



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 615-2009

SUPPLY AND DELIVERY OF CLAMPS – STAINLESS STEEL / VARIOUS SIZES

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 SUPPLY AND DELIVERY OF CLAMPS – STAINLESS STEEL / VARIOUS SIZES

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, September 17, 2009.

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. ENQUIRIES

B3.1 All enquiries shall be directed to the Contract Administrator identified in D3.1.

B3.2 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 promptly notify the Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.

B3.3 If the Bidder is unsure of the meaning or intent of any provision therein, the Bidder should request clarification as to the meaning or intent prior to the Submission Deadline.

B3.4 Responses to enquiries which, in the sole judgment of the 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.

B3.5 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.

B3.6 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

B4. ADDENDA

B4.1 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.

B4.2 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.

B4.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance; Materials Management Division website at <http://www.winnipeg.ca/matmgt/bidopp.asp>.

B4.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.

B4.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 7 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B5. SUBSTITUTES

- B5.1 The Work is based on the materials, equipment, methods and products specified in the Bid Opportunity.
- B5.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B5.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least seven (7) Business Days prior to the Submission Deadline.
- B5.4 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 material, equipment, method or product 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 Contract;
 - (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 Contract.
- B5.5 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.
- B5.6 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.
- B5.6.1 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.
- B5.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B5.8 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 B13.
- B5.9 No later claim by the Contractor for an addition to the price(s) because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.
- B5.10 Notwithstanding B5.2 to B5.9, and in accordance with B6.7, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B13.1(a)

B6. BID SUBMISSION

- B6.1 The Bid shall consist of the following components:

- (a) Form A: Bid;
 - (b) Form B: Prices.
- B6.2 Further to B6.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B5.
- B6.3 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.
- B6.4 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B6.5 If the Bid Submission is submitted by mail, courier or personal delivery, it shall be enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address, and shall be submitted to:
- The City of Winnipeg
Corporate Finance Department
Materials Management Division
185 King Street, Main Floor
Winnipeg MB R3B 1J1
- B6.5.1 Samples or other components of the Bid Submission 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 Submission.
- B6.6 Bidders are advised not to include any information/literature except as requested in accordance with B6.1.
- B6.7 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, will be evaluated in accordance with B13.1(a).
- B6.8 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to (204) 949-1178.
- B6.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B6.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.
- B7. BID**
- B7.1 The Bidder shall complete Form A: Bid, making all required entries.
- B7.2 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.
- B7.2.1 If a Bid is submitted jointly by two (2) or more persons, each and all such persons shall identify themselves in accordance with B7.2.
- B7.3 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.

- B7.4 Paragraph 9 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.

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

B7.5 If a Bid is submitted jointly by two (2) 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.

B8. PRICES

B8.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.

B8.1.1 Prices on Form B: Prices shall include:

- (a) duty;
- (b) freight and cartage;
- (c) Provincial and Federal taxes [except the Goods and Services Tax (GST) and Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable] and all charges governmental or otherwise paid;
- (d) profit and all compensation which shall be due to the Contractor for the Work and all risks and contingencies connected therewith.

B8.1.2 Prices on Form B: Prices shall not include the Manitoba Association for Resource Recovery Corporation (MARRC) Environmental Handling Charge (EHC) which shall be extra where applicable.

B8.2 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.

B8.3 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.

B9. QUALIFICATION

B9.1 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, or if the Bidder does not carry on business in Manitoba, in the jurisdiction where the Bidder does carry on business; 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.

- B9.2 The Bidder and 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 Division website at <http://www.winnipeg.ca/matmgt/debar.stm>.
- B9.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) have successfully carried out work similar in nature, scope and value to the Work; and
 - (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
 - (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba);
- B9.4 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.
- B9.5 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.

Representative Sample

- B9.6 Further to C.9, The Contract Administrator shall require the successful Bidder to supply one (1) sample unit as described in B9.4, for detailed inspection and approval prior to delivery of the order. Failure to supply the sample unit within the prescribed time interval may result in termination of a contract.
- B9.7 Should the Bidder not submit a sample that meets the approval of the Contract Administrator, the bid may be determined to be non-responsive in accordance with B13.2.
- B9.8 The sample if required shall be fully assembled when sent to the Contract Administrator.
- B9.9 The Bidder shall be responsible for all freight costs associated with the delivery and return of samples.
- B9.10 The detailed inspection, testing and approval will be based upon meeting the requirements of the specifications in the Bid Opportunity document.

B10. OPENING OF BIDS AND RELEASE OF INFORMATION

- B10.1 Bids will not be opened publicly.
- B10.2 Following the Submission Deadline, the names of the Bidders and their bid prices (unevaluated, and pending review and verification of conformance with requirements or evaluated prices) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance; Materials Management Division website at <http://www.winnipeg.ca/matmgt>.
- B10.3 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 Division website at <http://www.winnipeg.ca/matmgt>.
- B10.4 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.

B11. IRREVOCABLE BID

- B11.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 8 of Form A: Bid.
- B11.2 The acceptance by the City of any Bid shall not release the Bids of the next two (2) lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work for the time period specified in Paragraph 8 of Form A: Bid.

B12. WITHDRAWAL OF BIDS

- B12.1 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.
- B12.1.1 Notwithstanding C21, 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.
- B12.1.2 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 9 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B12.1.3 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 9 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B12.1.3(b), declare the Bid withdrawn.
- B12.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B11.2 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.

B13. EVALUATION OF BIDS

- B13.1 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, or acceptable deviation therefrom (pass/fail);
 - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B9 (pass/fail);
 - (c) Total Bid Price 100% and;
 - (d) economic analysis of any approved alternative pursuant to B5.
- B13.2 Further to B13.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid 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 Bid, or waive technical requirements or minor informalities or irregularities if the interests of the City so require.
- B13.3 Further to B13.1(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.
- B13.4 Further to B13.1(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.
- B13.4.1 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.

B13.4.2 Further to B13.1(a), in the event that a unit price is not provided on Form B: Prices, the City will determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.

B13.5 This Contract will be awarded as a whole.

B14. AWARD OF CONTRACT

B14.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

B14.2 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.

B14.2.1 Without limiting the generality of B14.2, 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.

B14.3 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, in accordance with B13.

B14.3.1 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.

B14.4 Notwithstanding C4 and Paragraph 5 of Form A: Bid, the City will issue a purchase order to the successful Bidder in lieu of the execution of a Contract.

B14.5 The Contract Documents, as defined in C1.1 (n) (ii), in their entirety shall be deemed to be incorporated in and to form a part of the purchase order notwithstanding that they are not necessarily attached to or accompany said purchase order.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for the Supply and Delivery of Goods* (Revision 2008 05 26) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for the Supply and Delivery of Goods* 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 Bid Opportunity to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Supply of Goods*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for the Supply and Delivery of Goods*, 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 supply and delivery of clamps – stainless steel / various sizes for the period of December 1, 2009 to November 30, 2010 with the option of two (2) mutually agreed upon one (1) year extension.

D2.1.1 The City will negotiate with the Bidder within sixty (60) Calendar Days prior to the expiry date of the Contract. The City shall incur no liability to the Bidder as a result of such negotiations.

D2.1.2 The City anticipates the aim of negotiations will be to establish firm pricing and for the best option(s) to maintain the contract.

D2.1.3 Price increases shall not be implemented by the Bidder without written approval by the Contract Administrator. Price increases shall become effective on December 1 of the respective year.

D2.2 The Work shall be done on an "as required" basis during the term of the Contract.

D2.2.1 The type and quantity of Work to be performed under this Contract shall be as authorized from time to time by the Contract Administrator and/or Users.

D2.2.2 Notwithstanding C7, the City shall have no obligation under the Contract to purchase any quantity of any item in excess of its actual operational requirements.

D2.3 Notwithstanding D2.1, in the event that operational changes result in substantial changes to the requirements for Work, the City reserves the right to alter the type or quantity of work performed under this Contract, or to terminate the Contract, upon thirty (30) Calendar Days written notice by the Contract Administrator. In such an event, no claim may be made for damages on the ground of loss of anticipated profit on Work.

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is:

David Murdoch
Process Improvement Engineer
Water Service Division
552 Plinquet Street
Winnipeg MB R2J 0G1

Telephone No.: (204) 986-7577

Facsimile No.: (204) 986-7576

D4. NOTICES

D4.1 Notwithstanding C21.3, all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following address or facsimile number:

The City of Winnipeg
Chief Financial Officer
Administration Building, 3rd Floor
510 Main Street

Winnipeg MB R3B 1B9
Facsimile No.: (204) 949-1174

SUBMISSIONS

D5. AUTHORITY TO CARRY ON BUSINESS

- D5.1 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.

SCHEDULE OF WORK

D6. COMMENCEMENT

- D6.1 The Contractor shall not commence any Work until he is in receipt of a notice of award from the City authorizing the commencement of the Work.
- D6.2 The Contractor shall not commence any Work until:
- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D5;
 - (ii) evidence of the workers compensation coverage specified in C6.16;
 - (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

D7. DELIVERY

- D7.1 Goods shall be delivered on an "as required" basis during the term of the Contract, f.o.b. destination, freight prepaid to:
- Water and Waste
Door 27 – 552 Plinquet Street
Winnipeg MB
- D7.1.1 Goods shall be delivered within two (2) Business Day(s) of the placing of an order, unless otherwise allowed by the User at the time of ordering.
- D7.2 Goods shall be delivered between 8:30 a.m. and 3:30 p.m. on Business Days.

D8. ORDERS

- D8.1 The Contractor shall provide a local Winnipeg telephone or facsimile number or a toll-free telephone or facsimile number. If possible the Contractor shall provide an e-mail address during the term of the Contract at which orders for delivery may be placed.

D9. RECORDS

- D9.1 The Contractor shall keep detailed records of the goods supplied under the Contract.
- D9.2 The Contractor shall record, as a minimum, for each item listed on Form B: Prices:
- (a) user name(s) and addresses;
 - (b) order date(s);

- (c) delivery date(s); and
- (d) description and quantity of goods supplied.

D9.3 The Contractor shall provide the Contract Administrator with a copy of the usage records for each year within thirty (30) Calendar Days of the end of year one (1) and within thirty (30) Calendar Days at the end of any Contract extension period should the Contract be extended.

MEASUREMENT AND PAYMENT

D10. INVOICES

D10.1 Further to C10, the Contractor shall submit an invoice for each order delivered to:

The City of Winnipeg
Water and Waste Department
Finance and Administration Division
112 - 1199 Pacific Avenue
Winnipeg Manitoba R3E 3S8
Attention: Accounts Clerk

D10.2 Invoices must clearly indicate, as a minimum:

- (a) the City's purchase order number;
- (b) date of delivery;
- (c) delivery address;
- (d) type and quantity of goods delivered;
- (e) the amount payable with GST and MRST shown as separate amounts; and
- (f) the Contractor's GST registration number.

D10.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D11. PAYMENT

D11.1 Further to C10, payment shall be in Canadian funds net thirty (30) Calendar Days after receipt and approval of the Contractor's invoice.

D11.2 Further to C10, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

WARRANTY

D12. WARRANTY

D12.1 Warranty is as stated in C11.

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternative shall be made in accordance with B5.

E2. GOODS

- E2.1 The Contractor shall supply and deliver clamps – stainless steel / various sizes in accordance with the requirements shown on Form B: Prices and hereinafter specified.
- E2.2 The City will install clamps stainless steel supplied under this Contract on domestic water mains transporting potable water.
- E2.3 The clamps stainless steel will be used to repair holes, longitudinal splits and circumferential cracks in water mains.
- E2.4 Design Requirements:
 - E2.4.1 Clamps, stainless steel shall be designed and constructed to suit the City's intended use and shall meet the minimum requirements specified herein;
 - E2.4.2 Clamps shall hold pressure without visible leakage at a water-main test pressure of 150 pounds per square inch;
 - E2.4.3 Joints between sections of shell shall be designed to allow engaging and disengaging without complete removal of nuts from studs;
 - E2.4.4 Gaskets shall be of the overlapping taper type and shall be secured to the shell. Gaskets shall not be spliced or assembled from component pieces except that a bevel joint may be made where the gasket is secured to the shell for no less than two (2) inches to either side of the joint;
 - E2.4.5 Gasket armour shall be provided at each joint between sections of the shell. Gasket armour shall be inset and secured to the gasket so as to provide a smooth, flush surface;
 - E2.4.6 The clamp shall be designed so as not to create electrical continuity between the clamp and the water main;
 - E2.4.7 The clamp shall be designed so as not to require special equipment or tools for installation.
- E2.5 Size and Model Designations:
 - E2.5.1 Designations of clamps listed in this Bid Opportunity are generic in nature and are based on basic configurations and sizes; and
 - E2.5.2 The City's designation system is as follows:

| | | | | | |
|---|--|----|-------------|------|--------|
| e.g.: | | 2: | 9.00 - 9.80 | x 16 | 1½" cc |
| No. of Sections: 2 | | | | | |
| Range of Pipe Outer Diameter (inches): 9.00 - 9.80" | | | | | |
| Length (inches): 16" | | | | | |
| Threaded Outlet Size (where applicable): 1½" cc | | | | | |

E2.6 Metal Parts:

E2.6.1 Shells, side bars, lifter bars, lugs and gasket armour shall be fabricated from stainless steel conforming to ASTM A167-Type 304 or Type 304L;

E2.6.2 Minimum material thickness shall be as follows:

- | | | |
|-------|---------------|------------|
| (i) | shells | 0.035 inch |
| (ii) | side bars | 0.120 inch |
| (iii) | lift bars | 0.060 inch |
| (iv) | lugs | 0.125 inch |
| (v) | gasket armour | 0.050 inch |

E2.6.3 Threaded fasteners shall be fabricated from stainless steel conforming to ASTM A493-Type 304.

E2.7 Gaskets:

- (a) Gasket material shall be selected by the Bidder to suit the design of the clamp and the purpose for which it is intended;
- (b) The following information shall be noted:
 - (i) ambient air temperature during installation may vary from -40°C to $+40^{\circ}$,
 - (ii) temperature in the installed position after burial may vary from 0°C to $+10^{\circ}\text{C}$.
 - (iii) the Bidder shall provide complete descriptions of the material offered in accordance with ASTM D2000 designation system.

E2.8 Thread Coatings:

E2.8.1 Thread lubricant or anti-seize coating for threaded fasteners shall be dry molybdenum disulphide-based or polytetrafluoroethylene-based compound.

E2.9 Threaded Fasteners

E2.9.1 Studs shall be fabricated in accordance with ASTM F593 - Group 1, Alloy Type 304, Condition CW or SH.

E2.9.2 Nuts shall be fabricated in accordance with ASTM F594 - Group 1, Alloy Type 304, Condition CW or SH.

E2.9.3 Studs shall be welded to the side bars.

E2.9.4 Stud threads shall be coated with an anti-seize compound subsequent to cleaning and descaling of the welded subassembly.

E2.10 Threaded (Tap) Outlet:

E2.10.1 Threaded (tap) outlets shall be provided, when specified, by welding female half couplings to the shell of the clamp.

E2.10.2 Half couplings shall be fabricated in accordance with ASTM A1820F304, and shall be internally threaded in accordance with AWWA C800 Fig. 1 (commonly referred to as a corporation cock or CC thread).

E2.11 Bending no metal part shall be bent with a bend radius less than the thickness of metal.

E2.12 Welding:

E2.12.1 All welds shall be by the tungsten-arc inert gas (TIG) or metal-arc inert gas (MIG) methods.

E2.12.2 Where filler metal is used, it shall be selected to result in a weld with corrosion resistance at least equal to Type 304 stainless steel. Fluxes or filler wire coatings containing halogens shall not be used.

E2.13 Finish all exposed metal parts shall be free of burrs and sharp edges.

E2.14 Cleaning:

E2.14.1 All metal parts shall be free of contaminants and coatings such as those used to facilitate cold forming operations.

E2.14.2 Subsequent to fabrication, all welded subassemblies and individual parts shall be cleaned and de-scaled as recommended by ASTM A380 to remove all surface contaminants.

E2.15 Coatings subsequent to cleaning and de-scaling, no coatings, lubricants, labels or stickers shall be applied to any metal parts except as otherwise specified.

E2.16 Markings:

E2.16.1 Each clamp shall be clearly marked on the shell with the following information:

- (i) make;
- (ii) model;
- (iii) range of pipe diameter;
- (iv) size of threaded outlet;
- (v) direction of rotation;
- (vi) production year.

E2.16.2 No stickers of any sort shall be affixed to any metal part, the following methods of marking will be allowed:

- (i) etching, provided that the resultant etched surface is free of contaminants;
- (ii) stencilling ink, paint or dye provided that said marking compound is water-resistant and free of corrosive agents.

E2.17 Packaging:

E2.17.1 Each clamp shall be individually packaged, along with a copy of installation instructions, in a corrugated cardboard container.

E2.17.2 The clamp shall be in an assembled state.

E2.17.3 Containers shall be designed and constructed to allow stacking, longest axis vertical, to a height of 2.4 metres.

E2.17.4 Each container shall be clearly marked with the following information:

- (i) make;
- (ii) model;
- (iii) range of pipe diameter;
- (iv) length;
- (v) size of tapped outlet.

E2.18 Installation Instructions:

E2.18.1 Each clamp shall be supplied with a copy of installation instructions specific to the clamp. Generalized instructions listing differing installation procedures for differing models will not be accepted.

E2.18.2 The instructions shall clearly indicate:

- (i) make;
- (ii) model;
- (iii) installation procedure in sequential order;
- (iv) recommended torque (minimum and maximum) and tightening sequence for threaded fasteners;
- (v) cautions and warnings ;
- (vi) where bilingual instructions are provided, both sets of instructions shall be identical in meaning and content.

E3. APPROVED PRODUCTS

E3.1 *The City of Winnipeg Standard Construction Specifications* in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.

E3.1.1 *The City of Winnipeg Standard Construction Specifications* is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgmt/Spec/Default.stm>

E3.1.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.

E3.1.3 Further to C2.4 (d), Specifications included in the Bid Opportunity shall govern over The City of Winnipeg Standard Construction Specifications.

E3.2 The following products are approved;

| | File code | |
|--|------------------|----------|
| (i) Clamp SS 1: 6.84 - 7.24 x 8" | | 4.1.1.69 |
| (ii) Clamp SS 1: 6.84 - 7.24 x 12" | | 4.1.1.69 |
| (iii) Clamp SS 1: 6.84 - 7.24 x 16" | | 4.1.1.69 |
| (iv) Clamp SS 1: 9.00 - 9.40 x 12" | | 4.1.1.69 |
| (v) Clamp SS 1: 9.00 - 9.40 x 16" | | 4.1.1.69 |
| (vi) Clamp SS 2: 4.77 - 5.57 x 12" | | 4.1.1.69 |
| (vii) Clamp SS 2: 11.40 - 12.20 x 12" with 2" threaded tap | | 4.1.1.69 |
| (viii) Clamp SS 2: 4.77 - 5.57 x 16" | | 4.1.1.69 |
| (ix) Clamp SS 2: 6.84 - 7.64 x 12" with 3/4" threaded tap | | 4.1.1.69 |
| (x) Clamp SS 2: 6.84 - 7.64 x 12" with 2" threaded tap | | 4.1.1.69 |
| (xi) Clamp SS 2: 6.84 - 7.64 x 16" | | 4.1.1.69 |
| (xii) Clamp SS 2: 6.84 - 7.64 x 16" with 3/4" threaded tap | | 4.1.1.69 |
| (xiii) Clamp SS 2: 8.99 - 9.79 x 12" | | 4.1.1.69 |
| (xiv) Clamp SS 2: 8.99 - 9.79 x 12" with 3/4" threaded tap | | 4.1.1.69 |
| (xv) Clamp SS 2: 8.99 - 9.79 x 16" | | 4.1.1.69 |
| (xvi) Clamp SS 2: 11.04 - 11.84 x 12" | | 4.1.1.69 |
| (xvii) Clamp SS 2: 11.04 - 11.84 x 16" with 2" threaded tap | | 4.1.1.69 |
| (xviii) Clamp SS 2: 11.04 - 11.84 x 16" | | 4.1.1.69 |
| (xix) Clamp SS 2: 11.40 - 12.20 x 12" with 2" threaded tap | | 4.1.1.69 |
| (xx) Clamp SS 2: 12.70 - 13.50 x 16" | | 4.1.1.69 |
| (xxi) Clamp SS 2: 13.15 - 13.95 x 12" | | 4.1.1.69 |
| (xxii) Clamp SS 2: 13.15 - 13.95 x 16" | | 4.1.1.69 |
| (xxiii) Clamp SS 2: 6.84 - 7.64 x 12" | | 4.1.1.69 |
| (xxiv) Clamp SS 2: 8.99 - 9.79 x 16" with 3/4" threaded tap | | 4.1.1.69 |
| (xxv) Clamp SS 2: 12.70 - 13.50 x 12" | | 4.1.1.69 |
| (xxvi) Clamp SS 2: 13.00 - 13.95 x 12" with 2" threaded tap | | 4.1.1.69 |
| (xxvii) Clamp SS 2: 13.00 - 13.95 x 16" with 2" threaded tap | | 4.1.1.69 |
| (xxviii) Clamp SS 3: 12.70 - 13.50 x 16" | | 4.1.1.69 |
| (xxix) Clamp SS 2: 11.60 - 12.40 x 16" | | 4.1.1.69 |
| (xxx) Clamp SS 2: 11.60 - 12.40 x 16" with 3/4" threaded tap | | 4.1.1.69 |
| (xxxi) Clamp SS 2: 15.60 - 16.40 x 16" | | 4.1.1.69 |
| (xxxii) Clamp SS 2: 15.00 - 15.80 x 16" | | 4.1.1.69 |
| (xxxiii) Clamp SS 3: 19.50 - 20.70 x 16" | | 4.1.1.69 |
| (xxxiv) Clamp SS 2: 4.74 - 5.57 x 12" with 1" threaded tap | | 4.1.1.69 |
| (xxxv) Clamp SS 2: 6.84 - 7.64 x 8" | | 4.1.1.69 |
| (xxxvi) Clamp SS 2: 6.84 - 7.64 x 16" with 2" threaded tap | | 4.1.1.69 |

| | | |
|-----------|--|----------|
| (xxxvii) | Clamp SS 2: 8.99 - 9.79 x 8" | 4.1.1.69 |
| (xxxviii) | Clamp SS 2: 8.99 - 9.79 x 12" with 1" threaded tap | 4.1.1.69 |
| (xxxix) | Clamp SS 2: 8.99 - 9.79 x 12" with 2" threaded tap | 4.1.1.69 |
| (xl) | Clamp SS 2: 8.99 - 9.79 x 16" with 1" threaded tap | 4.1.1.69 |

E3.3 Applicable Specification and Drawings

E3.4 These Specifications shall apply to the Work.