



THE CITY OF WINNIPEG

REQUEST FOR PROPOSAL

RFP NO. 201-2016

**REQUEST FOR PROPOSAL FOR PROFESSIONAL ENGINEERING SERVICES FOR
DESIGN AND CONTRACT ADMINISTRATION OF THE NORTHEAST INTERCEPTOR
SEWER RIVER CROSSING**

Proposals shall be submitted to:

**The City of Winnipeg
Corporate Finance Department
Materials Management Division
185 King Street, Main Floor
Winnipeg MB R3B 1J1**

TABLE OF CONTENTS

PART A - PROPOSAL SUBMISSION

Form A: Proposal	1
FORM B: PRICES	3

PART B - BIDDING PROCEDURES

B1. Contract Title	1
B2. Submission Deadline	1
B3. Enquiries	1
B4. Confidentiality	1
B5. Addenda	2
B6. Proposal Submission	2
B7. Proposal (Section A)	3
B8. Fees (Section B)	3
B9. Experience of Proponent and Key Personnel (Section C)	4
B10. Technical Proposal (Section D)	5
B11. Management Proposal (Section E)	5
B12. Project Schedule (Section F)	6
B13. Disclosure	6
B14. Qualification	6
B15. Opening of Proposals and Release of Information	7
B16. Irrevocable Offer	7
B17. Withdrawal of Offers	7
B18. Interviews	8
B19. Negotiations	8
B20. Evaluation of Proposals	8
B21. Award of Contract	9

PART C - GENERAL CONDITIONS

C0. General Conditions	1
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PART D - SUPPLEMENTAL CONDITIONS

General	
D1. General Conditions	1
D2. Project Manager	1
D3. Background	1
D4. Scope of Services	2
D5. Ownership of Information, Confidentiality and Non Disclosure	2
Submissions Prior to Start of Services	
D6. Authority to Carry on Business	2
D7. Insurance	2
Schedule of Services	
D8. Commencement	4
D9. Critical Stages	4

PART E - SCOPE OF SERVICES

E1. Design Services	1
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Appendix A – Additional Information

PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

- B1.1 REQUEST FOR PROPOSAL FOR PROFESSIONAL ENGINEERING SERVICES FOR DESIGN AND CONTRACT ADMINISTRATION OF THE NORTHEAST INTERCEPTOR SEWER RIVER CROSSING

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 12:00 noon. Winnipeg time, May 3, 2016.
- B2.2 Proposals determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.
- B2.3 The Project Manager or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. ENQUIRIES

- B3.1 All enquiries shall be directed to the Project Manager identified in D2.
- B3.2 If the Proponent finds errors, discrepancies or omissions in the Request for Proposal (RFP), or is unsure of the meaning or intent of any provision therein, the Proponent shall promptly notify the Project Manager of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.
- B3.3 If the Proponent is unsure of the meaning or intent of any provision therein, the Proponent should request clarification as to the meaning or intent prior to the Submission Deadline.
- B3.4 Responses to enquiries which, in the sole judgment of the Project Manager, require a correction to or a clarification of the RFP will be provided by the Project Manager to all Proponents by issuing an addendum.
- B3.5 Responses to enquiries which, in the sole judgment of the Project Manager, do not require a correction to or a clarification of the RFP will be provided by the Project Manager only to the Proponent who made the enquiry.
- B3.6 All correspondence or contact by Proponents with the City in respect of this RFP must be directly and only with the City's Project Manager. Failure to restrict correspondence and contact to the Project Manager may result in the rejection of the Proponents Proposal Submission.
- B3.7 The Proponent shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Project Manager in writing.

B4. CONFIDENTIALITY

- B4.1 Information provided to a Proponent by the City or acquired by a Proponent by way of further enquiries or through investigation is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Project Manager. The use and disclosure of the confidential information shall not apply to information which:
- (a) was known to the Proponent before receipt hereof; or
 - (b) becomes publicly known other than through the Proponent; or
 - (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.
- B4.2 The Proponent shall not make any statement of fact or opinion regarding any aspect of the Request for Proposals to the media or any member of the public without the prior written authorization of the Project Manager.

B5. ADDENDA

- B5.1 The Project Manager may, at any time prior to the Submission Deadline, issue Addenda correcting errors, discrepancies or omissions in the Request for Proposal, or clarifying the meaning or intent of any provision therein.
- B5.2 The Project Manager will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.
- B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/bidopp.asp>
- B5.2.2 The Proponent is responsible for ensuring that it has received all Addenda and is advised to check the Materials Management Division website for Addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B5.3 The Proponent shall acknowledge receipt of each addendum in Paragraph 9 of Form A: Proposal. Failure to acknowledge receipt of an addendum may render a Proposal non-responsive.

B6. PROPOSAL SUBMISSION

- B6.1 The Proposal shall consist of the following components:
- (a) Form A: Proposal (Section A) in accordance with B7;
 - (b) Fees (Section B) in accordance with B8;
- B6.2 The Proposal should also consist of the following components:
- (a) Experience of Proponent and Key Personnel (Section C) in accordance with B9;
 - (b) Technical Proposal (Section D), in accordance with B10;
 - (c) Management Proposal (Section E) in accordance with B11; and
 - (d) Project Schedule (Section F) in accordance with B12.
- B6.3 Further to B6.1, all components of the Proposal shall be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Proposal.
- B6.4 Further to B6.2, all components of the Proposal should be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Proposal.
- B6.5 Proponents should submit one (1) unbound 8.5" x 11" original (marked "original") including drawings and six (6) copies (copies can be in any size format) for sections identified in B6.1 and B6.2.
- B6.6 Proposal format, including type of binding, number of pages, size of pages and, font, etc., will not be regulated, except that the Proposal should contain a table of contents, page numbering and should be in the Sections identified above. Proponents are encouraged to use their creativity to submit a Proposal which provides the requested information for evaluation and other information which illustrates the strength of their team.
- B6.7 Proponents are advised that inclusion of terms and conditions inconsistent with the Request for Proposal, will be evaluated in accordance with B20.1(a).
- B6.8 The Proposal shall be submitted enclosed and sealed in an envelope/package clearly marked with the RFP number and the Proponent's name and address.

B6.9 Proposals submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.

B6.10 Proposals shall be submitted to:

The City of Winnipeg
Corporate Finance Department
Materials Management Division
185 King Street, Main Floor
Winnipeg MB R3B 1J1

B6.11 Any cost or expense incurred by the Proponent that is associated with the preparation of the Proposal shall be borne solely by the Proponent.

B7. PROPOSAL (SECTION A)

B7.1 The Proponent shall complete Form A: Proposal, making all required entries.

B7.2 Paragraph 2 of Form A: Proposal shall be completed in accordance with the following requirements:

- (a) if the Proponent is a sole proprietor carrying on business in his/her own name, his/her name shall be inserted;
- (b) if the Proponent is a partnership, the full name of the partnership shall be inserted;
- (c) if the Proponent is a corporation, the full name of the corporation shall be inserted;
- (d) if the Proponent is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.

B7.2.1 If a Proposal is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B7.2.

B7.3 In Paragraph 3 of Form A: Proposal, the Proponent shall identify a contact person who is authorized to represent the Proponent for purposes of the Proposal.

B7.4 Paragraph 11 of Form A: Proposal shall be signed in accordance with the following requirements:

- (a) if the Proponent is a sole proprietor carrying on business in his/her own name, it shall be signed by the Proponent;
- (b) if the Proponent is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
- (c) if the Proponent is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, should be affixed;
- (d) if the Proponent is carrying on business under a name other than its own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.

B7.4.1 The name and official capacity of all individuals signing Form A: Proposal should be printed below such signatures.

B7.5 If a Proposal is submitted jointly by two or more persons, the word "Proponent" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Proponents in the Proposal and the Contract, when awarded, shall be both joint and several.

B8. FEES (SECTION B)

B8.1 The Proponent shall Form B: Prices, summarizing all applicable Fees.

- B8.2 The Proposal shall include a Fixed Fee for all disciplines, identified and necessary, for each Scope of Service phase of the Project, which include:
- (a) Preliminary Engineering;
 - (b) Detailed Design and Specification/Contract Document Development;
 - (c) Procurement Process;
 - (d) Resident Services;
 - (e) Non-Resident services; and
 - (f) Record Drawings
- B8.3 Adjustments to Fees will only be considered based on increases or decreases to the Scope of Services approved by the Project Manager.
- B8.3.1 The City will not consider an adjustment to the Fees based on changes in the Project budget or the Final Total Construction Cost.
- B8.4 Notwithstanding C1.1(b), Fees shall include costs for out of town travel, related meals and accommodations for the duration of the Project and shall not be considered an Allowable Disbursement.
- B8.5 The Fee Proposal shall also include an allowance for Allowable Disbursements as defined in C1.1(b), but shall exclude the costs of any soils and hazardous materials investigation during construction.
- B8.5.1 Further to B8.5, Allowances for Disbursements for Underground Structures information have been included on Form B: Prices as the City's estimate of costs for these disbursements. These are to be included in the calculation of total fees proposed by the Proponent.
- B8.6 Notwithstanding C10.1, Fees submitted shall not include the Goods and Services Tax (GST) or Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable.
- B8.7 Payments to Non-Resident Consultants are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).
- B9. EXPERIENCE OF PROPONENT AND KEY PERSONNEL (SECTION C)**
- B9.1 Proposals should include general firm profile information, including years in business, average volume of work, number of employees and other pertinent information for the Proponent and all Sub-Consultants.
- B9.2 Proposals should include details demonstrating the Proponents and Sub-Consultants experience relating to the scope of work identified for this project.
- B9.3 Details demonstrating the history and experience of the Proponent and Sub consultants in providing detailed engineering and contract administration services for the installation of large diameter watermain under waterways by Horizontal Directional Drilling techniques on up to three river crossings of similar scope, size and complexity. The information shall include details with respect to; bore path design, inspection protocols during construction as well as the history and experience of designing and providing contract administration services for the installation large diameter watermain.
- B9.4 For each project in B9.3, the Proponent should submit:
- (a) description of the project;
 - (b) role of the consultant;
 - (c) the project's original contracted cost and final cost;
 - (d) the project's original anticipated schedule and actual project delivery schedule;

- (e) the project owner;
 - (f) reference information (two current names with telephone numbers per project).
- B9.4.1 Where applicable, information should be separated into Proponent and Subconsultant project listings.
- B9.5 Submit the experience and qualifications of the Key Personnel that will be assigned to the project outlining their experience of completing river crossing projects by HDD methods for projects of similar scope, size and complexity, including, and key support team. Include the following information:
 - (a) educational background and degrees;
 - (b) professional recognition;
 - (c) job title;
 - (d) years of experience in current position;
 - (e) years of experience with existing employer.
- B9.6 For each person identified, list at least two similar in scope river crossing projects in which they have played a primary role. Provide the following:
 - (a) Description of project;
 - (b) Role of the person;
 - (c) Project Owner; and
 - (d) Reference information (two current names with telephone numbers per project).

B10. TECHNICAL PROPOSAL (SECTION D)

- B10.1 The Technical Proposal should address the deliverables and associated task requirements required by the Scope of work. It should clearly identify and explain work activities and identify all assumptions and interpretations.
- B10.2 The Technical Proposal should address:
 - (a) the team's understanding of the broad technical requirements;
 - (b) the team's understanding of the constraints that will affect the undertaking of the work;
 - (c) the proposed Project budget;
 - (d) any activities and services to be provided by the City;
 - (e) the deliverables of the Project.
 - (f) the team's proposed Project methodology with respect to the information provided within this RFP; and
 - (g) any other issue that conveys your team's understanding of the Project requirements.
- B10.3 For each person identified in B9.5, list the percent of time to be dedicated to the Project in accordance with the Scope of Services identified in 0.

B11. MANAGEMENT PROPOSAL (SECTION E)

- B11.1 Describe your firm's project management approach and team organization during the performance of Services, so that the evaluation committee has a clear understanding of the methods the Proponent will use in the delivery of this Project.
- B11.2 Methodology should identify:
 - (a) job function for each identified individual and group of individuals so identified;
 - (b) time estimates by work activity and in total for each identified individual;

- (c) an organizational chart for the Project.

B12. PROJECT SCHEDULE (SECTION F)

- B12.1 Proponents should present a carefully considered schedule using Microsoft Project or similar project management software, complete with resource assignments (key designers), durations (weekly timescale) and milestone dates or events. The schedule should address each requirement of the Scope of Services.
- B12.2 The Proponent's schedule should include critical dates for review and approval processes by the City and other organizations anticipated during the design and tendering phases of the Project. Reasonable times should be allowed for completion of these processes.
- B12.3 The Proponent should clearly develop a schedule that is in the best interest of the City of Winnipeg in terms of contractor availability, construction cost, and least impact to the water distribution network etc.

B13. DISCLOSURE

- B13.1 Various Persons provided information or services with respect to this Work. In the City's opinion, this relationship or association does not create a conflict of interest because of this full disclosure. Where applicable, additional material available as a result of contact with these Persons is listed below.
- B13.2 The Persons are:
- (a) Associated Engineering (Sask.) Ltd. (AE)

B14. QUALIFICATION

- B14.1 The Proponent shall:
- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Proponent does not carry on business in Manitoba, in the jurisdiction where the Proponent does carry on business; and
- (b) be financially capable of carrying out the terms of the Contract;
- (c) have all the necessary experience, capital, organization, and equipment to perform the Services in strict accordance with the terms and provisions of the Contract;
- (d) have or establish and staff an office in Winnipeg for the duration of the Project.
- B14.2 The Proponent and any proposed Subconsultant (for the portion of the Services proposed to be subcontracted to them) shall:
- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/debar.stm>
- B14.3 The Proponent and/or any proposed Subconsultant (for the portion of the Services proposed to be subcontracted to them) shall:
- (a) have successfully carried out services for the programming; design, management of construction and contract administration for architectural and/or engineering projects of similar complexity, scope and value; and to those required for this Project; and
- (b) be fully capable of performing the Services required to be in strict accordance with the terms and provisions of the Contract; and
- (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba);

- (d) have the knowledge and resources to administer the requirements of The Workplace Safety and Health Act (Manitoba) during the construction works associated with this Contract; and
- (e) undertake to meet all licensing and regulatory requirements of the appropriate governing authorities and associations in the Province of Manitoba

B14.4 The Proponent shall submit, within three (3) Business Days of a request by the Project Manager, further proof satisfactory to the Project Manager of the qualifications of the Proponent and of any proposed Subconsultant.

B14.5 The Proponent shall provide, on the request of the Project Manager, full access to any of the Proponent's equipment and facilities to confirm, to the Project Manager's satisfaction, that the Proponent's equipment and facilities are adequate to perform the Services.

B15. OPENING OF PROPOSALS AND RELEASE OF INFORMATION

B15.1 Proposals will not be opened publicly.

B15.2 After award of Contract, the names of the Proponents and the Contract amount of the successful Proponent will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>.

B15.3 To the extent permitted, the City shall treat all Proposal Submissions as confidential. However, the Proponent is advised that any information contained in any Proposal may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B15.4 Following the award of Contract, a Proponent will be provided with information related to the evaluation of its submission upon written request to the Project Manager.

B16. IRREVOCABLE OFFER

B16.1 The Proposal(s) submitted by the Proponent shall be irrevocable for the time period specified in Paragraph 10 of Form A: Proposal.

B16.2 The acceptance by the City of any Proposal shall not release the Proposals of the other responsive Proponents and these Proponents shall be bound by their offers on such Services until a Contract for the Services has been duly executed as herein provided, but any offer shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 10 of Form A: Proposal.

B17. WITHDRAWAL OF OFFERS

B17.1 A Proponent may withdraw its Proposal without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.

B17.1.1 The time and date of receipt of any notice withdrawing a Proposal shall be the time and date of receipt as determined by the Manager of Materials.

B17.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Proposal or the Proponent's authorized representatives named in Paragraph 11 of Form A: Proposal, and only such person, has authority to give notice of withdrawal.

B17.1.3 If a Proponent gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:

- (a) retain the Proposal until after the Submission Deadline has elapsed;
- (b) open the Proposal to identify the contact person named in Paragraph 3 of Form A: Proposal and the Proponent's authorized representatives named in Paragraph 11 of Form A: Proposal; and

- (c) if the notice has been given by any one of the persons specified in B17.1.3(b), declare the Proposal withdrawn.

B17.2 A Proponent who withdraws its Proposal after the Submission Deadline but before its offer has been released or has lapsed as provided for in B16.2 shall be liable for such damages as are imposed upon the Proponent by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

B18. INTERVIEWS

B18.1 The Project Manager may, in his/her sole discretion, interview Proponents during the evaluation process.

B19. NEGOTIATIONS

B19.1 The City reserves the right to negotiate details of the Contract with any Proponent. Proponents are advised to present their best offer, not a starting point for negotiations in their Proposal Submission.

B19.2 The City may negotiate with the Proponents submitting, in the City's opinion, the most advantageous Proposals. The City may enter into negotiations with one or more Proponents without being obligated to offer the same opportunity to any other Proponents. Negotiations may be concurrent and will involve each Proponent individually. The City shall incur no liability to any Proponent as a result of such negotiations.

B19.3 If, in the course of negotiations pursuant to B19.2 or otherwise, the Proponent amends or modifies a Proposal after the Submission Deadline, the City may consider the amended Proposal as an alternative to the Proposal already submitted without releasing the Proponent from the Proposal as originally submitted.

B20. EVALUATION OF PROPOSALS

B20.1 Award of the Contract shall be based on the following evaluation criteria:

- (a) compliance by the Proponent with the requirements of the Request for Proposal or acceptable deviation therefrom: (pass/fail)
- (b) qualifications of the Proponent and the Subconsultants, if any, pursuant to B14: (pass/fail)
- (c) Fees; (Section B) 40%
- (d) Experience of Proponent and Key Personnel; (Section C) 30%
- (e) Technical Proposal; (Section D) 20%
- (f) Management Proposal (Section E) 5%
- (g) Project Schedule. (Section F) 5%

B20.2 Further to B20.1(a), the Award Authority may reject a Proposal as being non-responsive if the Proposal Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Proposal, or waive technical requirements or minor informalities or irregularities if the interests of the City so require.

B20.3 Further to B20.1(b), the Award Authority shall reject any Proposal submitted by a Proponent who does not demonstrate, in its Proposal or in other information required to be submitted, that it is responsible and qualified.

B20.4 Further to B20.1(c), Fees will be evaluated based on Fees submitted in accordance with B8.

- B20.5 Further to B20.1(d), Experience of Proponent and Key Personnel will be evaluated considering the experience of the organization on projects of similar size and complexity as well as other information requested.
- B20.6 Further to B20.1(e), Technical Proposal will be evaluated considering the experience and qualifications of the Key Personnel and Subconsultant personnel on Projects of comparable size and complexity.
- B20.7 Further to B20.1(f), Management Proposal will be evaluated considering your firm's understanding of the City's Project, project management approach and team organization.
- B20.8 Further to B20.1(g), Project Schedule will be evaluated considering the Proponent's ability to comply with the requirements of the Project.
- B20.9 Notwithstanding B20.1(d) to B20.1(g), where Proponents fail to provide a response to B6.2(a) to B6.2(d), the score of zero may be assigned to the incomplete part of the response.
- B20.10 Proposals will be evaluated considering the information in the Proposal Submission and any interviews held in accordance with B18.

B21. AWARD OF CONTRACT

- B21.1 The City will give notice of the award of the Contract, or will give notice that no award will be made.
- B21.2 The City will have no obligation to award a Contract to a Proponent, even though one or all of the Proponents are determined to be responsible and qualified, and the Proposals are determined to be responsive.
- B21.2.1 Without limiting the generality of B21.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Services;
 - (b) the prices are materially in excess of the prices received for similar services in the past;
 - (c) the prices are materially in excess of the City's cost to perform the Services, or a significant portion thereof, with its own forces;
 - (d) only one Proposal is received; or
 - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B21.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Proponent submitting the most advantageous offer.
- B21.4 The City may, at its discretion, award the Contract in phases.
- B21.5 Notwithstanding Paragraph 6 of Form A: Proposal and C4, the City will issue a Letter of Intent to the successful Proponent in lieu of execution of a Contract.
- B21.5.1 The Contract documents as defined in C1.1(n)(ii) in their entirety shall be deemed to be incorporated in and to form a part of the Letter of Intent notwithstanding that they are not necessarily attached to or accompany said Letter of Intent.
- B21.6 The form of Contract with the City of Winnipeg will be based on the Contract as defined in C1.1(n).
- B21.7 Following the award of Contract, a Proponent will be provided with information related to the evaluation of its Proposal upon written request to the Project Manager.

B21.8 If, after the award of Contract, the Project is cancelled, the City reserves the right to terminate the Contract. The Consultant will be paid for all Services rendered up to time of termination.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Consultant Services* (Revision 2010-10-01) are applicable to the Services of the Contract.
- C0.1.1 The *General Conditions for Consultant Services* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/gen_cond.stm.
- C0.2 A reference in the Request for Proposal to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Consultant Services*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

- D1.1 In addition to the *General Conditions for Consultant Services*, these Supplemental Conditions are applicable to the Services of the Contract.

D2. PROJECT MANAGER

- D2.1 The Project Manager is:

Stacy Cournoyer, P. Eng

Email: scournoyer@winnipeg.ca

Telephone No. 204 986-2142

- D2.2 At the pre-commencement meeting, the Project Manager will identify additional personnel representing the Project Manager and their respective roles and responsibilities for the Services.

- D2.3 Proposal Submissions must be submitted to the address in B6.10

D3. BACKGROUND

- D3.1 The Northeast Interceptor collects wastewater from the northeast quadrant of Winnipeg and conveys it to the North End Sewage Treatment Plant (NEWPCC). The last section of the interceptor contains a siphon. This allows all flows from the Northeast Interceptor to cross the Red River to NEWPCC. This crossing is located just south of the Chief Peguis Trail Bridge.

This river crossing was constructed in the 1970's and consists of 800mm and 500mm diameter siphons that were laid on the bottom of the Red River. Two chambers, one on each side of the river, with gates were constructed to allow isolation of each pipe. The chamber also includes provisions for a third siphon pipe, which would be constructed when additional capacity was required. The sewer system upstream currently experiences surcharging during wet weather events, and some of the areas serviced by the Interceptor, such as Transcona, currently have below City standard basement flood protection.

The Water and Waste Department engaged Associated Engineering (Sask.) Ltd. (AE) to provide engineering services to review various options to upgrade the capacity of the Northeast Interceptor river crossing. From this evaluation, it was determined that the most advantageous option was the installation of single, dual contained sewer crossing by Horizontal Directional Drilling (HDD) techniques (see sketch of Option 2 in Appendix A. This would also include two new siphon chambers sized to allow for an additional sewer crossing to be constructed in the future, should it be required. The total project cost including construction and engineering is estimated to be \$9.3 million (Class 4 cost estimate as per Association of Advancement of Cost Engineering (AACE) standards).

- D3.1.1 The Department can provide the Northeast Interceptor Crossing Option Assessment Study prepared by Associated Engineering (Sask.) Ltd. (AE) upon request.
- D3.2 The Department requires detailed engineering and contract administration services to install this sewer crossing by HDD methods. This sewer would connect to the existing Interceptor Sewer through two new siphon chambers sized to accommodate the new pipe and to allow for an additional sewer crossing to be constructed in the future, should it be required. The existing siphon chambers would remain in place.

D4. SCOPE OF SERVICES

D4.1 The Services required under this Contract in general but not limited to shall consist of the following services:

D4.2 Preliminary Engineering;

- (a) Preliminary Design Services;
 - (i) Geotechnical Investigations
 - (ii) Confirm hydraulically feasible solution
 - (iii) Preliminary Design Report
 - (iv) Preliminary Design Review Meeting
- (b) Detailed Design
 - (i) Detailed Design Services
 - (ii) Detailed Design Review Meeting
- (c) Pre Qualifications of HDD Contractors;
- (d) Tendering and Procurement
- (e) Non Resident Contract Administration Services
- (f) Resident Contract Administration Services
- (g) Record Drawings.

D5. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE

D5.1 The Contract, all deliverables produced or developed, and information provided to or acquired by the Consultant are the property of the City and shall not be appropriated for the Consultants own use, or for the use of any third party.

D5.2 The Consultant shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Project Manager.

D5.3 The following shall be confidential and shall not be disclosed by the Consultant to the media or any member of the public without the prior written authorization of the Project Manager;

- (a) information provided to the Consultant by the City or acquired by the Consultant during the course of the Work;
- (b) the Contract, all deliverables produced or developed; and
- (c) any statement of fact or opinion regarding any aspect of the Contract.

D5.4 A Consultant who violates any provision of D5 may be determined to be in breach of Contract.

SUBMISSIONS PRIOR TO START OF SERVICES

D6. AUTHORITY TO CARRY ON BUSINESS

D6.1 The Consultant shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Consultant does not carry on business in Manitoba, in the jurisdiction where the Consultant does carry on business, throughout the term of the Contract, and shall provide the Project Manager with evidence thereof upon request.

D7. INSURANCE

D7.1 The Consultant shall procure and maintain, at its own expense and cost, insurance policies with limits no less than those shown below.

- D7.2 As a minimum, the Consultant shall, without limiting its obligations or liabilities under any other contract with the City, procure and maintain, at its own expense and cost, the following insurance policies:
- (a) Comprehensive or Commercial General Liability Insurance including:
 - (i) an inclusive limit of not less than \$2,000,000 for each occurrence or accident with a minimum \$2,000,000 Products and Completed Operations aggregate and \$5,000,000 general aggregate;
 - (ii) all sums which the Consultant shall become legally obligated to pay for damages because of bodily injury (including death at any time resulting therefrom) sustained by any person or persons or because of damage to or destruction of property caused by an occurrence or accident arising out of or related to the Services or any operations carried on in connection with this Contract;
 - (iii) coverage for Products/Completed Operations, Blanket Contractual, Consultant's Protective, Personal Injury, Contingent Employer's Liability, Broad Form Property Damage, Employees as Additional Insureds, and Non-Owned Automobile Liability;
 - (iv) a Cross Liability clause and/or Severability of Interest Clause providing that the inclusion of more than one Insured shall not in any way affect the rights of any other Insured hereunder in respect to any claim, demand, suit or judgment made against any other Insured;
 - (b) if applicable, Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Consultant directly or indirectly in the performance of the Service. The Limit of Liability shall not be less than \$2,000,000 inclusive for loss or damage including personal injuries and death resulting from any one accident or occurrence.
 - (c) Professional Errors and Omissions Liability Insurance including:
 - (i) an amount not less than \$5,000,000 per claim and \$5,000,000 in the aggregate.
- D7.2.1 The Consultant's Professional Errors and Omissions Liability Insurance shall remain in force for the duration of the Project and for twelve (12) months after total performance.
- D7.3 The policies required in D7.2(a) shall provide that the City is named as an Additional Insured thereunder and that said policies are primary without any right of contribution from any insurance otherwise maintained by the City.
- D7.4 The Consultant shall require each of its Subconsultants to provide comparable insurance to that set forth under D7.2(a) and D7.2(c).
- D7.5 The Consultant shall provide the Project Manager with a certificate(s) of insurance for itself and for all of its Subconsultants, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Services, but in no event later than the date specified in C4.1 for the return of the executed Contract. Such Certificates shall state the exact description of the Services and provide for written notice in accordance with D7.8.
- D7.6 The Consultant may take out such additional insurance as it may consider necessary and desirable. All such additional insurance shall be at no expense to the City.
- D7.7 All insurance, which the Consultant is required to obtain with respect to this Contract, shall be with insurance companies registered in and licensed to underwrite such insurance in the Province of Manitoba.
- D7.8 The Consultant shall not cancel, materially alter, or cause any policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the City.

SCHEDULE OF SERVICES

D8. COMMENCEMENT

- D8.1 The Consultant shall not commence any Services until it is in receipt of a notice of award from the City authorizing the commencement of the Services.
- D8.2 The Consultant shall not commence any Services until:
- (a) the Project Manager has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D6;
 - (ii) evidence of the insurance specified in D7;
 - (b) the Consultant has attended a meeting with the Project Manager, or the Project Manager has waived the requirement for a meeting.

D9. CRITICAL STAGES

- D9.1 The Consultant shall achieve critical stages of the Services for this Contract in accordance with the following requirements:
- (a) Substantial Performance to be achieved no later than May 26, 2017.
 - (b) Total Performance to be achieved no later than June 16, 2017.

PART E - SCOPE OF SERVICES

E1. DESIGN SERVICES

E1.1 Orientation Meeting

- (a) Attend a mandatory meeting with the Engineering Services Division of the Department to review project expectations and limits.

E1.2 Preliminary Engineering

(a) Preliminary Design Services

(i) Geotechnical Engineering Services

- (i) Historical Geotechnical investigations from the construction of the Settlers Bridge and test-hole information from the fall of 2012 have been included in the Appendix A.
- (ii) Additional Geotechnical investigations may be required to determine:
 - i. the existing soil strata and ground water conditions and the impact to the HDD process including the potential for sloughing when drilling through wet silts,
 - ii. Characterization of the bedrock in the vicinity of the proposed crossing location,
 - iii. the competency of the bedrock and the potential for hydro fracturing and any other factors that could affect the drilling process.
- (iii) Complete a detailed River Bank slope stability analysis and review all proposed work with the River Bank Management Engineer. Provide any geotechnical reports and documents required to assist the Department with acquiring a valid Waterways By-law Permit prior to any construction activities.

(ii) Confirm hydraulically feasible solution

- (i) Undertake a detailed review of the Northeast Interceptor sewer system hydraulics to confirm flow requirements, infrastructure sizing, and confirm the solution.
- (ii) The solution should be assessed to ensure it works today and in the future (2037) design horizon. The proposed design solution should not cause a predicted increased surcharge such that the risk of basement flooding in other parts of the catchment is increased. The proposed design solution should not cause a predicted increase in spill detriment at combined sewer overflow locations. An assessment of the performance of the solution for the 2067 design horizon is also required.
- (iii) The hydraulic modeling software to be used is InfoWorks CS. Any changes to the model networks or associated files require a change control document and agreement by the city (proposed changes, why they are needed and the impact on results).
- (iv) CSO detriment should be assessed using the 1992 typical year rainfall and river levels for the City. Surcharge and flooding detriment should be assessed using 5 year and 10 year McLaren design rainfall events for Combined and wastewater sewer networks respectively and the 5 year summer river level.
- (v) A copy of the City InfoWorks CS hydraulic model database with the associated model files will be made available for proponents by the Project Manager upon request to assist them in preparing their proposal.

(iii) Preliminary Design Report

- (i) Prior to commencement of Design Services, prepare a report documenting the review of Northeast Interceptor sewer system hydraulics. The review report should outline methodologies, data, assumptions and techniques used in completing items listed in sub-section E1.2, Preliminary Design Services. The report should also identify any additional survey requirements, to address

missing data, confirm assumptions or to determine site conditions. The report should also demonstrate the proposed solution causes no CSO or Basement Flooding detriment under the scenarios previously outlined in section E1.2,(ii),(iv).

- (iv) Preliminary Design Review Meeting
 - (i) Prior to commencement of Design Services, a Preliminary Design review meeting is to be held ensure to a robust hydraulically feasible design is developed.
 - (ii) A solution model database is required at this stage and with all networks and model files associated with the preliminary report assessments.
- (b) Detailed Design
 - (i) Recommend an appropriate pipe material that is suitable for installation by HDD methods.
 - (ii) Develop horizontal and vertical alignments (Bore Path) for the installation of the new Interceptor Sewer main.
 - (iii) Provide detailed engineering drawings for the construction of new siphon inlet and outlet chambers that may be required.
 - (iv) The alignment of the existing Interceptor and siphon chamber east of the Red River is in close proximity to the property at 60 Whellams Lane, particularly a newly built multi-story apartment building. Coordinate and consult with Devonshire Properties Inc. regarding access, noise and other impacts the construction may have on the property.
 - (v) The alignment of the existing Interceptor and siphon chamber west of the Red River is located in the Kildonan Park Goff Course. Construction of the river crossing should be coordinated and staged to minimize the disruption to the golf course.
 - (vi) Provide detailed engineering drawings for the connection of the new Interceptor sewer pipe to the existing Northeast Interceptor sewer.
 - (vii) Complete all necessary horizontal and vertical surveys required to facilitate the work.
 - (viii) Obtain all necessary Regulatory approvals for the new sewer crossing including, but not limited to, Manitoba Conservation Office of Drinking Water, Department of Fisheries and Oceans (DFO), and any approvals required under The Navigable Waters Protection Act.
 - (ix) Prepare Contract documents, technical specifications and detailed construction drawings clearly identifying the scope, materials, and methods identifying all components of the proposed work.
 - (x) All construction drawings are to have a Department drawing number assigned before the work is tendered. Drawing numbers shall be requested from Mr. Stan Wos, telephone 986-7636.
 - (xi) The Bid Opportunity specifications complete with Form B: Unit prices, the construction drawings, and a pre-tender estimate must be provided to the Departments Project Manager at least ten (10) calendar days prior to tendering for review. The Project shall not be tendered without this review.
 - (xii) Submit the required number of completed drawing sets to Underground Structures and other utility companies for review. Ensure any comments or changes from this review are incorporated into the project prior to construction.
 - (xiii) Detailed Design Technical Review meeting is to be held to ensure Complete Design including management of third party risks.
 - (xiv) Any changes to the solution design that impact its hydraulic performance will require further detriment assessments demonstrating zero detriment for the applicable levels of services and a revised solution model database.
- (c) Prequalification of HDD Contractors

- (i) Prepare prequalification documents through the City's Materials Management process to prequalify suitable HDD contractors that may be interested and capable of undertaking this work.
 - (ii) Review all submissions for interested HDD contractors and make recommendations identifying the qualified contractors.
- (d) Procurement
 - (i) Arrange for the Bid Opportunity number with the Materials Management Department and provide the Bid Opportunity package in a PDF format, acceptable to the Materials Management Department
 - (ii) Respond to enquiries from interested contractors during the bidding period.
 - (iii) Review all Bid Submissions and provide a recommendation of Contract Award to the Department

E2. CONTRACT ADMINISTRATION SERVICES

E2.1 Non-resident

- (a) The Project Manager shall have demonstrated experience in the design and contract administration of for the installation of municipal utilities beneath river crossings by HDD techniques.
- (b) Review and comment on all contractor shop drawing submissions
- (c) Review the contractor's operation and construction protocol submissions
- (d) Co-ordinate and monitor the progress of the work to ensure that work is progressing in accordance with the contract documents and the construction protocols ,
- (e) Act as a liaison between the Public, the Contractor, other utilities and the Department to issues that encountered during the course of the work.
- (f) Respond to construction issues that may be raised by the Department, the Contractor, and the Public, Councillors, other utilities and other City Departments.
- (g) Prepare and certify monthly progress payments to the Contractor.
- (h) Review and reconcile extra work claims submitted by the Contractor and make recommendations to the Department for payment; if any.
- (i) Provide detailed reports supporting any construction over expenditures over the tendered contract amount
- (j) Reports are to be promptly made to the Department's contact person regarding unusual or changed site conditions which may or will result in extra work to the Contract.
- (k) Provide a detailed monthly "*Cost to Complete*" report. This report is to include the actual costs to date plus projected costs to complete the Contract including allowances for any unforeseen costs. The report shall identify any expected budget overruns or surpluses.

E2.2 Resident

- (a) Provide Quality Assurance/Quality Control (Qa/Qc) procedures to industry standards for the river crossing.
- (b) Personnel with demonstrated experience in river crossing by HDD methods to be assigned for on-site inspection of the construction work.
- (c) It is expected that the HDD pipe installation will be a 24-hour, 7-day per week process, and appropriate level of inspection service may be required.
- (d) Arrange for regular job meetings on the work site or near the work site throughout the duration of the Contract Work. The meetings are to be attended by the Project Manager or their designate as well as the On-site Inspector, the Contractor, and the Department's contact.
- (e) Minutes of all site meetings shall be recorded and distributed to all in attendance.

- (f) Provide daily/weekly reports to the Department's contact.
- (g) Reports are to be promptly made to the Department's contact person regarding unusual or changed site conditions which may or will result in extra work to the Contract.

E3. PROJECT CLOSE OUT

E3.1 Final Inspections and Project Acceptance

- (a) Provide Qa/Qc procedures for each renewal to the Department and to the City of Winnipeg Standards at all critical project milestones.
- (b) Arrange with Department representatives for inspection of the completed Works and to establish the Project milestones of Substantial Performance and Total Performance of the completed project.
- (c) Complete and submit record drawings of the completed Works to the Supervisor of Drafting of the Water and Waste Department for review within two (2) months of the date of Substantial Performance of the Work.
- (d) Complete all Substantial Performance documentation in accordance with the Manitoba Builders Lien Act.
- (e) Complete and submit Total Performance Documentation in accordance with the City of Winnipeg General Construction Conditions.
- (f) Arrange with Department representatives inspection of the completed Works for Final Acceptance of the Works and to submit the appropriate documentation.

E3.2 Record Drawings

- (a) The preliminary record drawing submission is to consist of a drawing transmittal letter to the Supervisor of Drafting, copied to the Department's Project Manager, and one (1) complete set of drawing prints for the River Crossing
- (b) Record drawings are to include the following information:
 - (i) All new construction details
 - (ii) Complete materials list for all components installed.
 - (iii) All other information specific to the River Crossing.
 - (iv) Date of installation of Works (Substantial Performance).
 - (v) Installation Contractor.
- (c) The reviewed record drawings will be returned with comments (if any) for completion. Once all required revisions have been made, submit one (1) complete set of drawings for the River Crossing, complete with the preliminary drawing prints, with comments and the digital file to the Department's Supervisor of Drafting. The digital drawing file name must be the Water and Waste Department drawing number assigned to that drawing.
- (d) Resubmit the revised as-constructed drawings within one month of receipt of comments from the Department.

E3.3 Test Results

- (a) All test results are to be submitted to the Department's Project Manager as soon as they are received. If there are any failed tests, a report is to be written indicating the implications of the failure and a recommendation on what remedial measures are required.

E3.4 Project Summaries

- (i) Provide a brief summary report to the Department's contact person for each type of work documenting any specialized Qa/Qc work carried out or unusual problems encountered what the resolution was, and make recommendations for similar future work.

APPENDIX A – ADDITIONAL INFORMATION

1. **NORTHEAST INTERCEPTOR CROSSING OPTION ASSESSMENT – HDD OPTION 2**
2. **DRAWING 486 – NE INTERCEPTOR EAST OF CROSSING**
3. **DRAWING 494 – NE INTERCEPTOR RIVER CROSSING**
4. **DRAWING 495 – NE INTERCEPTOR SIPHON INLET CHAMBER**
5. **DRAWING 496 – NE INTERCEPTOR SIPHON OUTLET CHAMBER**
6. **DRAWING 497A – NE INTERCEPTOR – MISC. DETAILS 1**
7. **DRAWING 497B – NE INTERCEPTOR – MISC. DETAILS 2**
8. **RIVER BED PROFILE NOVEMBER 2012**
9. **HISTORICAL TEST HOLE LOCATIONS**
10. **HISTORICAL TEST LOGS**
11. **TREK TEST HOLE LOCATIONS**
12. **TREK TEST HOLES**