



CORPORATE REPORT

NO: R190 COUNCIL DATE: December 21, 2020

REGULAR COUNCIL

TO: Mayor & Council DATE: December 17, 2020
FROM: General Manager, Engineering FILE: 6020-006/01
SUBJECT: Award of Contract No. 6020-006 D1
Design of the Nicomekl River Bridge Replacement

RECOMMENDATION

The Engineering Department recommends that Council:

1. Award Consultant Design Agreement No. 6020-0006 D1 to McElhanney Consulting Services Ltd. at an estimated fee limit of \$960,846.60 (including GST) for the design of the Nicomekl River Bridge Replacement;
2. Set the expenditure authorization limit for Consultant Design Agreement No. 6020-006 D1 at \$1,060,000.00 (including contingencies and GST);
3. Authorize the General Manager, Engineering to execute Consultant Design Agreement No. 6020-006 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 optional construction services of the Nicomekl River Bridge Replacement at an estimated fee limit of \$500,000.00 (including contingencies and GST).

INTENT

The intent of this report is to seek Council's approval to award Consultant Design Agreement No. 6020-0006 D1 for engineering services for the detailed design of the Nicomekl River Bridge Replacement, as illustrated on the map attached to this report as Appendix "I".

BACKGROUND

The Nicomekl River Bridge provides a key regional connection and is a critical link for the region and Surrey, as it is one of the main links connecting North Surrey with South Surrey. Given the regional significance of this corridor and bridge crossing, the City and the Ministry of Transportation and Infrastructure ("MoTI") have been successfully partnering on the planning and delivery of the bridge replacement, including establishing a formal agreement on the funding contributions, obligations, and responsibilities of the City and MoTI to complete the detailed design of the Nicomekl Bridge Replacement Project. A further agreement with MoTI will be required for the construction of the Nicomekl Bridge Replacement, which will be established as soon as possible, likely in Q2 2021.

There are currently two bridges at the Nicomekl River crossing. The existing single-lane northbound Bailey Bridge requires replacement as it was installed in the 1970's and has a 10,000 kilogram weight restriction, which limits its use for larger vehicles. The existing two-lane timber trestle bridge, which provides a northbound and southbound travel lane, also requires replacement as it does not meet current seismic standards and is reaching the end of its service life.

SCOPE OF WORK

Work within this design contract involves engineering services for the design of the Nicomekl River Bridge Replacement. The design contract will be led by the City, in collaboration with and design reviews completed by MoTI. Specifically, the design will include the following improvements:

- Two travel lanes northbound and two travel lanes southbound from the Highway 99 and King George Boulevard interchange to Crescent Road;
- Improved neighbourhood access and circulation to Nicomekl Road from King George Boulevard;
- Inclusion of cycling and pedestrian facilities;
- Improved pedestrian connectivity to the Nicomekl Riverfront Park through the inclusion of a pedestrian connection across King George Boulevard; and
- Improved seismic and coastal flooding resiliency.

These improvements will serve to reduce congestion and delays, along with meeting growing capacity needs and providing multi-modal infrastructure for all road users.

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

The design work is expected to start January 4, 2021 and be completed by late August 2021. Construction of this project is anticipated to begin in Fall 2021, subject to Council and the Province approval of funding and securing the necessary environmental permits. Construction would then be anticipated to be completed by Fall 2022.

The total capital value of the project is estimated to be \$18-20 million.

EVALUATION

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

- Associated Engineering (B.C.) Ltd.;
- COWI North America Ltd.;
- McElhanney Consulting Services Ltd. ("McElhanney"); and
- WSP Canada Group Ltd. ("WSP")

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.

WSP did not submit a proposal. The three submissions received 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. Their total engineering fee is competitive, is considered reasonable for this type of engineering assignment and represents the best value for the City. Staff therefore recommend that this assignment be awarded to McElhanney.

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 themes of Built Environment and Neighbourhoods, and Infrastructure. Specifically, this agreement supports the following Desired Outcomes ("DO"):

- Neighbourhoods and Urban Design DO₂: Surrey is well-connected within the city and to the rest of the region by fast and efficient public transit and active all-ages-and-abilities transportation infrastructure; and
- Transportation DO₁₁: An integrated and multi-modal transportation network offers affordable, convenient, accessible and safe transportation choices within the community and to regional destinations.

FUNDING

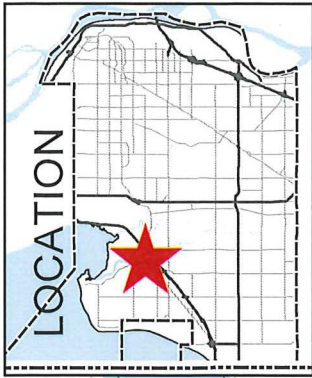
At the December 7, 2020 Regular Council Meeting, as part of Corporate Report No. R181; 2020, Council approved entering into an Agreement with MoTI to jointly fund this project. Funding for the design services is jointly funded 50/50 by the City and MoTI, with MoTI's contribution being up to \$1 million towards the design. Funding for the City's portion of the design is committed as part of the 2021 Transportation Budget.





Scott Neuman, P.Eng.
General Manager, Engineering

VJ/AP/cc

Appendix "I" –Map of Project Location – Contract No. 6020-006 D1



LEGEND

-  Project Location
-  Parks

Produced by GIS Section: 03-Dec-2020, P205934

Scale: 1:8,000 



Nicomekl River Bridge Replacement

ENGINEERING DEPARTMENT

The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of Surrey. This information is provided for information and convenience purposes only. Lot sizes, Legal descriptions and encumbrances must be confirmed at the Land Title Office.