

NO: R108

COUNCIL DATE: May 31, 2021

REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **May 25, 2021**

FROM: **General Manager, Engineering**

FILE: **4719-064/01**

SUBJECT: **Award of Contract No. 4719-064 D1
Design of the Quibble Creek Forcemain**

RECOMMENDATION

The Engineering Department recommends that Council:

1. Award Consultant Design Agreement No. 4719-064 D1 to WSP Canada Inc. at an estimated fee limit of \$357,672.00 (including GST) for the design of the Quibble Creek Forcemain;
2. Set the expenditure authorization limit for Consultant Design Agreement No. 4719-064 D1 at \$395,000.00(including contingencies and GST);
3. Authorize the General Manager, Engineering to execute Consultant Design Agreement No. 4719-064 D1;
4. Authorize the inclusion in the Consultant Design Agreement an option in favour of the City to retain WSP Canada Inc. to provide engineering services for the optional construction services of the Quibble Creek Forcemain at an estimated fee limit of \$730,000.00 (including contingencies and GST); and
5. Authorize the General Manager, Engineering to award and execute Consultant Construction Agreements with WSP Canada Inc., should the optional construction services to retain WSP Canada Inc. be undertaken.

INTENT

The intent of this report is to seek Council's approval to award Consultant Design Agreement No. 4719-064 D1 for engineering services for the detailed design of the Quibble Creek Forcemain Twinning, as illustrated on the map attached to this report as Appendix "I".

BACKGROUND

Surrey's City Centre has been the focus of significant residential and commercial development as the area grows into the next downtown core for the region. City Centre is serviced by the Quibble Creek Sanitary Pump Station, located at 94A Avenue and King George Boulevard. To support continued growth in City Centre, the pump station forcemain needs to be twinned.

The City also plans to deliver the Bear Creek Sanitary Relief Station in the future, which will provide capacity relief to the Bear Creek trunk sewer system by diverting flows to City Centre. The relief station will likely be situated near King George Boulevard and 84 Avenue and pump north, while potentially sharing the same forcemain as the proposed Quibble Creek Forcemain.

As illustrated in Appendix “I”, a segment of the forcemain alignment is proposed within Holland Park. Holland Park is an active park within City Centre and a host to a number of events throughout the year. The alignment of the forcemain within Holland Park will be further reviewed during detailed design to minimize impacts to the park. Options that will be considered include alternative trenchless construction techniques, which will minimize any surface impacts in the park, and alternative alignments outside of Holland Park, if feasible.

SCOPE OF WORK

This assignment involves designs for a large diameter forcemain, gravity sewers and an odour control facility at the following locations:

Map Ref	Project No.	Project Location	Project Description
1	S-18693	University Drive and 100 Avenue	Odour Control Facility
2	S-17843	University Drive: Old Yale Road to 102 Avenue	Gravity Sewer: 300m, 1,200mm diameter
3	S-11304	Quibble Creek Pump Station to University Drive	Quibble Creek Pump Station Forcemain: 1,705m of 600-900mm diameter

At this time, a Contract will be awarded for the detail design with the option to award construction services upon successful completion of the design phase. The design phase involves overall project management, geotechnical investigation, sanitary design, and tendering services; while the construction phase includes contract administration, inspection, and post construction services.

The design work is expected to start in June 2021 and be completed by Spring 2022. The optional construction would occur over multiple years and under two phases:

- Phase 1 (2022) - construction of the 1,200mm diameter gravity trunk sewer on University Drive (Map Reference 2); and
- Phase 2 (2023) - construction of the Quibble Creek forcemain a (Map Reference 3).

The total capital value of the project is estimated to be \$21 million.

EVALUATION

The City invited four pre-qualified engineering consultants to respond to a Request for Proposals:

- AECOM Canada Ltd.;
- Associated Engineering Ltd.;
- ISL Engineering and Land Services Ltd.; and
- WSP Canada Inc. (“WSP”).

The proposals were evaluated using the following criteria:

- Understanding of the assignment;
- Experience relative to the assignment;
- Strength of the project manager and project team;
- Work plan and schedule; and
- Financial considerations.

The four submissions received were carefully reviewed for accuracy and completeness by a panel of four staff members, following a structured and standard evaluation process.

WSP's proposal demonstrated a thorough understanding of the scope of work and provided a strong technical design who has experience related to similar work. Their total engineering fee is considered reasonable for this type of engineering assignment and represents the best value for the City. Staff therefore recommend this assignment be awarded to WSP.

SUSTAINABILITY CONSIDERATIONS

The approval of the Agreement supports the objectives of the City's Sustainability Charter 2.0. In particular, this work relates to the Sustainability Charter 2.0 theme of Infrastructure. Specifically, this agreement supports the following Desired Outcomes ("DO"):

- All Infrastructure Do1: City facilities and infrastructure systems are well managed, adaptable, long lasting, and are effectively integrated into regional systems; and
- All Infrastructure Do2: Infrastructure systems provide safe, reliable, and affordable services.

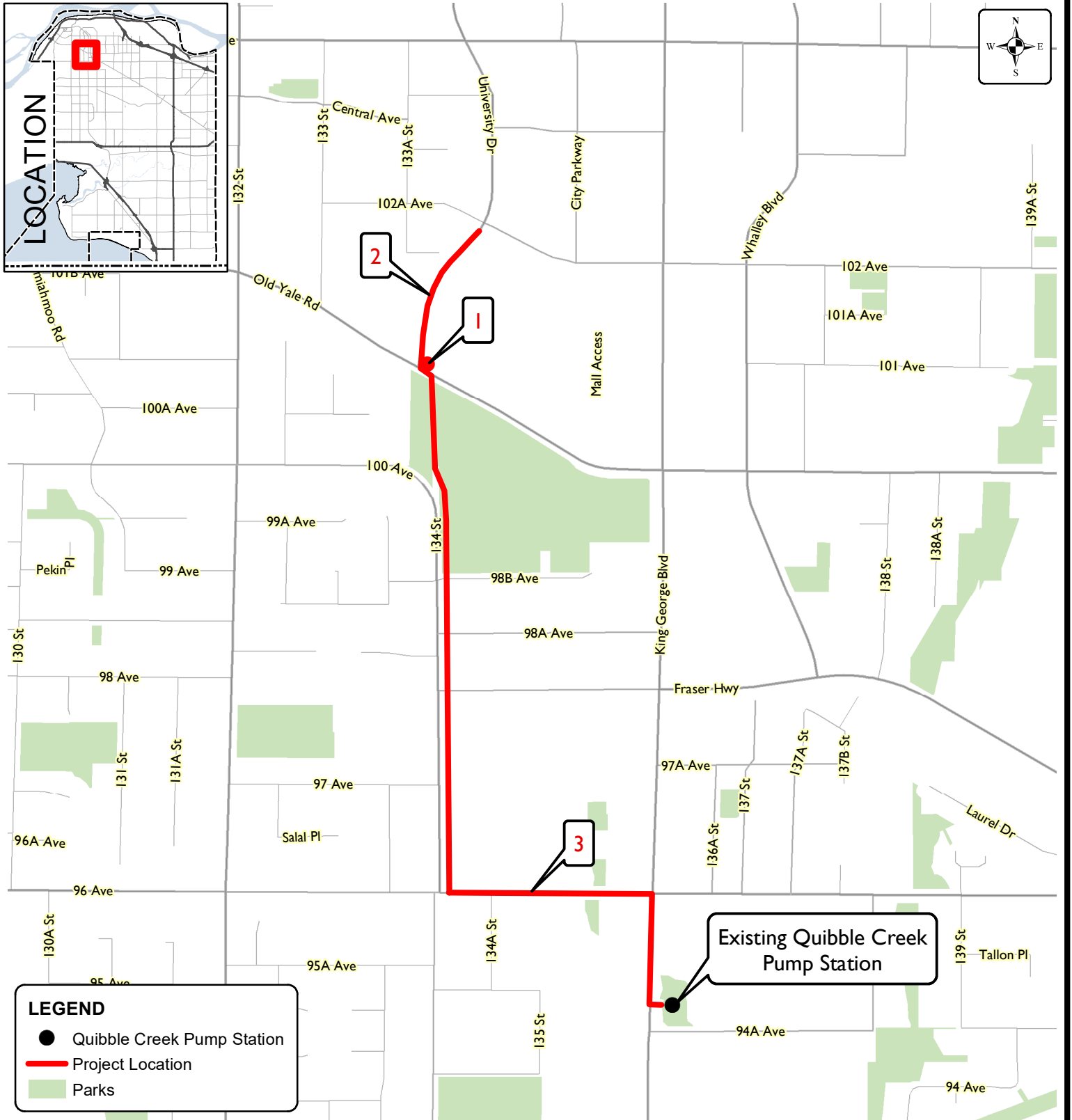
FUNDING

Funds are available for the design service agreement in the 2021 Sewer Utility budget.

Scott Neuman, P.Eng.
General Manager, Engineering

VJ/NC/cc

Appendix "I" –Map of Project Location – Contract No. 4719-064 D1



Produced by GIS Section: 18-May-2021, P205934

Scale: 1:10,000 0 100 M



CONTRACT No. 4719-064 D1 Quibble Creek Forcemain

ENGINEERING DEPARTMENT