

Contract Award for Professional Engineering Services to WSP Canada Incorporated - Ariba Document Number 3151539512

Date: May 12, 2022

To: Infrastructure and Environment Committee

From: Chief Engineer and Executive Director, Engineering and Construction Services and Chief Procurement Officer, Purchasing and Materials Management

Wards: 8 (Eglinton-Lawrence) and 20 (Scarborough Southwest)

SUMMARY

The purpose of this report is to advise of the results of Request for Proposal, Ariba Document Number 3151539512, Contract Number Request for Proposal-21ECS-LU-01FPD12, for professional engineering services associated with detailed design, construction administration and post construction services for the Basement Flooding Protection Program Assignments 34-01, 34-02, 34-03, 34-05, 34-11 and 40-11, and request the authority to enter into an agreement with WSP Canada Incorporated in the amount of \$29,391,010 net of all applicable taxes and charges, (\$29,908,292 net of HST recoveries).

RECOMMENDATIONS

The Chief Engineer and Executive Director, Engineering and Construction Services and the Chief Procurement Officer, Purchasing and Materials Management recommend that:

1. The Infrastructure and Environment Committee, in accordance with Section 195-8.4 of the Toronto Municipal Code Chapter 195 (Purchasing By-Law), grant authority to the Chief Engineer and Executive Director, Engineering and Construction Services to negotiate and enter into an agreement with WSP Canada Incorporated, being the highest overall scoring proponent meeting the requirements of Request for Proposal, Ariba Document Number 3151539512 to provide detailed design, services during construction and post construction for Assignments 34-01/02/03/05/11 and 40-11, under the Basement Flooding Protection Program Phase 4, in the total amount of \$29,391,010 net of all applicable taxes, \$29,908,292 net of HST recoveries as follows:

- a) Detailed design and construction contract administration, in an amount not to exceed \$28,983,060 net of all applicable taxes and charges (\$29,493,162 net of HST recoveries), including labour, disbursements, provisional allowances and contingency amounts; and
- b) Post construction services in an amount not to exceed \$407,950 net of all applicable taxes and charges, (\$415,130 net of HST recoveries), including labour, disbursements, provisional allowances and contingency amounts.

FINANCIAL IMPACT

The total contract award is \$29,391,010 net of all applicable taxes. The total cost to the City is \$29,908,292 net of HST recoveries.

Funding is available in the 2022 Approved Capital Budget and 2023-2031 Approved Capital Plan for Toronto Water under account CWW421-15-15 (Basement Flooding Design - Group 4), with forecasted expenditures as shown in Table 1 below (net of HST recoveries).

Table 1 - Forecasted Expenditures

Year	Forecasted Expenditures(net of HST recoveries)
2022	\$3,000,000
2023	\$5,200,000
2024	\$4,000,000
2025	\$6,500,000
2026	\$4,525,000
2027	\$3,550,000
2028	\$2,868,162
2029	\$100,000
2030	\$165,130
Total	\$29,908,292

The Chief Financial Officer and Treasurer has reviewed this report and agrees with the financial impact information.

DECISION HISTORY

At its meetings of September 24, 2008 and September 21, 2011, Council adopted criteria to prioritize and sequence recommended Basement Flooding Protection Program projects that are identified through completed studies to protect the greatest number of properties as soon as possible, within approved budgets, as appropriate funding opportunities are available and in coordination with other capital project and population growth needs in the area. The Council adopted criteria and the corresponding staff reports can be found at:

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2008.EX23.16>

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2011.PW7.6>

At its meeting of June 18, 2019, Council granted the authority to apply for federal funding under the Disaster Mitigation and Adaptation Fund and enter into and execute any agreements, including any amendments, with the Government of Canada under the Disaster Mitigation and Adaptation Fund on terms and conditions satisfactory to the City Manager and the Chief Financial Officer and Treasurer and in a form satisfactory to the City Solicitor. The Council adopted item and the corresponding staff reports can be found at:

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2019.EX6.4>

At its meeting of November 25 and 26, 2020, Council adopted the amended threshold per benefitting property at the preliminary design phase, and direct that projects identified through completed Basement Flooding studies proceed to detailed design and construction, if the cost per benefitting property, as determined during the preliminary design phase, is less than the amended threshold. The Council adopted item and the corresponding staff reports can be found at:

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2020.IE17.5>

At its meeting of December 15, 16 and 17, 2021, Council adopted the 2022 Rate Supported Budgets - 2022 Water and Wastewater Consumption Rates and Service Fees. In support, a briefing note titled "2022 Capital Budget Briefing Note - Basement Flooding Protection Program - Program Status Update and Project List: 2022 to 2026", contains the updated planned schedule for engineering design and construction of infrastructure upgrades supporting Toronto Water's Basement Flooding Protection Program, including the Midtown Toronto Relief Storm Sewer Project. The Council adopted item and the briefing note can be found at:

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2021.EX28.6>

<https://www.toronto.ca/legdocs/mmis/2021/ex/bqrd/backgroundfile-173775.pdf>

COMMENTS

Background

Since May 2000, the City has experienced multiple extreme storm events that resulted in flooding of more than 14,000 homes, erosion in ravines and watercourses and damage to City infrastructure. Following the August 2005 extreme storm event, which

exceeded the 100 year design storm intensity in areas north of Highway 401, Council established the Basement Flooding Protection Program. This program was initially focused on areas impacted during the May 2000 and August 2005 storms. The Basement Flooding Protection Program was extended citywide in 2013.

The Basement Flooding Protection Program consists of three main components:

- Infrastructure improvements, established through studies of the causes of flooding in a defined drainage area, to reduce the risks of urban flooding;
- A Basement Flooding Protection Subsidy Program, which promotes and provides financial subsidies for the installation of backwater valves, foundation drain modifications and sump pumps; and,
- An education and outreach strategy to advise homeowners of the causes of and solutions to, basement flooding.

As part of the infrastructure improvements, there are 67 Basement Flooding Protection Program Study Areas across the entire City. Studies have been completed in the first 43 areas and studies are underway for the remaining 24 areas.

Basement Flooding Protection Program Study Areas 34 and 40

The Environmental Assessment studies recommended a number of improvements to address basement flooding at locations where chronic and recurring basement flooding problems were identified. The Environmental Assessment for Basement Flooding Protection Program Study Area 34, generally bounded by Eglinton Avenue East, Anndale Road/Canadian National Railway, Victoria Park Avenue, and Winter Avenue, was completed in 2018. South and east of Area 34 is Basement Flooding Protection Study Area 40, generally bounded by St. Clair Avenue West, Highway 401, Allen Road and Bayview Avenue, for which the Environmental Assessment study was completed in 2018. The Environmental Assessment Study Areas 34 and 40 are presented in Figures 1 and 2, respectively.

Figure 1: Environmental Assessment Study Area 34

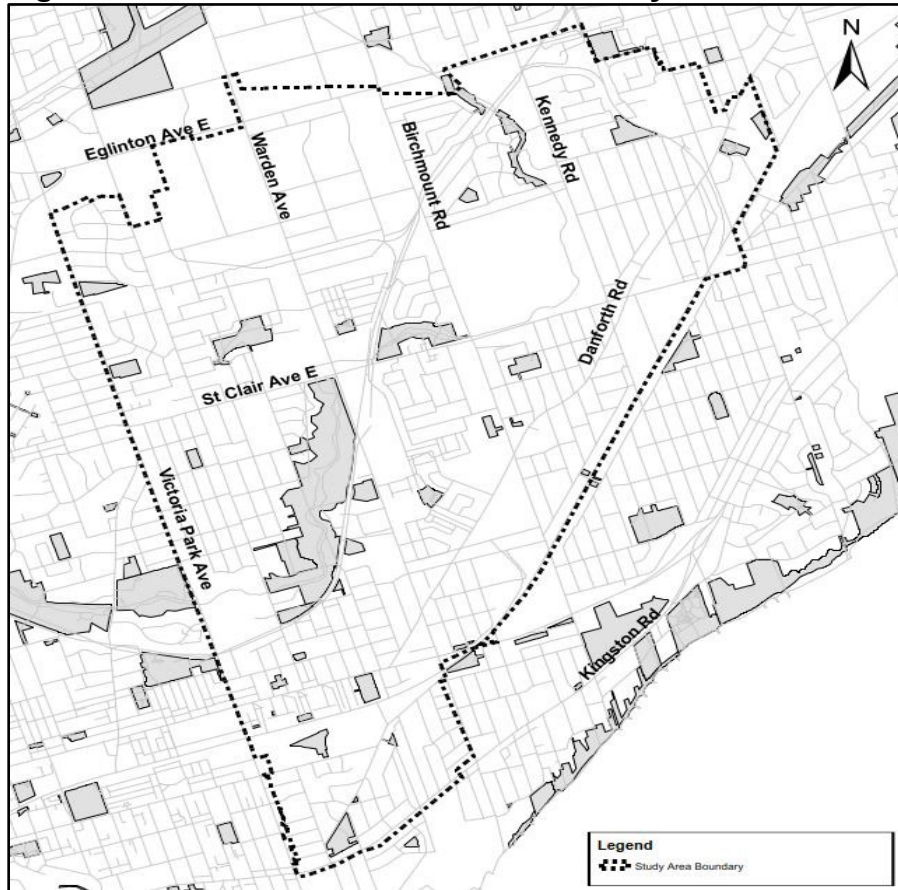
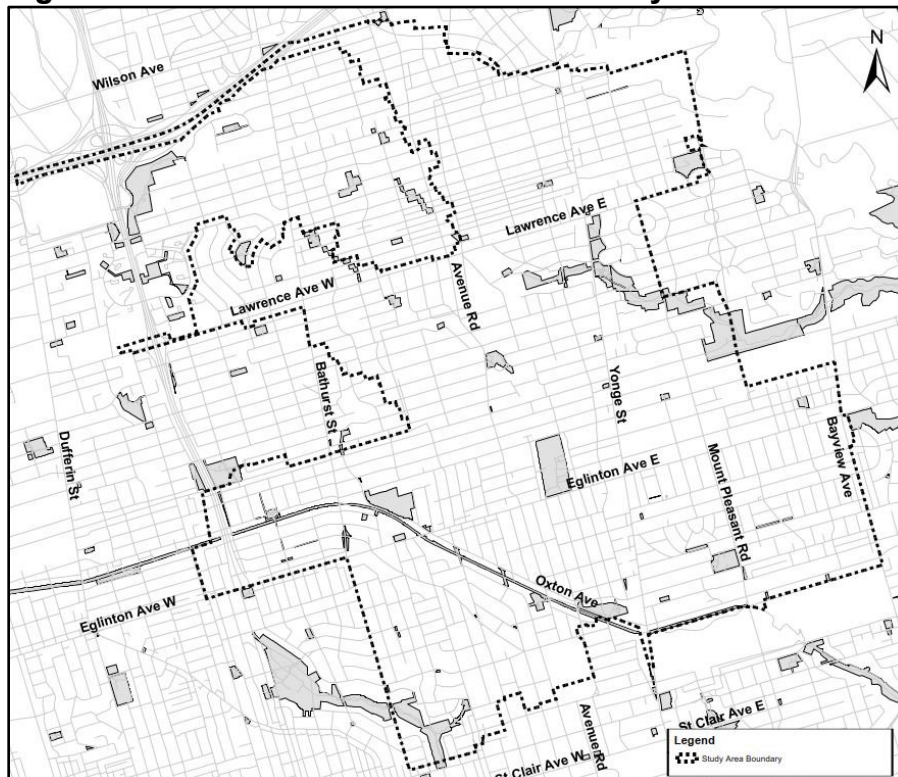


Figure 2: Environmental Assessment Study Area 40



Assignments (grouping of projects) identified in the Environment Assessment moved into Preliminary Design and Detailed Design only if they met the cost per benefitting property criteria of \$68,000. Figures 3, 4 and 5 present the locations of assignments, within Study Areas 34 and 40, which met this criterion, and which are the subject of the engineering design work associated with this report. The system upgrades associated with this work include:

- 10,900 metres of 300 mm to 1,350 mm diameter storm sewers, including 600 metres of varying sized box culvert;
- 960 metres of 200 mm to 1500 mm diameter sanitary sewer replacements;
- 2,400 metres of watermain replacements as part of Toronto Water's state of good repair program;
- 3,400 metres of road resurfacing as part of Transportation Services' state of good repair program.

The detailed design for these assignments is expected to commence in mid-2022 with construction planned to start in 2024.

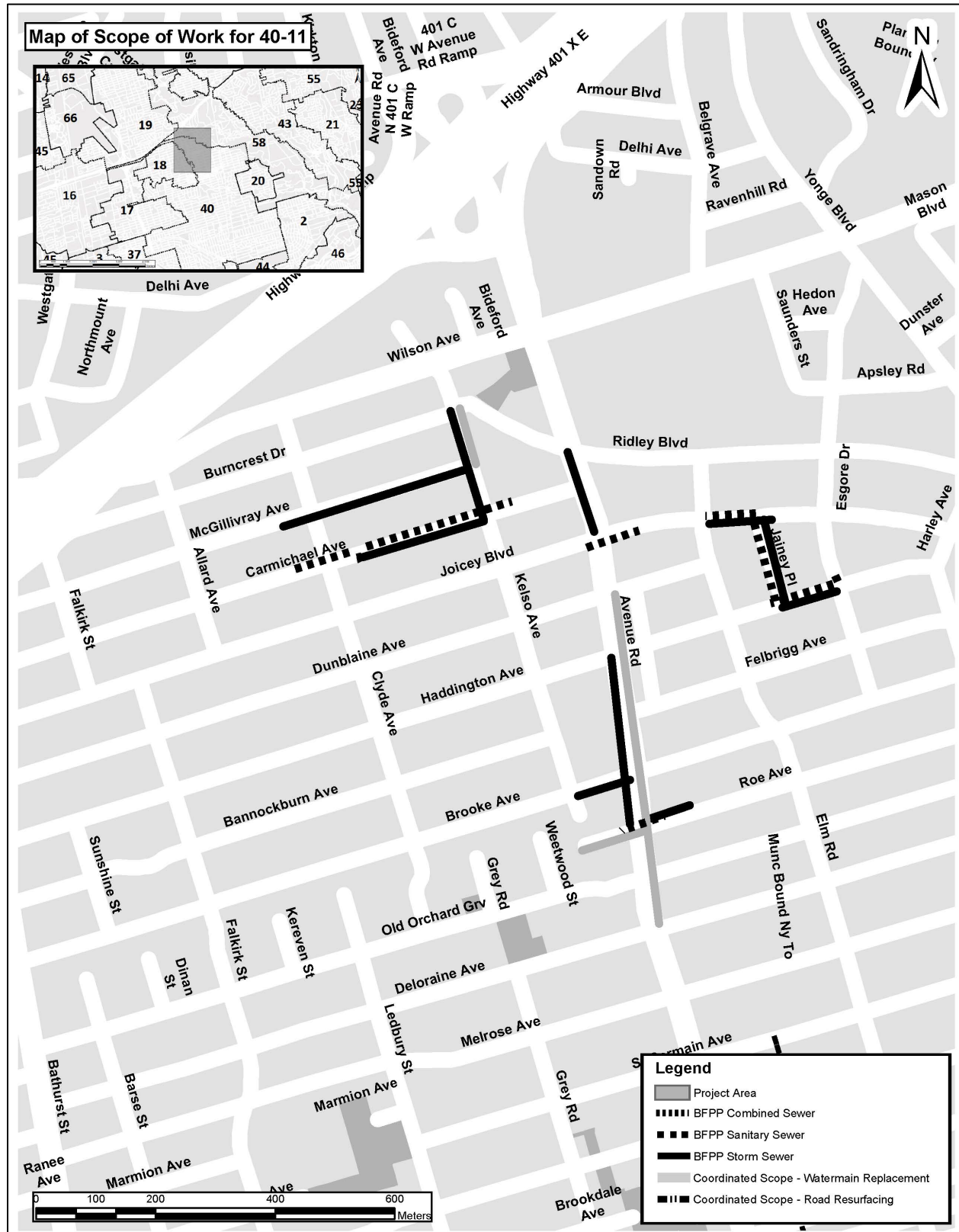
Figure 3: Basement Flooding Protection Program Assignments 34-01, 34-02 and 34-03 Scope of Work



**Figure 4: Basement Flooding Protection Program Assignments 34-05, 34-11
Scope of Work**



Figure 5: Basement Flooding Protection Program Assignment 40-11 Scope of Work



Procurement Process

A Request for Proposal, Ariba Document Number 3151539512, was issued to select up to two highest overall point score qualified Suppliers to provide the detailed design, construction administration and post construction engineering services for DDCA12 (Assignments 34-01/02/03/05/11 and 40-11) and DDCA13 (Assignments 36-01/03/06/09/11/17 and 41-03/06) under the Basement Flooding Protection Program Phase 4 for Engineering and Construction Services Division.

Request for Proposal, Ariba Document Number 3151539512 was advertised on September 17, 2021, on the City's internet website and seven (7) proposals were submitted electronically in Ariba on the closing date of December 1, 2021, from the following Suppliers:

1. AECOM Canada Limited
2. GHD Limited
3. IBI Group Professional Services (Canada) Incorporated
4. Municipal Infrastructure Group Limited
5. Robinson Consultants Incorporated
6. RV Anderson Associates Limited
7. WSP Canada Incorporated

As required in the Request for Proposal, the proposal submission included a separate, sealed cost proposal envelope.

A formal evaluation team comprised of three (3) Engineering and Construction Services staff evaluated the seven (7) proposals in accordance with the pre-established criteria outlined in the Request for Proposal. A minimum threshold score of 70% (56 out of 80 points) was required for proponents to proceed to have their cost proposal opened and evaluated.

Of the seven (7) technical proposals submitted, all seven (7) technical proposals successfully passed the minimum threshold score of 70%, which allowed them to proceed to the cost of services evaluation. The cost proposals were scored and added to the technical proposal, resulting in overall scores for the seven (7) proponents ranging from 73.17 to 85.61.

On completion of the process, the proposal from WSP Canada Incorporated was ranked first with the highest overall point score followed by IBI Group Professional Services (Canada) Incorporated having the second highest overall point score. Consequently, pursuant to the terms of the Request for Proposal, WSP Canada Incorporated has been recommended for award of DDCA12 Assignments 34-01/02/03/05/11 and 40-11 and IBI Group Professional Services (Canada) Incorporated is being recommended for award of DDCA13 Assignments 36-01/03/06/09/11/17 and 41-03/06.

Following the review of the proposals submitted, and in accordance with the pre-established evaluation outlined in Part 5, Section 2.4 in the Request for Proposal, the selection committee concluded that the proposal submitted by WSP Canada Incorporated satisfied the overall project requirements and demonstrated an appropriate

level of effort for the proposed work. The proponent's scores and staff analysis of the evaluation results can be provided to Councillors in an in-camera presentation if requested by members of Council.

In accordance with Section 195-8.2 of the Toronto Municipal code Chapter 195 (Purchasing By-Law), DDCA13 was awarded to IBI Group Professional Services (Canada) Incorporated at the April 20, 2022, Bid Award Panel. The Bid Award Panel meeting Agenda can be found at:

[Bid Award Panel - Meeting 184 - April 20, 2022 \(toronto.ca\)](#)

The Fair Wage Office has reported that the recommended proponent has indicated it has reviewed and understands the Fair Wage Policy and Labour Trades requirements and has agreed to comply fully with both.

CONTACT

Mika Raisanen, P.Eng. Director, Linear Underground Infrastructure, Engineering and Construction Services, Telephone: 416-392-0867, Email: Mika.Raisanen@toronto.ca

Sabrina Dipietro, Manager, Purchasing Client Services, Purchasing and Material Management, Telephone: 416-397-4809, Email: Sabrina.Dipietro@toronto.ca

SIGNATURE

Michael D'Andrea, M.E.Sc., P.Eng.
Chief Engineer and Executive Director, Engineering and Construction Services

Michael Pacholok, JD
Chief Procurement Officer, Purchasing and Materials Management Division