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CORPORATE REPORT

NO: **R028** COUNCIL DATE: **February 24, 2020**

REGULAR COUNCIL

TO: **Mayor & Council** DATE: **February 18, 2020**

FROM: **General Manager, Engineering** PROJECT FILE: **1718-041/01**

SUBJECT: **Award of Contract No. 1718-041 D1**
Design of 20 Avenue and Highway 99 Overpass

RECOMMENDATION

The Engineering Department recommends that Council:

1. Award Consultant Design Agreement No. 1718-041 D1 for the design of the 20 Avenue and Highway 99 Overpass to McElhanney Consulting Services Ltd. in the amount of $491,706.60 (including GST);

2. Set the expenditure authorization limit for Agreement No. 1718-041 D1 at $540,877.26 (including contingencies and GST);

3. Authorize the General Manager, Engineering to execute Agreement No. 1718-041 D1; and

4. Authorize the inclusion in the Consultant Design Agreement an option in favour of the City to retain McElhanney Consulting Services Ltd. to provide engineering services for the tendering and construction, optional services, of the 20 Avenue and Highway 99 Overpass at an estimated fee of $432,026.60 (including contingencies and GST), conditional upon satisfactory performance during the design phase.

INTENT

The intent of this report is to obtain approval to award an agreement for engineering services for the design of the 20 Avenue and Highway 99 Overpass, as illustrated on the map attached to this report as Appendix "I".

BACKGROUND

The 20 Avenue and Highway 99 overpass is identified in the Engineering Department's 10-Year (2020-2029) Service Plan. The 20 Avenue Overpass is part of the Grandview Heights NCP Area #2 (Sunnyside Heights), which was approved by Council in 2007.

The Project will help alleviate traffic congestion on 24 Avenue, as well as the existing Highway 99 overpass on 24 Avenue, and will support growth in Semiahmoo Peninsula and Grandview Heights. The 20 Avenue and Highway 99 overpass will improve community connectivity and will increase accessibility of services, such as commercial and employment areas, shopping, community centres, health, and education. Furthermore, the widening of 20 Avenue is part of a multi-phase program of widening and providing continuous multi-modal infrastructure along the entire 20 Avenue corridor between Sunnyside Heights and Semiahmoo Town Centre.

SCOPE OF WORK

Work within this design contract (the "Project") involves engineering services for the design of the 20 Avenue and Highway 99 overpass and associated roadwork. The overpass is anticipated to include a four-lane cross-section with pedestrian and cycling facilities. The Project also includes improvements to 20 Avenue from King George Boulevard to 160 Street to provide improved connections to the community from the overpass. The components of the Project are listed in the following table:

Map Reference Number	Project#	Project Description	Location
1	R-17296	Traffic Signal	20 Avenue / 168 Street
2	R-16148	Roundabout	20 Avenue / 160 Street
3	R-16142	Roadworks	20 Avenue: King George Boulevard to 160 Street
4	R-14247	Overpass	20 Avenue Overpass of Highway 99

At this time, a contract will be awarded for the design services only, with the option to award construction services upon successful completion of the design phase. The design phase involves overall project management, design works, public consultation, acquiring regulatory approvals from the Ministry of Transportation & Infrastructure, while the construction phase includes tendering, contract administration, inspection, and post construction services.

As part of the project design phase, staff will be developing a preliminary design and public consultation in Spring 2021. Construction of the Project is anticipated to be $17.3 million and will be completed in 2022/2023.

EVALUATION

The City invited four pre-qualified engineering consultants to respond to a Request for Proposals ("RFP"). Three of the invited consultants responded to the RFP and were received as listed below:

- McElhanney Consulting Services Ltd. ("McElhanney");
- Associated Engineering (B.C.) Ltd. ("Associated"); and
- Parsons Inc. ("Parsons").

The proposals were evaluated using the following criteria:

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

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

McElhanney's proposal demonstrated a thorough understanding of the scope of work and a strong proposed work plan. Furthermore, McElhanney have put forth a team with considerable experience related to similar work with projects of similar nature completed in Surrey and neighbouring municipalities. Their design fee is also the most competitive and is considered reasonable for this type of engineering assignment. Staff therefore recommend that this assignment be awarded to McElhanney.

SUSTAINABILITY CONSIDERATIONS

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

- Transportation DO11: An integrated and multi-modal transportation network offers affordable, convenient, accessible and safe transportation choices within the community and to regional destinations; and
- Transportation DO14: Goods movement throughout the city is efficient, and minimizes environmental and community impacts.

FUNDING

Funding for this Design Agreement is available within the 2020 Transportation Budget. $17.3 million of funding for the construction of the Project has been allocated in the 10-Year Servicing Plan and will be funded in future years.

Scott Neuman, P.Eng.
General Manager, Engineering

VJ/HL/cc

Appendix "I" - Location Map – Contract No. 1718-041 D1

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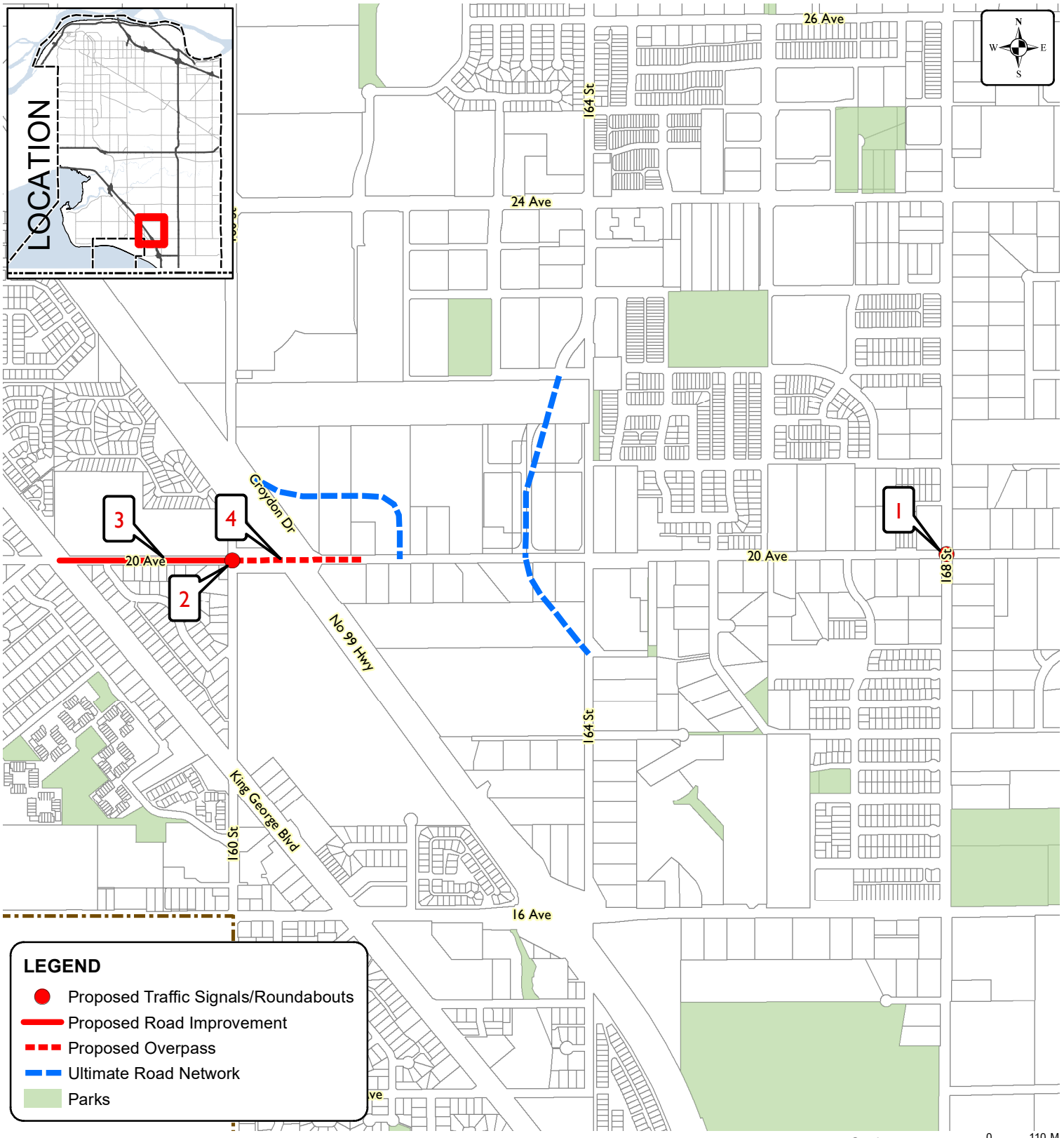
APPENDIX "I"



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Contract No. 1718-041-D1
20 Avenue and Highway 99 Overpass

ENGINEERING DEPARTMENT

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