

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JUNE 18, 2019</b>
<b>FROM:</b>	<b>KELLY SCHERR, P. Eng., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>APPOINTMENT OF CONSULTING ENGINEERS INFRASTRUCTURE RENEWAL PROGRAM</b>

<b>RECOMMENDATION</b>
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That on the recommendation of the Managing Director, Environmental and Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the appointment of consulting engineers for the Infrastructure Renewal Program:

- a) The following consulting engineers **BE APPOINTED** to carry out consulting services for the identified 2020 – 2021 Infrastructure Renewal Program funded projects, at the upset amounts identified below, in accordance with the estimate on file, and in accordance with Section 15.2(e) of the City of London's Procurement of Goods and Services Policy:
  - (i) AECOM Canada Limited **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of the 2020 City Centre Servicing Strategy Program Phase 3, Richmond Street from York Street to Dundas Street reconstruction, in the total amount of \$358,015.00 (including contingency), excluding HST;
  - (ii) Development Engineering (London) Limited **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of the 2020 Infrastructure Renewal Program Contract 1, Oxford Park South Area Reconstruction Phase 1, Britannia Avenue from Riverside Drive to Edinburgh Street, and Tozer Avenue, all, in the total amount of \$224,647.50 (including contingency), excluding HST;
  - (iii) Archibald, Gray and McKay Engineering Limited **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of the 2020 Infrastructure Renewal Program Contract 2, Euclid Avenue from Wharncliffe Road to Wortley Road, and Birch Street from Byron Avenue to Euclid Avenue reconstruction, in the total amount of \$372,218.00 (including contingency), excluding HST;
  - (iv) Spriet Associates (London) Limited **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of the 2020 Infrastructure Renewal Program Contract 12, Hyla Street from Hamilton Road to Trafalgar Street, and Elm Street from Hamilton Road to Trafalgar Street reconstruction, in the total amount of \$369,245.80 (including contingency), excluding HST;
  - (v) AECOM Canada Limited **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of the 2021 Infrastructure Renewal Program Assignment 'A', English Street from Dundas Street to Princess Avenue, and Lorne Avenue from English Street to 100m east reconstruction in the total amount of \$199,990.00 (including contingency), excluding HST;
- b) Archibald, Gray and McKay Engineering Limited **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of the 2020 Infrastructure Renewal Program Contract 10, Egerton Street Phase 3 reconstruction, in the total amount of \$173,800.00 (including contingency), excluding HST, in accordance with the estimate on file, and in accordance with

Section 15.2(g) of the City of London's Procurement of Goods and Services Policy;

- c) The financing for the projects identified in (a) and (b) above **BE APPROVED** in accordance with the "Sources of Financing Report" attached, hereto, as Appendix 'A';
- d) The Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this work;
- e) The approvals given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract with each consultant for the respective project; and
- f) The Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

### PREVIOUS REPORTS PERTINENT TO THIS MATTER

- CWC – May 26, 2014 – Appointment of Consulting Engineers, Infrastructure Lifecycle Renewal Program 2015-2016;
- CWC – July 17, 2017 – Appointment of Consulting Engineers, Infrastructure Renewal Program 2017-2019;
- CWC – March 19, 2018 – Contract Award: Tender No. 18-03, 2018 Infrastructure Renewal Program Egerton Street and King Street Phase 1 Reconstruction Project;
- CWC – February 20, 2019 – Contract Award: Tender No. RFT 19-02, 2019 Infrastructure Renewal Program Egerton Street, Brydges Street and Pine Street Phase 2 Reconstruction Project; and
- CWC – May 28, 2018 – Revised Grouped Consultant Selection Process.

### 2019 – 2023 STRATEGIC PLAN

The following report supports the 2019 – 2023 Strategic Plan through the strategic focus area of Building a Sustainable City including:

- London's infrastructure is built, maintained, and operated to meet the long-term needs of our community; and
- London has a strong and healthy environment.

### BACKGROUND

#### Purpose

The purpose of this report is to award engineering consultant appointments for the Infrastructure Renewal Program. These consultant appointments will lead to infrastructure construction projects in 2020 and 2021, including several phased and multi-year projects. A detailed project list, including timing and project limits, is contained in Appendix 'B'. Project maps are contained in Appendix 'C'.

#### Context

The Infrastructure Renewal Program is an annual program intended to maintain the lifecycle and operation of municipal infrastructure at an acceptable performance level. The engineering consultants work with City staff to complete the Infrastructure Renewal Program projects and meet the challenging infrastructure lifecycle replacement needs. The engineering consulting work recommended within this report will support the reconstruction of an estimated \$20,000,000.00 of capital infrastructure over two construction seasons.

## DISCUSSION

### **Procurement Process: 2020 – 2021 Infrastructure Renewal Program**

The engineering consultant selection procedure for the 2020 – 2021 Infrastructure Renewal Program utilized a grouped consultant selection process developed in partnership with the Purchasing and Supply Division, and subsequently endorsed by Council (CWC May 28, 2018). This two-stage grouped procurement process is in accordance with Section 15.2(e) of the Procurement of Goods and Services Policy.

The first stage of the process is an open, publicly advertised Request for Qualifications. Statement of Qualifications submissions were received from a province wide group of seventeen prospective consultants. The Statement of Qualifications were evaluated by the Environmental Engineering Services Department resulting in a short-list group of twelve engineering consulting firms. This short-list of twelve firms will be retained for a two year period (through the 2021 procurement period). After this period, the Request for Qualifications process will be initiated again.

The second stage of the process is a competitive Request for Proposal. Consultants from the short listed group are invited to submit a formal proposal to undertake a specific preferred engineering assignment identified by the consultant in their Statement of Qualifications submission. Three consultants were invited to submit a proposal for each of the identified project assignments.

An evaluation of the proposals was undertaken by the Environmental Engineering Services Department including both a technical and cost component. Engineering consultants are recommended based on their knowledge and understanding of project goals, their experience on directly related projects, their project team members, capacity and qualifications, and overall project fee.

The construction administration fee portion of the engineering consultant assignments is included for those projects of lower complexity, and for projects where construction administration fees can be reasonably estimated prior to the start of the design. Including the construction administration fees as part of the initial consultant assignment reduces the number of required reports to committee and reduces the time required to award the final construction contract. Of the five projects, the construction administration fee is included in three of the consultant assignments.

### **Work Description**

The Infrastructure Renewal Program projects include watermain and sewer replacement/repairs, as well as restoration of areas disturbed by the construction activity. The scope of each project varies in length and depends on the infrastructure components requiring rehabilitation or replacement. In some cases full road reconstruction, including traffic signal and street light replacement, will be part of the overall project.

The City infrastructure design groups within each engineering division work closely together to co-ordinate infrastructure repair, rehabilitation and replacement. City staff prepare a list of the highest priority projects, taking into consideration condition assessment, capacity, criticality of the infrastructure link, and the safety and social impacts should the infrastructure link fail. City staff meet regularly throughout the year to co-ordinate their respective priorities, with the goal of aligning construction projects so more than one infrastructure element can be renewed, which significantly reduces social disruption and saves on construction costs. Design work starts early in the budget cycle, which allows projects to be tendered early in the new calendar year, so the most competitive construction pricing can be realized.

This report recommends the appointment of engineering consultants for five projects assignments as identified in Appendix 'B'. Four of the projects are scheduled for construction in 2020, and one will be constructed in 2021. The project planned to be

constructed in 2021 is a larger and more complex project and includes a design phase that will span two years. The proposed construction year and physical limits of the project assignments are summarized in Appendix 'B' and a location map is provided for each project in Appendix 'C'.

Funds have been budgeted in the transportation, water and sewer capital budgets to support the engineering design work for the projects identified in Appendix 'A', "Sources of Financing Report". The design and construction administration fees for the new projects, recommended for approval in this report, are summarized in Table 1 below. All values below include 10% contingency and exclude HST.

**Table 1 – New Project Approval Summary**

<b>Contract</b>	<b>Street</b>	<b>Consultant</b>	<b>Design Fee</b>	<b>Construction Administration Fee</b>	<b>Total Fee</b>
2020 City Centre Servicing Strategy Program Phase 3	Richmond Street	AECOM Canada Limited	\$358,015.00	-	\$358,015.00
2020 Infrastructure Renewal Program 1	Oxford Park South Phase 1 – Britannia Avenue & Tozer Avenue	Development Engineering (London) Limited	\$103,279.00	\$121,368.50	\$224,647.50
2020 Infrastructure Renewal Program 2	Euclid Ave and Birch Street	Archibald, Gray and McKay Engineering Limited	\$189,293.50	\$182,924.50	\$372,218.00
2020 Infrastructure Renewal Program 12	Elm Street and Hyla Street	Spriet Associates (London) Limited	\$167,099.90	\$202,145.90	\$369,245.80
2021 Infrastructure Renewal Program 'A'	English Street and Lorne Avenue	AECOM Canada Limited	\$199,990.00	-	\$199,990.00

**2020 Infrastructure Renewal Program Contract 10, Egerton Street Phase 3**

This report also recommends appointment of Archibald, Gray and McKay Engineering Limited to complete the pre-design and detailed design for the 2020 Infrastructure Renewal Program Contract 10, Egerton Street Phase 3 reconstruction project. It is recommended that the existing consultant continue with the design assignment to achieve efficiencies in the delivery and execution of this multi-phase project.

The recommended Phase 3 design fee is \$173,800.00 (including contingency), excluding HST. The total fee to date for the project, including the Phase 1 design fee of \$471,680.00 (CWC May 26, 2014), the Phase 2 design fee of \$334,401.00 (CWC July 17, 2017), the Phase 1 construction administration fee of \$480,656.00 (CWC March 19, 2018), the Phase 2 construction administration fee of \$429,880.00 (CWC February 20, 2019) and the recommended Phase 3 design fee within this report, is \$1,890,417 (including contingency), excluding HST. For context, the total construction cost to date for the project, including the Phase 1 tender award of \$5,799,999.00 (CWC March 19, 2018), the Phase 2 tender award of \$5,723,375.76 (CWC February 20, 2019) and the Phase 3 preliminary cost estimate of \$3,720,000.00 is \$15,243,374.76 (including contingency), excluding HST. It is noted that if the performance of the consultant

continues to be of high quality and their fees are appropriate, a future recommendation will be made for a construction administration assignment in tandem with the award of the construction contract for Phase 3. The proposed construction year and physical limits of the project assignment is summarized in Appendix 'B' and a location map is provided in Appendix 'C'.

It is recommended that Archibald, Gray and McKay Engineering Limited continue with the design assignment because of their satisfactory completion of previous work on the project, and the ensuing nature of the additional design efforts.

This approach is consistent with section 15.2(g) of the Procurement of Goods and Services Policy. Section 15.2(g) of the Procurement of Goods and Services Policy provides that a consulting firm, which has satisfactorily partially completed a project, may be recommended for award of the balance of a project without competition, subject to satisfying all financial, reporting and other conditions contained within this policy. This should be financially beneficial to the city because such a consultant has specific knowledge of the project and has undertaken work for which duplication would be required if another firm were to be selected.

<b>CONCLUSIONS</b>
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Replacing infrastructure at the end of its lifecycle is essential to building a sustainable city. The recommended engineering consultant assignments for the 2020 – 2021 Infrastructure Renewal Program are another step forward in replacing London’s aging infrastructure. The projects discussed within this report have been identified as high priority due to the age, poor condition and associated risk of failure associated with the infrastructure.

In the spirit of continuous improvement, the process for undertaking engineering consultant appointments will continue to evolve ensuring the City achieves the best value through a transparent, fair and competitive process. All the firms recommended through this engineering consultant appointment have shown their competency and expertise with infrastructure replacement projects of this type. The Infrastructure Renewal Program will continue to ensure high value and endeavour to achieve a consistently high degree of public satisfaction.

**Acknowledgements:**

This report was prepared by Kyle Chambers, Environmental Services Engineer; David Gough, Environmental Services Engineer; and Doug Harron, Senior Technologist.

<b>SUBMITTED BY:</b>	<b>SUBMITTED BY:</b>
<b>TOM COPELAND, P. ENG. DIVISION MANAGER WASTEWATER AND DRAINAGE ENGINEERING</b>	<b>AARON ROZENTALS, P.ENG. DIVISION MANAGER WATER ENGINEERING DIVISION</b>
<b>REVIEWED AND CONCURRED BY:</b>	<b>RECOMMENDED BY:</b>
<b>SCOTT MATHERS, MPA, P.ENG. DIRECTOR, WATER AND WASTEWATER ENGINEERING</b>	<b>KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER</b>

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Attach: Appendix 'A' – Sources of Financing  
Appendix 'B' – Project Information List  
Appendix 'C' – Location Maps

cc. John Freeman, Manager, Purchasing and Supply  
Gary McDonald, Budget Analyst  
AECOM Canada Ltd, 410 – 250 York Street, Citi Plaza, N6A 6K2  
Spriet Associates, 155 York Street, N6A 1A8  
Archibald, Gray & McKay Engineering, 3514 White Oak Road, N6E 2Z9  
Development Engineering Ltd., 41 Adelaide St N, Unit 71, N6B 3P4