineering – Material Testing (incl. in contract)	\$ 7,500.00 ^A
	Less GST Rebate 5%	\$ (9,547.83) ^B
	Total Current Project Costs	\$ 275,456.52
B) Expenditures to Date	2008 Bridge Lifecycle Funding	\$ 10,000,000.00
	Less Previously Approved Projects: T08-135 Bridge Deck Replacement - Queen's Line over Raleigh Plains Drain	\$ (1,133,425.00)
	T08-181 Caledonia Road Bridge over Miller and Leek Drain	\$ (263,650.00)
	T08-187 Lagoon Road over Cameron Drain	\$ (264,471.75)
	Q08-222 Mint Line over King & Whittle Drain	\$ (99,900.00)
	Less Current Project: T08-137 Queens Line over Gov't Drain 1	\$ (275,456.52)
	2008 Bridge Lifecycle Balance Remaining	\$ 7,963,096.73
C) Funding Opportunities	Previous Estimated Subsidy T08-135 Bridge Deck Replacement - Queen's Line over Raleigh Plains Drain	\$ 1,000,000.00 ^C
	Subsidy Received from Federal Gas Tax: T08-137 Queens Line over Gov't Drain 1	\$ 275,456.52 ^C
	Total Funding Opportunities to Date	\$ 1,275,456.52
D) Summary	Net Potential Impact of Current Project on 2008 Bridge Lifecycle Funding	\$ 0.00
Note A: Costs identified by consultant are estimated budgets only and subject to change based on actual hours required to undertake and complete work. Note B: GST rebate calculated on tender price only – consultant fees shown are already exclusive of GST Note C: This project is being funded through a contribution from the <i>Transfer of Federal Gas Tax Revenues Under the New Deal for Cities and Communities Agreement</i> as administered by AMO.		

Prepared by:

Reviewed by:

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Gary Northcott, P. Eng.
Director
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Reviewed by:

Reviewed by:

Leo Denys, P. Eng.
General Manager
Infrastructure and Engineering Services

C.D. Weldon
Chief Administrative Officer

Attachments: Appendix A Consultant's Letter of Recommendation

(RTC:\Infrastructure & Engineering\I&ES\2008\3034 - Tender Award Contract T08-137
Rehabilitation of Queens Line Bridge over Government Drain 1.doc)

August 26, 2008

Corporation of the
Municipality of Chatham-Kent
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Attention: Mr. Stephen Jahns, B.A.Sc., P.Eng., CMMII
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Queens Line Bridge over Government Drain #1
Bridge ID No.: 4685105N17391537E
Community of Raleigh
Tender Comparison, Contract No.: T08-137

Dear Sir:

The following Tenders were received and opened publicly on August 21, 2008:

<u>Tenderer</u>	<u>Tender Amount</u>
Ben Bruinsma and Sons Limited	\$200,504.35
Facca Incorporated	\$259,129.50
Intrepid General Limited	\$260,295.00
PCR Contractors Inc.	\$273,372.75 ^{*1}
Amico Design Build Inc.	\$313,588.00 ^{*2}
Elmara Construction Co. Limited	\$366,140.78 ^{*3}
Front Construction Industries Inc.	\$372,000.00 ^{*4}

^{*1} Arithmetic error. Total Tender Price decreased by \$3,543.75

^{*2} Arithmetic error. Total Tender Price increased by \$39.38

^{*3} Arithmetic error. Total Tender Price decreased by \$6,152.91

^{*4} Arithmetic error. Total Tender Price increased by \$0.08

The prices include \$10,000.00 contingency and 5% GST. All tenders were accompanied by a ten percent (10%) bid bond tender deposit. All tender information given to Dillon Consulting Limited was reviewed and found to be complete.

Based on the above, we recommend that the Contract be awarded to the lowest bidder, Ben Bruinsma and Sons Limited.

Yours sincerely,

DILLON CONSULTING LIMITED

A handwritten signature in black ink, appearing to read "Thomas Debevc".

Thomas Debevc, P.Eng.
Project Manager

TLD:dr
Encl.

Our File: 04-3881

**Dillon Consulting
Limited**