

February 15, 2010

REQUEST FOR PROPOSAL RFP NO. PS10035  
CONSULTING SERVICES FOR THE MODELLING, DESIGN AND SPECIFICATION OF  
FORCEMAINS, GRAVITY SEWERS, AND PUMP STATION UPGRADES

AMENDMENT NO. 1

1.0 RE: PART A - INTRODUCTION - Section 2.2

*CURRENTLY READS:*

- a) Kitsilano forcemain replacement;
- b) Granville Island forcemain / gravity sewer replacement; and
- c) Oak and 6<sup>th</sup> Ave forcemain extension.

A solution to meet the goal is to construct a total of approximately seven hundred and ninety (790) meters ("m") of forcemain installation, approximately four hundred and fifty (450) m of gravity sewer installation and pump station upgrades / modifications at the City's existing Kitsilano and Granville Island Pump stations.

*REPLACE WITH:*

- a) Kitsilano forcemain replacement and extension;
- b) Granville Island forcemain extension / gravity sewer replacement; and
- c) Oak and 6th Ave forcemain and gravity sewer extension.

A solution to meet the goal is to construct a total of approximately nine hundred and fifty (950) meters ("m") of forcemain installation, approximately one thousand and fifty (1050) m of gravity sewer installation and pump station upgrades / modifications at the City's existing Kitsilano, Oak & 6th Ave and Metro Jervis Pump stations.

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2.0 RE: PART A - INTRODUCTION - Section 2.3

*CURRENTLY READS:*

The City's Sewers and Drainage Design Branch is seeking proposals from consultants who will be expected to review and design forcemains, to review and design gravity sewers and to design pump station upgrades at two (2) pump station sites. The work is to take place at the three locations as shown in Section 2.5 of this Part A and is part of the operations plan to remove sanitary flows from the English Bay Interceptor and redirect these to the 8AI with construction scheduled to start early July, 2010. Funding will be provided in part by the Federal Infrastructure Stimulus Plan and the project must be completed by March 31, 2011 in order to qualify.

A full range of consulting services is required for this Project, including but not limited to:

- a) A review of both of the existing Kitsilano and Granville Island Pump Stations' capacities and an evaluation of conceptual designs proposed by the City to determine their suitability and if necessary, the provision of alternative routes for redirecting sanitary flows from the EBI to 8AI;
- b) Using the accepted conceptual design, perform detailed design of forcemains, gravity sewers and pump station upgrades;
- c) Producing detailed Issued for Tender and Issued for Construction drawings as well as technical specifications;
- d) Providing detailed cost estimates and schedule for construction;
- e) Assisting the City with the tendering and selection of Contractor(s);
- f) Inspecting testing and certifying construction, liaising between the Contractor and City, evaluating progress payment requests and providing recommendations to City staff for payment of contractors;
- g) Ensuring all required permits are in place (with assistance from City staff). The Consultant will be required to liaise with and obtain approvals from Metro Vancouver to ensure all design issues are addressed with regards to redirecting and connecting the sanitary piping system to the 8AI; and
- h) Providing as-built drawings and construction log book upon completion of Project.

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*REPLACE WITH:*

The City's Sewers and Drainage Design Branch is seeking proposals from consultants who will be expected to review and design forcemains, to review and design gravity sewers and to design pump station upgrades at up to three (3) pump station sites. The work is to take place at the three locations as shown in Section 2.4 of this Part A and is part of the operations plan to remove sanitary flows from the English Bay Interceptor and redirect these to the 8AI with construction scheduled to start early July, 2010. Funding will be provided in part by the Federal Infrastructure Stimulus Plan and the project must be completed by March 31, 2011 in order to qualify.

A full range of consulting services is required for this Project, including but not limited to:

- a) A review of the existing Kitsilano, Oak and 6th and Metro Jervis Pump Stations' capacities and an evaluation of conceptual designs proposed by the City to determine their suitability and if necessary, the provision of alternative routes for redirecting sanitary flows from the EBI to 8AI. The consultant must complete a hydraulic analysis of all pump stations, forcemains, gravity systems and provide pump station upgrade recommendations for the three mentioned pump stations. In addition, the consultant will provide a preliminary cost estimates of all the pump station upgrades.
- b) Using the accepted conceptual design, perform detailed design of forcemains and gravity sewers. For the purpose of this RFP, the consultant will not carry out any detailed design of the pump station upgrades unless approved in writing by the City. The City will set aside a provisional item of sixty thousand dollars (\$60,000.00) for the detailed design of all pump station upgrades.
- c) Producing detailed Issued for Tender and Issued for Construction drawings as well as technical specifications;
- d) Providing detailed cost estimates and schedule for construction;
- e) Assisting the City with the tendering and selection of Contractor(s);
- f) Inspecting testing and certifying construction, liaising between the Contractor and City, evaluating progress payment requests and providing recommendations to City staff for payment of contractors;
- g) Ensuring all required permits are in place (with assistance from City staff). The Consultant will be required to liaise with and obtain approvals from Metro Vancouver to ensure all design issues are

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addressed with regards to redirecting and connecting the sanitary piping system to the 8A1; and

- h) Providing as-built drawings and construction log book upon completion of Project.

**3.0 RE: PART A - INTRODUCTION - Section 2.4**

***CURRENTLY READS:***

The majority of the proposed Work will take place in stages on three (3) sites within the City as follows:

- a) Kitsilano Forcemain Replacement as outlined in Appendix 9:

Stage I: York Avenue ("Ave."), from Arbutus to Chestnut Street ("St."), forcemain installation;

Stage II: Kitsilano Pump Station upgrades; and

Stage III: Arbutus St., from York Ave. to 1300 block Arbutus, forcemain installation.

- b) Granville Island Forcemain /Gravity Sewer Replacement as outlined in Appendix 8:

Stage I: West ("W.") 2nd Ave., Fir St. to 72 m east of Fir St. and Fir St., from W. 2nd Ave. to lane south ("L/S") of W. 2nd Ave. - forcemain installation;

Stage II: Fir St., from L/S of W. 2nd Ave to W. 4th Ave, gravity main replacement;

Stage III: Downstream separation (gravity), W. 4th Ave, Pine St. to Fir St. -Sanitary / Storm pipes installation; and

Stage IV: Upstream separation (gravity), W. 4th Ave, Fir St. to lane west ("L/W") of Granville St. -Sanitary / Storm pipes installation.

- c) Oak St. & W. 6<sup>th</sup> Ave. Forcemain Extension as outlined in Appendix 10;

Stage I: W. 7th Ave, Laurel St. to Ash St., gravity main installation; and

Stage II: Ash St., from W. 7<sup>th</sup> Ave. to W. 8<sup>th</sup> Ave., gravity main installation.

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*REPLACE WITH:*

The majority of the proposed Work will take place in stages on three (3) sites within the City as follows:

- a) Kitsilano Forcemain Replacement and extension as outlined in Appendix 9:

Stage I: York Avenue ("Ave."), from Arbutus to Chestnut Street ("St."), forcemain installation;

Stage II: Kitsilano Pump Station upgrades; and

Stage III: Arbutus St., from York Ave. to 1300 block Arbutus, forcemain Installation;

Stage IV: Metro Jarvis Pump Station upgrades.

- b) Granville Island Forcemain extension /Gravity Sewer Replacement as outlined in Appendix 8:

Stage I: West ("W.") 2nd Ave., Fir St. to 72 m east of Fir St. and Fir St., from W. 2nd Ave. to lane south ("L/S") of W. 2nd Ave. - forcemain installation;

Stage II: Fir St., from L/S of W. 2nd Ave to W. 4th Ave, gravity main replacement;

Stage III: Downstream separation (gravity), W. 4th Ave, Pine St. to Fir St. - Sanitary / Storm pipes installation; and

Stage IV: Upstream separation (gravity), W. 4th Ave, Fir St. to lane west ("L/W") of Granville St. -Sanitary / Storm pipes installation.

- c) Oak St. & W. 6th Ave. Forcemain & Gravity Main Extension as outlined in Appendix 10;

Stage I: W. 7th Ave, Laurel St. to Ash St., gravity main installation; and

Stage II: Ash St., from W. 7th Ave. to W. 8th Ave., gravity main installation.

Stage III: Oak & 6th Pump Station upgrades;

Stage IV: Laurel forcemain extension.

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4.0 **RE: SCHEDULE A - REQUIREMENTS - Section 6.5**

*CURRENTLY READS:*

- a) The Consultant will review the City's conceptual plan to redirect sanitary flows from the EBI to the 8AI by constructing new forcemains, gravity sewers and upgrading the Kitsilano and Granville Island pump stations. The review process will assess the feasibility of the conceptual plan and will include a high level cost and performance analysis to determine if other routes may be better suited to redirect sanitary flows to the 8AI.
- b) The Consultant will review, evaluate, and model the existing Kitsilano, Granville and Metro Jarvis pump stations' capacities and recommend any upgrades required to pump the possible increased design flows via proposed new forcemain / gravity sewers connections to the 8AI.
- c) The Consultant will be required to obtain all required approvals and permits from Metro Vancouver for making new piping connections to the 8AI.
- d) Once a conceptual design has been developed by the Consultant and accepted by the City, the Consultant will be required to determine the detailed engineer's estimate for the proposed design.

*REPLACE WITH:*

- a) The Consultant will review the City's conceptual plan to redirect sanitary flows from the EBI to the 8AI by constructing new forcemains, gravity sewers and upgrading the pump stations. The review process will assess the feasibility of the conceptual plan and will include a high level cost estimates and performance analysis to determine if other routes may be better suited to redirect sanitary flows to the 8AI.
- b) The Consultant will review, evaluate, and model the existing Kitsilano, Oak & 6th and Metro Jarvis pump stations' capacities and recommend any upgrades required to pump the possible increased design flows via proposed new forcemain / gravity sewers connections to the 8AI and provide preliminary cost estimates for all the pump station upgrades.
- c) The Consultant will be required to obtain all required approvals and permits from Metro Vancouver for making new piping connections to the 8AI.
- d) Once a conceptual design has been developed by the Consultant and accepted by the City, the Consultant will be required to determine the detailed engineer's estimate for the proposed design.

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5.0 RE: SCHEDULE A - REQUIREMENTS - Section 6.6 c)

*CURRENTLY READS:*

- c) The Consultant will be required to prepare revised cost estimates at the fifty percent (50%) and ninety five percent (95%) design stages. Items requiring detailed design (including specifications) may include, but are not limited to and by way of example only:
  - i) Sewer pipe locations and materials;
  - ii) Locations of other utilities, depths, manhole locations;
  - iii) Property Service connections;
  - iv) Forcemains requirements: velocity, valves, grade, air release, termination, size and materials;
  - v) Kitsilano pump station upgrades; and
  - vi) Construction drawings specifications.

*REPLACE WITH:*

- c) The Consultant will be required to prepare revised cost estimates at the fifty percent (50%) and ninety five percent (95%) design stages. Items requiring detailed design (including specifications) may include, but are not limited to and by way of example only:
  - i) Sewer pipe locations and materials;
  - ii) Locations of other utilities, depths, manhole locations;
  - iii) Property Service connections;
  - iv) Forcemains requirements: velocity, valves, grade, air release, termination, size and materials;
  - v) Pump station upgrades: The Consultant will not carry out the detailed design of any upgrades to the pump stations unless approved by the City in writing. The City will set aside a provisional item of sixty thousand (\$60,000.00) for the detailed design of all pump station upgrades; and
  - vi) Construction drawings specifications.

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6.0 **RE: SCHEDULE B - Pricing**

*THE FOLLOWING IS ADDED:*

1.4 Provisional Item

Until such time as details of any required upgrades to pump stations become available the City will set aside a provisional amount as follows to cover any such required pump station upgrades:

Provisional amount for pump station upgrades if required:	\$60,000.00
Total Provisional Amount	\$60,000.00

7.0 **RE: APPENDIX 8**

*REPLACE WITH: APPENDIX 8 (AS AMENDED)*

*<http://vancouver.ca/fs/bid/bidopp/RFP/documents/PS10035-Appendix8-Amended.PDF>*

8.0 **RE: APPENDIX 9**

*REPLACE WITH: APPENDIX 9 (AS AMENDED)*

*<http://vancouver.ca/fs/bid/bidopp/RFP/documents/PS10035-Appendix9-Amended.PDF>*

9.0 **RE: APPENDIX 10**

*REPLACE WITH: APPENDIX 10 (AS AMENDED)*

*<http://vancouver.ca/fs/bid/bidopp/RFP/documents/PS10035-Appendix10-Amended.PDF>*

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All other conditions and specifications remain unchanged.

This amendment must be completed, and attached to your RFP form.

If you have already submitted your Tender, this amendment shall be submitted to Purchasing Services Office, 3rd Floor, Suite #320, East Tower, 555 West 12th Avenue, Vancouver, British Columbia, Canada, V5Z 3X7 in an envelope clearly marked "Amendment No. 1 to RFP No. PS10035: Consulting Services for the Modelling, Design and Specification of Force mains, Gravity Sewers, and Pump Station Upgrades" before the closing time of 3:00 PM, Tuesday, March 2nd, 2010.

\_\_\_\_\_  
NAME OF VENDOR

\_\_\_\_\_  
SIGNATURE OF AUTHORIZED SIGNATORY

\_\_\_\_\_  
DATE

Eamonn Savage, CPP  
Contracting Specialist