

THE CITY OF WINNIPEG

BID OPPORTUNITY

793-2006 BID OPPORTUNITY

WINNIPEG WATER TREATMENT PROGRAM – CONSTRUCTION OF WATER TREATMENT PLANT BUILDING ENVELOPE

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 WINNIPEG WATER TREATMENT PROGRAM – CONSTRUCTION OF WATER TREATMENT PLANT BUILDING ENVELOPE

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 12:00 noon Winnipeg time, April 13, 2007.
- B2.2 Bids determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.
- B2.3 The 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 Further to C3.1, the Contract Administrator or an authorized representative will be available at the Site from 11:00 a.m. to 12:00 noon on April 2, 2007 to provide Bidders access to the Site.
- B3.2 The Bidder shall not be entitled to rely on any information or interpretation received at the Site investigation unless that information or interpretation is the Bidder's direct observation, or is provided by the Contract Administrator in writing.

B4. ENQUIRIES

- B4.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.
- B4.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.
- B4.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.
- B4.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.
- B4.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Contract Administrator in writing.

B5. ADDENDA

- B5.1 The Contract Administrator may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.
- B5.2 The 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.
- B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at http://www.winnipeg.ca/matmgt.

- B5.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Branch internet site for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B5.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 10 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B6. SUBSTITUTES

- B6.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.
- B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.
- B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:
 - (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
 - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
 - (c) identify any anticipated cost or time savings that may be associated with the substitute;
 - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance:
 - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an "approved equal" or as an "approved alternative", or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B6.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an "approved equal", any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an "approved alternative", any Bidder bidding that approved alternative may base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B15.

B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

B7. BID COMPONENTS

- B7.1 The Bid shall consist of the following components:
 - (a) Form A: Bid;
 - (b) Form B: Prices;
 - (c) Form G1: Bid Bond and Agreement to Bond, or Form G2: Irrevocable Standby Letter of Credit and Undertaking, or a certified cheque or draft;
- B7.2 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Bid.
- B7.3 The Bid shall be submitted enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address.
- B7.3.1 Samples or other components of the Bid which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid.
- B7.4 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.5 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, may result in the Bid being determined to be non-responsive.
- B7.6 Bids submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.
- B7.7 Bids shall be submitted to:

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

B8. BID

- B8.1 The Bidder shall complete Form A: Bid, making all required entries.
- B8.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
 - (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted:
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his 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 Bid 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, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B8.4 Paragraph 12 of Form A: Bid shall be signed in accordance with the following requirements:
 - (a) if the Bidder is a sole proprietor carrying on business in his own name, it shall be signed by the Bidder:
 - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, should be affixed;
 - (d) if the Bidder is carrying on business under a name other than his 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 shall be printed below such signatures.
- B8.4.2 All signatures should be witnessed, except where a corporate seal has been affixed.
- B8.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

B9. PRICES

- B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.
- B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

B10. QUALIFICATION

- B10.1 The Bidder 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; and
 - (b) be financially capable of carrying out the terms of the Contract; and
 - (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.
- B10.2 The Bidder and/or any proposed Subcontractor (for the portion of the Work 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 Branch internet site at http://www.winnipeg.ca/matmgt); and
 - (b) have successfully carried out work similar in nature, scope and value to the Work; and
 - (c) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
 - (d) have a written workplace safety and health program if required pursuant to The Workplace Safety and Health Act (Manitoba);

- B10.3 Further to B10.2(d), the Bidder shall, within three (3) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:
 - (a) a valid COR certification number under the Certificate of Recognition (COR) Program administered by the Manitoba Construction Safety Association or by the Manitoba Heavy Construction Association's Safety, Health and Environment Program; or
 - (b) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at http://www.winnipeg.ca/matmgt.)
- B10.4 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.
- B10.5 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B11. BID SECURITY

- B11.1 The Bidder shall provide bid security in the form of:
 - (a) a bid bond, in the amount of at least ten percent (10%) of the Total Bid Price, and agreement to bond of a company registered to conduct the business of a surety in Manitoba, in the form included in the Bid Submission (Form G1: Bid Bond and Agreement to Bond); or
 - (b) an irrevocable standby letter of credit, in the amount of at least ten percent (10%) of the Total Bid Price, and undertaking issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form included in the Bid Submission (Form G2: Irrevocable Standby Letter of Credit and Undertaking); or
 - (c) a certified cheque or draft payable to "The City of Winnipeg", in the amount of at least fifty percent (50%) of the Total Bid Price, drawn on a bank or other financial institution registered to conduct business in Manitoba.
- B11.1.1 If the Bidder submits alternative bids, the bid security shall be in the amount of the specified percentage of the highest Total Bid Price submitted.
- B11.1.2 All signatures on bid securities shall be original, and shall be witnessed or sealed as required.
- B11.2 The bid security of the successful Bidder and the next two lowest evaluated responsive and responsible Bidders will be released by the City when a Contract for the Work has been duly executed by the successful Bidder and the performance security furnished as provided herein. The bid securities of all other Bidders will be released when a Contract is awarded.
- B11.2.1 Where the bid security provided by the successful Bidder is in the form of a certified cheque or draft pursuant to B11.1(c), it will be deposited and retained by the City as the performance security and no further submission is required.
- B11.2.2 The City will not pay any interest on certified cheques or drafts furnished as bid security or subsequently retained as performance security.
- B11.3 The bid securities of all Bidders will be released by the City as soon as practicable following notification by the Contract Administrator to the Bidders that no award of Contract will be made pursuant to the Bid Opportunity.

B12. OPENING OF BIDS AND RELEASE OF INFORMATION

- B12.1 Bids will be opened publicly, after the Submission Deadline has elapsed, in the office of the Corporate Finance Department, Materials Management Branch, or in such other office as may be designated by the Manager of Materials.
- B12.1.1 Bidders or their representatives may attend.
- B12.1.2 Bids determined by the Manager of Materials, or his designate, to not include the bid security specified in B11 will not be read out.
- B12.2 Following the submission deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at http://www.winnipeg.ca/matmgt.
- B12.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at http://www.winnipeg.ca/matmgt.
- B12.4 The Bidder is advised that any information contained in any Bid may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B13. IRREVOCABLE BID

- B13.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 11 of Form A: Bid.
- B13.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work until a Contract for the Work has been duly executed and the performance security furnished as herein provided, but any Bid shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 11 of Form A: Bid.

B14. WITHDRAWAL OF BIDS

- B14.1 A Bidder may withdraw his Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B14.1.1 Notwithstanding C23.3, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.
- B14.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 12 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B14.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
 - (a) retain the Bid until after the Submission Deadline has elapsed;
 - (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 12 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B14.1.3(b), declare the Bid withdrawn.
- B14.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B13.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative

Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law, including the right to retain the Bidder's bid security.

B15. EVALUATION OF BIDS

- B15.1 Award of the Contract shall be based on the following bid evaluation criteria:
 - (a) compliance by the Bidder with the requirements of the Bid Opportunity (pass/fail);
 - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B10 (pass/fail);
 - (c) Total Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B6.
- B15.2 Further to B15.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities, if the interests of the City so require.
- B15.3 Further to B15.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid or in other information required to be submitted, that he is responsible and qualified.
- B15.4 Further to B15.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.
- B15.4.1 If there is any discrepancy between the Total Bid Price written in figures, the Total Bid Price written in words and the sum of the quantities multiplied by the unit prices for each item, the sum of the quantities multiplied by the unit prices for each item shall take precedence.
- B15.5 This Contract may be awarded as a whole (Alternative 1) or separately by item (Alternative 2) as identified on Form B: Prices.
- B15.5.1 Notwithstanding B9.1, the Bidder may, but is not required to, bid on both alternatives, or on any one or more items in Alternative 2.
- B15.5.2 The City shall not be obligated to award any item to the responsible Bidder submitting the lowest evaluated responsive Bid for that item and shall have the right to choose the alternative which is in its best interests. If the Bidder has not bid on both alternatives or on all items in Alternative 2, he shall have no claim against the City if his partial Bid is rejected in favour of an award of the Contract on the basis of an alternative or item upon which he has not bid.

B16. AWARD OF CONTRACT

- B16.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B16.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.
- B16.2.1 Without limiting the generality of B16.2, the City will have no obligation to award a Contract where:
 - (a) the prices exceed the available City funds for the Work;
 - (b) the prices are materially in excess of the prices received for similar work in the past;
 - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
 - (d) only one Bid 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.
- B16.3 Subject to B16.2, where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid.
- B16.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his Bid upon written request to the Contract Administrator.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The General Conditions for Construction (Revision 2006 12 15) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for Construction* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at http://www.winnipeg.ca/matmgt.
- C0.2 A reference in the Bid Opportunity to a section, clause or subclause with the prefix "C" designates a section, clause or subclause in the *General Conditions for Construction*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for Construction*, these Supplemental Conditions are applicable to the Work of the Contract.

D2. SCOPE OF WORK

- D2.1 The Work to be done under the Contract shall consist of the Construction of the Water Treatment Plant Building Envelope.
- D2.2 The major components of the Work are as follows:
 - (a) Construction of all masonry work including metal fabrications, joint sealants at masonry work, steel doors and frames, coiling doors, glass and glazing;
 - (b) Construction of all Metal Cladding including rough carpentry, self-adhering waterproofing, building insulations, air barriers, firestopping and smoke seals, joint sealants between metal cladding work and between metal cladding and other work;
 - (c) Construction of aluminium curtain wall and entrances.

D3. DEFINITIONS

- D3.1 When used in this Bid Opportunity:
 - (a) **Business Day** means any Calendar Day, other than a Saturday, Sunday, or a Statutory or Civic Holiday;
 - (b) **Submission Deadline** and **Time and Date Set for the Final Receipt of Bids** mean the time and date set out in the Bidding Procedures for final receipt of Bids;
 - (c) **Supply Contractor** means a contractor retained by the City, under a separate contract, to supply City Supplied Equipment which shall be installed by the Contractor;
 - (d) City Supplied Equipment means equipment purchased by the City under a separate contract which is supplied into the care of the Contractor for installation under this Contract.
 - (e) ANSI means American National Standards Institute
 - (f) ASME means American Society of Mechanical Engineers
 - (g) ASTM means American Society for Testing and Materials
 - (h) AWWA means American Water Works Association
 - (i) CSA means Canadian Standards Association
 - (j) **DAF** means Dissolved Air Flotation
 - (k) IEC means International Electrotechnical Commission
 - (I) ISO means International Organization for Standardization
 - (m) **NACE** means National Association of Corrosion Engineers
 - (n) **NEMA** means National Electrical Manufacturers Association
 - (o) NSF means National Sanitation Foundation
 - (p) **SAE** means Society of Automotive Engineers
 - (q) Manufacturer means the person, partnership or corporation responsible for the manufacture and fabrication of equipment supplied by the Contractor for the completion of the Work.

- (r) Manufacturer's Representative means a trained serviceman empowered by the Manufacturer to provide installation, testing, and commissioning assistance to the Contractor in his performance of those functions.
- (s) **IEEE** means Institute of Electrical and Electronics Engineers
- (t) **NEMA** means National Electrical Manufacturer's Association
- (u) Furnish means supply
- (v) ISA means the Instrumentation Systems and Automation Society
- (w) AGMA means American Gear Manufacturer's Association.
- (x) Contract Work Schedule means a Gantt Charter developed by the Contractor developed using the critical path method which shows the proposed progress of the major items of work which are to be performed under this Contract
- (y) Project Master Schedule means a schedule developed by the Contract Administrator which includes and coordinates the Contract Work Schedules of several City contracts, including this Contract
- (z) Professional Engineer means a professional engineer registered in the Province of Manitoba.
- (aa) **Major Equipment** means all equipment for which Shop Drawing submittals are required as specified herein.
- (bb) **Performance Verification** means all factory and field tests, demonstrations and other activities required from the Contractor to complete all required Forms 103 Certificate of Satisfactory Performance and to demonstrate to the Contract Administrator's satisfaction that the equipment installed under this Contract is performing as specified herein.
- (cc) Certified Shop Drawings means Shop Drawings prepared by the Contractor after all required Shop Drawings have been "reviewed" or "reviewed as modified" in accordance with Section 01300 of this Bid Opportunity and which incorporate all modifications to the Shop Drawings, comments and notations made by the Contract Administrator in the course of the review.
- (dd) **Acceptable Shop Drawings** means all required Shop Drawings have been reviewed by the Contract Administrator and have been annotated and stamped as "reviewed" or "reviewed as modified" in accordance with Section 01300 of this Bid Opportunity.
- (ee) **WTP** means the Winnipeg Water Treatment Plant and includes the structure and all equipment and materials supplied and installed into the building, under multiple construction contracts, including portions of the Work provided under this Contract.
- (ff) **City Warehouse** means the enclosed and heated City owned warehouse located at 1500 Plessis Road, Winnipeg, Manitoba.
- (gg) **Record Drawings** means a minimum of one (1) complete set of Contract Documents and Certified Shop Drawings maintained at the Contractor's Site office on which the Contractor clearly shall clearly record in red pencil all Addenda, Change Orders, Field Instructions, and other revisions or as-built conditions which deviate from the original Contract Documents or Certified Shop Drawings.
- (hh) **O&M** means operation and maintenance
- (ii) **PVC** means polyvinyl chloride
- (ii) **ULC** means Underwriter's Laboratories of Canada
- (kk) AWS means American Welding Society
- D3.1.1 The definitions of technical terms, abbreviations, and symbols will be those of the American Society for Testing and Materials, Canadian Standards Association and the applicable Codes and Standards. In the event of a dispute, the Contract Administrator's decision will be final.

D3.1.2 The Manufacturer and Manufacturer's Representative are not parties to this Contract. All work required from the Manufacturer and Manufacturer's Representative shall be provided and coordinated by the Contractor.

D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is UMA Projects (CM) Ltd., represented by:

Gord Smith, P. Eng. 1479 Buffalo Place Winnipeg, MB, R3T 1L7

Telephone No. (204) 986-4249 Facsimile No. (204) 986-8393

D4.2 At the pre-construction meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D5. CONTRACTOR'S SUPERVISOR

D5.1 At the pre-construction meeting, the Contractor shall identify his designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D6. NOTICES

- D6.1 Except as provided for in C23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.
- D6.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D6.3, D6.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D4.1.
- D6.3 All notices of appeal to the Chief Administrative Officer shall be sent to the following address or facsimile number:

The City of Winnipeg Chief Administrative Officer Secretariat Attn: Chief Administrative Officer Administration Building, 3rd Floor 510 Main Street Winnipeg MB R3B 1B9

Facsimile No.: (204) 949-1174

D6.4 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:

The City of Winnipeg Corporate Services Department Legal Services Division Attn: City Solicitor 185 King Street, 3rd Floor Winnipeg MB R3B 1J1

Facsimile No.: (204) 947-9155

D7. FURNISHING OF DOCUMENTS

D7.1 Upon award of the Contract, the Contractor will be provided with five (5) complete sets of the Bid Opportunity. If the Contractor requires additional sets of the Bid Opportunity, they will be supplied to him at cost.

SUBMISSIONS

D8. AUTHORITY TO CARRY ON BUSINESS

D8.1 The Contractor 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 Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D9. SAFE WORK PLAN

- D9.1 The Contractor shall provide the 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 C4.1 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 Branch internet site at http://www.winnipeg.ca/matmgt.

D10. INSURANCE

- D10.1 The City will provide and maintain the following Project Insurance Coverages:
 - (a) Builder's Risk Insurance in the amount of one hundred percent (100%) of the total project cost.
 - (i) The Contractor shall be responsible for deductibles up to \$10,000.00 maximum of any one loss.
 - (b) Wrap-Up Liability Insurance in an amount of no less than 10 million dollars (\$10,000,000.00)
 - (i) The Contractor shall be responsible for deductibles up to \$10,000.00 maximum of any one loss.
 - (c) The City of Winnipeg will carry such insurance to cover all parties engaged in the Work in this Contract. Provision of this insurance by the City of Winnipeg is not intended in any way to relieve the Contractor from his obligations under the terms of the Contract. Specifically, losses relating to deductibles for insurance, as well as losses in excess of limits of coverage and any risk of loss that is not covered under the terms of the insurance provided by the City of Winnipeg remains with the Contractor.
- D10.2 The Contractor shall provide and maintain the following insurance coverage at all times during the performance of the Work:
 - (a) Automobile liability insurance for owned and non-owned automobiles used for or in connection with the work in the amount of at least two million dollars (\$2,000,000.00).
 - (i) Deductibles shall be borne by the Contractor;
 - (ii) The Contractor shall not cancel, materially alter, or cause the policy to lapse without providing at least fifteen (15) Calendar Days prior written notice to the Contract Administrator;
 - (iii) The Contractor shall provide the Contract Administrator with evidence of insurance of the policy at least two (2) Business Days prior to the commencement of any Work

on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.

D10.3 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least fifteen (15) Calendar Days prior written notice to the Contract Administrator.

D11. PERFORMANCE SECURITY

- D11.1 The Contractor shall provide and maintain performance security until the expiration of the warranty period in the form of:
 - (a) a performance bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H1: Performance Bond), in the amount of fifty percent (50%) of the Contract Price; or
 - (b) an irrevocable standby letter of credit issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form attached to these Supplemental Conditions (Form H2: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or
 - (c) a certified cheque or draft payable to "The City of Winnipeg", drawn on a bank or other financial institution registered to conduct business in Manitoba, in the amount of fifty percent (50%) of the Contract Price.
- D11.1.1 Where the performance security is in the form of a certified cheque or draft, it will be deposited by the City. The City will not pay any interest on certified cheques or drafts furnished as performance security.
- D11.2 If the bid security provided in his Bid was not a certified cheque or draft pursuant to B11.1(c), the Contractor shall provide the City Solicitor with the required performance security within seven (7) Calendar Days of notification of the award of the Contract by way of letter of intent and prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D12. DETAILED PRICES

D12.1 The Contractor shall provide the Contract Administrator with a detailed price at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D13. SUBCONTRACTOR LIST

D13.1 The Contractor shall provide the Contract Administrator with a complete list of the Subcontractors whom the Contractor proposes to engage (Form J: Subcontractor List) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D14. DETAILED WORK SCHEDULE

- D14.1 The Contract Administrator has developed a Project Master Schedule for the Work. This schedule will be available in the offices of the Contract Administrator and will be updated as required as the Work progresses.
- D14.2 The Contractor shall, within 5 Business Days of award of Contract, prepare a detailed Contract Work Schedule for his work based on a critical path method (CPM) approach.
- D14.3 The schedule shall conform to the Project Master Schedule and show, in a clear graphical manner, through the use of Gantt charts, in a maximum of weekly stages, the proposed progress of the main items, structures and subtrades of the contract and indicate the labour, construction crews, plant and equipment to be employed. Indicate the delivery date of major

- pieces of equipment to be supplied. The schedule shall be predicated on the completion of all work on or before the date of Substantial Performance.
- D14.4 The Contract Work Schedule shall be updated as the Work requires and submitted to the Contract Administrator.
- D14.5 Upon acceptance by the Contract Administrator, distribute copies of the revised schedule to Subcontractors and other concerned parties.
- D14.6 The Contractor shall instruct recipients to report to the Contractor immediately any problems anticipated by the timetable shown in the Contract Work Schedule.
- D14.7 While it is intended that the Contractor shall be allowed, in general, to carry on the Contract in accordance with such general plans as may appear to him to be most desirable, the Contract Administrator, at his discretion, may direct the order in which, and points at which, parts of the Work shall be undertaken.
- D14.8 This control shall be exercised in the interests of the City so that the work or other Contractors who may be working on the site may be coordinated with the work on this Contract. A program of work will be drawn up and agreed to before the commencement of the Contract.
- D14.9 The Contract Administrator shall be notified immediately when the work under the Contract Work Schedule will adversely affect the work of other Contractors and the critical path of the Project Master Schedule as the work under the Contractor's Contract Work Schedule is an integral part of the Project Master Schedule.
- D14.10 The Contractor shall be familiar with all other Contract Work Schedules as contracted by the City with other Contractors and the critical path of the Project Master Schedule.
- D14.11 The Drawing "Schedule for Building Envelope Work" shows the general sequencing of the Work. This Drawing is provided for information only and is not intended to replace the Contract Work Schedule.

D15. SECURITY CLEARANCE

- D15.1 Each individual proposed to perform Work under the Contract shall be required to obtain a Criminal Record Search Certificate from the police service having jurisdiction at his place of residence.
- D15.2 Prior to the commencement of any Work, and during the term of the Contract if additional or replacement individuals are proposed to perform Work, the Contractor shall supply the Contract Administrator with a Criminal Record Search Certificate obtained not earlier than one (1) year prior to the Submission Deadline, or a certified true copy thereof, for each individual proposed to perform the Work.
- D15.3 Any individual for whom a Criminal Record Search Certificate is not provided, or for whom a Criminal Record Search Certificate indicates any convictions or pending charges related to property offences or crimes against another person, will not be permitted to perform any Work.
- D15.4 Any Criminal Record Search Certificate obtained thereby will be deemed valid for the duration of the Contract subject to a repeated records search as hereinafter specified.
- D15.5 Notwithstanding the foregoing, at any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require an updated criminal records search. Any individual who fails to provide a satisfactory Criminal Record Search Certificate as a result of a repeated criminal records search will not be permitted to continue to perform any Work.

SCHEDULE OF WORK

D16. COMMENCEMENT

- D16.1 The Contractor shall not commence any Work until he is in receipt of a letter of intent from the Award Authority authorizing the commencement of the Work.
- D16.2 The Contractor shall not commence any Work on the Site until:
 - (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D8;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the Safe Work Plan specified in D9;
 - (iv) evidence of the insurance specified in D10;
 - (v) the performance security specified in D11;
 - (vi) the detailed prices specified in D12;
 - (vii) the Subcontractor list specified in D13;
 - (viii) the detailed work schedule specified in D14; and
 - (ix) the security clearances specified in D15.
 - (b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.
- D16.3 The Contractor shall commence the Work within seven (7) Business Days of receipt of the letter of intent.
- D16.4 The City of Winnipeg will endeavour to award the Contract within thirty (30) Calendar Days of the Submission Deadline. If award is not made within that time period, Contract Dates identified in D17 Critical Stages, D18 Substantial Performance, D19 Total Performance and D20 Liquidated Damages will be extended by an equivalent number of Calendar Days until such a time an award is made.

D17. CRITICAL STAGES

- D17.1 The Contractor shall achieve critical stages of the Work in accordance with the following requirements:
 - (a) Complete mansonry work for areas WI and WM by June 30, 2007 and for area WA by August 31, 2007
 - (b) Complete metal cladding for areas WI and WM by July 31, 2007 and for area WA by December 21, 2007
 - (c) Complete aluminum curtain wall and entrances by December 14, 2007

D18. SUBSTANTIAL PERFORMANCE

- D18.1 The Contractor shall achieve Substantial Performance by October 31, 2008.
- D18.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.
- D18.3 The date on which the Work has been certified by the Contract Administrator as being substantially performed to the requirements of the Contract through the issue of a certificate of Substantial Performance is the date on which Substantial Performance has been achieved.

D19. TOTAL PERFORMANCE

- D19.1 The Contractor shall achieve Total Performance by November 30, 2008.
- D19.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.
- D19.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

D20. LIQUIDATED DAMAGES

- D20.1 If the Contractor fails to achieve critical stages, Substantial Performance or Total Performance in accordance with the Contract by the days fixed herein for same, the Contractor shall pay the City the following amounts per Calendar Day for each and every Calendar Day following the days fixed herein for same during which such failure continues:
 - (a) Substantial Performance two thousand, six hundred dollars (\$2,600.00);
 - (b) Total Performance six hundred dollars (\$600).
 - (c) Critical stages as specified in D17.1 two thousand, six hundred dollars (\$2,600.00).
- D20.2 The amounts specified for liquidated damages in D20.2 is based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve critical stages, Substantial Performance or Total Performance by the days fixed herein for same.
- D20.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

CONTROL OF WORK

D21. JOB MEETINGS

- D21.1 Regular weekly job meetings will be held at the Site. These meetings shall be attended by a minimum of one representative of the Contract Administrator, one representative of the City and one representative of the Contractor. Each representative shall be a responsible person capable of expressing the position of the Contract Administrator, the City and the Contractor respectively on any matter discussed at the meeting including the Work schedule and the need to make any revisions to the Work schedule. The progress of the Work will be reviewed at each of these meetings.
- D21.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he deems it necessary.

D22. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

- D22.1 Further to C:6.26, UMA Projects (CM) Ltd. shall be the Prime Contractor and shall serve as, and have the duties of the Prime Contractor in accordance with The Workplace Safety and Health Act (Manitoba).
- D22.2 As Prime Contractor, UMA Projects (CM) Ltd. will administer a Safety and Health Management Plan. Compliance with this Plan will be mandatory for all personnel on the construction site and orientation of all staff by the Prime Contractor's Safety Officer will be required. Further to C:6.26, the Contractor shall be the Prime Contractor and shall serve as, and have the duties of the Prime Contractor in accordance with The Workplace Safety and Health Act (Manitoba).

D22.3 The Water Treatment Program Project Safety and Health Management Plan is available on the City of Winnipeg, Corporate Finance, Materials Management Branch internet site at http://www.winnipeg.ca/matmgt/projects

D23. COOPERATION WITH OTHERS

- D23.1 The Contractor shall note that several other construction contracts will be underway at the time of construction, including, but not limited to;
 - (a) Bid Opportunity 583-2005 Water Treatment Program Water Treatment Plant Foundations and Concrete Structures
 - (b) Bid Opportunity 742-2005 Winnipeg Water Treatment Program The Supply and Installation of Water Treatment Plant Process Mechanical and Electrical
 - (c) Bid Opportunity 34-2006 Winnipeg Water Treatment Program Construction of Dewatering Cells
 - (d) Bid Opportunity 35-2006 Winnipeg Water Treatment Program Deacon Booster Pumping Station Upgrade
 - (e) Bid Opportunity 36-2006 Winnipeg Water Treatment Program Construction of Surge Tower Overflow Piping
 - (f) Bid Opportunity 37-2006 Winnipeg Water Treatment Program Surge Tower Construction
 - (g) Bid Opportunity 171-2006 Winnipeg Water Treatment Program Supply and Installation of Water Treatment Plant Precast Roof Panels
 - (h) Bid Opportunity 498-2006 Winnipeg Water Treatment Program Construction of Standby Generator Building
 - (i) Bid Opportunity 792-2006 Winnipeg Water Treatment Program Construction of Sodium Hypochlorite and Chemical Storage Buildings
 - Bid Opportunity 94-2007 Winnipeg Water Treatment Program Construction of Site Utilities
 - (k) Bid Opportunity 95-2007 Winnipeg Water Treatment Program Construction of Offices & Plant Interior Finishes
 - Bid Opportunity 96-2007 Winnipeg Water Treatment Program Supply and Installation of Forcemain
 - (m) Bid Opportunity 97-2007 Winnipeg Water Treatment Program Construction of Roads and Landscaping
- D23.2 Bid Opportunities for the above are available at the City of Winnipeg Materials Management website at http://www.winnipeg.ca/matmgt/bidopp.asp
- D23.3 The Contractor will not have exclusive use of the Site. The Contractor shall coordinate activities with others and minimize disruptions to others, where possible.
- D23.4 Where site access requires relocation for installation of works, the Contractor shall construct suitable, all-weather detours, as required.
- D23.5 The Contractor shall note that the Deacon Booster Pumping Station and surrounding compound will be in use during the construction period. The Contractor shall maintain reasonable access to all existing plant, valve chambers, rail, mechanical and electrical facilities at all times. The Contractor shall provide all reasonable assistance to City operations personnel to provide safe, secure access to operational facilities.

D24. SITE SECURITY

D24.1 Personnel, material and equipment will only be permitted to access the Site via the main entrance gate, located west of Provincial Road 207, as indicated on Construction Site Layout

Drawing CM G001. This gate will normally be staffed from 7:00 am to 6:00 pm, seven days a week. Alternate site access arrangements can be made through the Contract Administrator.

MEASUREMENT AND PAYMENT

D25. PAYMENT

D25.1 Further to C12, effective January 1, 2007 the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

D26. PAYMENT SCHEDULE

- D26.1 Further to C12, payment shall be in accordance with the following payment schedule:
 - (a) The lump sum prices listed in Form B: Prices will be paid on the basis of monthly progress estimates in accordance with C12 and the detailed price breakdown prepared pursuant to D12.

WARRANTY

D27. WARRANTY

D27.1 Notwithstanding C13.2, the warranty period shall begin on the date of Total Performance and shall expire two (2) years thereafter unless extended pursuant to C13.2.1 or C13.2.2, in which case it shall expire when provided for thereunder.

FORM H1: PERFORMANCE BOND

(See D11)

KNOW ALL MEN BY THESE PRESENTS THAT			
(here	einafter called the "Pri	ncipal"), and	
	einafter called the "S d the "Obligee"), in th	urety"), are held and firmly bound unto THE e sum of	CITY OF WINNIPEG (hereinafter
		dollars (\$)
sum	the Principal and the	a to be paid to the Obligee, or its successors or e Surety bind themselves, their heirs, executor ally, firmly by these presents.	
WHE	EREAS the Principal h	nas entered into a written contract with the Oblig	gee dated the
	day of	, 20, for:	
BID	OPPORTUNITY NO.	793-2006	
	NIPEG WATER TREA	ATMENT PROGRAM – CONSTRUCTION OF V	WATER TREATMENT PLANT
whicl	h is by reference mad	le part hereof and is hereinafter referred to as the	he "Contract".
NOV	V THEREFORE the co	ondition of the above obligation is such that if th	ne Principal shall:
(a) (b) (c) (d) (e)	forth in the Contra perform the Work make all the paym in every other re- Contract; and indemnify and say demands of ever claims, actions of Compensation Ac performance or re-	form the Contract and every part thereof in the ct and in accordance with the terms and condit in a good, proper, workmanlike manner; nents whether to the Obligee or to others as the spect comply with the conditions and perform we harmless the Obligee against and from all I y description as set forth in the Contract, and for loss, damages or compensation whether, or any other Act or otherwise arising out of non-performance of the Contract or any parameters arising and provided for the contract or any parameters are set of the contract or any parameters are set of the contract or any parameters.	ions specified in the Contract; rein provided; n the covenants contained in the loss, costs, damages, claims, and I from all penalties, assessments, er arising under "The Workers or in any way connected with the
	N THIS OBLIGATION	warranty period provided for therein; I SHALL BE VOID, but otherwise shall remain i le for a greater sum than the sum specified abo	•
nothi or re	ing of any kind or ma	CLARED AND AGREED that the Surety shal tter whatsoever that will not discharge the Prin ne Surety, any law or usage relating to the li	cipal shall operate as a discharge
IN W	ITNESS WHEREOF	the Principal and Surety have signed and seale	ed this bond the
	day of	20	

SIGNED AND SEALED in the presence of:	(Name of Principal)	
	Per:	(Seal)
(Witness)	Per:	
	(Name of Surety)	
	By:(Attorney-in-Fact)	(Seal)

FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT (PERFORMANCE SECURITY) (See D11)

(Date)	
Corpo Legal 185 Ki	ity of Winnipeg rate Services Department Services Division ng Street, 3rd Floor peg MB R3B 1J1
RE:	PERFORMANCE SECURITY - BID OPPORTUNITY NO. 793-2006
	WINNIPEG WATER TREATMENT PROGRAM – CONSTRUCTION OF WATER TREATMENT PLANT BUILDING ENVELOPE
Pursua	ant to the request of and for the account of our customer,
(Name	of Contractor)
(Addres	s of Contractor)
	EREBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding aggregate
	Canadian dollars.
demar Letter payme	Standby Letter of Credit may be drawn on by you at any time and from time to time upon written for payment made upon us by you. It is understood that we are obligated under this Standby of Credit for the payment of monies only and we hereby agree that we shall honour your demand for without inquiring whether you have a right as between yourself and our customer to make such and without recognizing any claim of our customer or objection by the customer to payment by us.
	mount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upor ou or by formal notice in writing given to us by you if you desire such reduction or are willing that it be
Partial	drawings are permitted.
	ngage with you that all demands for payment made within the terms and currency of this Standby of Credit will be duly honoured if presented to us at:
(Addres	s)
and w	e confirm and hereby undertake to ensure that all demands for payment will be duly honoured by us.

All demands for payment shall spec	cifically state that they are drawn	under this Standby Letter of Credit.
------------------------------------	-------------------------------------	--------------------------------------

Subject to the condition hereinafter set forth, this Standby Letter of Credit will expire on

(Date)			

It is a condition of this Standby Letter of Credit that it shall be deemed to be automatically extended from year to year without amendment from the present or any future expiry date, unless at least 30 days prior to the present or any future expiry date, we notify you in writing that we elect not to consider this Standby Letter of Credit to be renewable for any additional period.

This Standby Letter of Credit may not be revoked or amended without your prior written approval.

This credit is subject to the Uniform Customs and Practice for Documentary Credit (1993 Revision), International Chamber of Commerce Publication Number 500.

(Name	of bank or financial institution)
Per:	
	(Authorized Signing Officer)
Per:	
	(Authorized Signing Officer)

FORM J: SUBCONTRACTOR LIST

(See D13)

WINNIPEG WATER TREATMENT PROGRAM – CONSTRUCTION OF WATER TREATMENT PLANT BUILDING ENVELOPE

<u>Name</u>	<u>Address</u>
	······
	

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 The City of Winnipeg Standard Construction Specifications in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.2.1 The City of Winnipeg Standard Construction Specifications is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at http://www.winnipeg.ca/matmgt.
- E1.2.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.2.3 Further to C2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.3 The following are applicable to the Work:

Section No.	Description
01300	Submittals
01450	Quality Control
01600	Material and Equipment
01730	Operation and Maintenance Manuals
03200	Concrete Reinforcement
03300	Cast-in-Place Concrete
04051	Masonry Procedures
04060	Masonry Mortar and Grout
04080	Masonry Reinforcement and Connectors
04090	Masonry Accessories
04220	Concrete Masonry Units
04230	Stone Masonry Units
05500	Metal Fabrications
05530	Aluminum Fabrications
06100	Rough Carpentry
07210	Building Insulations
07270	Air Barriers
07400	Metal Cladding
07840	Firestopping and Smoke Seals
07900	Joint Sealants
08110	Steel Doors and Frames
08335	Coiling Doors
08800	Glass and Glazing
08900	Aluminium Curtain Wall and Entrances

Consultant Drawing No. City Drawing No. **Drawing Title** WB-B0110 1-0601B-A-B0110-001-00D ARCHITECTURAL - FIRST FLOOR PLAN WB-B0120 ARCHITECTURAL - SECOND FLOOR PLAN 1-0601B-A-B0120-001-00D WB-B0130 1-0601B-A-B0130-001-00D ARCHITECTURAL - THIRD FLOOR PLAN WB-B0140 ARCHITECTURAL - PENTHOUSE FLOOR PLAN 1-0601B-A-B0140-001-00D WB-B0201 1-0601B-A-B0201-001-00D ARCHITECTURAL - BUILDING SECTIONS WB-B0202 1-0601B-A-B0202-001-00D ARCHITECTURAL - BUILDING SECTIONS

Consultant <u>Drawing No</u> . <u>City Drawing No.</u>	Drawing Title
WB-B0203 1-0601B-A-B0203-001-00D	ARCHITECTURAL - BUILDING SECTIONS
WB-B0204 1-0601B-A-B0204-001-00D	ARCHITECTURAL - BUILDING SECTIONS
WB-B0205 1-0601B-A-B0205-001-00D	ARCHITECTURAL - BUILDING SECTIONS
WB-B0206 1-0601B-A-B0206-001-00D	ARCHITECTURAL - BUILDING SECTIONS
WB-B0207 1-0601B-A-B0207-001-00D	ARCHITECTURAL - BUILDING SECTIONS
WB-B0250 1-0601B-A-B0250-001-00D	ARCHITECTURAL - WALL SECTIONS
WB-B0251 1-0601B-A-B0251-001-00D	ARCHITECTURAL - WALL SECTIONS
WB-B0252 1-0601B-A-B0252-001-00D	ARCHITECTURAL - WALL SECTIONS
WB-B0253 1-0601B-A-B0253-001-00D	ARCHITECTURAL - WALL SECTIONS
WB-B0254 1-0601B-A-B0254-001-00D	ARCHITECTURAL - WALL SECTIONS
WB-B0301 1-0601B-A-B0301-001-00D	ARCHITECTURAL - EXTERIOR ELEVATIONS
WB-B0302 1-0601B-A-B0302-001-00D	ARCHITECTURAL - EXTERIOR ELEVATIONS
WB-B0404 1-0601B-A-B0404-001-00D	ARCHITECTURAL - DETAILS
WB-B0405 1-0601B-A-B0405-001-00D	ARCHITECTURAL - WALL SECTION DETAILS
WB-B0406 1-0601B-A-B0406-001-00D	ARCHITECTURAL - DETAILS
WB-B0410 1-0601B-A-B0410-001-00D	ARCHITECTURAL - FIRST FLOOR ENLARGED PLANS
WB-B0411 1-0601B-A-B0411-001-00D	ARCHITECTURAL - DETAIL OF DOOR AND WINDOW OPENINGS - GROUND FLOOR LEVEL
WB-B0420 1-0601B-A-B0420-001-00D	ARCHITECTURAL - SECOND FLOOR ENLARGED PLANS
WB-B0421 1-0601B-A-B0421-001-00D	ARCHITECTURAL - DETAIL OF DOOR AND WINDOW OPENINGS - SECOND FLOOR LEVEL
WB-B0430 1-0601B-A-B0430-001-00D	ARCHITECTURAL - THIRD FLOOR ENLARGED PLANS
WB0B0431 1-0601B-A-B0431-001-00D	ARCHITECTURAL - DETAIL OF DOOR AND WINDOW OPENINGS - THIRD FLOOR PLAN
WB-B0503 1-0601B-A-B0503-001-00D	ARCHITECTURAL - DOOR SCHEDULE - HEAD & JAMB DETAILS
SCHEDULE FOR BUILDING ENVELOPE W	VORK
CM G001-R12	

CM G001-R12

E2. SOILS INVESTIGATION REPORT

- E2.1 Further to C:3.1, a copy of the geotechnical information is available on the Winnipeg Water Treatment Program Project Site Information page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at http://www.winnipeg.ca/matmgt/projects
- E2.2 Test Hole Logs
- E2.2.1 Geotechnical information has been compiled from various sources to summarize subsurface conditions within the work area. Test Hole Logs Sets 1 through 3 are available at the aforementioned internet site.
 - (a) By UMA Engineering
 - (i) TH's 04-01 to 04-10, 04-12 to 04-24, 04-31, and 04-33 to 04-50 (2004)
 - (ii) TH's 1 to 3 (1996)
 - (b) By Others
 - (i) TH A13 by KGS Group (1991)
 - (ii) Th's 3 to 6 by RM Hardy & Associates (1977)
 - (iii) TH 1 and 2 by Dyregrov Consultants (1993)

- (c) Within the City of Winnipeg Water Treatment Plant Preliminary Design Report Section 14 Geotechnical Investigation (2005), UMA Test Hole information is considered accurate at the locations drilled and at the time of the investigations. The inclusion of test hole data recorded by others does not represent any guarantees to the accuracy of this data.
- (d) Test hole information is provided to assist in the Bidder's evaluation of subsurface conditions and the Bidder shall solely be responsible for any interpretation that they make from this information. Variations in soil conditions may exist between test holes and fluctuations in groundwater levels can be expected seasonally and may occur as a result of construction activities or operation of the Floodway.
- E2.3 Test Pile Driving Records
- E2.3.1 Test_Pile_Driving_Records-Set1.pdf at the internet site identified in E2.2. shows data recorded by UMA Engineering Ltd. during driving of ten (10) test piles at the site in March, 2005.
- E2.4 Clearwell Pile Driving Records
- E2.4.1 166-2005_Clearwell_Pile_Driving_Records.pdf at the internet site identified in E2.2. shows data recorded by Earth Tech Canada Ltd. during the construction of the Clearwell in 2005.
- E2.5 Water Treatment Plant Pile Driving Records
- E2.5.1 Pile Driving Records for the Water Treatment Plant Area F are provided at the internet site, identified as Pile Driving Records.pdf.
- E2.6 Reports
- E2.6.1 Additional reports and geotechnical information listed as follows are available for viewing at the offices of Earth Tech Canada Inc., 850 Pembina Highway, Winnipeg, Manitoba.
 - (a) The City of Winnipeg Water Treatment Plant Preliminary Design Report Section 14 Geotechnical Investigation (2005)
 - (b) Water Impounding Reservoir Cell #2 and Booster Pumping Station Deacon Manitoba by RM Hardy & Associates Ltd. (1977)
 - (c) Proposed Venturi Chambers Deacon Reservoir by Dyregrov Consultants (1993)
 - (d) Deacon Reservoir Expansion Proposed Groundwater Monitoring Program by KGS Group (1993)
 - (e) Shoal Lake Aqueduct Program 5 Deacon Drainage Improvements by UMA Engineering Ltd. (1996)
 - (f) Pile Driving records from Deacon Booster Pumping Station by RM Hardy and Associates (1979).

Information in these reports has been provided to assist in the Bidder's evaluation of subsurface conditions and the Bidder shall solely be responsible for any interpretation that they make from this information.

E3. OFFICE AND SITE FACILITIES

- E3.1 The Contractor shall supply office facilities for his own use. The facilities shall be situated at the area designated on CM G001.
- E3.2 With reference to drawing CM G001, the City will provide to the Contractor without cost:
 - (a) Space for a 40A two pole breaker in the Main Temporary Power Supply will be available to serve office lighting, receptacles and convenience power (electric space heating equipment is not allowed), the Contractor shall supply and install the breaker,

- cabling and the step down transformer (600v to 120/208v); the contractor shall provide portable generators for operation of small tools at the construction site.
- (b) Communications connections for four telephone and internet. The Contractor shall supply and install the telephone service from the City's existing telephone service pedestal that is located east of the DBPS compound entrance;
- (c) Onsite washroom and toilet facilities with non-potable water supply;
- (d) Unless otherwise specified, all required over-current protection, portable distribution panels and transformations, cables, conductors, grounding and other materials required to provide construction power for the Work shall be supplied and installed by the Contractor.
- E3.3 The Contractor may arrange for additional facilities with the approval of the Contract Administrator and at the Contractor's cost.

E4. SITE ROADS AND WORK SITE ACCESS

- E4.1 The Contractor shall have access to the Site on Business Days between 07:00 and 18:00 unless otherwise approved by the Contract Administrator.
- E4.2 Access to the work site is restricted and cooperation with other contractors on site is necessary in the best interest of all parties.
- E4.3 The Site is located on Provincial Road 207, 3.2 km north of Highway 1 in Dugald, Manitoba.
- E4.3.1 The Site address is PR 207, Lot 57082, Dugald, Manitoba.
- E4.4 Provincial Road 207 north of the GWWD rail crossing is a Class B1 road and is subject to load restrictions which will affect the maximum weight of individual deliveries. The approximately 3.2 km of PR 207 between the entrance to the Site and Highway 1 is a TAC Route.
- E4.5 Access to the Site from the west is generally limted to access via the temporary road from west of the Clearwell. The access road will be used by other contractors during the duration of this contract (maintenance will be shared accordingly) and will remain in place to be utilized by future contracts.
- E4.6 Access to the Site will be interrupted approximately once a month for a duration of approximately four hours due to deliveries of chemical via the railway.
- E4.7 Other on site access roads will be installed by others as shown on Drawing CM G001.
- E4.8 Maintenance and upkeep of the noted roads is the shared responsibility of all contractors who use the roads, including the Contractor.
- E4.9 Construction and removal, if necessary, of any additional access roads is the responsibility of this Contractor.

E5. FIELD ENGINEERING

- E5.1 Unless otherwise specified, the Contract Administrator will layout the Work in accordance with article 3.15 of CW 1130.
- E5.2 The Contractor shall engage a qualified surveyor to layout the works and record as-constructed measurements for Record Drawings.
- E5.2.1 The surveyor shall be a registered Manitoba Land Surveyor, or an instrumentman or surveying firm experienced in layout of similar projects, subject to the approval of the Contract Administrator.

E5.2.2 Survey reference points for horizontal and vertical control are indicated on the drawings. The Contractor shall locate, confirm and preserve the reference points during construction.

E6. SITE DRAINAGE

- E6.1 The Contractor shall be responsible for drainage of all excavations associated with the Work from Award until Total Performance.
- E6.2 Provision of adequate site drainage during the performance of the Contract shall be the Contractor's responsibility. The Contractor shall maintain site grading as necessary to provide for proper drainage away from the excavated areas. This water is to be re-directed into ditches outside of the site. Silt fences shall be properly erected and keyed into the primary ditches to prevent eroded materials from leaving the site. No extra payment or time extension will be granted as a result of difficulties associated with site access resulting from poor site drainage during any part of the performance of the Work.

E7. SANITATION FACILITY

- E7.1 Portable toilets may be provided by the Contractor. Any portable toilet shall be cleaned on a weekly basis and provided with regular maintenance as required to ensure proper operation.
- E7.2 Portable toilets shall be located in an area acceptable to the Contract Administrator.

E8. WASTE CONTAINER

E8.1 A waste container to dispose of garbage produced from the site shall be provided by the Contractor. It shall be located in a safe, convenient location, and be emptied as necessary by the Contractor. The provision, maintenance and removal of a waste container shall be considered a subsidiary obligation of the Contractor

E9. CONDITION, PROTECTION OF AND ACCESS TO THE AQUEDUCT

- E9.1 Condition of the Aqueduct and Existing Yard Piping
- E9.1.1 The Deacon Booster Pumping Station and area contains numerous water conduits of various constructions and vintages. All are critical components of the City of Winnipeg Water Supply and shall be treated with the utmost caution. Work around any of these pipelines shall be well planned and executed to ensure that the Aqueduct and water transmission lines are not subjected to construction related loads, including excessive vibrations and concentrated or asymmetrical lateral loads during backfill placement.
- E9.1.2 The Shoal Lake Aqueduct A Section, north of the main access road, between PR 207 and the existing DBPS compound is a 2438 mm diameter cast-in-place reinforced concrete pipe, vintage 1916-1917. The Branch I Aqueduct running east to west, immediately south of the Booster Pumping Station, commencing at the existing main entrance to the station, is constructed of precast reinforced concrete pipe, vintage 1918-1919. The Branch II Aqueduct, running southerly from the surge tower structure, is constructed of AWWA C301 pre-stressed concrete cylinder pipe vintage 1958-1960. Other existing water transmission lines within the Deacon Booster Pumping Station compound and adjacent areas, consist of AWWA C301 pre-stressed concrete cylinder pipe vintage 1970-1995. All of these pipelines have limited capacity to support additional soil cover and live loads beyond their original design condition.
- E9.2 Protection of the Aqueducts and Water Transmission Lines
- E9.2.1 Contractors carrying out repair work or working in the vicinity of the Aqueducts and transmission lines shall ensure that:

- (a) Equipment shall only be permitted to cross the pipes at designated locations. Under no circumstances will equipment be permitted to cross the A section of the Aqueduct other than at bridging structures.
- (b) Granular material, construction material, soil or other material shall not be stockpiled on the Aqueduct or within 5 metres of the Aqueduct centerline.
- (c) Construction practices shall not subject the Aqueduct to asymmetrical loading at any time.
- (d) Construction practices or procedures at or near the Aqueduct shall not impart excessive vibration loads on the Aqueduct and/or cause settlement of the subgrade below the Aqueduct.
- (e) Asymmetrical water pressures shall not be permitted to build up on one side of the Aqueduct arch.
- (f) Further to CW 2030-R6, only smooth edged excavation buckets, soft excavation or hand excavation shall be used for excavation adjacent to and over the pipelines.
- E9.2.2 It is the Contractors' responsibility to ensure that all work crew members understand, observe, and work to the requirements of Specifications.
- E9.3 Equipment Restrictions
- E9.3.1 Equipment must cross the Aqueduct in a responsible and careful manner (i.e. slowly).
- E9.3.2 Loads for Highway No. 207 shall be limited to the weight restrictions in place for the road unless otherwise permitted.

E10. ENVIRONMENTAL PROTECTION

- E10.1 The Contractor shall be aware that the Aqueduct is for potable water supply and no contamination by fuel, chemicals, etc. shall be permitted at any time. Fuels or chemicals shall not be stored within 30 metres of the Aqueduct.
- E10.2 The Contractor shall plan and implement the Work of this Contract strictly in accordance with the requirements of the environmental protection measures as herein specified.
- E10.3 The Contractor is advised that at least the following Acts, Regulations, and By-laws apply to the Work:
- E10.3.1 Federal
 - (a) Canadian Environmental Protection Act (CEPA) c.16
 - (b) Transportation of Dangerous Goods Act and Regulations c.34
- E10.3.2 Provincial
 - (a) The Dangerous Goods Handling and Transportation Act D12
 - (b) The Endangered Species Act E111
 - (c) The Environment Act c.E125
 - (d) The Fire Prevention Act F80
 - (e) The Manitoba Nuisance Act N120
 - (f) The Public Health Act c.P210
 - (g) The Workplace Safety and Health Act W120
 - (h) Current applicable associated regulations.
 - (i) The Fisheries Act
 - (j) The Migratory Birds Act
 - (k) The Historic Resources Act

- (I) Drinking Water Safety Act
- E10.3.3 The Contractor is advised that the following environmental protection measures apply to the Work.

E10.3.4 Materials Handling and Storage

(a) Construction materials shall not be stored within ten (10) metres of the Aqueduct centerline without the approval of the Contract Administrator.

E10.3.5 Fuel Handling and Storage

- (a) The Contractor shall abide by the requirements of Manitoba Conservation storage and handling of Petroleum Products and Allied Products Regulations for handling and storage of fuel products.
- (b) All fuel handling and storage facilities shall comply with The Dangerous Goods and Transportation Act Storage and Handling of Petroleum Products Regulation and any local land use permits.
- (c) Fuels, lubricants, and other potentially hazardous materials as defined in The Dangerous Goods and Transportation Act shall be stored and handled within the approved storage areas.
- (d) The Contractor shall ensure that all fuel storage containers are inspected daily for leaks and spillage.
- (e) Products transferred from the fuel storage area(s) to specific work sites shall not exceed the daily usage requirement.
- (f) When servicing requires the drainage or pumping of fuels, lubricating oils or other fluids from equipment, a groundsheet of suitable material (such as HDPE) and size shall be spread on the ground to catch the fluid in the event of a leak or spill. No repairs within 30 m of aqueduct or watercourse will be permitted.
- (g) Refuelling of mobile equipment and vehicles shall take place at least 30 m from a watercourse.
- (h) The area around storage sites and fuel lines shall be distinctly marked and kept clear of snow and debris to allow for routine inspection and leak detection.
- (i) A sufficient supply of materials, such as absorbent material and plastic oil booms, to clean up minor spills shall be stored nearby on-site. The Contractor shall ensure that additional material can be made available on short notice. All refuelling vehicles shall be equipped with a spill response kit.

E10.3.6 Waste Handling and Disposal

- (a) The construction area shall be kept clean and orderly at all times during and at completion of construction.
- (b) At no time during construction shall personal or construction waste be permitted to accumulate for more than one day at any location on the construction site, other than at a dedicated storage area as may be approved by the Contract Administrator.
- (c) Indiscriminate dumping, littering, or abandonment shall not take place.
- (d) No on-site burning of waste is permitted.
- (e) Equipment shall not be cleaned within 30 m of watercourses; contaminated water from onshore cleaning operations shall not be permitted to enter watercourses.

E10.3.7 Dangerous Goods/Hazardous Waste Handling and Disposal

- (a) Dangerous goods/hazardous waste are identified by, and shall be handled according to, The Dangerous Goods Handling and Transportation Act and Regulations.
- (b) The Contractor shall be familiar with The Dangerous Goods Handling and Transportation Act and Regulations and meet training requirements for these Regulations.

E10.3.8 Emergency Spill Response

- (a) The Contractor shall ensure that due care and caution is taken to prevent spills.
- (b) The Contractor shall report all major spills of petroleum products or other hazardous substances with the potential for impacting the environment and threat to human health and safety to the Contract Administrator and Manitoba Conservation, immediately after occurrence of the environmental accident, by calling the 24-hour emergency telephone phone number (204) 945-4888.
- (c) The Contractor shall designate a qualified supervisor as the on-site emergency response coordinator for the project. The emergency response coordinator shall have the authority to redirect manpower in order to respond in the event of a spill. (Should include reference to a site-specific Emergency Response Plan and Environmental Protection Plan.)
- (d) The following actions shall be taken by the person in charge of the spilled material or the first person(s) arriving at the scene of a hazardous material accident or the onsite emergency response coordinator:
 - (i) Notify emergency-response coordinator of the accident:
 - identify exact location and time of accident
 - indicate injuries, if any
 - request assistance as required by magnitude of accident Manitoba Conservation 24-hour Spill Response Line (204) 945-4888, RCMP (Oakbank Detachment) (911), City of Winnipeg Fire Department (911), Springfield Ambulance (911), company backup, contact Contract Administrator.
 - (ii) Assess situation and gather information on the status of the situation, noting:
 - personnel on site
 - cause and effect of spill
 - estimated extent of damage
 - amount and type of material involved
 - proximity to waterways and the Aqueduct
 - (iii) If safe to do so, try to stop the dispersion or flow of spill material:
 - approach from upwind
 - stop or reduce leak if safe to do so
 - dyke spill material with dry, inert sorbent material or dry clay soil or sand
 - prevent spill material from entering waterways and utilities by dyking
 - prevent spill material from entering Aqueduct manholes and other openings by covering with rubber spill mats or dyking
 - (iv) Resume any effective action to contain, clean up, or stop the flow of the spilled product.
- E10.4 The emergency response coordinator shall ensure that all environmental accidents involving contaminants shall be documented and reported to the Manitoba Conservation according to The Dangerous Goods Handling and Transportation Act Environmental Accident Report Regulation 439/87.

E11. SITE RESTORATION

E11.1 The Contractor shall remove the temporary Site office and storage facilities prior to Total Performance.

- E11.2 The Contractor will be responsible for grounds restoration, as determined necessary by the Contract Administrator.
- E11.3 The Contractor will be responsible for any damage caused by his forces on roadways or accesses.

E12. RECORD DRAWINGS

- E12.1 The Contractor will record all as-built conditions which deviate from the original Contract documents. The Contractor shall keep one (1) complete set of white prints at their Site office, including all Addenda, Change Orders, Field Instructions, and other revisions for the purposes of Record Drawings. As the Work proceeds, the Contractor shall clearly record in red pencil all as-built conditions which deviate from the original Contract documents.
- E12.2 The Record Drawings shall be available for review by the Contract Administrator upon request at any time during the performance of the Work.
- E12.3 Prior to achieving Substantial Performance, the Contractor shall submit the Record Drawings prepared to the Contract Administrator for his review and use. If, in the opinion of the Contract Administrator, the Record Drawings are incomplete or inaccurate, the Record Drawings will be returned to the Contractor and the Contractor shall revise and resubmit the Record Drawings at his cost.
- E12.4 Substantial Performance cannot be achieved without the submission of Record Drawings that are acceptable to the Contract Administrator.