

# CITY OF RICHMOND INVITATION TO TENDER

## Contract T.2970

### Contract: Francis Road Drainage Pump Station

The City of Richmond invites tenders for construction work at the above-mentioned locations. Work under the Contract generally comprises a comprehensive renovation of the existing Francis Road Drainage Pump Station.

Work generally entails a major refurbishment of the existing Francis Road Drainage Pump Station to bring it to an upgraded, fully functioning system. Generalities of the work include:

- demolition of the existing structure above the foundation, retention of the existing foundation and additional civil works.
- installation of three City supplied 60 HP Flygt drainage pumps and City supplied Motor Control Center.
- supply (except as noted) and installation of all electrical/mechanical items.
- construction of a steel and concrete pump station structure and pedestrian bridge.

The *Contract Documents* are available on or after January 11<sup>th</sup>, 2007 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 \$100.00 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:** February 1<sup>st</sup>, 2007 and will be opened publicly immediately thereafter in 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**



## City of Richmond

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

Telephone (604) 276-4000

www.city.richmond.bc.ca

January 22, 2007

File: 10-6340-20-P.03303/Vol 01

Engineering

Telephone: 604-276-4289

Fax: 604-276-4197

TO THOSE WHO HAVE RECEIVED COPIES OF CONTRACT T.2970

Dear Sir/Madam:

**Re: Contract T.2970  
Addendum No. 1  
Drainage Pump Station Renovation  
Francis Road Drainage Pump Station**

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:

**1. Inserting its number and date where provided for on the Form of Tender.**

**2. Contract Drawings**

- On Drawing No. 402 with reference to the 1000mm x 1000mm x 9mm seepage collars, it is clarified that the collars shall be fabricated from HDPE or steel to suit the discharge pipe material.
- On Drawing No. 101, add the following new Notes 3 and 4 under ELECTRICAL NOTES,
  3. The BC Hydro Pull Box is to be supplied and installed by the Contractor.
  4. For SA and SB fixtures, see Drawing No. 603, Luminaire Schedule.
- On Drawing No. 101, the existing note referencing bypass pumping (top, center of the drawing) is hereby clarified whereby this note also applies to the inlet from Francis, the existing 675 mm diameter drainage pipe on the south side of the existing pump station and any other location where drainage may be entering the site.
- On Drawing No. 362, add the note, "Densification Pile installation is not included as part of Contract T.2970."

- On Drawing No. 102, change the finished design elevation of the dyke from  $\pm 3.50$  metres to 3.60 metres. All other drawings that state or show the final dyke elevation shall also be changed to 3.60 metres.
- On Drawing 001, under the heading (Structural), change the drawing title adjacent to 052656-0-355 “Genset Room – Layout Plan, Sections & Details” to “MCC Room - Layout Plan, Sections & Details”. On Drawing 355, Change the detail name GENSET BUILDING GENERAL LAYOUT PLAN to MCC BUILDING GENERAL LAYOUT PLAN. Change any other drawing or specification references to Genset Room to MCC Room.
- On Drawing No. 355, add the following new Notes 3 to 5.
  3. Hardener to be applied to the MCC Room floor per Section 03361 of the specifications.
  4. All MCC Room construction joints are to include waterstop using Adeka Ultra Seal Water Stop or equivalent subject to approval by the Engineer.
  5. All exterior MCC Room concrete walls that are below grade shall be damp proofed with a minimum of two coats of water proof vapour barrier (Sika Seal or equal as approved by the Engineer). Backfilling shall not be complete until the water proofing is thoroughly dry as approved by the Engineer.
- On Drawing No. 601, remove Note 2.
- On Drawing No. 350, in the Section Structural & Misc. Steel, add the following new Note 9.
  9. Grating, supporting angles, beams, connection plates, trash rack, mesh for handrails, ASTM A325 bolts and chain are to be hot dip galvanized. All other metal items are to be painted as specified on the drawings.
- On Drawings No. 352 and 354 (and any other drawing that references the hand railing), extend the hand railing 300 mm past the top of nosing at all locations.
- On Drawing No. 352, 353, 354 and any other sections or details that show or reference the existing pump station concrete base add the note, “The dimensions shown for the existing pump station concrete base have not been confirmed. Dimensions are to be confirmed by the Contractor and any additional (or less) materials, equipment and labour required to complete construction as shown on the drawings shall be the Contractor’s responsibility.”
- On Drawing No. 363, Outside Elevation, delete the note "Metal Mesh 50.8 x 50.8 Spacing" and replace therefore with the note "Galvanized Welded Iron Mesh, 50.8 x 50.8, 14 Gauge."
- On Drawing No. 359, add the following note with reference to Details AJ, AK and AL, “Bridge deck forms may be supported from the steel beams.”

### 3. Specifications

1. On Page A-3, Instructions to Tenderers (IT), add the following new bullet after the last bullet on this page.

- “Change-over of the City supplied MCC main breaker (Section G) from 400 Amperes to 250 Amperes. City forces shall also arrange for as-built drawings MCC drawings upon completion of this change.”

3. On Page D-19, Item SSP 16, Coordination with City Crews add the following new paragraph after the last bullet noted in this section.

“City crews shall be arranging to replace the existing 400 Ampere Main Breaker to a 250 Ampere Main Breaker. The Contractor shall coordinate their work with the City whereby MCC installation of the MCC in the MCC Room as shown on the drawings is not complete until this work by the City is complete. The Contractor shall contact Mr. Dermott Pitts at 604-244-1269 to coordinate this activity.”

4. After Page M-1, Section M Building Permit, insert the attached the new Section N, BC Hydro Materials and the attached BC Hydro letter dated August 11, 2006 and Drawing No. 411-U07-D28999, Sheets 1 and 2 of 2.

5. On Page D-155, Section 7 – Electrical Items, Installation of Motor Control Center – Item 7.1, in the first sentence of the first paragraph, delete the words, “and supply and installation of the power panel”.

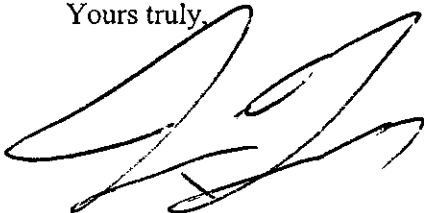
6. On Page D-155, Section 7 – Electrical Items, Supply and Installation of all Remaining Electrical and HVAC Equipment – Item 7.2, after the last sentence of the last paragraph, add the sentences, “This item shall also include all costs for the Contractor to arrange for delivery of BC Hydro materials and for the Contractor to pay for the BC Hydro materials as noted in the August 11, 2006 letter from BC Hydro (Section N). The Contractor shall be responsible for all other electrical items necessary to complete the work that are not supplied by BC Hydro.”

7. On Page D-110, Section 08710, after Item 2.2.9 add the following new Item 2.2.10.

.10 Hardware for the MCC Room door is to be as follows.

3 each	Hinges	TA714 4 ½ X 4 X 32D X NRP	MCK
1 only	Lockset	D80PD X RHO X 630 X ASA	SCHL
1 only	Closer	4041-H X 689 X CTB X EDA	LCN
1 set	Weatherstrip	DS130 X 20	DRAF
1 only	Kickplate	#80 X 10 X 34 X C32D	GALL
1 only	Threshold	DS177 X 4TBP X 36	DRAF

Yours truly,



Jim V. Young, P. Eng.  
*Manager Engineering Design and Construction*

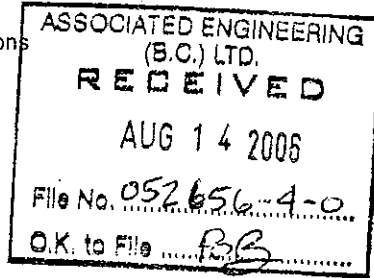
## **SECTION N**

### **BC Hydro Materials**



reliable power,  
at low cost,  
for generations

Customer Projects & Operations  
Phone: (604) 543-4150  
Fax: (604) 543-6030



August 11, 2006

File: 0003234387  
Work Order: 00544711

Peter Bakker  
Associated Engineering LTD  
Suite 300 - 4940 Canada Way  
Burnaby, BC V5G 4M5

Dear Peter:

**2500 Francis Road, Richmond (Francis Rd. Pump Station Upgrade)**

As requested, we have prepared an electric servicing design for this project. The service will be 3 phase, 4 wire, 347/600 Volts to your 400 Amp main switch as indicated on the enclosed Drawing No. 411-U07-D2899. This drawing will be submitted to the Municipal Engineering Department for their approval.

**COSTS:**

This estimate is quoted for The City of Richmond, whose GST Registration number is 121454003.

BC Hydro's construction charges, including GST, have been calculated at \$ 29,779.64. This amount is payable in advance by cheque or money order (no cash taken on premise) and subject to revision ninety (90) days from the date of this letter.

Customer Share of Construction Costs	\$ 28,147.00
less Credit for Value of Work Completed by Customer	\$ 53.00
<b>Net Construction Cost</b>	<b>\$ 28,094.00</b>
GST @ 6% BC Hydro GST Registration No. R121454151	\$ 1,685.64
<b>(Payment Required)</b>	<b>\$ 29,779.64</b>

**Please return your payment in the enclosed self addressed envelope.**

This cost excludes charges from any other utility (telephone, gas, cable, etc.). They must be contacted separately to arrange for their services.

A complete set of detailed civil drawings with specifications will be provided when all payments have been made. Our Materials Reservation System is determined by the date payment is received. It is therefore in your interest to make this payment at your earliest convenience to ensure that the materials are ready when construction begins.

**PIONEER STATUS:**

You may be eligible for a refund based upon additional customers connected within five (5) years of the date the line is energized. Refunds will normally be made at the end of the five (5) year period and will not exceed a total of \$ 20,614.00 plus GST. Interest will not be paid on the refunds. Requests for a refund must be made in writing prior to the end of the sixth (6th) year following the date of energization. A refund application form will be mailed to you after energization of the extension.

The quoted costs are subject to review if, due to customer delays, BC Hydro is unable to install the electrical work within six (6) months of the date payment is received. Costs may also be revised if your proposal changes in any way or if site conditions dictate a last minute redesign.

**DEVELOPER'S RESPONSIBILITIES:**

- Supply and installation of civil materials on public and private property under BC Hydro and Municipal inspection. Note: The Canadian Electrical Code requires that the Duct Installer hold a certificate of competency and work under electrical permit.
- A pre-job conference must be held with our inspector to review all drawings and project specifications. Please contact Willie Bezembinder at (604) 543-1531, or cellular (604) 290-1974 at least forty-eight (48) hours in advance to schedule a meeting. Note: You must select a civil contractor acceptable to BC Hydro.
- Arrange delivery of BC Hydro supplied civil materials.
- Assume ownership and responsibility for all civil works on private property upon completion of the installation.

**BC HYDRO'S RESPONSIBILITIES:**

- Supply of technical drawings and Specification No. 1323 as required.
- Installation of all underground electrical materials up to the main switch.
- Assume ownership of all civil works on public property upon completion and acceptance by the civil inspector.

**ENVIRONMENTAL RESPONSIBILITIES:**

The design does not take into account site specific environmental sensitivities and requirements. Determining site specific environmental sensitivities and requirements, and implementing and building the designed electrical infrastructure in an environmentally safe and lawful manner, are solely your responsibility.

**SCHEDULING:**

Our portion of the installation will be scheduled after receipt of the following:

1. Final approval of the civil works by a BC Hydro Civil Inspector.
2. Electrical Contractor Authorization Form, complete in all aspects, duly signed and authorized for connection.

3. Site inspection and approval by a BC Hydro Representative.

Upon completion of the above items, a BC Hydro representative or Scheduler will contact you within 5 working days to schedule your connection.

**METERING:**

As part of our program to standardize conditions of electrical supply throughout our service area, BC Hydro will determine power factor and administer power factor requirements.

The metering equipment will be supplied at BC Hydro's expense.

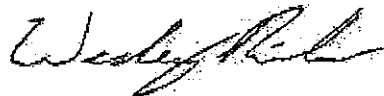
The power factor will appear on your bill each month after the installation, however the surcharge, if any, will not be made until four (4) full months have elapsed. This will give you sufficient opportunity to make any necessary adjustments to avoid the power factor surcharge.

**ACTION REQUIRED:**

1. Please make payment by cheque or purchase order number.
2. Complete, sign and return the enclosed Application for Service.
3. Inform your electrician of the requirement for current transformers (CTs) and potential transformers (PTs), together with a metering cabinet to be picked up from BC Hydro.
4. Please supply key(s) for electrical room.

If you have any questions concerning this project please contact me.

Yours truly,



Wes Rink  
Design Representative  
Fraser Valley Process Centre

WPR/sw

Enclosures



# Application for Service



New service  
 Add service  
 Change of tenant      Service order # \_\_\_\_\_

Account number \_\_\_\_\_ Workday \_\_\_\_\_

Applicant name \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Service address  
 Defined     Undefined  
 Premises number \_\_\_\_\_ St. dir. \_\_\_\_\_ Street name \_\_\_\_\_  
 St. suffix \_\_\_\_\_ Suite \_\_\_\_\_ City or town \_\_\_\_\_  
 Postal code \_\_\_\_\_ Telephone \_\_\_\_\_

Mailing address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Postal code \_\_\_\_\_

Service contract data  
 Meter number \_\_\_\_\_ Equal pay Yes  No   
 Day \_\_\_\_\_ Month \_\_\_\_\_ Year \_\_\_\_\_  
 Meter reading \_\_\_\_\_ Rates \_\_\_\_\_ No. of units \_\_\_\_\_ Premises code \_\_\_\_\_  
 Application score \_\_\_\_\_ U \_\_\_\_\_ Conn. load kW \_\_\_\_\_ Electric heating Yes  No   
 Dog \_\_\_\_\_ Yes  No  Special minimum amts. \_\_\_\_\_ Start date \_\_\_\_\_  
 Day \_\_\_\_\_ Month \_\_\_\_\_ Year \_\_\_\_\_  
 SV type \_\_\_\_\_ Min. code \_\_\_\_\_ Cont. length \_\_\_\_\_ Type of contract \_\_\_\_\_

Personal reference data (SPRD)  
 Date of birth \_\_\_\_\_ B.C. DLN \_\_\_\_\_  
 Spouse/roommate \_\_\_\_\_

Landlord  
 Own     Rent  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 Postal code \_\_\_\_\_ Telephone \_\_\_\_\_

Employer  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 Postal code \_\_\_\_\_ Telephone \_\_\_\_\_

Reference  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 Postal code \_\_\_\_\_ Telephone \_\_\_\_\_

Additional information  
 \_\_\_\_\_  
 \_\_\_\_\_

Nature of business \_\_\_\_\_

Previous address \_\_\_\_\_  
 \_\_\_\_\_

Account number \_\_\_\_\_ Cust. type \_\_\_\_\_  
 Credit history \_\_\_\_\_  
 Close Yes  No  Closing date Day \_\_\_\_\_ Month \_\_\_\_\_ Year \_\_\_\_\_ Transfer Yes  No

Service data  
 Date service required \_\_\_\_\_ Meter numbers \_\_\_\_\_ Reconnect \_\_\_\_\_ Time \_\_\_\_\_  
 Day \_\_\_\_\_ Month \_\_\_\_\_ Year \_\_\_\_\_  
 Amount \_\_\_\_\_ Receipt \_\_\_\_\_ Bill \_\_\_\_\_ Credit app/number \_\_\_\_\_  
 Connection charge \_\_\_\_\_  
 Other charges deposit \_\_\_\_\_

AGREEMENT  
 The undersigned, by applying for service and signing this application, acknowledges an obligation to pay for service provided by BC Hydro in accordance with this application and the electric tariff as amended or replaced from time to time and available for inspection at any general office of BC Hydro or at [www.bchydro.com](http://www.bchydro.com).

Signed \_\_\_\_\_

Printed name \_\_\_\_\_

Special instruction on back  
 Issued by \_\_\_\_\_ Issuing office \_\_\_\_\_ Date \_\_\_\_\_  
 Purchasing existing business Yes  No  Company reference (SCCA) \_\_\_\_\_  
 Purchasing business property Yes  No

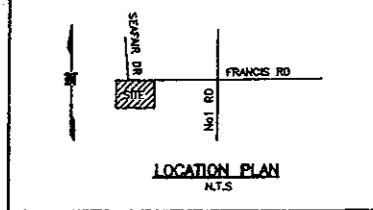
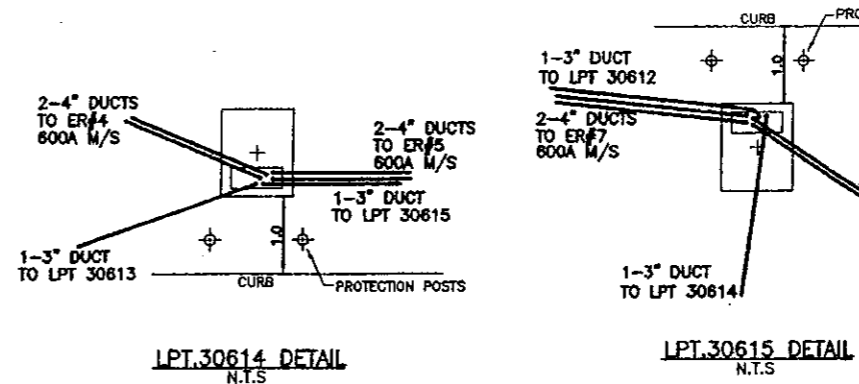
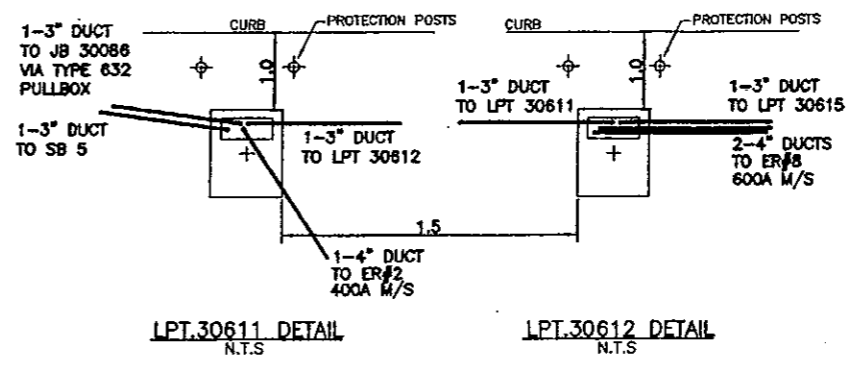
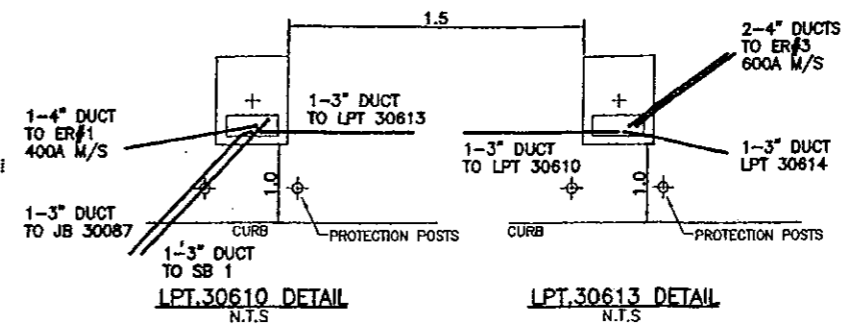
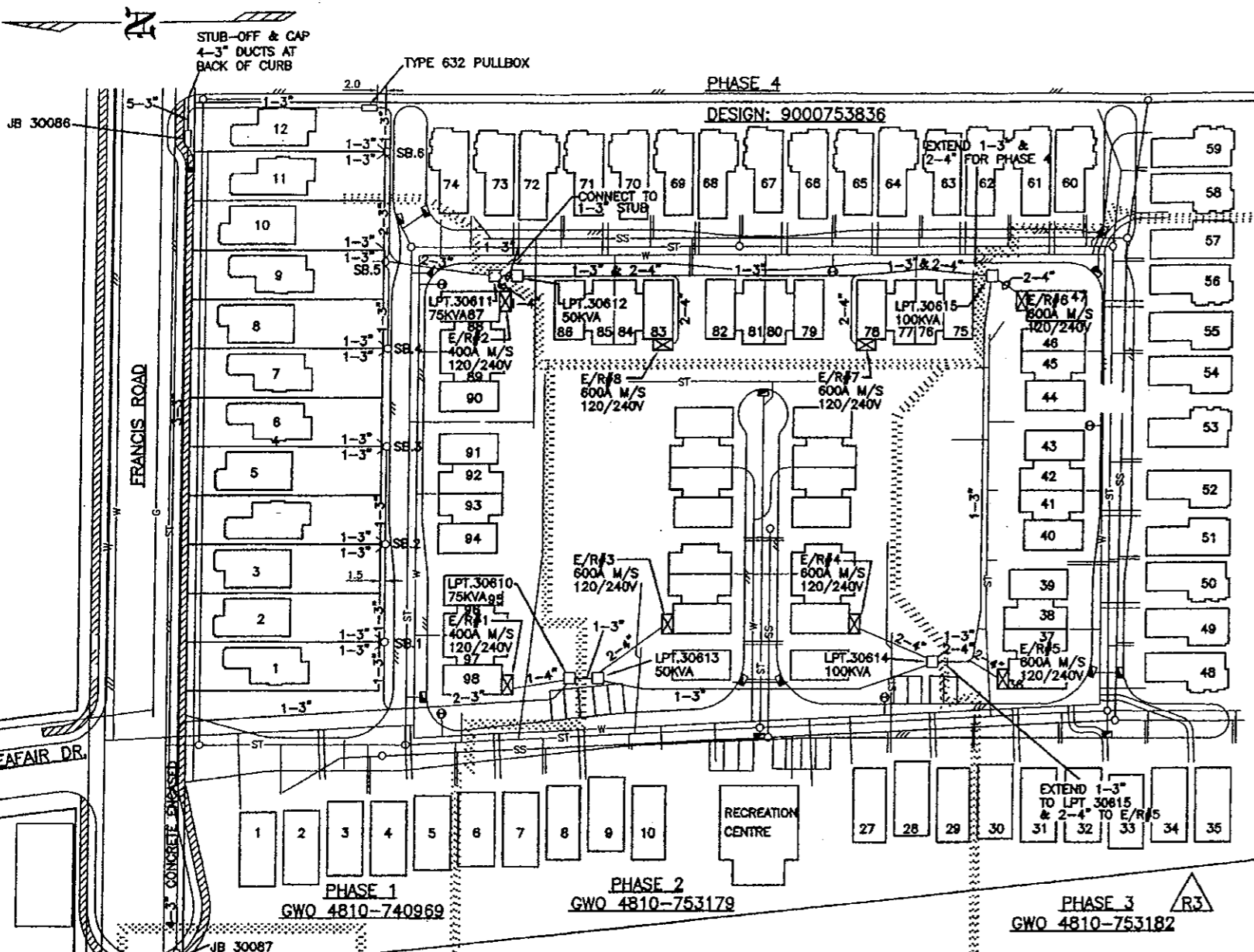
Landlord  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 Postal code \_\_\_\_\_ Telephone \_\_\_\_\_

Princ./partner (1)  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 Postal code \_\_\_\_\_ Telephone \_\_\_\_\_

Princ./partner (2)  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 Postal code \_\_\_\_\_ Telephone \_\_\_\_\_

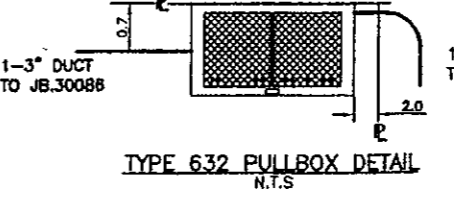
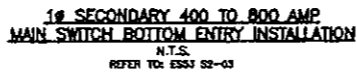
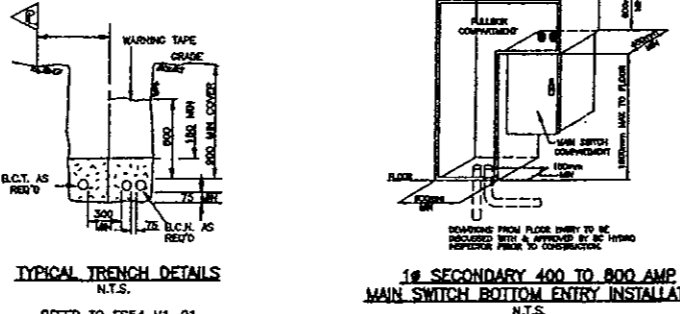
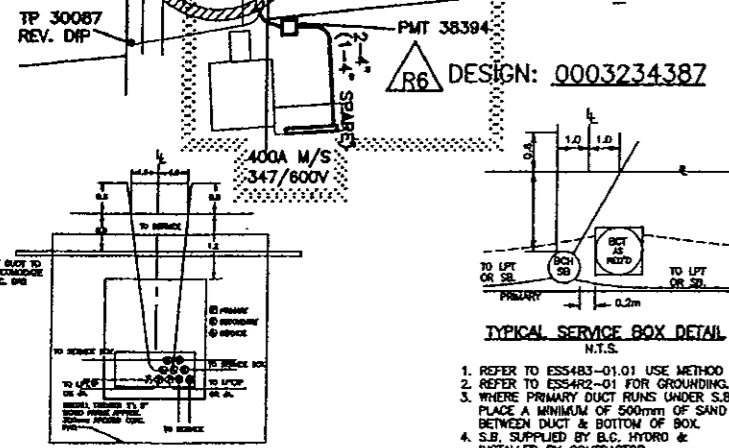
Bank reference  
 \_\_\_\_\_

Branch  
 \_\_\_\_\_ Telephone \_\_\_\_\_



- NOTES:**
1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH B.C. HYDRO SPECIFICATIONS #1323 ELECTRICAL DISTRIBUTION STANDARDS AND PROJECT DRAWINGS WHICH WILL TAKE PRECEDENCE.
  2. DEVELOPER TO DO ALL SURVEY AND LAYOUT WORK AND PROVIDE GRADE STAKES PRIOR TO CONSTRUCTION.
  3. B.C. HYDRO'S UNDERGROUND INSPECTOR MUST BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION.
  4. B.C. HYDRO'S INSPECTOR MAY DETERMINE THE NEED FOR ADDITIONAL CONCRETE ENCASUREMENTS, RETAINING WALLS OR PROTECTION POSTS WHERE REQUIRED TO PROTECT HYDRO EQUIPMENT.
  5. CONCRETE ENCASUREMENTS TO BE FORMED AS DIRECTED BY HYDRO'S INSPECTOR. A MINIMUM OF 75mm CONCRETE TO SURROUND DUCT.
  6. ALL DUCTS TO BE SWAGED AND STRUNG AND ALL DUCTS STUBBED OFF ARE TO BE TERMINATED WITH A 2" x 4" INSTALLED VERTICALLY AGAINST THE CAPPED DUCT.
  7. CONTACT CITY/MUNICIPAL WORKS INSPECTOR FORTY-EIGHT (48) HOURS PRIOR TO STARTING JOB.
  8. ALL EXCAVATION, BACKFILLING AND RESTORATION TO BE CARRIED OUT IN ACCORDANCE WITH CITY/MUNICIPAL AND M.O.T.A.H. SPECIFICATIONS TO THE SATISFACTION OF THE APPROVING AUTHORITY.
  9. DUCTS, BENDS, TWINE AND GLUE FOR ALL CIVIL WORK TO BE SUPPLIED BY THE DEVELOPER.
  10. ALL TRANSFORMER PADS, SERVICE BOXES, PRIMARY JUNCTION BOXES & GROUNDING EQUIPMENT SUPPLIED BY BC HYDRO.

**APPROVAL ISSUE NOT TO BE USED FOR CONSTRUCTION**



- LEGEND**
- TERMINAL POLE
  - B.C. HYDRO DUCT
  - TRANSFORMER
  - △ JUNCTION ABOVE GROUND
  - ▽ JUNCTION BELOW GROUND
  - SERVICE BOX
  - GAS
  - WATER
  - STORM SEWER
  - SANITARY SEWER
  - MANHOLE
  - HYDRANT
  - CATCH BASIN

R6 DESIGN: 0003234387  
 WO: 00544711  
 A/C-R4 DESIGN: 9000753836 PHASE 4  
 WO: 00240075  
 R3 GWO 4810-753182 PHASE 3  
 A/C-R1 GWO 4810-753179 PHASE 2  
 CANCELLED R1 GWO 4810-753838 PHASE 1  
 R0 GWO 4810-740969 PHASE 1

TYPICAL L.P.T. DETAILS N.T.S.  
 REFER TO ESS4F1-02.01/02/03  
 REFER TO ESS4F1-02.02 FOR COUNTERPOISE GROUNDING.

EGIS UDD MAP: B018D1  
 CML: 411-U07-D2878  
 SCHEMATIC: 4N-C504

DATE	A/C No	REVISIONS	BY	CHK	APP	DATE	A/C No	REVISIONS	BY	CHK	APP	DATE
04.04.18	4	SERVICE TO FRANCIS ROAD PUMPSTATION ADDED & INFO TRANSFERRED FROM DWG 411-007-02878	ACE	LL	BA	06.06.04						
	5	DESIGN 9000753836 AS CONSTRUCTED	AW	TO	WH	04.08.28						
	4	PHASE 4 ADDED (DESIGN 9000753836)	AW	TO	WH	03.08.19						
	3	PHASE 3 ADDED (GWO 4810-753182)	MR	BC	REHLE	03.03.14						
	2	GWO 4810-753179 AS CONSTRUCTED	AW			03.03.08						
	1	PHASE 2 & M/S SIZES CHANGED	MF	BC	REHLE	02.03.08						

SCALE: AS SHOWN      MICROFILMED:

**BChydro**

APPROVALS

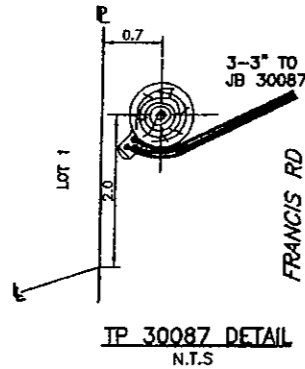
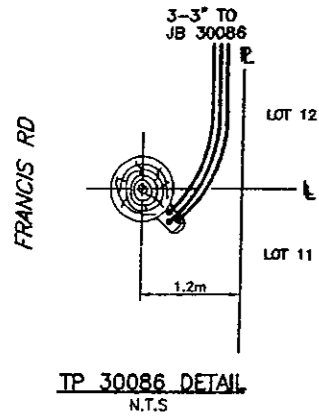
DES. B. CARTIER	DATE: 01.05.03
CHK. B. CARTIER	DATE: 01.06.14
DR. S. BANFIELD	DATE: 01.05.10

DATE: 01.06.14

U/G STRUCTURES & DUCT LAYOUT TO SERVE 12 LOT URD & 110 UNIT T'HSE AT 3000 BLK FRANCIS ROAD RICHMOND

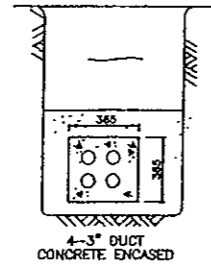
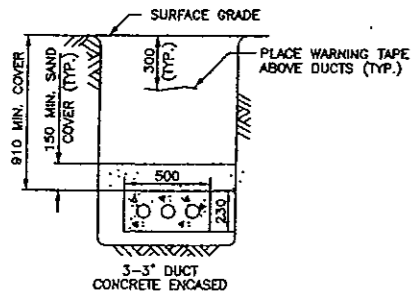
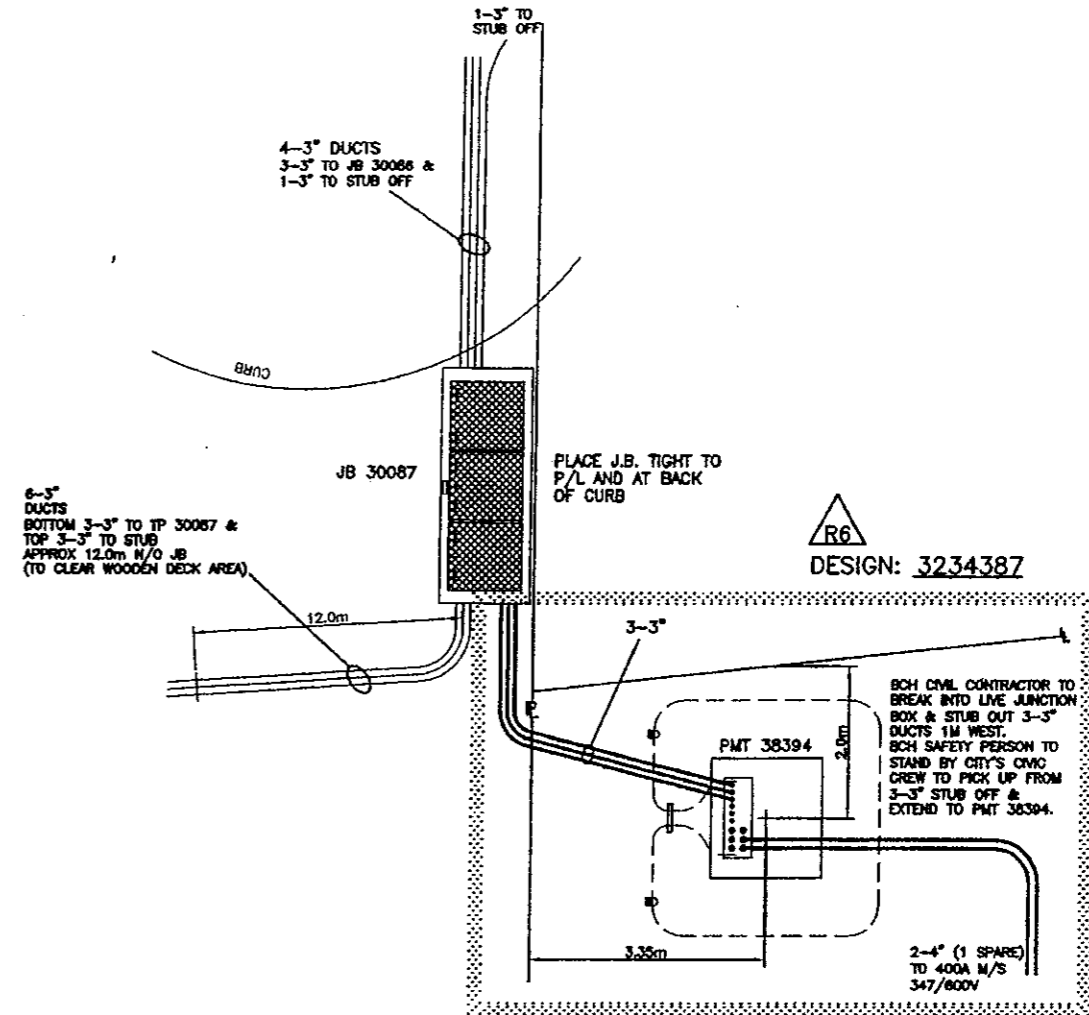
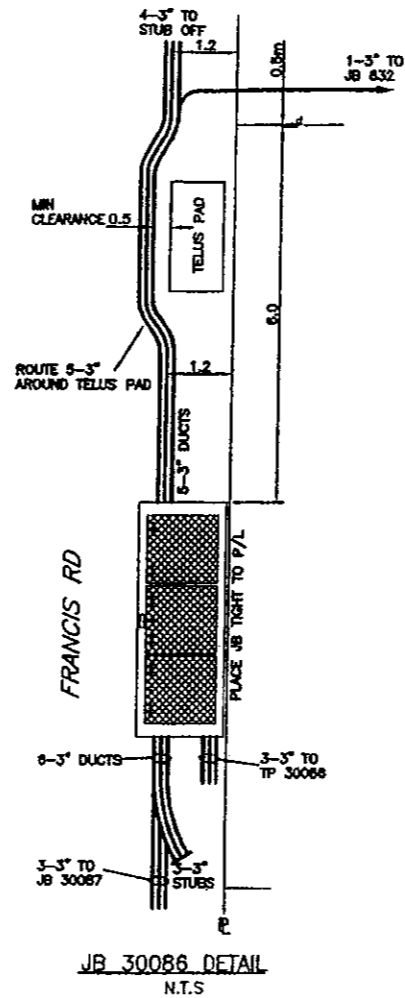
EGIS PRI: B018C

SHEET 1 OF 2      DWG. No. 411-U07-D2899      R. 6



**TERMINAL POLE NOTES**

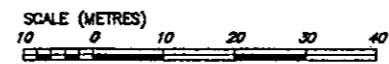
1. FIBERGLASS PLASTER AND GUMD SUPPLIED BY ITORO AND INSTALLED BY CONTRACTOR.
2. REFER TO ES 94 M2-01.01/02 OR ES 94 M1-01.01/02.
3. CIVIL WORK AT OR NEAR TERMINAL POLE MUST NOT BE DONE UNTIL APPROVED BY CIVIL U/G INSPECTOR.
4. CONCRETE ENCASMENT OF PLASTER REQUIRED UNLESS SPECIFIED.
5. FIBERGLASS PLASTER TO BE 300mm ABOVE FINAL GRADE OR 50mm ABOVE SIDEWALK.



R6  
DESIGN: 3234387

BCH CIVIL CONTRACTOR TO BREAK INTO LINE JUNCTION BOX & STUB OUT 3-3" DUCTS 1M WEST. BCH SAFETY PERSON TO STAND BY CITY'S CIVIC CREW TO PICK UP FROM 3-3" STUB OFF & EXTEND TO PMT 38394.

APPROVAL ISSUE  
NOT TO BE USED  
FOR CONSTRUCTION



R6 DESIGN: 0003234387  
WO: 00544711

DATE	A/C/No	REVISIONS	BY	CHK	APP	DATE	DATE	A/C/No	REVISIONS	BY	CHK	APP	DATE	SCALE	MICROFILMED				
														AS SHOWN					
<p>SERVICE TO FRANCIS ROAD PUMPSTATION ADDED &amp; INFO TRANSFERRED FROM DWG. 111-U07-D2878</p>														<p>APPROVALS</p> <p>DES. B. CARTIER 01.05.03</p> <p>DES. CHK. B. CARTIER 01.06.14</p> <p>DR. S. BANFIELD 01.05.10</p> <p>DR. CHK. S. BANFIELD 01.05.10</p>		<p>APPROVALS</p> <p>SEARLE DATE 01.08.14</p>		<p>U/G STRUCTURES &amp; DUCT LAYOUT TO SERVE 12 LOT URD &amp; 110 UNIT T'HSE AT 3000 BLK FRANCIS ROAD RICHMOND</p> <p>GFIS PRI: BOIBC</p>	
<p>REFERENCE DRAWINGS</p>														<p>SHEET 2 OF 2</p>		<p>DWG. No. 411-U07-D2899</p>		<p>P. 6</p>	



## City of Richmond

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6911 No.3 Road, Richmond, BC V6Y 2C1  
Telephone (604) 276-4000  
www.city.richmond.bc.ca

January 25, 2007  
File: 10-6340-20-P.03303/Vol 01

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

TO THOSE WHO HAVE RECEIVED COPIES OF CONTRACT T.2970

Dear Sir/Madam:

**Re: Contract T.2970  
Addendum No. 2  
Drainage Pump Station Renovation  
Francis Road Drainage Pump Station**

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:

**1. Inserting its number and date where provided for on the Form of Tender.**

1. On Page D-21, Temporary Working Space, SSP23, delete the first paragraph and substitute therefore the following paragraphs.

“The Owner previously completed working space negotiation with the owners of 3088 Francis Road as per the attached Section L and it has now expired. The City is currently in discussion with the property owners to secure the working space based upon similar arrangement as outlined in Section L. The Contractor shall not enter the property until confirmation is received from the Engineer that a new agreement with the property owners has been reached.

The City will pay the working space period rental period amount for the maximum duration of construction as specified in SSP 3, Contract Time. It shall be the Contractor’s costs for the working space should the work exceed the specified contract time.

The Agreement dated May 19, 2006 has been attached as Section L and shall be assumed to be representative of what will be agreed upon conclusion of the current negotiations. Per the last paragraph of the May 19, 2006 agreement, the Contractor shall work together with the Owner and the property owner to determine the commencement date of the working space agreement. Working space is to be used for access by the Contractor only. Storage of materials, equipment or any other activity is not permitted. The Contractor shall obtain a signed release from the property owner upon

completion of all the work. The Contractor shall reinstate the property and shall be responsible for all costs related to restoration of the property leading to a signed release.”

## 2. Questions

Q1: Who is responsible for materials testing?

A1: It is the Contractor’s responsibility to complete sufficient materials testing to demonstrate and ensure compliance with specifications.

Q2: What are the MCC Room door dimensions?

A2: The door for the MCC Building is 1050mm by 2800mm (wall opening dimensions).

Q3: On Page D-17, Gas Main Lowering, SSP 13, why is this in the contract as there doesn’t appear to be any gas mains in the work area?

A3: The City is not aware of any gas mains that may be in the work area. However, should there be a gas main, SSP-13 would apply.

Q4: Who is liable for any property damage associated with pile driving?

A4: For the 3088 Francis Road property, the Contractor is required to obtain a signed release. For any other properties that may be damaged as a result of the Contractor’s work, the Contractor shall be responsible to fix the damage and/or demonstrate to the Engineer’s satisfaction that the damage was not caused by the Contractor’s work.

Q5: To facilitate our ability to size bypass pumping, what are the existing Francis Pump station sizes?

A5: Refer to the attached Contract 2494 P, Drainage Pump Station, Condition Assessment, Page B30. This drawings provides existing station pumping capacity information. The Contractor is also reminded that the schedule allows the flexibility of when to start and complete the work, i.e., there is an opportunity to commence work when the likelihood of precipitation is lower, thereby potentially reducing the bypass pumping requirements.

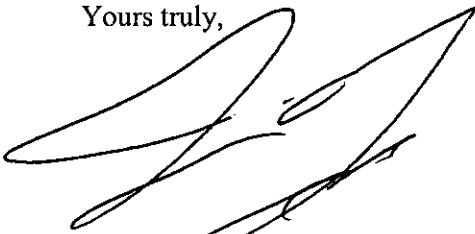
Q6: What if the bid presented does not concur with the City’s base bid requirements?

A6: The City will proceed with the award of contract recommendation based upon the lowest responsive and responsible bid. The City has not invited alternative bids in the context of MMCD IT – Part II-Page 2, Qualifications, Modifications, Alternative Tenders.

Q7: On Page D-90, Item 2.2.3 shows an allowable slump of 60 mm ±200 mm. Probably a typo?

A7: This should read 60 mm ±20mm.

Yours truly,




Jim V. Young, P. Eng.

*Manager Engineering Design and Construction*

Inspection Date: Feb. 5/2003

Inspected by: Mechanical Tommy Wong  
 Electrical Tjandra Tjondrotekodjo  
 Civil Ian Rose-Innes

Accompanied by: Barry McCourt

Approved By: 



CITY OF RICHMOND  
 CONTRACT 2494 P  
 DRAINAGE PUMP STATION  
 CONDITION ASSESSMENT 2003

FRANCIS ROAD WEST  
 2111 Francis Road  
 SCADA No: 015

DDS No: 37

		Component	Make / Model/ Material										Comments	Year of Commissioning / Upgrading	<sup>1</sup> Condition Grade	<sup>2</sup> Confidence Index	<sup>3</sup> Repair Category	<sup>4</sup> Repair Type	<sup>5</sup> Urgency	<sup>6</sup> Repair Cost Estimate \$	Replacement Value \$	2003 Value \$							
Civil	Layout	Conform to Dwgs?											Addition of pump box south of P.S. with discharge pipe and box not shown.	1960															
		Safety											Floor of PS unsafe. Unguarded holes and unknown load carrying ability.					1											
	Superstructure	Exterior	Wood.										Add on wood housing over second submersible pump.		4	2	2	3	2										
		Roof	Wood.												4	3	2	3	2										
		Interior	Wood.										Floor boards missing. Safety issue.		4	2	3	1	1										
		Other	Steel and wood bridge.										Steel channels corroded.		3	2	2	3	2	5,000									
	Foundation & Hydraulic Structures	Foundation	Concrete.												3	3	2	3	3										
		Inlet	Concrete.										Screens badly corroded, bars bent and missing, displaced.			3	3	2	2	2									
		Outlet	Steel pipe and concrete box.										South - screen bent and corroded. Centre - ok. North - abandoned.			4	5	3	2	2									
		Function	Gravity Drain No										Irrigation Return No	Structure scheduled for replacement in 2003/2004.															
												Civil Overall:	3.8	3.0	Totals:			\$5,000	\$386,120	\$115,836									
Mechanical	Pump Units	Pump Units	Serial #	Impeller #	Voltage	Capacity (m <sup>3</sup> /s)	Capacity (USGPM)	Power (kW)	Power (Hp)	Speed (RPM)	Running Hours	Vibration																	
		P1	Flygt CP 3200	180-56031	630	460/3	0.145	2297	22	29	1200	N/A	N/A	No documentation or pump curve. No vibration test due to submersible pump type.	1960	3	3	2	5	2									
		P2	Flygt CS 3300	180-74009	814	460/3	0.330	5227	24	32	870	N/A	N/A	No documentation or pump curve. No vibration test due to submersible pump type.	1960	3	3	2	5	2									
					Total:	0.475	7524	46	61												Mechanical Overall:	3.0	3.0	Totals:			\$0	\$129,360	\$64,680
Electrical	Power Distribution	Service Entrance	BCH Meter, Main Switch 200A with 150A fuses												2	2	1												
		MCC	No MCC																										
		Starter P1	Not used. Starter burnt out.												5	2	1												
		Starter P2	Fuse Disconnect 50A, ACL Moeller DIL-2M												1	2	1												
	Instrumentation & Controls	Controller Data	No PLC, Relay logic												2	3	1												
		Operation Interface																											
		Level Control System	Milltronics Multi Ranger												1	2	1												
		SCADA	Moscad-L												2	2	1												
		Radio	Motorola FUF 1906 BG												2	2	2												
												Electrical Overall:	2.3	2.1	Totals:			\$0	\$88,200	\$59,535									
												Overall:	3.4	2.9	P.S. Totals:			\$5,000	\$603,680	\$240,051									



## City of Richmond

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January 30, 2007  
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TO THOSE WHO HAVE RECEIVED COPIES OF CONTRACT T.2970

Dear Sir/Madam:

**Re: Contract T.2970  
Addendum No. 3  
Drainage Pump Station Renovation  
Francis Road Drainage Pump Station**

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:

**1. Inserting its number and date where provided for on the Form of Tender.**

1. On Page D-151, **SECTION 2 – REMOVAL OF EXISTING STRUCTURES**, Removal of Existing Pump Station – Item 2.1, in the second paragraph please remove the following words:

“cost to maintain 600 Volt service until Substantial Completion”

**2. Questions**

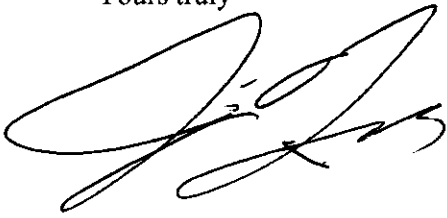
Q8: Can the Contractor access the site from the dyke, i.e., from Blundell Road as an example?

A8: The Contractor may access the dyke from alternate locations subject to approval of the City’s Parks and Engineering Department. Issues that would have to be specifically addressed would be uninterrupted pedestrian access immediately adjacent to the existing trail at all times as well as a comprehensive damage monitoring and repair program for the Engineer’s review and approval prior to commencing the work.

Q9: Who is responsible for the Hydro disconnection?

A9: The Contractor is responsible for all coordination with BC Hydro including disconnection of the existing electrical service.

Yours truly

A handwritten signature in black ink, appearing to read 'Jim V. Young', with a large, sweeping flourish at the end.

Jim V. Young, P. Eng.  
*Manager Engineering Design and Construction*