



**CITY OF RICHMOND  
INVITATION TO TENDER**

**Contract T.3987**

**Contract: Hamilton Area Sanitary Gravity Mains, Forcemains and Pump Station**

The City of Richmond invites tenders for construction work at the above-mentioned locations. Work under the Contract generally comprises:

1. The installation of a Sanitary Pump Station at #23811 Thompson Gate.
2. The supply and installation of approximately 975 lineal meters (including optional work) of sanitary gravity main (various sizes from 200mm dia. to 300mm dia.) with all associated appurtenances and tie-ins, using horizontal directional drilling (HDD).
3. The supply and installation of approximately 1,300 lineal meters (including optional work) of sanitary forcemain (various sizes from 75mm dia. to 300mm dia.) with all associated appurtenances and tie-ins, using horizontal directional drilling (HDD).

The *Contract Documents* are available on or after July 19, 2010 during normal business hours at Front of House of the Richmond City Hall at:

6911 No. 3 Road, Richmond, BC, V6Y 2C1

on payment of a **non-refundable** amount of \$50.00 including HST payable to:

**City of Richmond**

*Tenderers* are responsible for arranging their own Couriers for picking up copies of the documents. All Couriers must come with the required cheque/cash and be prepared to complete the Tender Document form with Company Name, Contact information, Telephone Number, Fax and E-mail address.

The *Contract Documents* are available for viewing at:

Front of House, Richmond City Hall, 6911 No. 3 Road, Richmond

**Tenders are scheduled to close at:**

**Tender Closing Time:** 3:00 PM local time

**Tender Closing Date:** August 10, 2010 and will be opened publicly immediately thereafter in Richmond City Hall

**Tender Submission Address:** Manager – Purchasing  
Front of House, Richmond City Hall  
6911 No. 3 Road, Richmond, BC, V6Y 2C1

A tender consists of a submission delivered on time complete with the required Bid Bond, Undertaking of Surety and Undertaking of Liability Insurance.

The lowest or any tender will not necessarily be accepted.

**Manager – Purchasing**



# City of Richmond

August 3, 2010  
File: 02-0775-50-3987/Vol 01

**Business & Financial Services Department**  
**Finance Division**  
Telephone: 604-276-4218  
Fax: 604-276-4162

**Attention: To All Tenderers**

Dear Sir/Madam:

**Re: Request for Tender T.3987 – Hamilton Sanitary Forcemain – Addendum One**

This Addendum includes items of clarification, forms part of the Contract Documents and shall be read, interpreted and coordinated with all other parts. Please review and consider the following information in the preparation of your Tenders:

### Questions and Answers

Q.1 Please provide information regarding sources for specified material “Vesicular Basalt”. Is pumice an acceptable alternative?

A.1 The main supplier of vesicular basalt is:

**Canada Pumice Corp**  
551 Edkins Street  
Quesnel, BC V2J 1X7  
Phone: 250-992-7955

Pumice fill is not an acceptable alternative to vesicular basalt.

Q.2 We request a one (1) week extension to the tender period, if possible.

A.2 Due to the project schedule, the City cannot grant an extension to the tender period.

Yours truly,

Kerry Lynne Gillis  
*Buyer II - Contracting Specialist*

KG:kg

pc: Milton Chan, P.Eng., Senior Project Engineer



# City of Richmond

August 5, 2010  
File: 02-0775-50-3987/Vol 01

**Business & Financial Services Department**  
**Finance Division**  
Telephone: 604-276-4218  
Fax: 604-276-4162

**Attention: To All Tenderers**

Dear Sir/Madam:

**Re: Request for Tender T.3987 – Hamilton Sanitary Forcemain – Addendum Two**

This Addendum includes items of clarification, forms part of the Contract Documents and shall be read, interpreted and coordinated with all other parts. Please review and consider the following information in the preparation of your Tenders:

**Tender Documents:**

Please find enclosed with this Addendum, pages 63 and 64 of Project Specifications of Part D of the Contract Documents.

Yours truly,

A handwritten signature in black ink, appearing to be 'Kerry Lynne Gillis'.

Kerry Lynne Gillis  
*Buyer II - Contracting Specialist*

KG:kg

pc: Milton Chan, P.Eng., Senior Project Engineer

- .3 Mechanical and Electrical Components to be tested include:
  - i. Piping systems including valves, couplings and spool pieces.
  - ii. Level sensor, gauges and switches.
  - iii. All electrical power and control systems
  - iv. VFD's
- .4 Testing of pump start/stop and alarm points to confirm the correct operation and sequence of operations of the pumping system under normal and alarm conditions including:
  - i. Start levels
  - ii. Stop levels
  - iii. High level alarms.
  - iv. Low level alarms.
  - v. VFD operating levels
- .5 Any test items which overlap with the City work, shall be tested jointly with both present.

### 3.8 Test Reports

- .1 The Contractor shall prepare a test report based on the testing and commissioning work at the site and shall include all calibration calculations, all set points and observed readings.
- .2 The test reports shall include confirmation of manufacturers and suppliers recommended procedures for installation, testing and calibration. The following data shall also be provided:
  - i. Pump flows;
  - ii. Discharge pressures;
  - iii. Water levels in wet wells;
  - iv. Other information requested by the Engineer.
- .3 Test report data shall be included in the Operations and Maintenance Manuals. See section 15013.

**END OF SECTION**

**16010 – ELECTRICAL GENERAL PROVISIONS****1.0 General Description**

- .1 The work of Division 16 will include all electrical work required to provide a complete working installation at the site including but not be limited to the following items:
  - i. BC Hydro Power Service Related:
    1. Supply and installation of all electrical wiring, ducting, equipment and the power service work, the Contractor will be required to schedule and co-ordinate his work activities with the City of Richmond, BC Hydro & others.
    2. Connection of a meter base located inside the electrical kiosk.
  - .2 Kiosk and Pump Station Related:
    - i. The installation and connection of a pre-fabricated, Owner supplied, metal kiosk enclosure which contains electrical, instrumentation and control equipment for the Hamilton Force main Thompson Road Pump Station. The kiosk is to be mounted on a contractor poured concrete slab containing all contractor placed electrical ducts connecting to the BC Hydro service pole, the pumps, the antenna base, flowmeter, MultiRanger sensor, pressure transmitter and air vent.
    - ii. Supply and install all underground electrical duct at the site as shown on the drawings.
    - iii. Locate existing antenna and pole as shown on the drawings including Owner supplied cable.
    - iv. Install, wire and connect the Owner supplied pumping units complete with attached power and monitoring cables connecting to the electrical kiosk.
    - v. Wire and connect all required control and instrumentation devices for the pump station facility at the site including but not limited to:
      1. All required wiring from field devices to control cabinet.
      2. Flowmeter and flow transmitter as shown on the drawings.
      3. UltraSonic level measuring equipment as shown on the drawings.
      4. Flygt float switch as shown on the drawings.
      5. Pump monitoring wiring.
      6. Wire and connect all mechanical items installed under Section 15452.
      7. Supply, install, wire and connect all other electrical items required or necessary to provide a complete working installation at the site as required by the Contract Documents.
      8. Supply and install all necessary grounding materials at the site. Grounding to be installed to the latest revision of Canadian Electrical Code and to the local inspection authority's approval.
      9. Supply and install all necessary duct, buried duct, junction and pull boxes, unistrut, fasteners, connectors, conduit, flexible conduit, cable connectors, and other related items at the site.
      10. Wiring to be in RPVC, RSC or EMT systems as shown on the drawings. Insulated green ground wire sized to code and is additional to the wiring shown on the drawings.