



THE CITY OF WINNIPEG

REQUEST FOR PROPOSAL

RFP NO. 636-2016

**REQUEST FOR PROPOSAL FOR PROFESSIONAL CONSULTING SERVICES FOR
CONDITION ASSESSMENT OF HIGH RISK SEWER & WATER RIVER CROSSINGS
PHASE TWO**

Proposals shall be submitted to:

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

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 REQUEST FOR PROPOSAL FOR PROFESSIONAL CONSULTING SERVICES FOR CONDITION ASSESSMENT OF HIGH RISK SEWER & WATER RIVER CROSSINGS PHASE TWO

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 12:00 noon Winnipeg time, February 14, 2017.
- 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, 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 Request for Proposal 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 Request for Proposal 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 he/she 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 Subconsultants (Section C) in accordance with B9;
 - (b) Experience of Key Personnel Assigned to the Project (Section D), in accordance with B10;
 - (c) Project Understanding and Methodology (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, 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. The Proposal shall be a maximum of fifty (50) pages in length, including all appendices. 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 his/her 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 Proposal shall include a Fixed Fee for all disciplines and/or phases identified in D4 Scope of Services, for the following tasks:

- (a) Project Management
 - (b) Project Development
 - (c) Drawing and Bid Opportunity Preparation
 - (d) Procurement Process
 - (e) Summary Report
- B8.2 The Proposal shall include a Fixed Fee on a per site basis for all disciplines and/or phases identified in D4 Scope of Services, for the following tasks:
- (a) Non-Resident Contract Administration Services
 - (b) Resident Contract Administration Services
 - (c) Condition Assessment, and
 - (d) Record Drawings
- B8.3 Adjustments to Fees will only be considered based on increases to the Scope of Services.
- 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 materials testing, soils and hazardous materials investigation during construction.
- 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 SUBCONSULTANTS (SECTION C)

- B9.1 Proposals should include:
- (a) details demonstrating the history and experience of the Proponent and Subconsultants in providing programming; design, management of the project and contract administration services on up to three projects of similar complexity, scope and value.
- B9.2 For each project listed in B9.1(a), the Proponent should submit:
- (a) description of the project;
 - (b) role of the consultant;
 - (c) project's original contracted cost and final cost;
 - (d) design and schedule (anticipated Project schedule and actual project delivery schedule, showing design separately);
 - (e) project owner;
 - (f) reference information (two current names with telephone numbers and email address per project).
- B9.2.1 Where applicable, information should be separated into Proponent and Subconsultant project listings.

B9.3 The Proposal 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 Subconsultants.

B10. EXPERIENCE OF KEY PERSONNEL ASSIGNED TO THE PROJECT (SECTION D)

B10.1 Describe your approach to overall team formation and coordination of team members.

B10.1.1 Include an organizational chart for the Project.

B10.2 Identify the following Key Personnel assigned to the Project:

- (a) Project Manager
- (b) Assistant Project Manager (if applicable);
- (c) Project Advisor (if applicable);
- (d) Contract Administrator;
- (e) Geotechnical Lead;
- (f) Condition Assessment Team, and
- (g) Other Key Personnel as required

B10.3 Submit the experience and qualifications of the Key Personnel assigned to the Project for projects of similar complexity, scope and value, including the principals-in-charge, the Consultants Representative, managers of the key disciplines and lead designers. Include educational background and degrees, professional recognition, job title, years of experience in current position, years of experience in design and years of experience with existing employer. Roles of each of the Key Personnel in the Project should be identified in the organizational chart referred to in B10.1.1.

B10.4 For each person identified, list at least two comparable projects in which they have played a similar role. If a project selected for a key person is included in B9, provide only the project name and the role of the key person. For other projects provide the following:

- (a) Description of project;
- (b) Role of the person;
- (c) Project Owner;
- (d) Reference information (two current names with telephone numbers and email address per project).

B11. PROJECT UNDERSTANDING AND METHODOLOGY (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 be presented in accordance with the Scope of Services identified in D4.

B11.3 Describe the collaborative process/method to be used by the Key Personnel of the team in the various phases of the Project.

B11.4 Proposals should address:

- (a) the team's understanding of the broad functional and technical requirements;
- (b) the team's understanding of the urban design issues;
- (c) the proposed Project budget;
- (d) the team's project delivery method in accordance with the City's Project Management Manual and corresponding templates;

- (e) the City's Project methodology with respect to the information provided within this RFP; and
- (f) any other issue that conveys your team's understanding of the Project requirements.

B11.5 For each person identified in B10.2, list the percent of time to be dedicated to the Project in accordance with the Scope of Services identified in D4.

B12. PROJECT SCHEDULE (SECTION F)

B12.1 Proponents should present a carefully considered Critical Path Method 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.

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) N/A

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; and,
- (f) upon request of the Project Manager, provide the Security Clearances as identified in PART E - .

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 his/her 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 Work until a Contract for the Work has been duly executed and the performance security furnished 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 his/her 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 Subconsultant; (Section C) 10%
- (e) Experience of Key Personnel Assigned to the Project; (Section D) 20%
- (f) Project Understanding and Methodology (Section E) 25%
- (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 Subconsultants will be evaluated in accordance with the information provided in response to B9.
- B20.6 Further to B20.1(e), Experience of Key Personnel Assigned to the Project will be evaluated in accordance with the information provided in response to B10.
- B20.7 Further to B20.1(f), Project Understanding and Methodology will be evaluated in accordance with the information provided in response to B11.
- 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 The Work of this Contract is contingent upon Council approval of sufficient funding in the ^ Capital Budget. If the Capital Budget approved by Council does not include sufficient funding for the Work, the City will have no obligation to award a Contract.
- B21.4 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.
- B21.5 The City may, at its discretion, award the Contract in phases.
- B21.6 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.
- B21.6.1 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.

- B21.7 The form of Contract with the City of Winnipeg will be based on the Contract as defined in C1.1(n).
- B21.5 Further to Paragraph 6 of Form A: Proposal and C4, the successful Proponent will be provided with Contract documents for execution following issuance of a 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:

Armand L. Delaurier, C.E.T.

Telephone No. 204 986-6636

Email Address: adelaurier1@winnipeg.ca

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.

D3. BACKGROUND

D3.1 The City of Winnipeg's water distribution system and sewer collection system crosses City watercourses at numerous locations. The inventory includes 70 water main crossings and 41 sewer crossings (some twinned). Most of these crossings are true river crossings though some are elevated crossings suspended from bridges.

D3.2 The river crossings are all considered high risk assets due to a combination of their location, age and unknown condition. While the consequence of failure is largely driven by asset location, the probability of failure could be better managed if the condition of the pipelines is known.

D3.3 During Phase One, 14 of these high risk river crossings were inspected between 2012 and 2015. Additional crossings (listed in D4.2) now require inspection to confirm condition.

D4. SCOPE OF SERVICES

D4.1 The Services required under this Contract shall consist of Condition Assessment of High Risk Sewer and Water River Crossings in accordance with the following:

- (a) Project Management,
- (b) Project Development,
- (c) Technology Selection,
- (d) Geotechnical Investigations,
- (e) Drawings and Bid Opportunity Preparation,
- (f) Procurement Process,
- (g) Contract Administration Services,
- (h) Condition Assessment,
- (i) Record Drawings, and
- (j) Summary Report.

D4.2 The City of Winnipeg's Water and Waste Department (WWD) requires condition assessment of five (5) high risk sewer and water river crossings as well as riverbank assessments. The locations are as follows:

Type	Site No.	Location	Asset Function	Size	Material	Assessment Required	
						Pipeline	Riverbank
Water	1	Kildonan-Redwood	Feeder Main	600mm	Steel	Yes	Yes
Water	2	Charleswood/Assiniboia	Feeder Main	600mm	Steel	Yes	Yes
Sewer	3	St. Vital Bridge	Force Main	500mm	Steel	Yes	No
Sewer	4	Newton Ave	Force Main	350mm	HDPE	Yes	No
Sewer	5	Heritage Park	Force Main	250mm	PVC	Yes	Yes

D4.3 The crossings to be assessed are also listed in Appendix A. Existing record drawings are included in Appendix B and existing specifications and reports are included in Appendix C.

D4.4 The preliminary budget estimate for this project is \$1,960,000.00. This includes pipe modifications, support services during inspections, pipe cleaning and inspection, engineering costs, and applicable taxes.

D4.5 The work will be coordinated with other ongoing projects and reviewed and approved by the Water and Waste Department. The shut-down/isolation of major sewer and water mains is carefully regulated and may require scheduling of up to a year in advance.

D4.6 The Water Services Division will conduct a baseline pressure test for Sites 1 & 2 in D4.4 prior to project start-up. Results will be provided to the successful proponent.

D4.7 Project Management

D4.7.1 Describe methods to be used for quality control and to monitor and complete the project on time and within budget. Identify any programs, procedures, systems, or techniques used to demonstrate sophisticated levels of management, cost control or quality control normally used or proposed to be used for the project.

D4.7.2 The successful proponent will be responsible to manage the project and report project status in accordance with the City's Project Management Manual and corresponding templates.

D4.7.3 Throughout the duration of the project, provide monthly Earned Value Analysis to report on scope, schedule, and cost.

D4.8 Project Development

D4.8.1 Meet with City stakeholders and identify the general strategy for completing the project.

D4.8.2 Planning, Reviews, and Risk Assessments

(a) A complete risk assessment of each crossing shall be done in order to evaluate go/no-go for the inspection or to modify the inspections to reduce risk. This must include the risks of the inspection activities (modifications, cleaning and preparation, and inspection) contributing to or causing a failure in the pipe or that equipment may become stuck and irretrievable.

(b) The available as-built information for these crossings is limited and may be inaccurate. Detailed preliminary reviews of the sites shall be performed by the Consultant to determine whether modifications to the site will be required to facilitate inspection.

(c) Perform site investigations to confirm site access, pipeline location and configuration, plant access availability for equipment insertion, and other constraints that would impact the Work. Coordinate with Services Divisions to arrange for plant access and support.

- (d) Prepare and submit risk assessments to identify and address, at a minimum, the following:
- (i) A risk management plan detailing overall project risks including, but not limited to:
 - ◆ Pipe modifications
 - ◆ Pipe cleaning and preparation
 - ◆ Pipe inspection
 - ◆ Insertion tools becoming stuck in pipe
 - ◆ Pipe floatation
 - (ii) Hydraulic reviews and assessments
 - ◆ System impact during pipe modifications, cleaning, and inspection
 - ◆ System storage, by-pass options, and diurnal flow patterns for sewer crossings
 - ◆ Off-spec water plans
 - ◆ Identification of out-of-service windows for all work activities
 - (iii) Structural pipeline assessments
 - (iv) Buoyancy risk of pipelines during normal operations, pipeline modifications, cleaning and inspection activities
- (e) Present risk assessments to the project team in up to two separate workshops – one for water crossing and one for sewer crossings - prior to posting the Pipeline Modifications bid opportunity.

D4.9 Technology Selection

- D4.9.1 The Consultant shall carefully analyze all river crossing locations and balance the risks, cost, and benefits to determine the appropriate condition assessment option.
- D4.9.2 For ferrous metal pipes, inspection methods such as Remote Field Technology (RFT) or Magnetic Flux Leakage (MFL) should be considered.
- D4.9.3 For non-ferrous metal pipes, inspection methods such as Sonar, CCTV (if/where applicable), leak detection, pressure testing, and material testing should be considered.
- D4.9.4 Visual inspections, MFL, or ultrasonic inspections from exterior of pipe may be sufficient for bridge crossings.

D4.10 Geotechnical Investigations

- D4.10.1 The Consultant shall carefully analyze the riverbank at all pipe crossing locations to confirm stability and conditions which could cause pipe failure.
- D4.10.2 Review existing documents, records, aerial photographs, and historical geotechnical information to understand past performance and to obtain available surface/subsurface information.
- D4.10.3 Perform visual inspections at each crossing location to document existing riverbank conditions and to identify signs of instability. For each site, perform the following:
- (a) Slope Stability Analysis,
 - (b) Soil Strength Parameters,
 - (c) Surface and Groundwater Conditions,
 - (d) Take digital photographs for all sites as required, and
 - (e) Geotechnical investigation findings are to be included in the Final Summary Report.

D4.11 Drawings and Bid Opportunity Preparation

- D4.11.1 The Consultant will perform all duties related to detailed design, specification development, tendering, contract administration, and record drawings for the following two bid opportunities:
- (a) Provision of Pipeline Access Modifications and Support Services for High Risk Sewer and Water River Crossing Inspections (Pipeline Modifications), and
 - (b) Pipeline Inspections of the High Risk Sewer and Water River Crossings (Pipeline Inspections).
- D4.11.2 The Bid Opportunities will include the following clauses:
- (a) The Contractor shall perform all work in such a manner to minimize the chance that equipment used for modifications, cleaning, and inspection, will become stuck in the pipe.
 - (b) Should equipment become stuck that cannot be retrieved by the Contractor, the City will handle the retrieval efforts by any means necessary to restore proper functionality of the pipe. The City will not pay for any resulting tool damage or loss during the equipment retrieval efforts.
- D4.11.3 Where applicable, equipment, such as cleaning pigs, will be tethered. All tethered equipment will be manufactured to handle the pulling forces required for cleaning and inspection operations.
- D4.11.4 Work on water mains will be not be allowed from May long weekend to September long weekend unless approved by WWD.
- D4.11.5 The Pipeline Modifications bid opportunity will modify system configuration as required to provide access to the pipelines (identified in Appendix A) for cleaning and inspection purposes.
- (a) Pipeline modifications that will allow for future cleaning and inspection activities will remain as a permanent installation. All modifications, such as riser tubes for tool insertion, will be considered as temporary and only used during this inspection project. Upon completion of the inspections, all temporary modification piping and fittings will be turned over to the appropriate Service Division.
 - (b) The Consultant will conduct investigations to confirm pipeline locations and configurations to determine what modifications are required to facilitate the inspection phase.
 - (c) The Consultant will contact the City's Riverbank Management Engineer in the Planning, Property and Development Department, to secure all required waterway permits for the duration of the project.
 - (d) Pipe modifications will included, but are not limited to, isolation valves, launch wyes, and chamber modifications required for cleaning and inspections.
 - (e) The pipe modifications contractor will also provide preparation and support services during the inspections.
 - (i) Preparation will include activities, as required, to gain access to the pipe, such as but not limited to: exposing of buried launch wyes, removal of blind flanges, and re-establishing access.
 - (ii) Support will include activities required to assist with tool insertion and removal during cleaning and inspection operations.
 - (iii) All site restoration activities.
- D4.11.6 The Pipeline Inspections bid opportunity will be prepared for the purpose of confirming pipe condition. The commencement of inspections will occur upon completion of the corresponding pipeline modifications or where the pipes are ready to be inspected.
- (a) Inspection methods, as listed in D4.9, will be selected to confirm pipe condition.
 - (b) The bid opportunity will include pipe cleaning and inspection.

- (i) Cleaning will include activities required to clean the pipes prior to inspection tool insertion.
- (ii) Inspection will include activities required to inspect the pipes for the purpose of performing pipeline Condition Assessment.

D4.11.7 Prepare drawings showing all work required for modifications and inspections. All pipeline easements are to be shown on the drawings.

D4.11.8 Prepare and submit a pre-tender estimate for each bid opportunity to the Project Manager prior to posting the tender.

D4.11.9 Provide an accurate defensible estimate of costs for liquidated damages including City costs (provided by the Project Manager). The Project Manager must approve the estimate of costs for liquidated damages prior to posting the tender.

D4.12 Procurement Process

D4.12.1 Review bid submissions for completeness and prepare bid tabulations for two bid opportunities.

D4.12.2 Review low bidder qualifications.

- (a) Perform a complete review of the low bidders qualifications to determine if they are capable of performing the work under the terms of the contract.
- (b) Conduct a pre-award meeting if required.

D4.12.3 Make a recommendation of award to the Project Manager.

D4.13 Contract Administration Services

D4.13.1 Non-resident Services

- (a) The Consultant Representative will be responsible to coordinate and conduct pre-construction meetings (for two bid opportunities) with all relevant parties and provide minutes to all relevant parties within seven (7) calendar days of the meeting.
- (b) Arrange for regular job meetings (minimum one per two-week period) on/near the work site or at an agreed location throughout the duration of the contract work. The meetings are to be attended by the Contract Administrator, or their designate, as well as the Resident Inspector, the Contractor, and the Department's Project Manager. Provide minutes of all site meetings within seven (7) calendar days of the meeting.
- (c) 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 will identify any expected budget overruns or surpluses.
- (d) Monitor project progress and ensure all items of work are completed within the terms of the contract.
- (e) Determine the dates of Substantial and Total Performance and complete the corresponding Certificates.
- (f) Meet with the residents (as required) to review all Work to occur on private property. Prior to meeting with the residents, contact the City's Project Manager.
- (g) Provide the City's Project Manager with all Letters to Residents three weeks prior to delivery so the content can be reviewed and approved by WWD.
- (h) Create and provide Record Drawings showing all permanently installed fittings which were constructed in the Pipeline Modifications Bid Opportunity to allow for cleaning and inspection tool insertion.

D4.13.2 Resident Services

- (a) Personnel experienced in pipeline construction and inspection are to be provided for continuous on-site inspection of the work.

- (b) Monitor the activities of the contractor to ensure:
 - (i) project schedules are being realized;
 - (ii) traffic control is in accordance with City specifications;
 - (iii) damage to private property is addressed;
 - (iv) contract requirements and specifications are being met;
 - (v) residential notices are being delivered on time;
 - (vi) site safety is in accordance with Provincial Regulations.
- (c) Coordinate with the Water and Wastewater Services Divisions as required to arrange and coordinate access to the site and pipelines.
- (d) Provide Weekly Project Reports to the Department's Project Manager identifying, but not limited to, the following: days worked, progress, days lost due to weather conditions, project concerns, material, personnel, equipment employed by the Contractor, and Work completed. Provide Weekly Reports no later than the Thursday after the week in question.
- (e) Monitor, document, and report all damage to City and private property caused by the Contractor.
 - (i) take pre-construction (pipeline modifications) and pre-inspection digital photographs for all sites and provide to the City's Project Manager on a USB flash drive upon request.
- (f) Track all pay-item quantities and obtain confirmation and signature from the Contractor on a daily basis if required.

D4.14 Condition Assessment

- (a) Only personnel with extensive experience and knowledge in sewer and water construction techniques, identification of failure modes of various pipe materials, and rehabilitation methods will perform Condition Assessment under this contract.
- (b) Only personnel listed in the proposal can perform this work. Any additional staff must be approved by the City's Project Manager before working on this Project.
- (c) The final Condition Assessment report should be separated into sewer and water sections where applicable. Where available, City asset ID numbers should be used to identify each asset.
- (d) Review and analyze pipeline inspection data as well as geotechnical investigation data acquired during this project for the development of the summary reports.
- (e) Develop a risk-based rating system that will identify pipe defects, their severity, exposure to risk, and serviceability requirements. The rating system will show the probability and consequence of pipeline failure based on:
 - (i) Pipe condition only,
 - (ii) Riverbank only, and
 - (iii) Pipe condition and riverbank stability condition combined
- (f) Condition Assessment services will address the following;
 - (i) Structural Condition
 - ◆ Pipe Defects
 - ◆ Remaining Wall Thickness
 - ◆ Material Degradation
 - (ii) External Pipe Pressures
 - (iii) Internal Pipe Pressures
 - (iv) Floatation Risk related to operations and future maintenance
 - (v) Remaining Service Life
 - (vi) Riverbank Stability

- (vii) Factors of Safety against failure for:
 - ◆ Pipeline (Pipe only)
 - ◆ Overall (Pipeline Failure with Riverbank Stability failure factored in)
- (g) Provide separate pipeline and riverbank rehabilitation recommendations along with their respective estimated costs in the following timelines:
 - (i) 5 Year Capital Program (work to be completed within 5 years)
 - (ii) 10 Year Capital Program (work to be completed within 10 years)
 - (iii) >10 Year Capital Program (work to be completed beyond 10 years)

D4.15 Record Drawings

D4.15.1 Record drawings are to be submitted in two phases:

- (a) Preliminary Record Drawings
- (b) Final Record Drawings

D4.15.2 Preliminary Record Drawings

- (a) Record Drawings shall be in accordance with the City's CAD-GIS Standards document available at: http://winnipeg.ca/waterandwaste/dept/cad_gis.stm
- (b) Within sixty (60) days after completion of the site inspections/restorations, provide one (1) complete set of A1 (841mm x 594mm) drawings to the City's Project Manager. Drawings are to include the following information:
 - (i) All new construction details
 - (ii) Modifications to existing infrastructure
 - (iii) Complete material list for each individual component installed
 - (iv) All other pertinent information
 - (v) Pipe Modifications Contractor
 - (vi) Date of installation of Works (Substantial Performance)

The reviewed Preliminary Record Drawings will be returned with comments (if any) for completion of the Final Records Drawings.

D4.15.3 Final Record Drawings

- (a) Within thirty (30) days of receiving the reviewed Preliminary Record Drawings, provide one (1) complete set of A1 (841mm x 594mm) drawings and the digital file for each drawing along with the City's comments 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

D4.15.4 Payment for Record Drawings will be as follows:

- (a) 50% upon acceptance of the Preliminary Records Drawings;
- (b) 50% upon acceptance of the Final Record Drawings.

D4.16 Summary Report

D4.16.1 Within ninety (90) days upon receiving the inspection data, provide a summary report document detailing the results of the inspection project. The report should, at a minimum, include the following sections:

- (a) Executive Summary
- (b) Introduction
- (c) Planning
- (d) Risk Assessments
- (e) Technology Selection
- (f) Geotechnical Reviews

- (g) Inspection Program Overview
 - (h) Condition Assessment
 - (i) Re-assessment/re-inspection Timelines
 - (j) Failure Risks and Rehabilitation
 - (k) Project Lessons Learned, and
 - (l) Conclusions and Recommended Pipeline and Riverbank Rehabilitation Program.
- D4.16.2 Provide three (3) hardcopies and one (1) electronic copy of the completed document to the Project Manager as a Draft Report for the purpose of review and comment. The Project Manager will return one copy with comments for inclusion in the Final Report.
- D4.16.3 Within thirty (30) days of receiving the comments, provide six (6) hardcopies and one (1) electronic copy of the completed document to the Project Manager as the Final Report.
- D4.16.4 Payment for the summary report document will be as follows:
- (a) 50% upon acceptance of the Draft Report;
 - (b) 50% upon acceptance of the Final Report.

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

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.

D8.3 The City intends to award this Contract by March 31, 2017.

PART E - SECURITY CLEARANCE

E1. SECURITY CLEARANCE

- E1.1 Each individual proposed to perform the following portions of the Work:
- (a) any Work on private property;
 - (b) any Work within City facilities other than:
 - (i) an underground structure such as a manhole;
 - (ii) in areas and at times normally open to the public;
 - (c) communicating with residents and homeowners in person or by telephone;
- E1.1.1 Each Individual shall be required to obtain a Criminal Record Search Certificate from the police service having jurisdiction at his/her place of residence. Or
- (a) BackCheck, forms to be completed can be found on the website at: <http://www.backcheck.net/>; or
 - (b) Commissionaires (Manitoba Division), forms to be completed can be found on the website at: <https://www.commissionaires.ca/en/manitoba/home>.
- E1.2 The following is a link to information for obtaining the Criminal Record Search certificate from the City of Winnipeg Police Service. http://winnipeg.ca/police/pr/info_request.stm
- E1.2.1 The Criminal Record Search shall include a Vulnerable Sector Screening. This can be obtained by following the link below http://winnipeg.ca/police/pr/info_request.stm
- (a) Individuals will need to state in the form, that they may be working in City of Winnipeg pools, libraries and community centres;
- E1.2.2 The original Criminal Record Search Certificate (Form P-253) will be provided by the Winnipeg Police Service to the individual applicant. The original has a validation sticker from the Winnipeg Police Service in the top right hand corner. The applicant shall:
- (a) Provide the original Criminal Record Search Certificate (Form P-253) to the Project Manager.
- E1.3 Prior to the award of Contract, and during the term of the Contract if additional or replacement individuals are proposed to perform Work, the Consultant shall supply the Project Manager with a Criminal Record Search Certificate obtained not earlier than one (1) year prior to the Submission Deadline, or a certified true copy thereof, for each individual proposed to perform such Work.
- E1.4 Any individual for whom a Criminal Record Search Certificate is not provided, or for whom a Criminal Record Search Certificate indicates any convictions or pending charges related to property offences or crimes against another person will not be permitted to perform any Work specified in E1.1.
- E1.5 Any Criminal Record Search Certificate obtained thereby will be deemed valid for the duration of the Contract subject to a repeated records search as hereinafter specified.
- E1.6 Notwithstanding the foregoing, at any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require an updated criminal records search. Any individual who fails to provide a satisfactory Criminal Record Search Certificate as a result of a repeated criminal records search will not be permitted to continue to perform any Work specified in E1.1.

APPENDIX A – LIST OF ASSETS

Location				Asset					Drawings
Site No.	Name	River Crossing	Crossing Type	Number	Size (mm)	Material	Length (m)	Install Date	
1	Kildonan-Redwood Feeder Main	Red River	Water Feeder Main	-	600	Steel	250	1954	07996, 12529, 12530, 12531, 12532, 12535, D-885, F-541, F-2102
2	Charleswood/Assiniboia Feeder Main	Assiniboine River	Water Feeder Main	-	600	Steel	185	1964	D-1084, D-1088, D-1108, D-1109, D-1110, D-1111, F-1984
3	St. Vital Bridge Force Main	Red River	WWS Force Main (Bridge)	MA50017754	500	Steel	202	1988	1328, 1329, 1351
4	Newton Ave Force Main	Red River	WWS Force Main	MA70021128	350	HDPE	297	1979	3DET-2342, 255, 323, 911, 912, 913, 928, 1647, 1649, M219, M220
5	Heritage Park Force Main	Sturgeon Creek	WWS Force Main	MA70031733	250	PVC	250	1989	1255, D-5496, LD-204, LD-207, P-3465-15-017

APPENDIX B – LIST OF EXISTING RECORD DRAWINGS

636-2016_Site 1_Drawing_07996
636-2016_Site 1_Drawing_12529
636-2016_Site 1_Drawing_12530
636-2016_Site 1_Drawing_12531
636-2016_Site 1_Drawing_12532
636-2016_Site 1_Drawing_12535
636-2016_Site 1_Drawing_D-885
636-2016_Site 1_Drawing_F-541
636-2016_Site 1_Drawing_F-2102
636-2016_Site 2_Drawing_D-1084
636-2016_Site 2_Drawing_D-1088
636-2016_Site 2_Drawing_D-1108
636-2016_Site 2_Drawing_D-1109
636-2016_Site 2_Drawing_D-1110
636-2016_Site 2_Drawing_D-1111
636-2016_Site 2_Drawing_F-1984
636-2016_Site 3_Drawing_1328
636-2016_Site 3_Drawing_1329
636-2016_Site 3_Drawing_1351
636-2016_Site 4_Drawing_3DET-2342
636-2016_Site 4_Drawing_255
636-2016_Site 4_Drawing_323
636-2016_Site 4_Drawing_911
636-2016_Site 4_Drawing_912
636-2016_Site 4_Drawing_913
636-2016_Site 4_Drawing_928
636-2016_Site 4_Drawing_1647-US-MH-Newton
636-2016_Site 4_Drawing_1649-DS-MH-Newton
636-2016_Site 4_Drawing_M219
636-2016_Site 4_Drawing_M220
636-2016_Site 5_Drawing_1255
636-2016_Site 5_Drawing_D-5496
636-2016_Site 5_Drawing_LD-204
636-2016_Site 5_Drawing_LD-207
636-2016_Site 5_Drawing_P-3465-15-017

APPENDIX C – LIST OF EXISTING SPECIFICATIONS AND REPORTS

636-2016_Construction_Spec_PD_88-1_Supply_and_Installation_of_Sewage_Forcemain-St_Vital_Bridge
636-2016_Construction_Spec_W_6-64_Charleswood_Assiniboia_Feedermain_River_Crossing_Supply_and_Installation_of_Pipe
636-2016_Report_W2-30P-600mm_Red_River_Crossing_at_Redwood_Ave_(1955)