



THE CITY OF WINNIPEG

REQUEST FOR PROPOSAL

RFP NO. 289-2023

**PROFESSIONAL CONSULTING SERVICES FOR RENFREW OUTFALL GATE
CHAMBER UPGRADES**

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 PROFESSIONAL CONSULTING SERVICES FOR RENFREW OUTFALL GATE CHAMBER UPGRADES

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 12:00 noon Winnipeg time, April 21, 2023.

B2.2 The Consulting Contract Administrator 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. SITE INVESTIGATION

B3.1 The Consulting Contract Administrator or an authorized representative will conduct a site investigation of the existing Renfrew Gate Chamber Site located in the City owned park adjacent to 1345 Wellington Crescent on:

(a) April 7, 2023 at 10:00 am

B3.1.1 Proponents will not be allowed to enter any underground structures. Internal viewing will be done from the surface only.

B3.1.2 Proponents are requested to register for the site investigation by contacting the Consulting Contract Administrator identified in D2.

B3.2 Although attendance at the Site Investigations is not mandatory, the City strongly suggests that Proponents attend.

B3.3 The Proponent shall not be entitled to rely on any information or interpretation received at the site investigation unless that information or interpretation is the Proponent's direct observation, or is provided by the Consulting Contract Administrator in writing.

B3.4 The Proponent is responsible for inspecting the Site, the nature of the Work to be done and all conditions that might affect their Proposal or their performance of the Work, and shall assume all risk for conditions existing or arising in the course of the Work which have been or could have been determined through such inspection

B4. ENQUIRIES

B4.1 All enquiries shall be directed to the Consulting Contract Administrator identified in D2.

B4.2 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 Consulting Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.

B4.3 Responses to enquiries which, in the sole judgment of the Consulting Contract Administrator, require a correction to or a clarification of the Request for Proposal will be provided by the Consulting Contract Administrator to all Proponents by issuing an addendum.

B4.4 Responses to enquiries which, in the sole judgment of the Consulting Contract Administrator, do not require a correction to or a clarification of the Request for Proposal will be provided by the Consulting Contract Administrator only to the Proponent who made the enquiry.

B4.5 All correspondence or contact by Proponents with the City in respect of this RFP must be directly and only with the City's Consulting Contract Administrator. Failure to restrict correspondence and contact to the Consulting Contract Administrator may result in the rejection of the Proponents Proposal Submission.

- B4.6 The Proponent shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Consulting Contract Administrator in writing.
- B4.7 Any enquiries concerning submitting through MERX should be addressed to:
MERX Customer Support
Phone: 1-800-964-6379
Email: merx@merx.com

B5. CONFIDENTIALITY

- B5.1 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 Consulting Contract Administrator. 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.
- B5.2 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 Consulting Contract Administrator.

B6. ADDENDA

- B6.1 The Consulting Contract Administrator 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.
- B6.2 The Consulting Contract Administrator 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.
- B6.3 Addenda will be available on the MERX website at www.merx.com.
- B6.4 The Proponent is responsible for ensuring that they have received all addenda and is advised to check the MERX website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B6.5 The Proponent shall acknowledge receipt of each addendum in Paragraph 10 of Form A: Bid/Proposal. Failure to acknowledge receipt of an addendum may render a Proposal non-responsive.
- B6.6 Notwithstanding B4, enquiries related to an Addendum may be directed to the Consulting Contract Administrator indicated in D2.

B7. PROPOSAL SUBMISSION

- B7.1 The Proposal shall consist of the following components:
- (a) Form A: Bid/Proposal (Section A) in accordance with B8;
 - (b) Fees (Section B) in accordance with B9.
- B7.2 The Proposal should also consist of the following components:
- (a) Experience of Proponent and Subconsultants (Section C) in accordance with B10;
 - (b) Experience of Key Personnel Assigned to the Project (Section D), in accordance with B11;

- (c) Project Understanding and Methodology (Section E) in accordance with B12;
- (d) Management Proposal (Section F) in accordance with B13; and
- (e) Project Schedule (Section G) in accordance with B14.

- B7.3 Further to B7.1 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.
- B7.4 Further to B7.2, 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.
- B7.5 Proposal format, including 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 proposed solution.
- B7.6 The Proposal shall be submitted electronically through MERX at www.merx.com.
- B7.6.1 Proposals will **only** be accepted electronically through MERX.
- B7.7 Proponents are advised that inclusion of terms and conditions inconsistent with the Request for Proposal, will be evaluated in accordance with B23.1(a).
- B7.8 Any cost or expense incurred by the Proponent that is associated with the preparation of the Proposal shall be borne solely by the Proponent.

B8. PROPOSAL (SECTION A)

- B8.1 The Proponent shall complete Form A: Bid/Proposal, making all required entries.
- B8.2 Paragraph 2 of Form A: Bid/Proposal shall be completed in accordance with the following requirements:
- (a) if the Proponent is a sole proprietor carrying on business in their own name, their 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 their own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B8.2.1 If a Proposal is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2
- B8.3 In Paragraph 3 of Form A: Bid/Proposal, the Proponent shall identify a contact person who is authorized to represent the Proponent for purposes of the Proposal.
- B8.4 Paragraph 13 of Form A: Bid/Proposal shall be signed in accordance with the following requirements:
- (a) if the Proponent is a sole proprietor carrying on business in their 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 their duly authorized officer or officers;

- (d) if the Proponent is carrying on business under a name other than their 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.

B8.4.1 The name and official capacity of all individuals signing Form A: Bid/Proposal should be entered below such signatures.

B8.5 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.

B9. FEES (SECTION B)

B9.1 The Proposal shall include a Fixed Fee for all disciplines and/or phases identified in D4, Scope of Services.

B9.2 Additional Work Allowance:

- (a) The Additional Work Allowance is to be included in the calculation of total Fees proposed by the Proponent.
- (b) The Additional Work Allowance is to be used for engineering and design services that arise due to unforeseen conditions arising.
- (c) The Additional Work Allowance is to be included in the calculation of total Fees proposed by the Proponent.
- (d) The Additional Work Allowance shall only be used with written permission of and approval by the Consulting Contract Administrator.

B9.3 Adjustments to Fees will only be considered based on increases to the Scope of Services.

B9.3.1 The City will not consider an adjustment to the Fees based on changes in the Project budget or the Final Total Construction Cost.

B9.4 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.

B9.5 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.

- (a) The Proponent shall submit a list of charge out rates for each generic project positions (i.e. Lead Discipline Engineer, Discipline Drafter, etc.) along with any overtime rates (if applicable).

B9.6 Notwithstanding C11.1, 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.

B9.7 Payments to Non-Resident Consultants are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B9.7.1 Fees stated shall not include any costs which may be incurred by the Consultant with respect to any applicable funding agreement obligations as outlined in D17. Any such costs shall be determined in accordance with D17.

B9.8 Consultants shall submit a table with the applicable charge out rates for each position to be used on the project towards Additional Work Allowance.

B10. EXPERIENCE OF PROPONENT AND SUBCONSULTANTS (SECTION C)

B10.1 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 three projects of similar complexity, scope and value.

B10.2 For each project listed in B10.1(a), the Proponent should submit:

- (a) Location of the project (street, city and province);
- (b) Pictures with descriptions showing the initial project and final project status;
- (c) description of the project;
- (d) role of the consultant;
- (e) Consultants original contracted cost and final cost;
- (f) projects original contracted cost and final cost;
- (g) design and schedule (anticipated Project schedule and actual project delivery schedule including: Award of Contract, 100% Detailed Design, Award of Construction Contract, Substantial Performance, Total Performance and Project Close-Out);
- (h) project owner;
- (i) reference information (two current names with telephone numbers per project);
- (j) Any deviations in costs and/or schedule shall be clearly indicated for the reason of the deviation.

B10.2.1 Where applicable, information should be separated into Proponent and Subconsultant project listings.

B10.3 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.

B11. EXPERIENCE OF KEY PERSONNEL ASSIGNED TO THE PROJECT (SECTION D)

B11.1 Describe your approach to overall team formation and coordination of team members.

B11.1.1 Include an organizational chart for the Project.

B11.2 Identify the following Key Personnel assigned to the Project:

- (a) Project Manager;
- (b) Contract Administration personnel;
- (c) Electrical Lead Engineer;
- (d) Automation Lead Engineer;
- (e) Mechanical Lead Engineer;
- (f) Structural Lead Engineer;
- (g) Process Lead Engineer;
- (h) Civil Lead Engineer; and
- (i) PLC Programming Lead Engineer.

B11.3 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. Descriptions should include:

- (a) planned role of key personnel intended for this project and why they would be a good fit for planned role;
- (b) educational background and degrees;
- (c) professional recognition;

- (d) current job title;
- (e) years of experience in current position;
- (f) years of experience in design and construction; and
- (g) years of experience in design and years of experience with existing employer.

B11.3.1 Roles of each of the Key Personnel in the Project should be identified in the organizational chart referred to in B11.1.1.

B11.4 For each person identified, list at least two comparable projects in which they have played a primary role similar to that proposed for this Project. If a project selected for a key person is included in B10, 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 per project).

B12. PROJECT UNDERSTANDING AND METHODOLOGY (SECTION E)

B12.1 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.

B12.2 Methodology should be presented in accordance with the Scope of Services identified in D4.

B12.3 Proposals should address:

- (a) the Proponents understanding of the Project;
- (b) the Proponents approach and methodology to complete the work;
- (c) any innovation to be used to perform the services;
- (d) any location specific issues;
- (e) any perceived project challenges and how they will be overcome;
- (f) any activities and services to be provided by the City;
- (g) the deliverables of the Project;
- (h) the City design requirements and adherence to the City Design Guidelines, identifiers, drawing templates, etc;
- (i) City standardized equipment agreements and adherence to City Electrical and Instrumentation Standardization;
- (j) the City's Project methodology with respect to the information provided within this RFP and the City's Project Management Manual at <http://winnipeg.ca/infrastructure/asset-management-program/templates-manuals.stm#2> and templates at <http://winnipeg.ca/infrastructure/asset-management-program/templates-manuals.stm#4>; and;
- (k) any other issue that conveys your team's understanding of the Project requirements.

B13. MANAGEMENT PROPOSAL (SECTION F)

B13.1 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.

B13.2 Describe the collaborative process/method to be used by the Key Personnel of the team in the various phases of the Project.

B13.3 Proposals should address:

- (a) job function for each identified individual and group of individuals so identified;
- (b) time estimates by work activity/phase defined in D4, Scope of Services and in total for each individual identified in B11.1.1;
 - (i) Proponents may use Form P: Person Hours or a table of their own design provided it includes all information requested in accordance with B13.3 (b).
 - (ii) A sample of Form P: Person Hours can be found at <https://winnipeg.ca/matmgt/templates/information.stm>
- (c) Risk and Quality Management systems that will be used on the project.

B14. PROJECT SCHEDULE (SECTION G)

B14.1 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.

B14.2 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.

B14.3 Proponents shall include a key project schedule table indicating the following milestone dates:

- (a) Award of Contract;
- (b) Kickoff Meeting;
- (c) 100% Design Complete;
- (d) Construction Tender Posted to MERX;
- (e) Construction Tender Closing Date;
- (f) Substantial Performance;
- (g) Total Performance;
- (h) Record Documents; and
- (i) Project Close-Out.

B15. DISCLOSURE

B15.1 Various Persons provided information or services with respect to this RFP. 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.

B15.2 The Persons are:

- (a) N/A

B16. CONFLICT OF INTEREST AND GOOD FAITH

B16.1 Further to C3.2, Proponents, by responding to this RFP, declare that no Conflict of Interest currently exists, or is reasonably expected to exist in the future.

B16.2 Conflict of Interest means any situation or circumstance where a Proponent or Key Personnel proposed for the Services has:

- (a) other commitments;
- (b) relationships;
- (c) financial interests; or

(d) involvement in ongoing litigation;

that could or would be seen to:

- (i) exercise an improper influence over the objective, unbiased and impartial exercise of the independent judgment of the City with respect to the evaluation of Proposals or award of the Contract; or
 - (ii) compromise, impair or be incompatible with the effective performance of a Proponent's obligations under the Contract;
- (e) has contractual or other obligations to the City that could or would be seen to have been compromised or impaired as a result of their participation in the RFP process or the Project; or
- (f) has knowledge of confidential information (other than confidential information disclosed by the City in the normal course of the RFP process) of strategic and/or material relevance to the RFP process or to the Project that is not available to other Proponents and that could or would be seen to give that Proponent an unfair competitive advantage.

B16.3 In connection with their Proposal, each entity identified in B16.2 shall:

- (a) avoid any perceived, potential or actual Conflict of Interest in relation to the procurement process and the Project;
- (b) upon discovering any perceived, potential or actual Conflict of Interest at any time during the RFP process, promptly disclose a detailed description of the Conflict of Interest to the City in a written statement to the Consulting Contract Administrator; and
- (c) provide the City with the proposed means to avoid or mitigate, to the greatest extent practicable, any perceived, potential or actual Conflict of Interest and shall submit any additional information to the City that the City considers necessary to properly assess the perceived, potential or actual Conflict of Interest.

B16.4 Without limiting B16.3, the City may, in their sole discretion, waive any and all perceived, potential or actual Conflicts of Interest. The City's waiver may be based upon such terms and conditions as the City, in their sole discretion, requires to satisfy itself that the Conflict of Interest has been appropriately avoided or mitigated, including requiring the Proponent to put into place such policies, procedures, measures and other safeguards as may be required by and be acceptable to the City, in their sole discretion, to avoid or mitigate the impact of such Conflict of Interest.

B16.5 Without limiting B16.3, and in addition to all contractual or other rights or rights at law or in equity or legislation that may be available to the City, the City may, in their sole discretion:

- (a) disqualify a Proponent that fails to disclose a perceived, potential or actual Conflict of Interest of the Proponent or any of their Key Personnel;
- (b) require the removal or replacement of any Key Personnel proposed for the Services that has a perceived, actual or potential Conflict of Interest that the City, in their sole discretion, determines cannot be avoided or mitigated;
- (c) disqualify a Proponent or Key Personnel proposed for the Services that fails to comply with any requirements prescribed by the City pursuant to B16.4 to avoid or mitigate a Conflict of Interest; and
- (d) disqualify a Proponent if the Proponent, or one of their Key Personnel proposed for the Project, has a perceived, potential or actual Conflict of Interest that, in the City's sole discretion, cannot be avoided or mitigated, or otherwise resolved.

B16.6 The final determination of whether a perceived, potential or actual Conflict of Interest exists shall be made by the City, in their sole discretion.

B17. QUALIFICATION

B17.1 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.
- B17.2 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 <https://winnipeg.ca/finance/findata/matmgt/listing/debar.pdf>
- B17.3 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;
 - (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;
 - (e) undertake to meet all licensing and regulatory requirements of the appropriate governing authorities and associations in the Province of Manitoba; and
 - (f) have completed the Accessible Customer Service online training required by the Accessibility for Manitobans Act (AMA) (see B17.4 and D5.1).
- B17.4 Further to B17.3(f), the Proponent acknowledges they and all Subconsultants have obtained training required by the Accessibility for Manitobans Act (AMA) available at <http://www.accessibilitymb.ca/training.html> for anyone that may have any interaction with the public on behalf of the City of Winnipeg.
- B17.5 The Proponent shall submit, within three (3) Business Days of a request by the Consulting Contract Administrator, further proof satisfactory to the Consulting Contract Administrator of the qualifications of the Proponent and of any proposed Subconsultant.
- B17.6 The Proponent shall provide, on the request of the Consulting Contract Administrator, full access to any of the Proponent's equipment and facilities to confirm, to the Consulting Contract Administrator's satisfaction, that the Proponent's equipment and facilities are adequate to perform the Services.
- B18. OPENING OF PROPOSALS AND RELEASE OF INFORMATION**
- B18.1 Proposals will not be opened publicly.
- B18.2 After award of Contract, the Contract amount and the name of the successful Proponent and their address will be available on the MERX website at www.merx.com.

B18.3 The Proponent is advised any information contained in any Proposal Submission may be released if required by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law or by City policy or procedures (which may include access by members of City Council).

B18.3.1 To the extent permitted, the City shall treat as confidential information, those aspects of a Proposal Submission identified by the Proponent as such in accordance with and by reference to Part 2, Section 17 or Section 18 or Section 26 of The Freedom of Information and Protection of Privacy Act (Manitoba), as amended.

B18.4 Following the award of Contract, a Proponent will be provided with information related to the evaluation of their submission upon written request to the Consulting Contract Administrator.

B19. IRREVOCABLE OFFER

B19.1 The Proposal(s) submitted by the Proponent shall be irrevocable for the time period specified in Paragraph 11 of Form A: Bid/Proposal.

B19.2 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 for the time period specified in Paragraph 11 of Form A: Bid/Proposal.

B20. WITHDRAWAL OF OFFERS

B20.1 A Proponent may withdraw their Proposal without penalty prior to the Submission Deadline.

B21. INTERVIEWS

B21.1 The Consulting Contract Administrator may, in their sole discretion, interview Proponents during the evaluation process.

B22. NEGOTIATIONS

B22.1 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.

B22.2 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.

B22.3 If, in the course of negotiations pursuant to B22.2, 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.

B23. EVALUATION OF PROPOSALS

B23.1 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 B17: (pass/fail)
- (c) Fees; (Section B) 40%
- (d) Experience of Proponent and Subconsultant; (Section C) 10%

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|-----|--|-----|
| (e) | Experience of Key Personnel Assigned to the Project; (Section D) | 25% |
| (f) | Project Understanding and Methodology; (Section E) | 15% |
| (g) | Management Proposal; (Section F) | 5% |
| (h) | Project Schedule. (Section G) | 5% |
- B23.2 Further to B23.1(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.
- B23.3 Further to B23.1(b), the Award Authority shall reject any Proposal submitted by a Proponent who does not demonstrate, in their Proposal or in other information required to be submitted, that it is qualified.
- B23.4 If, in the sole opinion of the City, a Proposal does not achieve a pass rating for B23.1(a) and B23.1(b), the Proposal will be determined to be non-responsive and will not be further evaluated.
- B23.5 Further to B23.1(c), Fees will be evaluated based on Fees submitted in accordance with B9.
- B23.6 Further to B23.1(d), Experience of Proponent and Subconsultants will be evaluated considering the experience of the organization on projects of similar size and complexity as well as other information requested, in accordance with B10.
- B23.7 Further to B23.1(e), Experience of Key Personnel Assigned to the Project will be evaluated considering the experience and qualifications of the Key Personnel and Subconsultant personnel on Projects of comparable size and complexity, in accordance with B11.
- B23.8 Further to B23.1(f), Project Understanding and Methodology will be evaluated considering your firm's understanding of the City's Project, project management approach and team organization, in accordance with B12.
- B23.9 Further to B23.1(g), Management Proposal will be evaluated considering the Proponent's ability to comply with the requirements of the Project, in accordance with B14.
- B23.10 Further to B23.1(h), Project Schedule will be evaluated considering the Proponent's ability to comply with the requirements of the Project, in accordance with B14.
- B23.11 Notwithstanding B23.1(d) to B23.1(h), where Proponents fail to provide a response to B7.2(a) to B7.2(e), the score of zero may be assigned to the incomplete part of the response.
- B23.12 Proposals will be evaluated considering the information in the Proposal Submission and any interviews held in accordance with B21.
- B23.13 Where references are requested, the reference checks to confirm information provided may not be restricted to only those submitted by the Proponent, and may include organizations representing Persons, known to have done business with the Proponent.
- B24. AWARD OF CONTRACT**
- B24.1 The City will give notice of the award of the Contract, or will give notice that no award will be made.
- B24.2 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 qualified, and the Proposals are determined to be responsive.
- B24.2.1 Without limiting the generality of B24.2, 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 their 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.

- B24.3 Where an award of Contract is made by the City, the award shall be made to the qualified Proponent submitting the most advantageous offer.
- B24.4 The City may, at their discretion, award the Contract in phases.
- B24.5 Further to B24.4 the City reserves the right to negotiate and award future phases to the successful Proponent.
- B24.6 Further to Paragraph 7 of Form A: Bid/Proposal and C4, the City may issue an award letter to the successful Proponent in lieu of execution of Contract Documents
- B24.6.1 The Contract documents as defined in C1.1(u) in their entirety shall be deemed to be incorporated in and to form a part of the award letter notwithstanding that they are not necessarily attached to or accompany said award letter.
- B24.7 The form of Contract with the City of Winnipeg will be based on the Contract as defined in C1.1(v).
- B24.8 If funding for the Services is provided to the City of Winnipeg by the Government of Manitoba and/or the Government of Canada, Proponents are advised that the terms of D17 shall immediately take effect upon confirmation of such funding, regardless of when funding is confirmed.
- B24.9 Following the award of Contract, a Proponent will be provided with information related to the evaluation of their Proposal upon written request to the Consulting Contract Administrator.
- B24.10 If, after the award of Contract, the Project is cancelled, the City reserves the right to terminate the Contract. The Proponent 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 2022-09-02) 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. CONSULTING CONTRACT ADMINISTRATOR

D2.1 The Consulting Contract Administrator is:

Duane Baker, C.E.T.

Telephone No. 204 986-4289

Email Address: duanebaker@winnipeg.ca

D2.2 At the kickoff meeting, the Consulting Contract Administrator will identify additional personnel representing the Consulting Contract Administrator and their respective roles and responsibilities for the Services.

D3. BACKGROUND

D3.1 The Ash Sewer District Storm Relief Sewer (SRS) System consists of a 2400mm diameter outfall to the Assiniboine River west of Renfrew St.

D3.2 The Renfrew Gate Chamber is located in the City owned park adjacent to 1345 Wellington Crescent. The chamber structure was constructed in 1964/65 to isolate the Storm Relief Sewer (SRS) pipe from the river during times of high water levels and is a conventional two-cell gate chamber with a positive slide gate in the downstream chamber. The chamber is constructed of cast-in-place concrete with galvanized steel hatch covers and frames. The slide gate is operated by a gate lift located on a concrete corbel inside the chamber with an operating shaft that extends to the surface.

D3.3 In 1980, 2 structures were constructed at the site of the gate chamber. A wye structure was built upstream of the existing gate structure that houses a pair of cast iron flap gates (2440mm and 2700mm diameter) that were installed to protect the two branches of the upstream storm relief sewer. There is no direct access to the gates and is currently accessed by entering a nearby manhole and then walking in the sewer to the gates. When the river is high, divers with specialized equipment are needed to enter the sewer under submerged conditions. These accessibility issues along with the large size of the gates make them very difficult to maintain and risk the safety of staff. When these gates are not sealing, the Assiniboine River flows back into the sewer system, over the SRS weirs, and overwhelms the Ash Lift station. This can lead to increased overflow volumes at Ash and increased use of flood pumping which typically happens at least once per year. The current condition of the existing gates is such that when they are sealed they still allow the ingress of water which does not meet the minimum level of service for flap gates. Additionally, a pump out chamber was also built to dewater the upstream piping when the slide gate is closed due to high river levels.

D3.4 **Historical record drawings for the Renfrew Gate Chamber, MH Type II (Pump out Chamber and “Wye” Flap Gate Structure) and associate piping upstream and down stream of the Gate Chamber are included in Appendix “A” of this document.**

(a) The record drawings provided herein are for informational purposes only and the City makes no claim or liability to the accuracy of the information provided.

D3.5 **Videos of the interior of the existing gate chamber, pump chamber and flap gate chamber are available upon request from the Consulting Contract Administrator**

- D3.6 The detailed design stage for this project will largely involve structural modifications to the existing structures, removal of the existing slide and flap gates, construction of a new chamber, construction of discharge piping, automation controls, PLC, combined sewer overflow instrumentation and electrical, mechanical, process, civil components.
- D3.7 The Renfrew Gate Chamber upgrading project will generally consist of the following work:
- (a) Installation of a new flap gate, positive gate and submersible pump;
 - (b) Construction of a new cell to accommodate a new flap gate and weir structure;
 - (c) Modification of the existing pump out chamber to work in conjunction with the new flap gate chamber;
 - (d) The existing gate chamber to be left in place and modified, with existing gate and appurtenances to be replaced;
 - (e) Removal of the 2440mm and 2700mm flap gates in the upstream piping;
 - (f) Connection for electrical power supply from Manitoba Hydro;
 - (g) Automation and Instrumentation;
 - (h) Miscellaneous modifications to ladders, hatches, etc.;
 - (i) Construction Services;
 - (j) Provision of geotechnical and soil testing reports;
 - (k) Provision of hydrogeological report; and
 - (l) Restoration of all surface areas.

D4. SCOPE OF SERVICES

- D4.1 The Services required under this Contract shall consist of providing Engineering Services for the Detailed Design and Contract Administration for the Renfrew Outfall Chamber Upgrades in accordance with the following:
- (a) Preliminary Engineering;
 - (b) Geotechnical Engineering;
 - (c) Design and Specification Development;
 - (d) New cell construction;
 - (e) Mechanical Installations;
 - (f) Electrical and Instrumentation installations;
 - (g) PLC programming installation;
 - (h) Structural modifications and installations;
 - (i) Civil installations;
 - (j) Contract Document Preparation;
 - (k) Procurement Process;
 - (l) Contract Administration Services; and
 - (m) Post Construction Services.
- D4.1.1 The Services required under D4.1, shall be in accordance with the City's Project Management Manual <http://winnipeg.ca/infrastructure/asset-management-program/templates-manuals.stm#2> and templates <http://winnipeg.ca/infrastructure/asset-management-program/templates-manuals.stm#4> . Notwithstanding the foregoing, the Consultant is being engaged by the City for their professional expertise; the Consultant shall bring to the Consulting Contract Administrator's attention any aspect of the City's Project Management Manual or templates which the Consultant is of the opinion is not consistent with good industry practice.

D4.2 The following shall apply to the Services:

- (a) City of Winnipeg, Water and Waste Department – Electrical Design Guide, current revision:
<https://winnipeg.ca/waterandwaste/dept/manual.stm#wastewater>
- (b) City of Winnipeg, Water and Waste Department – Identification Standard, current revision:
<https://winnipeg.ca/waterandwaste/dept/manual.stm#wastewater>
- (c) City of Winnipeg, Water and Waste Department – Automation Design Guide, current revision - Appendix
<https://winnipeg.ca/waterandwaste/dept/manual.stm#wastewater>
- (d) Universal Design Policy
<http://clkapps.winnipeg.ca/DMIS/DocExt/ViewDoc.asp?DocumentTypeld=2&DocId=3604>

D5. DEFINITIONS

D5.1 When used in this Request for Proposal:

- (a) “**CoW**” means City of Winnipeg;
- (b) “**CSO**” means Combined Sewer Overflow.
- (c) “**I/O**” means Input / Output.
- (d) “**PLC**” means Programmable Logic Controller;
- (e) “**PPE**” means Personal Protective Equipment;
- (f) “**SRS**” means Storm Relief Sewer;
- (g) “**SCADA**” means Supervisory Control and Data Acquisition;
- (h) “**TVSS**” means Transient Voltage

D6. ACCESSIBLE CUSTOMER SERVICE REQUIREMENTS

D6.1 The Accessibility for Manitobans Act (AMA) imposes obligations on The City of Winnipeg to provide accessible customer service to all persons in accordance with the Customer Service Standard Regulation (“CSSR”) to ensure inclusive access and participation for all people who live, work or visit Winnipeg regardless of their abilities.

D6.1.1 The Consultant agrees to comply with the accessible customer service obligations under the CSSR and further agrees that when providing the Goods or Services or otherwise acting on the City of Winnipeg’s behalf, shall comply with all obligations under the AMA applicable to public sector bodies.

D6.1.2 The accessible customer service obligations include, but are not limited to:

- (a) providing barrier-free access to goods and services;
- (b) providing reasonable accommodations;
- (c) reasonably accommodating assistive devices, support persons, and support animals;
- (d) providing accessibility features e.g. ramps, wide aisles, accessible washrooms, power doors and elevators;
- (e) inform the public when accessibility features are not available;
- (f) providing a mechanism or process for receiving and responding to public feedback on the accessibility of all goods and services; and
- (g) providing adequate training of staff and documentation of same.

D7. UNFAIR LABOUR PRACTICES

- D7.1 Further to C3.2, the Consultant declares that in bidding for the Work and in entering into this Contract, the Consultant and any proposed Subconsultant(s) conduct their respective business in accordance with established international codes embodied in United Nations Universal Declaration of Human Rights (UDHR) <https://www.un.org/en/about-us/universal-declaration-of-human-rights> International Labour Organization (ILO) [https://www.ilo.org/global/lang--en/index.htm](https://www.ilo.org/global/lang-en/index.htm) conventions as ratified by Canada.
- D7.2 The City of Winnipeg is committed and requires its Consultants and their Subconsultants, to be committed to upholding and promoting international human and labour rights, including fundamental principles and rights at work covered by ILO eight (8) fundamental conventions and the United Nations Universal Declaration of Human Rights which includes child and forced labour.
- D7.3 Upon request from the Consulting Contract Administrator, the Consultant shall provide disclosure of the sources (by company and country) of the raw materials used in the Work and a description of the manufacturing environment or processes (labour unions, minimum wages, safety, etc.).
- D7.4 Failure to provide the evidence required under D7.3, may be determined to be an event of default in accordance with C14.
- D7.5 In the event that the City, in its sole discretion, determines the Consultant to have violated the requirements of this section, it will be considered a fundamental breach of the Contract and the Consultant shall pay to the City a sum specified by the Consulting Contract Administrator in writing ("Unfair Labour Practice Penalty"). Such a violation shall also be considered an Event of Default, and shall entitle the City to pursue all other remedies it is entitled to in connection with same pursuant to the Contract.
- D7.5.1 The Unfair Labour Practice Penalty shall be such a sum as determined appropriate by the City, having due regard to the gravity of the Consultant's violation of the above requirements, any cost of obtaining replacement goods/ services or rectification of the breach, and the impact upon the City's reputation in the eyes of the public as a result of same.
- D7.5.2 The Consultant shall pay the Unfair Labour Practice Penalty to the City within thirty (30) Calendar Days of receiving a demand for same in accordance with clause D7.5. The City may also hold back the amount of the Unfair Labour Practice Penalty from payment for any amount it owes the Consultant.
- (a) The obligations and rights conveyed by this clause survive the expiry or termination of this Contract, and may be exercised by the City following the performance of the Work, should the City determine, that a violation by the Consultant of the above clauses has occurred following same. In no instance shall the Unfair Labour Practice Penalty exceed the total of twice the Contract value.

SUBMISSIONS

D8. AUTHORITY TO CARRY ON BUSINESS

- D8.1 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 Consulting Contract Administrator with evidence thereof upon request.

D9. SAFE WORK PLAN

- D9.1 The Consultant shall provide the Consulting Contract Administrator with a Safe Work Plan at least five (5) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.4(a) for the return of the executed Contract.
- D9.2 The Safe Work Plan should be prepared and submitted in the format shown in the City's template which is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/safety/default.stm>

D10. INSURANCE

- D10.1 The Consultant shall procure and maintain, at their own expense and cost, insurance policies with limits no less than those shown below.
- D10.2 As a minimum, the Consultant shall, without limiting their obligations or liabilities under any other contract with the City, procure and maintain, at their 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 \$2,000,000 per claim and \$2,000,000 in the aggregate.
- D10.2.1 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.
- D10.3 The policies required in D10.2(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.
- D10.4 The Consultant shall require any Consultants hired to perform geo technical drilling and sample collecting or closed-circuit television to procure and maintain, at their own expense and cost, comparable insurance to that set forth under D10.2(a) and D10.2(b).
- D10.5 The Consultant shall require each of their Subconsultants hired for design, architectural or engineering services as outlined in the Scope of Services to provide comparable insurance to that set forth under D10.2(a) and D10.2(c).

- D10.6 The Consultant shall provide the Consulting Contract Administrator with a certificate(s) of insurance 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 C4.4(a) 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 D10.9.
- D10.7 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.
- D10.8 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.
- D10.9 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

D11. COMMENCEMENT

- D11.1 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.
- D11.2 The Consultant shall not commence any Services until:
- (a) the Consulting Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D8;
 - (ii) the Safe Work Plan specified in D9; and
 - (iii) evidence of the insurance specified in D10.
 - (b) the Consultant has attended a meeting with the Consulting Contract Administrator, or the Consulting Contract Administrator has waived the requirement for a meeting;
 - (c) The direct deposit application specified in D15.1

D12. CRITICAL STAGES

- D12.1 The Consultant shall achieve critical stages of the Services for this Contract in accordance with the following requirements:
- (a) Final design completed and accepted by the City no later than November 17, 2023;
 - (b) Tender for chamber upgrades closing no later than January 8, 2024;
 - (c) Commencement of Construction after November 15, 2024 providing river levels are low enough;
 - (d) New chamber pumps (including all related components such as cabling, conduits, controls, etc.), discharge piping and new cast iron gates must be installed and operational by March 1, 2025;
 - (e) Substantial Performance by March 15, 2025;
 - (f) Total Performance by June 30, 2025.

D13. COVID-19 SCHEDULE DELAYS

- D13.1 The City acknowledges that the schedule for this Contract may be impacted by the COVID-19 pandemic. Commencement and progress of the Services shall be performed by the Consultant with due consideration to the health and safety of workers and the public, directives from health authorities and various levels of government and in close consultation with the Consulting Contract Administrator.

- D13.2 If the Consultant is delayed in the performance of the Services by reason of the COVID-19 pandemic, the Services schedule may be adjusted by a period of time equal to the time lost due to such delay and costs related to such delay will be determined as identified herein.
- D13.3 A minimum of seven (7) Calendar Days prior to the commencement of Services, the Consultant shall declare whether COVID-19 will affect the start date. The Consultant shall provide sufficient evidence that the delay is directly related to COVID-19, including but not limited to evidence related to availability of staff, availability of material or work by others.
- D13.4 For any delay related to COVID-19 and identified after Services have commenced, the Consultant shall within seven (7) Calendar Days of becoming aware of the anticipated delay declare the additional delay and shall provide sufficient evidence as indicated in D13.3. Failure to provide this notice will result in no additional time delays being considered by the City.
- D13.5 The Services schedule, including the durations identified in the Contract, will be adjusted to reflect delays accepted by the Consulting Contract Administrator.
- D13.6 Any time or cost implications as a result of COVID-19 and in accordance with the above, as confirmed by the Consulting Contract Administrator, shall be documented in accordance with C8.

MEASUREMENT AND PAYMENT

D14. INVOICES

- D14.1 Further to C11, the Consultant shall submit an invoice for each portion of Work performed with the Consulting Contract Administrator copied on the email to:

The City of Winnipeg
Corporate Finance - Accounts Payable
4th Floor, Administration Building, 510 Main Street
Winnipeg MB R3B 1B9
Facsimile No.: 204-949-0864
Send Invoices to CityWpgAP-INVOICES@winnipeg.ca
Send Invoice Inquiries to CityWpgAP-INQUIRIES@winnipeg.ca

- D14.2 Invoices must clearly indicate, as a minimum:
- the City's purchase order number;
 - the City's project number and title: 'D-444 – Renfrew Gate Chamber Upgrades
 - the Consultant's Contract Administrator's name;
 - date of delivery;
 - delivery address;
 - type and quantity of work performed;
 - the amount payable with GST and MRST shown as separate amounts; and
 - the Consultant's GST registration number.
- D14.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D15. PAYMENT

- D15.1 Further to C11.14, the City shall make payments to the Consultant by direct deposit to the Consultant's banking institution, and by no other means. Payments will not be made until the Consultant has made satisfactory direct deposit arrangements with the City. Direct deposit application forms are at https://winnipeg.ca/finance/files/Direct_Deposit_Form.pdf.

DISPUTE RESOLUTION

D16. DISPUTE RESOLUTION

- D16.1 If the Consultant disagrees with any opinion, determination, or decision of the Consulting Contract Administrator, the Consultant shall act in accordance with the Consulting Contract Administrator's opinion, determination, or decision unless and until same is modified by the process followed by the parties pursuant to D16.
- D16.2 The entire text of C17.4 is deleted, and amended to read: "Intentionally Deleted"
- D16.3 The entire text of C17.5 is deleted, and amended to read:
- (a) If Legal Services has determined that the Disputed Matter may proceed in the Appeal Process, the Consultant must, within ten (10) Business Days of the date of the Legal Services Response Letter, submit their written Appeal Form, in the manner and format set out on the City's Materials Management Website, to the Chief Administrative Officer, and to the Consulting Contract Administrator. The Consultant may not raise any other disputes other than the Disputed Matter in their Appeal Form.
- D16.4 Further to C17, prior to the Consulting Contract Administrator's issuance of a Final Determination, the following informal dispute resolution process shall be followed where the Consultant disagrees with any opinion, determination, or decision of the Consulting Contract Administrator ("Dispute"):
- (a) In the event of a Dispute, attempts shall be made by the Consulting Contract Administrator and the Consultant's equivalent representative to resolve Disputes within the normal course of project dealings between the Consulting Contract Administrator and the Consultant's equivalent representative.
 - (b) Disputes which in the reasonable opinion of the Consulting Contract Administrator or the Consultant's equivalent representative cannot be resolved within the normal course of project dealings as described above shall be referred to a without prejudice escalating negotiation process consisting of, at a minimum, the position levels as shown below and the equivalent Consultant representative levels:
 - (i) The Consulting Contract Administrator;
 - (ii) Supervisory level between the Consulting Contract Administrator and applicable Department Head;
 - (iii) Department Head.
- D16.4.1 Names and positions of Consultant representatives equivalent to the above City position levels shall be determined by the Consultant and communicated to the City at the pre-commencement or kick off meeting.
- D16.4.2 As these negotiations are not an adjudicative hearing, neither party may have legal counsel present during the negotiations.
- D16.4.3 Both the City and the Consultant agree to make all reasonable efforts to conduct the above escalating negotiation process within twenty (20) Business Days, unless both parties agree, in writing, to extend that period of time.
- D16.4.4 If the Dispute is not resolved to the City and Consultant's mutual satisfaction after discussions have occurred at the final escalated level as described above, or the time period set out in D16.4.3, as extended if applicable, has elapsed, the Consulting Contract Administrator will issue a Final Determination as defined in C1.1(dd), at which point the parties will be governed by the Dispute Resolution process set out in C17.

THIRD PARTY AGREEMENTS

D17. FUNDING AND/OR CONTRIBUTION AGREEMENT OBLIGATIONS

- D17.1 In the event that funding for the Services of the Contract is provided to the City of Winnipeg by the Government of Manitoba and/or the Government of Canada, the following terms and conditions shall apply, as required by the applicable funding agreements.
- D17.2 Further to D17.1, in the event that the obligations in D17 apply, actual costs legitimately incurred by the Consultant as a direct result of these obligations ("Funding Costs") shall be determined by the actual cost to the Consultant and not by the valuation method(s) outlined in C8.4. In all other respects Funding Costs will be processed in accordance with Changes in Services under C8.
- D17.3 For the purposes of D17:
- (a) "**Government of Canada**" includes the authorized officials, auditors, and representatives of the Government of Canada; and
 - (b) "**Government of Manitoba**" includes the authorized officials, auditors, and representatives of the Government of Manitoba.
- D17.4 Modified Insurance Requirements
- D17.4.1 If not already required under the insurance requirements identified in D10, the Consultant will be required to obtain and maintain professional liability insurance in an amount of no less than one million dollars (\$1,000,000) inclusive per claim. Such policy shall be maintained for at least twenty four (24) months after Total Performance.
- D17.4.2 The Consultant shall obtain and maintain third party liability insurance with minimum coverage of two million dollars (\$2,000,000.00) per occurrence on all licensed vehicles operated at the Site. In the event that this requirement conflicts with another licensed vehicle insurance requirement in this Contract, then the requirement that provides the higher level of insurance shall apply.
- D17.4.3 Insurers shall provide satisfactory Certificates of Insurance to the Government of Manitoba prior to commencement of Services as written evidence of the insurance required. The Certificates of Insurance must provide for a minimum of thirty (30) days' prior written notice to the Government of Manitoba in case of insurance cancellation.
- D17.4.4 All policies must be taken out with insurers licensed to carry on business in the Province of Manitoba.
- D17.5 Indemnification By Consultant
- D17.5.1 In addition to the indemnity obligations outlined in C13 of the General Conditions for Consultant Services, the Consultant agrees to indemnify and save harmless the Government of Canada and the Government of Manitoba and each of their respective Ministers, officers, servants, employees, and agents from and against all claims and demands, losses, costs, damages, actions, suit or other proceedings brought or pursued in any manner in respect of any matter caused by the Consultant or arising from this Contract or the Services, or from the goods or services provided or required to be provided by the Consultant, except those resulting from the negligence of any of the Government of Canada's or the Government of Manitoba's Ministers, officers, servants, employees, or agents, as the case may be.
- D17.5.2 The Consultant agrees that in no event will Canada or Manitoba, their respective officers, servants, employees or agents be held liable for any damages in contract, tort (including negligence) or otherwise, for:
- (a) any injury to any person, including, but not limited to, death, economic loss or infringement of rights;
 - (b) any damage to or loss or destruction of property of any person; or

- (c) any obligation of any person, including, but not limited to, any obligation arising from a loan, capital lease or other long term obligation;

D17.5.3 in relation to this Contract or the Work.

D17.6 Records Retention and Audits

D17.6.1 The Consultant shall maintain and preserve accurate and complete records in respect of this Contract and the Services, including all accounting records, financial documents, copies of contracts with other parties and other records relating to this Contract and the Services during the term of the Contract and for at least six (6) years after Total Performance. Those records bearing original signatures or professional seals or stamps must be preserved in paper form; other records may be retained in electronic form.

D17.6.2 In addition to the record keeping and inspection obligations outlined in C7.16 of the General Conditions for Consultant Services, the Consultant shall keep available for inspection and audit at all reasonable times while this Contract is in effect and until at least six (6) years after Total Performance, all records, documents, and contracts referred to in D17.6.1 for inspection, copying and audit by the City of Winnipeg, the Government of Manitoba and/or the Government of Canada and their respective representatives and auditors, and to produce them on demand; to provide reasonable facilities for such inspections, copying and audits, to provide copies of and extracts from such records, documents, or contracts upon request by the City of Winnipeg, the Government of Manitoba, and/or the Government of Canada and their respective representatives and auditors, and to promptly provide such other information and explanations as may be reasonably requested by the City of Winnipeg, the Government of Manitoba, and/or the Government of Canada from time-to-time.

D17.7 Other Obligations

D17.7.1 The Consultant consents to the City providing a copy of the Contract Documents to the Government of Manitoba and/or the Government of Canada upon request from either entity.

D17.7.2 If the Lobbyists Registration Act (Manitoba) applies to the Consultant, the Consultant represents and warrants that it has filed a return and is registered and in full compliance with the obligations of that Act, and covenants that it will continue to comply for the duration of this Contract.

D17.7.3 The Consultant shall comply with all applicable legislation and standards, whether federal, provincial, or municipal, including (without limitation) labour, environmental, and human rights laws, in the course of providing the Services.

D17.7.4 The Consultant shall properly account for the Services provided under this Contract and payment received in this respect, prepared in accordance with generally accepted accounting principles in effect in Canada, including those principles and standards approved or recommended from time-to-time by the Chartered Professional Accountants of Canada or the Public Sector Accounting Board, as applicable, applied on a consistent basis.

D17.7.5 The Consultant represents and warrants that no current or former public servant or public office holder, to whom the Value and Ethics Code for the Public Sector, the Policy on Conflict of Interest and Post Employment, or the Conflict of Interest Act applies, shall derive direct benefit from this Contract, including any employment, payments, or gifts, unless the provision or receipt of such benefits is in compliance with such codes and the legislation.

D17.7.6 The Consultant represents and warrants that no member of the House of Commons or of the Senate of Canada or of the Legislative Assembly of Manitoba is a shareholder, director or officer of the Consultant or of a Subconsultant, and that no such member is entitled to any benefits arising from this Contract or from a contract with the Consultant or a Subconsultant concerning the Work.

PART E - SCOPE OF SERVICES

E1. DESIGN SERVICES

E1.1 General

- E1.1.1 These Terms of Reference are supplemental to the Standard Terms and Conditions of Consultant Services and the "Definition of Standard Consulting Engineering Services" required by the City of Winnipeg.
- E1.1.2 The consulting services described herein will be provided for the Water and Waste Department (the Department).
- E1.1.3 The Department will provide assistance towards the following services:
- (a) Site access to the Station.
 - (b) Limited provision of non-resident contract administration and inspection services for above.
 - (c) Provide review for design of temporary by-pass pumping of SRS sewer flows
- E1.1.4 The work shall be coordinated in consultation Manitoba Hydro (overhead powerlines immediately east of the gate chamber) and Canadian Pacific Railway (rail tracks immediately west of the gate chamber).
- E1.1.5 The following Engineering Services are required for the Renfrew Outfall Chamber Upgrades:
- (a) Structural engineering services for the design and installation of a new chamber cell for a new flap gate and weir structure, modification of the existing pump out chamber to work in conjunction with the new flap gate chamber. The existing chamber would be modified and the existing slide gate and appurtenances replaced.
 - (b) Removal of the upstream 2440mm and 2700mm in pipe flap gates.
 - (c) Hydraulic analysis to determine the minimum possible size for the flap and slide gates without causing significant head loss under design flow conditions.
 - (d) Provision of survey services to determine project limits, elevations and locations.
 - (e) Condition assessment of existing 2400mm SRS pipes at proposed chamber location back to the flap gate structure and 40 meters down stream of the slide gate chamber.
 - (f) Installation of new access hatches along with a ladder system to enter the Gate Chamber lower level. The Station shall be designed such that temporary ventilation can be added to the Station without restricting egress.
 - (g) Design of temporary by-pass pumping of SRS sewer flows during construction.
 - (h) Coordinate with Manitoba Hydro to bring a new service to the Station.
 - (i) Installation of an exterior Customer Service Termination Enclosure.
 - (j) Programming of the new Schneider Electric M580 PLC.
 - (k) Electrical power connection for the submersible pump and control panel.
 - (l) Design of a duplex submersible pumping solution to provide automatic dewatering of the SRS pipes during dry weather in a 24-hour period, in the existing pump out chamber, including instrumentation and control design. The submersible pumps will be required to be connected to discharge piping complete with valves. Submersible pumps that get installed within a discharge draft tube will not be acceptable.
 - (m) Design of the process piping including but not limited to pump, valves, and fittings
 - (n) Design and installation of force main, valving and discharge piping.
 - (o) Specifications for new flap and slide gates.
 - (p) Design of flap gate installation in new reinforced concrete chamber.
 - (q) Design of slide gate installation in existing concrete chamber.

- (r) Provision of any required building permits necessary to complete the work.
- (s) Provision of any geotechnical and soil testing reports for use in design and obtaining required construction permits.
- (t) Provision for a hydrogeological report for use in creating a dewatering plan for the project.
- (u) Preparation and administration of all Tender documents
- (v) Provision of resident and non-resident Contract Administration services.
- (w) Project close-out services.

E1.1.6 Meetings

- (a) Attend a mandatory meeting with the Design & Construction and Wastewater Services Branches of the Department to review project expectations and limits. The consultant shall ensure that all discipline leads attend the orientation meeting.
- (b) Attend biweekly design progress meetings with the Design & Construction and Wastewater Services Branches of the Department to review design progress. The consultant shall ensure that the project manager and all discipline leads attend the biweekly design progress meetings. Meetings will be used to update progress to date, anticipated submittals, any ongoing project issues along with ask questions to City staff.

E1.1.7 Design Services

- (a) General
 - (i) Allow for a minimum two (2) week review of each submission for review by City staff. Any incomplete submissions will be returned and will require resubmission until stage submission is complete.
 - (ii) The Consultant shall ensure all equipment, instrument and PLC signal tags meet the City of Winnipeg Identification Standard.
 - (iii) Preparation of a Preliminary Design Report complete with description of each discipline work to be performed. The report shall include high level drawings (such as electrical single line diagrams, plan drawings, elevation details, mechanical schedules, P&ID diagrams, etc.) along with an Instrument List to convey the design. Provide options for City staff to select anticipated designs. Provide an excel Drawing Number and Titles of each line of planned drawings to be produced.
 - (iv) Prepare a 66% design review submission complete with Drawings List in excel format, Drawings, Specifications, Instrument list, I/O DNP3 mapping list, Control Narrative report, PLC Programming report and Class II estimate.
 - (v) Prepare a 99% design review submission complete with Drawings, Specifications, Instrument List, I/O DNP3 mapping list, Control Narrative report, PLC Programming report, Shop Drawing Log Submittal and Class I, pre-tender estimate. The pre-tender estimate must be provided to the Department's contact person for review at least ten (10) calendar days prior to tendering.
The project shall not be tendered without this review.
 - (vi) All required technical specifications complete with Form B: Unit Prices, to be included with the Tender documents and construction drawings package.
 - (vii) Construction drawings are to have a Department drawing number assigned before the work is tendered. Drawing numbers shall be requested from the Department's contact person.
 - (viii) Digital files of the construction drawings shall be provided to the Department's contact person when the work is tendered.
 - (ix) Provision of appropriate response to bidders and advice to the Department during the period of tender call and, subject to acceptance by the Department, issuing addenda to the Tender documents.
 - (x) Arrange and attend a tender site investigation during the tendering process.

- (xi) Review Bid submissions for completeness and prepare Bid submission tabulation.
 - (xii) Arrange for a pre-award meeting with the Department and the successful Proponent for which the purpose is:
 - ◆ To establish that the Contractor has received all addenda
 - ◆ To ascertain that the Contractor understands the scope of work in the tender
 - ◆ To determine that the Contractor is capable of meeting the obligations of the detailed in the Tender.
 - ◆ To secure advisement by the Contractor of intended methods, materials, stages, timelines or sequences of the Contract that are of interest to the Department.
 - ◆ To afford the opportunity for each participant to fulfil the obligation of disclosing any known obstacle(s) to the conduct of the Contract, or of any expectation of significant revision thereof, if known at that time.
 - (xiii) Preparation of a report containing recommendation regarding award of contract and identifying reasons thereof, including identifying and explaining any variations in cost from the original engineer's estimate to the submitted Contract cost.
 - (xiv) Provision of any geotechnical reports and documents required to assist the Department with acquiring a valid Waterways By-law Permit prior to any construction activities.
 - (xv) Lead biweekly construction meetings on site and Microsoft Teams and distribute meeting minutes after each meeting has concluded.
 - (xvi) Each discipline shall perform at minimum bi-weekly construction site inspections to verify construction works conforms with contract documents.
 - (xvii) Review and approval of shop drawings submitted by the Contractor and/or Supplier(s).
 - (xviii) Provision of report outlining condition assessment of existing outfall pipe.
 - (xix) Provide the Contractor with assistance in obtaining any required permits necessary for the commencement of construction.
 - (xx) Coordinate with the Contractor, the Department and other relevant parties any commissioning activities required before any components of the work can be put into active service.
 - (xxi) Witness Contractor commissioning and ensure commissioning forms are filled out.
 - (xxii) Review of Contractor Operations & Maintenance manual for completeness.
 - (xxiii) Provide project close out services and issue sealed Record documents.
- (b) Structural, Civil and Electrical Engineering:
- (i) The flap and slide gates should be fabricated from cast iron and have bronze seating faces.
 - (ii) Chamber design with all reinforcing steel requirements.
 - (iii) Chamber modifications required in the existing structure roof/ frame and cover to facilitate entry and exit of chamber by City staff and removal of equipment from ground surface.
 - (iv) Removal of existing slide gate from the existing chamber.
 - (v) Installation of a sump pit, weir structure and submersible pumps including accessories for pump control, automation and discharge piping.
 - (vi) If possible, the weir can be the raised invert of the flap gate in wall structure of the Chamber. Removable weir or stop logs are not acceptable.
 - (vii) Discharge water from the submersible pump to be directed to the Academy combined trunk sewer and downstream of the slide gate. Installations to including all piping, valves and appurtenances.

- (viii) Perform head loss calculations for the new chamber and size control gates to be as small as possible without significantly affecting upstream water levels.
- (ix) Size submersible pump to dewater the SRS within 24 hours of a rain event assuming a river level of eight (8) feet James Avenue datum.
- (x) Flap gate invert to be raised and sump pump to be positioned so as to provide minimum cover as per pump manufacturers recommendation during pump operation when pipe is being dewatered.
- (xi) Submersible pump to be rated for “continuous operation in a dry-pit environment”. A submersible pump installed inside a draft tube will not be acceptable.
- (xii) Submersible pump with a retrieval system (guide rails and lifting cable) to enable the pump to be lifted and removed from the chamber at ground level for inspection and maintenance.
- (xiii) Pump automation design, to be provided to the City for review and acceptance, which shall include the following:
 - ◆ The electrical pump control panel shall be heated, complete with all cabling,
 - ◆ conduits and connections for pump operation by automatic remote with manual over-ride capability.
 - ◆ PLC shall be Schneider Electric M580 and be mounted and installed in a control cabinet.
 - ◆ PLC control cabinet temperature to be monitored using a 4-20 mA temperature transmitter
 - ◆ Design PLC program and configuration is to be consistent with the configurations used at other CoW wastewater facilities and will be reviewed by City E&I Maintenance Branch.
 - ◆ All new instruments such as level and flow transmitters are required to be Siemens manufacturer with model numbers that comply with City of Winnipeg Standardized Instruments.
 - ◆ I/O assignments to be reviewed by City E&I Maintenance Branch.
 - ◆ Loop drawings to be reviewed by City E&I Maintenance branch, but this review does not relieve the consulting engineer of the requirement to ensure a fully operational and safe system.
 - ◆ All controls to be 24 VDC complete with a UPS battery backup. UPS battery shall be detachable and utilize a 12 AH battery pack.
 - ◆ Wire colors to be consistent with COW standard.
 - ◆ On/off level-based pump control with manual override to be duplicated within new control cabinet, with a Siemens 24 VDC ultrasonic level transmitter to be used. The PLC (in PLC mode) or the level controller (in Local mode) can operate the pump(s) based on the level sensing.
 - ◆ Remote pump operation capability to be provided and provide pump lock-out capability from SCADA.
 - ◆ Float switch will be used to provide a low-level alarm. Float elevation to be recorded in geodetic and the length of cable between the floats and their mounting brackets to be permanently marked on the mounting brackets.
 - ◆ Sump level transmitter analogue signal and loss of echo fault to be brought to PLC.
 - ◆ All I/O signals, alarms and any other points as identified by the city’s staff must be sent to CoW existing SCADA system using DNP3. A cellular modem will be provided by CoW
 - ◆ Geodetic elevation of level transducer face to be determined and recorded. Reference of transducer face level to be permanently marked where it is mounted in order to facilitate its future replacement. Level

transmitter to be configured for operation and its parameters are to be recorded and provided to the city.

- ◆ Pump Auto/Off/Manual switch status, and ready and fault signals to be brought to PLC.
 - ◆ RST ICEx360A inclinometer to be installed on Flap gate and analogue signal to be brought to PLC. Zero and span of inclinometer to be verified in place.
 - ◆ Intrinsically safe barriers shall be employed as required for all instruments.
 - ◆ Loop drawings to be provided to city for review.
 - ◆ Commissioning and testing of all controls to be performed by or under the supervision of the Consulting Contract Administrator, and will be verified with the city only after this successful commissioning. Commissioning will include testing all points and signals back to the CoW SCADA system. A final commissioning report of all controls will be provided to the city.
 - ◆ Coordination with Manitoba Hydro for required power supply.
 - ◆ Provide electrical connection/termination to power supply with Manitoba Hydro.
 - ◆ Protection coordination diagrams to be provided to the city.
 - ◆ A new electrical distribution panel complete with PLC Control Panel and combination motor starters for pumps will be required to be in one (1) complete exterior enclosure. Provide TVSS and power fail signals to the PLC for monitoring.
 - ◆ Provide new explosion proof lighting along with emergency lighting in the Gate Chamber lower levels. Lights shall be connected to a switch within the electrical enclosure.
 - ◆ Arc flash study to be completed using SKM software.
 - ◆ SKM files and single line drawing to be submitted to the city.
 - ◆ Arc flash energies to be kept as low as reasonably attainable.
 - ◆ Weatherproof and vandal protected arc flash warning labels to be provided as per city standard and CSA Z462 standards.
 - ◆ Hazardous zones to be identified and illustrated on electrical drawings.
 - ◆ Provision shall be made to electrically isolate and lock out equipment.
- (xiv) New CSO instruments shall be added including: flap gate inclinometer transmitter, gate chamber level transmitter, upstream of weir level transmitter, downstream of weir level transmitter and weir overflow level float switch. CSO instrumentation shall tie into a new CSO panel complete with digital displays for each instrument monitoring. CSO signals shall also be brought to PLC for remote monitoring. CSO instruments are required to be tied into UPS backup power.
- (xv) Miscellaneous appurtenances such as equipment hoist and crane receptacles, hatches and ladders (to be designated by the Department's contact person).
- (xvi) Excavation requirements and limits.
- (xvii) Backfill requirements and limits.
- (xviii) All applicable forces and loadings (both during construction and after backfilling) shall be taken into consideration for the design of each component indicated above and/or additional components included to this assignment.
- (xix) Miscellaneous appurtenances such as equipment hoist and crane receptacles, hatches and ladders.
- (xx) All building code requirements to be satisfied.
- (xxi) All miscellaneous surface restorations

E1.2 Construction Documents

- (a) All drawings are to be drawn in accordance with The City of Winnipeg Manual for Production of Construction Drawings and Departmental requirements.
- (b) Construction Documents are to be prepared by the Consultant and will be included by the Tender Documents. Provide digital PDF's of the Construction Drawings to be posted on the City of Winnipeg web site for the bidding period.
- (c) All drawings are required to be produced using AutoCAD standard software. Using any other software platform and converting to AutoCAD will not be acceptable. All AutoCAD drafting shall follow City of Winnipeg drafting standards.
- (d) The Department's contact person will provide drawing numbers for the construction drawings prepared by the Consultant.
- (e) All drawings that include plans, elevations and section details are required to be metric scaled with all unique scalebars shown on the drawings.
- (f) The following General Construction Documents will be required to be produced by the Consultant and reviewed by the City prior to the project going to Tender:
 - (i) Cover sheet showing station location.
 - (ii) Drawing index including drawing numbers and titles. Drawings shall be separated out for each discipline.
 - (iii) Shop Drawing Submittal List including all Contractor submittals required along with Specification section and Drawing number reference where submittal can be found.
- (g) The following Structural Construction Drawings will be required to be produced by the Consultant and reviewed by the City prior to the project going to Tender:
 - (i) Structural plans, elevations and details. Revision 00 shall be for any demolition work and revision 01 for any new work.
 - (ii) Structural plans and elevations.
 - (iii) Concrete re-enforcing details.
 - (iv) Ladder and entry hatch details.
- (h) The following Mechanical Construction Drawings will be required to be produced by the Consultant and reviewed by the City prior to the project going to Tender:
 - (i) Mechanical piping plan and elevation details.
- (i) The following Electrical Construction Drawings and Documents will be required to be produced by the Consultant and reviewed by the City prior to the project going to Tender:
 - (i) Single line diagram complete with panel and luminaire schedules. Include details for emergency lighting and controls.
 - (ii) Site plan including property lines shown. Manitoba Hydro scope of work along with Contractor scope of work shall be clearly identified.
 - (iii) Hazardous location plan including section view showing all floor levels.
 - (iv) Grounding installation details
 - (v) Electrical plan layout including sections view(s) showing all floor levels to show all electrical instruments, lighting, receptacles and motors. All lighting and receptacles shall show circuit numbers.
 - (vi) Electrical enclosure elevation details including showing where all electrical equipment (panel boards, motor starters, meters, miscellaneous equipment, etc.) are located along with all equipment lamacoids.
 - (vii) Separate motor schematics for each motor/pump. All motor schematic branches shall be clearly labelled to indicate what the branch control does. All signals tying into the PLC shall be clearly shown.
 - (viii) Separate motor connection diagrams clearly showing all control field wires for electrical instruments and PLC control panel.
- (j) The following Automation Construction Drawings and Documents will be required to be produced by the Consultant and reviewed by the City prior to the project going to Tender:

- (i) Automation plan drawing showing all automation instruments. Include a section view to show all station floor levels indicating elevations at each level.
 - (ii) PLC control panel arrangement and bill of materials. Include an extra sheet to show all control panel terminal blocks arrangement along with PLC rack layouts and PLC pre-manufactured cables.
 - (iii) PLC power distribution schematic with 120 VAC and 24 VDC distribution clearly separated along with redundant power supplies.
 - (iv) PLC networking block diagram clearly showing how wireless and wired connections are made to the PLC
 - (v) Separate PLC card schematic drawings for each PLC card is required including showing terminal connection points. All signals shall terminate on terminal blocks with pre-manufactured cabling connecting to the PLC cards.
 - (vi) Pump control schematic clearly showing PLC and Local modes of operation. The automatic pump control operation shall automatically switch to local mode when the PLC fails. Local mode pump control is done directly by relays on the level controller, PLC mode pump control is done through the PLC discrete output card.
 - (vii) Intrinsically safe junction box arrangement and bill of materials.
 - (viii) Separate loop diagrams for each instrument. For instruments that utilize common controls such as dampers, it is acceptable to include on the same loop diagram. Include content for any instrument alarming details. All instrument signals shall be clearly indicated on loop diagrams for tie in to the PLC for monitoring. For instruments that appear on multiple loop diagrams, notes shall be provided to describe operation and reference to applicable loop diagrams.
 - (ix) Loop diagram for CSO Panel connections.
 - (x) CSO Panel layout and wiring details.
 - (xi) Control Narrative (Functional Requirements Specification) in report format for programming of the PLC. The Control Narrative shall include all manual and automatic operation of all equipment in the station, instrument physical tags to PLC tag mapping, all content on HMI Graphic Display Windows, internal PLC variables, all PLC alarm & control logic.
 - (xii) Instrument List including reference to specification section and drawing(s).
 - (xiii) Input/output DNP3 List including internal PLC generated signals including terminal numbers and DNP3 addresses. All internal software signals are required to be indicated as well.
- (k) The following Process Construction Drawings will be required to be produced by the Consultant and reviewed by the City prior to the project going to Tender:
- (i) Gate Pumping P&ID including pump duty control setpoints and key elevations (high Gate Chamber level, Gate Chamber bottom, etc.). All pump signals (between PLC and run operation of the pumps as shown on pump motor schematics) shall be clearly shown on the P&ID.
 - (ii) Process Piping Plan, Section Views and Details. The pump arrangement shall be illustrated.
 - (iii) 3D Isometric plan drawing including all CSO instruments, pipe sizes, gates, weir(s), all equipment elevations, instrument junction boxes and instrument connections to CSO panel.
- (l) The following PLC Programming Construction Documents will be required to be produced by the Consultant and reviewed by the City prior to the project going to Tender:
- (i) PLC Programming in report format. The PLC Programming report shall include a table of content, setup of each I/O card, a section for mapping of signal and internal variables, the general PLC program structure, control details of all alarm and control logic along with screenshots of the HMI windows.

E2. CONTRACT ADMINISTRATION SERVICES

E2.1 Non-Resident Services

- (a) Personnel with demonstrated experience in the design and contract administration of the mechanical, electrical, structural, and civil components of the Works are to be assigned to this project.
- (b) Consultation with and advice to the Department during the course of construction.
- (c) Coordinate and conduct a pre-construction meeting with all other relevant parties in attendance and provide minutes of meeting to all in attendance and those to be copied.
- (d) Review and acceptance of shop drawings and manufacturers' drawings supplied by the Contactor or supplier to ensure to the Department that the shop drawings are in conformance to the contract Drawings and Specifications, without relieving the Contractor of his contractual and legal obligations in respect thereof.
- (e) Review and report to the Department upon laboratory, shop and other tests conducted upon materials and /or equipment placed or installed by the Contractor to ensure to the Department conformance to the contract Drawings and Specifications, without relieving the Contractor of his contractual and legal obligations in respect thereof.
- (f) Acceptance of alternate materials and methods, subject to prior acceptance by the Department, without relieving the Contractor of his contractual and legal obligations in respect thereof.
- (g) Submit monthly contract progress estimates to be processed in a timely fashion in accordance with the General Conditions of the City of Winnipeg Standard Construction Specifications.
- (h) Provide a detailed monthly "Cost to Complete" report. This report is to include the actual costs to date, plus projected costs to complete the project including allowances for any unforeseen cost with explanation and justification. The report shall identify any expected budget overruns or surpluses.
- (i) Furnish copies to the Department of all significant correspondence relating directly or indirectly to the project by parties external to the Consultant's Contract Administrator (Contract Administrator).
- (j) Submit to the Department, prior to construction, a report documenting written and photographic records of, and assessments of the physical condition of adjacent buildings, facilities, surface conditions and other infrastructure sufficient to equip the Consulting Contract Administrator to provide valid evidence and relevant testimony in settlement of any claim involving the City by any court of law or by any other party thereto arising from the project.
- (k) Consultant billings are to indicate the fee breakdown for the submitted invoice as well as the total fees to date.
- (l) Billings are to be adjusted to indicate the 2% of the actual construction value holdback until as-constructed drawings have been submitted. Invoices submitted without this breakdown will be returned.
- (m) Approved allowable disbursements and laboratory testing costs are to be shown as separate sub-totals from the fee charges.
- (n) Assist the Contractor in obtaining applicable building permits (including electrical, mechanical, structural, new building construction, etc.).
- (o) The Consulting Contract Administrator will be required to attend the Factory Acceptance Testing (FAT) to be performed at the supplier shop who will be constructing the new PLC Control Panel. If the supplier shop is located in Winnipeg then the Consultant will attend in person if restrictions allow. Otherwise the Consultant will be required to attend virtually over Microsoft Teams.

E2.2 Resident Services

- (a) Personnel with demonstrated experience in the design and contract administration of the mechanical, process, automation, electrical, structural, and civil components the Works are to be assigned to this project.

- (b) Ensure that Quality Assurance/Quality Control (Qa/Qc) is undertaken to Building Code requirements and Departmental standards.
- (c) Arrange for regular job meetings at the worksite or near the worksite throughout the duration of the contract work. The meetings are to be attended by the Consulting Contract Administrator or his/her designate as well as the on-site Inspector, the Contractor and the Department's contact person. At minimum, all Consultant Key Personnel will be required to attend a site visit to the station at least once a month to monitor the Contractor work and ensure construction work follows the contract documents. The Consultant will be required to show pictures of Construction during virtual.
- (d) Arrange for biweekly construction meetings on site and over Microsoft Teams between the Consultant (including all key personnel), City staff and Contractor staff.
- (e) Minutes of all site meetings shall be recorded and distributed to all in attendance and the copy list. Meeting minutes shall be distributed no later than two (2) business days after the meeting has finished.
- (f) Without relieving the Contractor of his contractual and legal obligations in respect thereof, conduct detailed inspection of construction sufficient to ensure that the Work carried out by the Contractor is in conformance with the Drawings and Specifications.
- (g) Co-ordination and staging of other works by third parties on the site including, but not limited to, Hydro, Gas, Communications and other City forces. The Consultant key personnel will be required to attend site visits whenever applicable discipline inspections will be carried out by the Authority Having Jurisdiction. The Consulting Contract Administrator shall after the conclusion of each inspection, notify the Contract Administrator in writing noting any deficiencies found by third party inspectors along with results of the inspection.
- (h) Reports are to be promptly made the Department's contact person regarding unusual or changed site conditions which may or will result in extra work to the project.
- (i) All extra work to the project must be reviewed and approved by the Department's contact person prior to approval being given to the Contractor to undertake the Work.
- (j) Extra work to the project shall not exceed 20% of the awarded contract amount to a maximum of \$250,000.00. The Contract Administrator will be responsible to project final construction costs throughout the duration of the project to ensure the project remains with the budget allowance.
- (k) Keep a continuous and accurate record of working days and days lost due to inclement weather or other unforeseen circumstances during the course of construction.
- (l) In conjunction with the Department, provision of advance notice to adjacent residents and businesses who will have public services and/or access disruptions during construction.
- (m) Enforcement of contractor conformance with the City of Winnipeg Manual of Temporary Traffic Control in Work Areas on City streets in compliance with expected standards of safety for motorists and pedestrians, without relieving the Contractor of his contractual and legal obligations in respect thereof.
- (n) Acting in the interest of the Department, provide responsible, sensitive and prompt reaction to the reasonable requests and complaints of citizens regarding the conduct of the project.
- (o) Arranging for and carrying out testing of materials to ensure conformance with the Drawings and Specifications, without relieving the Contractor of his contractual and legal obligations in respect thereof.
- (p) The Consultant will be required to test each I/O point and the Control Logic of the new PLC once installed at the station back to SCADA.
- (q) The Consultant will be required to attend commissioning site visits to ensure proper testing is performed. Prepare and submit commissioning field reports including date & time, all staff in attendance (Consultant, Contractor, City staff), general scope, work completed, items requiring completion and/or changes and other items.

- (r) Ensure the Contractor fills out the required commissioning forms for each commissioning site visit to be incorporated into the O&M manual. City staff will be required to be on site during commissioning activities to witness commissioning.

E2.3 Final Inspections and Project Acceptance

- (a) As coordinated with the Department's contact person and the Contractor, provide inspection of the completed Works to establish the project milestones of Substantial Performance, Total Performance, and Final Acceptance of the completed project.
- (b) Complete and submit record documents of the completed mechanical, electrical, automation, process, structural, and civil works to the Department contact for review within two (2) months from the date of project construction work reaching Total Performance.
- (c) Coordinate with the Installation Contractor and Equipment Supplier for all required site testing and commissioning services.
- (d) Coordinate with the Installation Contractor and Equipment Supplier to provide a minimum of four (4) on-site training sessions to provide instruction to City staff on the safe operation of all new equipment including recommended maintenance tasks and schedules.
- (e) Review and acceptance of O&M manual submissions.
- (f) Coordinate with the Installation Contractor and Equipment Suppliers to compile and provide five (5) full sets of all Operation & Maintenance manuals for newly installed equipment and devices. All sets to be provided to the City in paper hardcopy and USB stick drive.
- (g) Assist the Contractor in closing out the applicable building permits (electrical, mechanical, structural, building occupancy, etc.).
- (h) Perform a warranty inspection site visit approximately eleven (11) months after the date of Substantial Completion has been achieved with the Contractor and City staff. Prepare and submit a deficiency report and arrange for the Contractor to have the deficient items addressed.

E2.4 Record Documents

- (a) All sealed Construction documents produced for the project are required to be updated to become sealed Record Documents. The Record Documents shall include all changes from the final construction work.
- (b) The preliminary record document submission is to consist of a drawing transmittal letter to the Department's Supervisor of Drafting & Graphic Services, copied to the Department's contact person, and along with one (1) complete set of full-size (A1) drawings prints for the Works.
- (c) The final record documents are to be sealed by a Professional Engineer with tracked document revision history.
- (d) Record drawings are to include all construction details and materials of the completed works, including the following:
 - (i) All construction details,
 - (ii) Complete materials list for each individual component installed,
 - (iii) Date of installation of Works (Substantial Performance),
 - (iv) Installation Contractor.
- (e) The reviewed record documents will be returned with comments (if any) for completion. Once all revisions have been made, submit one (1) complete set of full size (A1) drawing mylars for the Works, complete with the preliminary prints with comments, and the digital AutoCAD file for each record drawing to the Department's Supervisor of Drafting & Graphic Services. The digital drawing file must have the Water and Waste Department drawing number assigned to that drawing number. Ensure the AutoCAD files have been cleaned up to remove all unused content that is not shown in the Paper layout tab and that each viewport has shown in the Model space includes viewport boundary window.

- (f) Record documents shall include:
 - (i) Control Narrative Report,
 - (ii) PLC Programming Report,
 - (iii) Arc Flash Study.

APPENDIX A – RENFREW OUTFALL GATE CHAMBER UPGRADES HISTORICAL RECORD DRAWINGS

DRAWINGS

- SC15557
- SC15558
- LD-254 A
- LD-254 B
- LD-254 C
- LD-244

APPENDIX B – DEFINITION OF PROFESSIONAL CONSULTANT SERVICES (CONSULTING ENGINEERING SERVICES)