

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON SEPTEMBER 22, 2020
FROM:	KELLY SCHERR, P. Eng., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	APPOINTMENT OF CONSULTING ENGINEERS INFRASTRUCTURE RENEWAL PROGRAM

RECOMMENDATION

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 2021/2022 Infrastructure Renewal Program 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) IBI Group Professional Services (Canada) Inc. **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of the 2021/2022 Infrastructure Renewal Program Assignment G, Elizabeth Street and Lyle Street Reconstruction, in the total amount of \$146,872.00 (including contingency), excluding HST;
 - (ii) Archibald, Gray and McKay Engineering Limited **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of 2021/2022 Infrastructure Renewal Program Assignment H, Glen Cairn Park Area Reconstruction, Glen Cairn Park from Thompson Road to Helena Avenue to Chesterfield Avenue, Chesterfield Avenue from Thompson Road to Shirl Street and Westlake Street from Chesterfield Avenue to Gladstone Avenue, in the total amount of \$264,000.00 (including contingency), excluding HST;
 - (iii) Stantec Consulting Ltd. **BE APPOINTED** consulting engineers to complete the pre-design, and detailed design of the 2021/2022 Thames River Watermain Remediation Project at the west end of Huron Street from west of The Parkway to Philip Aziz Avenue, in the total amount of \$198,899.80 (including contingency), excluding HST;
 - (iv) AECOM Canada Ltd **BE APPOINTED** consulting engineers to confirm the pre-design, complete the detailed design and construction administration of 2021 Wonderland Road Watermain Installation Project, Wonderland Road from Hamlyn Street to Exeter Road, in the total amount of \$194,963.00 (including contingency), excluding HST;
- b) the financing for the projects identified in (a) above **BE APPROVED** in accordance with the "Sources of Financing Report" attached, hereto, as Appendix 'A';
- c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this work;
- d) the approvals given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract with each consultant for the respective project; and
- e) 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

- Huron St Watermain Remediation:
 - Engineering Fees Contract Amendment; Huron Street Watermain River Crossing – EW 3580 – Civic Works Committee Meeting on January 10, 2017, Agenda Item #11
 - Huron Street Watermain Replacement Municipal Class Environmental Assessment - EW3580 - Civic Works Committee Meeting on October 1, 2012, Agenda Item #6
 - Appointment of Consulting Engineer - Huron Street Watermain Replacement Class EA and Preliminary Design - EW3580 - Built and Natural Environment Committee Meeting May 2, 2011, Agenda Item #17
- Wonderland Road Watermain Installation:
 - 2019 Development Charges By-Law and Background Study

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 2021 and 2022. A detailed project list, including timing and limits, is attached in Appendix 'B'. Maps are attached in Appendix 'C'.

Context

The Infrastructure Renewal Program is an annual program intended to maintain the condition 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 \$6,900,000 of capital infrastructure in 2021/2022.

DISCUSSION

Procurement Process: 2021 Infrastructure Renewal Program

The engineering consultant selection procedure for the 2021 Infrastructure Renewal Program utilized a grouped consultant selection process developed in partnership with the Purchasing and Supply Division, subsequently approved by Council June 12, 2018 and which will be used for all future Infrastructure Renewal Program consultant appointments. 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 (RFQ). A Statement of Qualifications (SOQ) submission was received from a province-wide group of 17 prospective consultants. The Statement of Qualifications were evaluated by Environmental and Engineering Services resulting in a short-list group of 12 engineering consulting firms. This short list of 12 firms will be retained for a two-year period (through this procurement period) at which time the Request for Qualifications

process will be initiated again.

The second stage of the process is a competitive Request for Proposal exercise. 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 Request for Qualifications submission. Three consultants were invited to submit a proposal for each of the assignments and every consultant was invited to submit at least one proposal.

After an evaluation of the proposals undertaken by Environmental and Engineering Services including both a technical and cost component, engineering consultants were selected based on their knowledge and understanding of project goals, their experience on directly related projects and their project team members, capacity and qualifications.

The construction administration fee portion of the engineering consultant assignments is included for the Wonderland Road Watermain Installation project as this project is planned to be constructed in 2021. The other projects presented here are two-year design projects to be constructed in 2022 so construction administration fees were not requested at this time. The construction administration fees for the other projects presented here will be awarded in a future Civic Works Committee report.

Work Description

The Infrastructure Renewal Program assignments include watermain and sewer replacement/repairs, as well as restoration of areas disturbed by 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 Thames River Watermain Remediation project addresses the design of necessary remediation options due to the continued erosion of the north branch of the Thames River at this location surrounding the abandoned 600mm concrete watermain at Huron Street replaced in 2016. A significant environmental engineering component will be part of this project.

The Wonderland Watermain installation project will install a new watermain on Wonderland Road South from Exeter Road to Hamlyn Street. This is a growth-funded project that was included in the 2019 Development Charges Study. It is important as it extends full water servicing to this portion of the City, allowing development in the area.

The City infrastructure design groups within each service area 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 work, 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 tender early in the season, so the most competitive construction pricing can be realized.

This report recommends the appointment of engineering consultants for four engineering design assignments as identified in Appendix 'B'. One of the projects is scheduled for construction in 2021, with the remaining projects scheduled for construction in 2022. 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

Assignment	Street	Consultant	Design Fee	Construction Admin Fee	Total Fee
2021/22 IRP* Assignment G	Elizabeth Street / Lyle Street	IBI Group Professional Services (Canada) Inc.	\$146,872.00	\$0	\$146,872.00
2021/22 IRP Assignment H	Glen Cairn Park / Chesterfield Avenue / Westlake Street	Archibald, Gray and McKay Engineering Ltd	\$264,000.00	\$0	\$264,000.00
2021/22 Thames River Watermain Remediation	Huron Street west of The Parkway to Philip Aziz Avenue	Stantec Consulting Ltd.	\$198,899.80	\$0	\$198,899.80
2021 Wonderland Road Watermain Installation	Wonderland Road	AECOM Canada Ltd.	\$89,587.00	\$105,376.00	\$194,963.00

* - Infrastructure Renewal Program

CONCLUSIONS

Replacing infrastructure at the end of its lifecycle is essential to building a sustainable city. The recommended engineering consultant assignments for the 2021/2022 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.

Removal of the existing 600mm watermain from the Thames River is seen as an important step in maintaining and preserving the health of the river.

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.

SUBMITTED BY:	SUBMITTED BY:
ASHLEY RAMMELOO, MMSc., P. ENG. DIVISION MANAGER SEWER ENGINEERING DIVISION	AARON ROZENTALS, P.ENG. DIVISION MANAGER WATER ENGINEERING DIVISION
REVIEWED AND CONCURRED BY:	RECOMMENDED BY:
SCOTT MATHERS, MPA, P.ENG. DIRECTOR, WATER AND WASTEWATER	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER

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

cc. Kyle Chambers, Environmental Services Engineer
John Freeman, Manager, Purchasing and Supply
Gary McDonald, Budget Analyst
AECOM Canada Ltd, 410 – 250 York Street, Citi Plaza, N6A 6K2
Archibald, Gray & McKay Engineering, 3514 White Oak Road, N6E 2Z9
IBI Group, 203-350 Oxford Street West, N6H 1T3
Stantec, 171 Queens Ave, N6A 5J7