

CITY OF RICHMOND INVITATION TO TENDER

Contract T.3239

Contract: Blundell Road Sanitary Forcemain No.1 Road to Frobisher Drive

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

- supply & installation of approximately 250 lineal metres of 500mm dia. sanitary forcemain;
- supply & install pigging chamber;
- complete live forcemain connections.

The *Contract Documents* are available on or after July 14, 2008 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 GST payable to:

City of Richmond

The *Contract Documents* are available for viewing at:

Front of House, Richmond City Hall, 6911 No. 3 Road, Richmond and Vancouver Regional Construction Association, 3636 East 4th Avenue, Vancouver.

Tenders are scheduled to close at:

Tender Closing Time: 3:00 PM local time

Tender Closing Date: Thursday, July 31, 2008 and will be opened publicly immediately thereafter at Richmond City Hall.

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

A valid 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 & Risk

July 24, 2008
File: 10-6340-20-P.08607/Vol 01

Engineering
Telephone: 604-276-4289
Fax: 604-276-4197

TO THOSE WHO HAVE RECEIVED COPIES OF T.3239

Dear Sir/Madam:

**Re: Contract T.3239
Addendum No. 1
Blundell Road Sanitary Forcemain: No.1 Road to Frobisher Drive**

This addendum forms part of the Contract Documents and shall be read, interpreted and coordinated with all other parts. The costs of all work contained herein shall be included in the Contract Price. The following revisions supersede the information contained in the original Contract Document to the extent referenced and shall become part thereof.

Tenderers shall acknowledge receipt of this addendum by inserting its number and date where provided for on the Form of Tender.

1. CONTRACT DRAWINGS

Drawing GEN-08-86, sheet 5 of 5 is revised as follows:

STEP 5.5 NOTES:

Delete

5. VIDEO PIPE AND REPAIR EXISTING FRP.

And replace with

5. VIDEO EXISTING FRP PIPE. ANY REPAIRS ON EXISTING FRP REQUIRED WILL BE NEGOTIATED AS A CHANGE ORDER TO THE CONTRACT.

2. CONTRACT DRAWINGS

Drawing GEN-08-86, sheet 5 of 5

STEPS 5 & 6 are revised as per the attached detail for the west and east tie-ins to the existing FRP forcemain.

Materials to have the following specifications:

1. PVC pipe to be C905 – minimum DR 25.
2. FRP pipe to be minimum 150 psi pressure rating.
3. All FRP wrapping on project to be minimum 150 psi pressure rating.

3. QUESTIONS RECEIVED FROM CONTRACTORS & SUBSEQUENT ANSWERS

1. Q How are we to complete final paving, 50mm mill and overlay as per the by-law, with the proposed centerline almost on top of the white dashed line between the two lanes? Are we to mill and fill both complete lanes, or do we mill and fill a lane width, or approximately 3 meters width, (width of milling machine)?
A: Final mill & overlay limits will include any lane affect by works in accordance with bylaw 7869.
2. Q: The white dashed lines will be taken out or removed with paving / trench. Do we allow for final line painting of white dashed lines and crosswalks / stop bars?
A: The Contractor will be responsible for temporary line taping to ensure safety of the site. Permanent line painting will be the City's responsibility.
3. Q Cathodic protection is indicated for certain tees / fittings. How about the tie-in tees & valves? Do we allow or price for cathodic to be installed for all fittings & valves, or only those shown on the drawings?
A: Yes, all fittings, valves and steel components to be cathodically protected as per note 5 on Sheet 1 of 5 in the engineering drawings.
4. Q: FRP, fiberglass reinforcing is called for at the proposed tie-ins. Do you have any more detail on this? How much reinforcing is required, and are there qualified suppliers / contractors that do this? Who does Richmond use?
A: There are no City specifications for reinforcing of the FRP pipe. The Contractor is responsible to strengthen the existing pipe to their satisfaction to allow for tie-in. The City does not have a standard contractor that performs this work.
5. Q: Can you please clarify the CCTV inspection of existing FM? Are we to do this after the new FM is tied in? Do we pump and by-pass the existing line to flush and video?
A: The existing forcemain is to be videoed during the time the existing main is abandoned (step 5 sheet 5 of 5) flow will be maintained through the new HDPE main. The FRP main is to be flushed and cleaned to allow for proper inspection of the temporarily abandoned section.
6. Q: Step 2, Note 2. How do we pressure test all tapping sleeves prior to wet taps, and maintain existing sewer flows?
A: The pressure test for the tapping sleeves is only required to test the bond between the newly installed fibreglass tee and the existing fibreglass pipe.
7. Q: Step 4, Note 1: Does the City simultaneously shut down all pump stations? When is low flow time? 3am? Weekend only? How many Pumper Trucks do we allow for to suck down the sewage between the plugs as the air plugs are pumped up and flows reduced between plugs? Where do these pump trucks haul to since over 1 dozen pump stations have now been shut down? What is the nearest dump location (sewer manhole / pump station) for pump truck to drive to, that is still in operation?
A: The City does not anticipate requiring the shut down of the pump stations. Wet-tap and plug insertion may be installed during live flows however, the City recommends this work to be completed during low flows typically occurring from 12:00am to 5:00am.
8. Q: Step 5, note 5. Testing. We are to install first, the Hot Tap air plug through the tapping sleeve. Then, a second air plug is installed through the cleanout as far in as possible. This is how we 'isolate' the FM between these two points. Then do we video / inspect the FRP between these

two points only?

A: Yes, CCTV video inspection is only required between these two sections.

9. Q: Step 5 Notes: item 5, says "Video Pipe and repair existing RFP". What is it that we are repairing? What do we allow for repair? Will repair require an additional dig somewhere on the existing line, to expose the FRP and do an additional fibreglass repair around the FRP Pipe? This would require our Fibreglass subcontractor to make a separate field visit. Is there a blow out or failed section here? Does the city plan to continue using this existing FRP line? Why not abandon after the new by-pass is in place?

A: The City intends to use the existing FRP main as a redundant system to be used in emergency situations. The section of FRP main to be videoed is only the temporarily abandoned section between the tapping sleeves. There is no requirement for repair of the existing main outside of the work areas. Any repairs required will be a negotiated change order to the Contract. See Item 1 in this addendum.

10. Q: What type of break is on the forcemain? (i.e. is the pipe crushed, broken, significant misaligned joint, etc... and to what degree is the break)

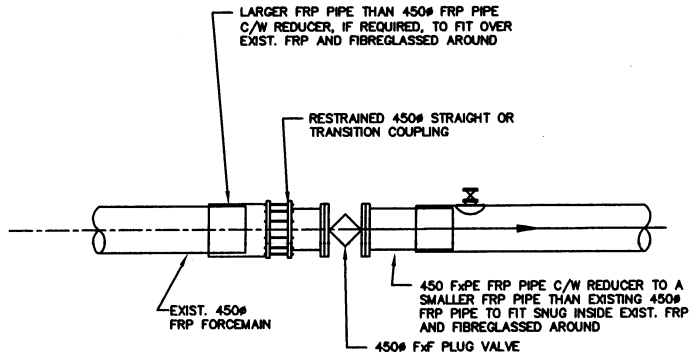
A: The FRP forcemain is currently operational and functional. The previously repaired failure was a longitudinal crack with some ovaling of the pipe.

11. Q: Is there any indication as to the amount of debris accumulated within the forcemain?

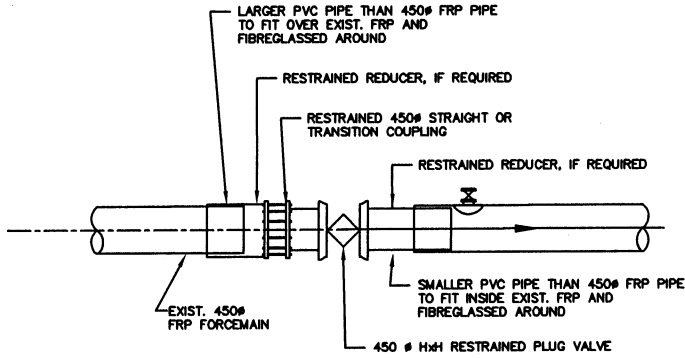
A: The existing forcemain carries flows from approximately 18 pump stations. No information is available at this time for the amount of debris within the pipe.

Yours truly,

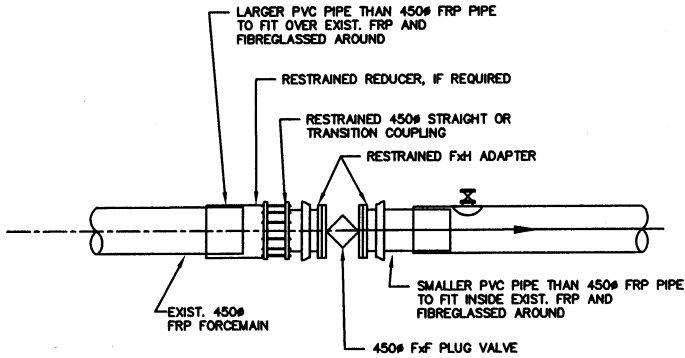
Mile Racic
Engineering & Public Works



OPTION 1



OPTION 2



OPTION 3

OPTIONS FOR VALVE CONNECTION IN EXISTING FRP FORCEMAIN



#101 - 1861 Welch St.
North Vancouver B.C.
V7P 1B7
telephone: (604) 985-0508
fax: (604) 985-0536



TITLE: SANITARY SEWER FORCEMAIN REPLACEMENT BLUNDELL ROAD FROM No. 1 RD. TO FROBISHER DR.			
DESIGN: KW	DWG. No:	GEN-08-86	
DRAWN: CO	CHECKED: KW	SCALE: AS SHOWN	DATE: JULY, 2008
ENGINEER: KW	SEC. No: -	SHT. No: 1 OF 1	

NO.	DATE	BY	CHK.	DESCRIPTION
P1	08/07/25	CO	KW	ISSUED FOR CLIENT REVIEW
REVISIONS				