



**Contract 3096Q**

**Supply and Installation of CENTRAL IRRIGATION CONTROL SYSTEM**

Bidders are requested to respond to this Quotation call as instructed subject to the provisions contained herein.

Name of Bidder: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Telephone No: \_\_\_\_\_ Fax No.: \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Title: \_\_\_\_\_

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### **Instructions to Bidders**

1. Sealed quotations, plainly marked on the envelope:

#### **CONTRACT 3096Q - SUPPLY AND INSTALLATION OF CENTRAL IRRIGATION CONTROL SYSTEM**

will be received at the Information Counter, Main Floor, Richmond City Hall, addressed to the Purchasing Section, 6911 No. 3 Road, Richmond, BC, V6Y 2C1, until 12:00 noon, Local time:

**Monday, November 26, 2007**

2. Quotations received in the office of the Purchasing Section after the above-mentioned time and date will be returned unopened.
3. Quotations must be submitted on the attached Forms and be authorized by a signing officer of the Bidder's company. The entire Request for Quotation must be returned to the City.
4. This Document with completed Forms will become part of the Contract Documents between the City and the successful Bidder.
5. The City reserves the right to accept all or any part of a quotation or to waive irregularities at their own discretion. The lowest or any quotation will not necessarily be accepted.
6. In accordance with the City's Procurement Policy 3104, award of bids shall be based on:
  - (i) The lowest total cost of acquisition,
  - (ii) Experience of the bidder,
  - (iii) Bidder's references of performance on previous similar contracts,
  - (iv) The bidder's financial resources,
  - (v) Bidder's capability of supervision, staffing and use of subcontractors,
  - (vi) Bidder's ability to meet City specifications and performance criteria,
  - (vii) Any additional evaluation criteria stated in the contract document.
7. Proprietary names, unless otherwise stated, are used solely to establish standards of materials and finish. Items of other manufacture may be accepted as equal to those specified, at the discretion of the City.
8. The City of Richmond estimates that this contract will be awarded within 8 weeks of the closing date. All bidders submitting Quotations for the Project will be advised as to the

### **Instructions to Bidders (Cont'd)**

outcome. Please note that Bid results for those contracts posted on the City Web Site and/or BC Bid will be listed on BC Bid within two (2) weeks of the award of Contract.

9. Prices, in Canadian currency, shall be shown for the work specified and shall include all wages and benefits for those personnel engaged on this contract, expenditures for materials, equipment, travel expenses, assessments for Workers' Compensation, Unemployment Insurance, Canada Pension Plan or any similar statute, costs of subcontracts, insurance premiums, bonds, royalties, permits and licences, taxes, tariffs and duties, overhead, profit, and all other expenditures in connection with the work.
10. The contractor will be required to Indemnify and Insure the City as shown in the General Conditions of the Contract.

Bidders shall have the Undertaking of Liability Insurance Form Letter L1-1 (attached) completed and submitted with their Quotation.

All policies and certificates shall be submitted to the Purchasing Section before a contract is issued to carry out the work.

11. Bidders shall examine the contract documents and visit the site of the work to understand the contract requirements of the project. The City will not make allowances for the contractor's failure to make proper site investigation.
12. **Note:** There will be a site visit conducted on November 14, 2007 at 9:00 am with sign-in attendance forms. Potential Bidders are asked to meet at the site, 5599 Lynas Lane, in the City of Richmond. The City **strongly encourages** all potential Bidders to attend this tour. No other tours will be organised or arranged for this project.
13. Each Bidder shall state on the lists provided to be submitted as part of his quotation, information regarding their previous contracts, subcontractors and equipment that he proposes to use to carry out this contract to completion. It is the intention of the City not to award the contract to any Bidder who does not furnish satisfactory evidence that he has the ability and experience to perform the various works covered under this Contract, and that he has sufficient capital and plant to enable him to execute the said works successfully, and to the satisfaction of the City, and to complete and deliver said works as quoted in his Quotation.
14. Inquires during submission of Quotation should be directed as follows:

Purchasing

Sumita Dosanjh  
Contracting Specialist  
Purchasing Section  
City of Richmond

Telephone: 604-276-4097  
E-mail: [purchasing@richmond.ca](mailto:purchasing@richmond.ca)

**Instructions to Bidders (Cont'd)**

Technical

Ted G. deCrom  
Foreman - Horticulture (City Centre)  
Parks  
City of Richmond

Telephone: 604-244-1208 x 1317  
E-mail: tdecrom@richmond.ca

15. Quotations may be withdrawn by written notice only, provided such notice is received at the office of the City's Purchasing Section prior to the time / date set as the closing time for receiving Quotations.
16. Quotations shall be open for acceptance for 60 days following the submission closing date.
17. Bidders are advised that submissions of quotes shall be in compliance to the Freedom of Information and Privacy Act.
18. Any interpretation of, additions to, deletions from, or any other corrections to the Contract documents, will be issued as written addenda by the City of Richmond. It is the sole responsibility of the potential bidders to check with the City of Richmond's Website and/or BC Bid to ensure that all available information has been received prior to submitting a bid.
19. The City, it's agents and employer shall not be responsible for any information given by way of verbal communication.

**Quotation Form**

Purchasing Section  
City of Richmond  
6911 No. 3 Road  
Richmond, BC V6Y 2C1

The undersigned Bidder, having carefully read and examined the Instructions to Bidders, Undertaking of Liability Insurance, Quotation Form, Quotation Annexures, General Conditions of Contract, Specifications and Drawings, and having full knowledge of the work required, does hereby offer to provide all necessary materials in strict accordance with the Specifications and to do all therein called for on the terms and conditions and under the provisions therein set forth at the:

**LUMP SUM TOTAL QUOTED PRICE OF \$\_\_\_\_\_**

**PAYMENT TERMS \_\_\_\_\_ EARLY PAYMENT TERMS \_\_\_\_\_**

The above price includes and covers duties, Federal, (including G.S.T.), Provincial Taxes, handling and transportation charges, and all other charges incidental to and forming part of this Quotation.

The undersigned Bidder agrees to complete the whole of the works within \_\_\_\_\_ weeks of acceptance.

Name of Bidder: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Telephone No: \_\_\_\_\_

Name, Signature, and  
Title of Signing Officer: \_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_

E-mail: \_\_\_\_\_

Web Address: \_\_\_\_\_

FORM LETTER LI-1

**Undertaking of Liability Insurance**

(To be submitted with Quotation)

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

Dear Sirs:

We, the undersigned (insert insurance company's name) \_\_\_\_\_ do hereby undertake and agree to insure the Contractor in the amount of \$5,000,000.00 as outlined in the attached "General Conditions of the Contract" and agree to:

- a. Name the City of Richmond, its officers, officials, agents, and employees as additional insured in connection with the work being proposed by the Contractor.
- b. State that such policy applies to each insured in the same manner and to the same extent as if separate policy had been issued to each insured named in the policy.
- c. State that the policy cannot be cancelled, lapsed, or materially changed without at least 30 days written notice of cancellation delivered to the City Clerk of the City of Richmond at 6911 No. 3 Road, Richmond, BC V6Y 2C1.
- d. State that coverage provided by such insurance shall protect the Contractor and the City of Richmond during the performance of the works and services specified in the attached Form of Quotation and specifically that the insurance required by such Quotation shall be consistent with the requirements therein.

if the Contract is awarded to (insert bidder's name) \_\_\_\_\_

EXCEPTIONS:

\_\_\_\_\_

Dated at \_\_\_\_\_, British Columbia, this \_\_\_\_ day of \_\_\_\_\_, 2007.

BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

This form must be signed by the Insurance Company or an authorized Broker on behalf of the Insurance Company.

A SEPARATE FORM MUST BE SIGNED FOR EACH POLICY IF MORE THAN ONE POLICY.

**List of Previous Contracts**

The Bidder has recently undertaken and completed the Contracts described following and authorizes the City of Richmond to inquire as to the nature of the Bidders performance on these contracts.

YEAR	PROJECT TITLE	REFERENCE CONTACT INFORMATION	PROJECT DETAILS	Variance to BUDGET		Variance to SCHEDULE		ROLE OF KEY STAFF	COMMENTS
				\$'s	%	No of Days	%		

(If additional space is required, attach additional)





**Schedule of Quantities and Prices**

1. The City shall pay in Lawful money of Canada the amount shown for the following items subject to the conditions of the Contract Documents.
2. The following prices are inclusive of the Specifications detailed.

ITEM	DESCRIPTION	UNITS	PRICE
1	Central Controller		
2	Weather Stations		
3	Communication		
4	Field Controllers		
	<u>Park Locations:</u>		
	1 City Hall		
	2 Minoru Library		
	3 Minoru Lakes		
	4 Minoru Chapel		
	5 Minoru Pavilion		
	6 Brighthouse Sandfield / Park		
	7 McNeil School and Fields		
	8 Anderson School		
	9 Miller Road Field (YVR)		
	10 Hugh Boyd Oval		
	11 Hugh Boyd 4		
	12 Garry Point Park West		
	13 Garry Point Park East		
	14 King George Fields and Park		
	15 Honda Sandfield		
	16 Hamilton Park and Sandfield		
	17 Toyota Park		
	18 McMath Sandfield		
	19 Imperial Landing West (1)		
	20 Imperial Landing West (2)		
	21 Imperial Landing East		
	22 South Arm West		
	23 South Arm East		
	24 Blundell Sandfield		
	25 London Sandfield		

ITEM	DESCRIPTION	UNITS	PRICE
4 (con't)	26 McNair Sand and Clay Fields		
	27 Manoah Steves Clay Fields		
	28 Gilbert Nursery		
	29 Steveston Water Park		
	30 Richmond High School		
	31 Brighthouse School		
	32 Richmond Community Gardens		
	33 Aquatic Center		
	34 Burnett School tree drip		
	35 Byng School		
	36 Caring Place		
	37 Garden City Park		
	38 Gibbons Park		
	39 Lang Park		
	40 London Farm		
	41 London Farm Community Gardens		
	42 No 1 and Moncton		
	43 Palmer School		
	44 Paulik Park		
	45 Patterson Park		
	46 Richmond Pitch and Putt		
	47 Courthouse and Public Safety Grounds		
	48 Scout Campground		
	49 Senior's Center		
	50 Steveston Marital Arts		
	51 Steveston Ball Diamond North		
	52 Steveston Ball Diamond South		
	53 Steveston Town Square		
	54 Tera Nova South		
	55 Thompson Community Center		
	56 Tin Shed		
	67 Tomakichi Homa School		
	68 Works Yard Berm		
	69 Works Yard Depot		
	60 Works Yard Nursery		

ITEM	DESCRIPTION	UNITS	PRICE
4 (con't)	<u>Median Locations</u>		
	1 Granville (West of Lynas)		
	2 Granville (East of Lynas)		
	3 Granville (West of No 2 Rd)		
	4 Granville (East of No 2 Rd) (a)		
	5 Granville (East of No 2 Rd) (b)		
	6 Granville (West of Gilbert)		
	7 Granville (East of Gilbert)		
	8 Granville (West of Minoru)		
	9 Granville (West of No 3 Rd)		
	10 Granville (East of No 3 Rd)		
	11 Granville & Buswell (S. Blvd)		
	12 Granville (West of St Albans)		
	13 Granville (East of Cooney) (a)		
	14 Granville (East of Cooney) (b)		
	15 Azure & Granville Cr. West		
	16 Azure & Granville Cr. East		
	17 No 2 Rd (North of Westminster Hwy)		
	18 No 2 Rd (South of Westminster Hwy) (a)		
	19 No 2 Rd (South of Westminster Hwy) (b)		
	20 No 2 Rd (North of Garrison)		
	21 No 2 Rd (South of Garrison)		
	22 No 2 Rd (North of Granville)		
	23 Gilbert (South of Westminster Hwy)		
	24 Hazelbridge (South of Cambie)		
	25 Westminster Hwy (West of No 2 Rd)		
	26 Westminster Hwy (East of No 2 Rd)		
	27 Westminster Hwy (West of Gilbert)		
	28 Westminster Hwy (West of Minoru)		
	29 Westminster Hwy (Gilbert to Minoru S. Blvd)		
	30 Westminster Hwy (West of No 3 Rd)		
	31 Westminster Hwy (West of Cooney)		
	32 Westminster Hwy (West of Garden City)		
	33 Westminster Hwy (East of Garden City) (a)		
	34 Westminster Hwy (East of Garden City) (b)		
	35 Westminster Hwy (West of No 4 Rd)		

ITEM	DESCRIPTION	UNITS	PRICE
4 (con't)			
36	Westminster Hwy (East of No 4 Rd)		
37	Westminster Hwy (West of Shell)		
38	Westminster Hwy (East of Shell)		
39	Westminster Hwy (West of No 5 Rd)		
40	Alderbridge (East of Garden City)		
41	Alderbridge (East of Hazelbridge)		
42	Alderbridge (East of No 4 Rd)		
43	Alderbridge (West of Garden City)		
44	Alderbridge (West of Shell)		
45	Buswell & Anderson (South West)		
46	Buswell & Saba (South West)		
47	Francis Road (West end)		
48	Garden City (North of Westminster Hwy)		
49	Garden City (South of Westminster Hwy)		
50	Gilbert (South of Elmbridge)		
51	Granville (North of Barnard)		
52	Granville (South of Barnard)		
53	Jones Road		
54	Lansdowne (East of Cooney)		
55	Lansdowne (East of No 3 Rd)		
56	Lansdowne (West of Garden City)		
57	Lansdowne (West of No 3 Rd)		
58	Minoru (North of Granville)		
59	Minoru (North of Minoru Gate)		
60	Minoru (North of Park Gate)		
61	Minoru (North of Seniors Center)		
62	Minoru (North of Westminster Hwy)		
63	Minoru (South of Westminster Hwy)		
64	Minoru (South of Minoru Gate)		
65	Minoru (South of Seniors Center)		
66	Minoru (South of Westminster Hwy)		
67	No 3 Rd (South of Granville)		
68	Steveston 14000 Blk (Silver City Area)		
69	Steveston (East of Coppersmith)		
70	Steveston (West of Coppersmith)		
71	Works Yard Entrance (East)		
72	Works Yard Entrance (West)		

Subtotal		\$ _____
	Provincial Sales Tax	\$ _____
	Goods and Services Tax	\$ _____
	<b>TOTAL QUOTED AMOUNT</b> <b>(carried forward to Quotation Form)</b>	\$ _____
Optional		
1.	Installation of Field Controllers	\$ _____
2.	Communication for tail end or end of line devices (controller to extension sites).	\$ _____

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Initials of Signing Officer

## **Specifications**

### **General**

#### **1. Project Background**

The City requires the supply and installation of a Central Irrigation Control System (CICS). The installation shall be at the City's option as the City may elect to perform some or all of the installation of the proposed CICS.

The System shall be robust and expandable and have capability to address any future development of the system. The Proposal shall ultimately be adaptable to a Municipal-Wide CICS. The system shall not be restricted to products from a single manufacturer, where products are recommended from more than one supplier.

2. Please include detailed information of the system software and minimum computer hardware required to operate the system. The City shall supply the required computer hardware.

ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
Central Controller	<ol style="list-style-type: none"> <li>1. Provide and/or read reliable weather data and calculate evapotranspiration (ET) by the "Penman-Monteith" equation using:               <ul style="list-style-type: none"> <li>- Solar radiation</li> <li>- Wind speed and direction</li> <li>- Air temperature</li> <li>- Rain fall</li> <li>- Relative humidity</li> </ul> </li> <li>2. Ability to automatically adjust irrigation run times to offset calculated moisture loss (ET).</li> <li>3. Ability to pre-program irrigation interruption or shut down individual field controllers, or any combination of zones and field controllers.</li> <li>4. Able to control irrigation zones (individual field controllers, park wide or any combination of zones and field controllers) within the hydraulic guidelines set by the irrigation system.</li> <li>5. Be able to achieve real time rain shutdown to pause or cancel irrigation cycles or zones during a rainfall event with sensors and rain gauges.</li> <li>6. Ability to link and transfer between irrigation sites.</li> <li>7. Ability to control and monitor field lighting and door locks remotely.</li> <li>8. Ability for the primary operator control station to display Municipal and site irrigation plans.</li> <li>9. Pre-set and adhoc reporting capabilities</li> </ol>	



ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
	<p>and shall include the following data sets:</p> <ul style="list-style-type: none"> <li>- Programmed irrigation run times for each zone and field controller</li> <li>- Actual irrigation run times</li> <li>- Weather station data noted above</li> <li>- Flow sensor logs</li> <li>- Dry test run</li> <li>- Volume and costs</li> <li>- Year to year comparisons</li> </ul> <p>10. Ability to archive programmed and actual run times and flows.</p> <p>11. Automatic backup of information if the computer is down.</p> <p>12. Shall be user-friendly for the manipulation of program options and commands.</p> <p>13. Shall have the ability to cut and paste data to and from Windows applications.</p>	
Communication	<p>1 All licenses shall be prearranged and approved by the Contractor.</p> <p>2. Central irrigation computer and field control units shall use the City's Ethernet-based Supervisory Control and Data Acquisition system (SCADA) and existing infrastructure in conjunction with point-to-point radio (900 MHz Spread Spectrum), Ethernet, short-haul modems or direct connection serial cable as a communication link.</p> <p>3. Communications infrastructure and hardware between the Works Yard to the Field Controllers shall be provided by the City.</p> <p>4. Ability to remotely control field controllers and functions from any location</p>	

ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
	<p>within the Municipality and park via handheld radios, cellular phones and other communication methods.</p> <p>5. Include PC Anywhere for communication between the central computer, and intermediate controller units.</p> <p>6. Please ensure all required radio, satellites, handheld radios, antenna requirements, mid-management requirements by locations are considered and listed. Please list all licenses required. All equipment shall be Industry Canada-approved . Please include the maximum number of satellites and other devices that these units are capable of controlling.</p> <p>7. Please list the communication characteristics particularly as it pertains to constant polling of the satellites or the controlled download/upload of information at specified intervals.</p> <p>8. Contractors shall be required to conduct a communication path study throughout the locations to determine exact communication requirements prior to installation.</p>	
Optional Communication	<p>1. The City may provide communications for tail end or end of line devices (controller to extension sites).</p>	
Field Controllers	<p>1. Shall be capable of expansion and upgrade.</p> <p>2. Shall be capable of programmed and manual independent operations.</p> <p>3. Shall be capable of programming to at least minutes of operation.</p> <p>4. Shall be programmable on site, by either</p>	

ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
	<p>an integral keypad, laptop computer, PDA, cellular phone or other remote device. Any and all changes to the programs in the field must be visibly displayed at the central computer.</p> <p>5. Shall replace existing non-compatible controllers and be sized to a capacity equal to or greater than the existing controllers.</p> <p>6. Shall be equipped with a cell phone modem assembly, digital spread spectrum radio (900 MHz or 2.4GHz) for network communication interface, UHF and/or VHF radio interface for remote control, and other sensors as specified. The hand-held radio or cellular phone shall control the irrigation zones at each site.</p> <p>7. Shall include solar or battery powered satellites with two-way radio communication.</p> <p>8. Shall be housed in a weatherproof, lockable steel cabinet suitable for wall mounting or freestanding pedestal mounting or suitable on concrete pad. Currently, the City owns cabinetry that may be used for the outdoor installation of the field controllers with communication equipment. Contractors shall advise if the existing cabinetry is suitable. If cabinets are supplied at no charge by the Contractor and are suitable in regards to security and weather considerations, then supplier enclosures are preferred and shall be used.</p> <p>9. In the event of a loss of communication between either the central and the field controllers, or a loss of communication between two or more field controllers, satellite controllers or repeater stations, field</p>	

ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
	<p>controllers shall continue to perform scheduled duties at all times, and shall not lose any functionality and shall continue to perform all of its scheduled duties including:</p> <ul style="list-style-type: none"> <li>- monitoring and reacting to alarm conditions, which may be generated by services, including flow alarms.</li> <li>- displaying real-time flow rate information, on site, without the central computer online.</li> </ul> <p>10. The system shall be compatible with data industrial flow sensors model 228PV installed for every supply connection.</p> <p>11. Shall operate on a 117 VAC <math>\pm</math> 10% power input and be capable of actuating up to two 24 VAC 7 VA solenoid valves per station plus a master valve or pump start relay. The controller shall be capable of operating four stations plus the master valve simultaneously. Controller output shall be protected against severe electrical surge and or power outages.</p> <p>12. Shall control multiple simultaneous station outputs plus multiple flow sensing devices as noted for each location.</p> <p>13. All current programming functionality (program start times, zone run times, sensor parameters) as required by the user from the most recent communication to the field control unit, from either the central or other site controllers. (program data shall be stored at field control unit for use in the event of a communication failure).</p> <p>14. The controller shall be capable of storing in memory a log of field events that will be uploaded to the central controller.</p> <p>15. Event logs shall include any and all</p>	

ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
	<p>authorized or unauthorized commands and operations.</p> <p>16. Alarm logs shall permit all logs of any and all logs to be transmitted to remote user via established communication path.</p> <p>17. Shall maintain its memory even during power outages with a battery backup system if batteries are required to do so. The controller shall have AC alarm capability to central computer.</p> <p>18. Shall be equipped with a technology to facilitate manual operation of station outputs without the need to alter programs. The technology shall provide for data communication into the Central Irrigation Control System (CICS) network of occurrences when any outputs are activated.</p> <p>19. Shall have separate irrigation programs which can have different start times, watering days, day cycles, and station timing. Each program shall be capable of multiple start times per day.</p> <p>20. Shall allow manual station operation of a single station with an automatic shut-off. Duration of run time shall be user-defined for each irrigation controller.</p> <p>21. Shall have enough stations for irrigation as noted on Appendix A-1 and Appendix A-2. Each station shall be capable of an operating time in one-minute increments and hours at a minimum. Controller station operation shall be of automatic sequential stacking to avoid overlapping operation unless programmed to overlap, and capable of managing water flow from the central control station</p>	

ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
	<p>22. Shall operate in any mode, including random operation of any individual stations, and shall not be required to operate in numerical sequence.</p> <p>23. Shall have a 365-day calendar with day-of-the-month OFF feature. Programs will run on an ODD/EVEN day cycle, day-of-the-week ON/OFF cycle, or in cycles. In addition, the controller shall have a programmable rain shutdown.</p> <p>24. Shall automatically accept "ET" data input and adjust all ET-based schedules with reference to a user defined base line ET.</p> <p>25. A manual single station, a group of stations or a program can be selected to run for the programmed time without affecting the normal program. The controllers shall be capable of running a variable system test program without affecting the normal program.</p> <p>26. Shall have a cycle and soak feature which is capable of operating each station for a maximum cycle time and a minimum soak time to reduce water run-off and puddling.</p> <p>27. Shall have indicator lights which indicate station operation and circuit integrity. There shall be an indicator for sensor status along with a switch to suspend sensor operation. This indicator and override will work with a sensor wired to the controller's sensor terminals.</p> <p>28. All irrigation controllers shall be grounded as per code and all related components are to be supplied by supplier if not already installed by the City.</p>	

ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
Weather Stations	<p>1. The weather stations shall meet all the requirements of the system and proponents shall provide a description of each application of the station. The weather station shall automatically adjust irrigation cycles based on weather station data. Any required training to operate this station shall be included in the package of services.</p> <p>2. Shall continuously monitor and update hourly the following meteorological parameters:            - solar radiation            - temperature            - relative humidity            - wind speed            - wind direction            - rainfall</p> <p>3. Shall automatically adjust irrigation cycles based on data.</p>	
Flow Sensors/ Master Valves	<p>1. Flow sensors and master valves for each supply connection shall be compatible with the supplied equipment and shall detect high, low and no flow situations at any point of communication. The sensors shall alert the operator control station and shut down irrigation and/ or supply valves within three minutes of detection.</p> <p>2. Please explain how the system interacts with the Data Industrial #228PV Flow Sensors and Master Valves.</p>	
Installation	<p>1. The Contractor shall provide a detailed implementation plan which outlines the expected delivery times of the required equipment. And includes the strategy and timing of the implementation of the various communication devices, as the field controllers are installed. The Contractor</p>	

ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
	<p>shall work with the City during the system implementation to ensure that there is no interruption to the required watering cycles at each of the locations.</p> <p>2. The Contractor shall install all software and hardware components required at the Central Control Station.</p> <p>3. The City shall install communications equipment which includes radios, antennas, cables, and brackets for long and short hauls (Works Yard to Site Controller).</p> <p>4. The installation of the flow sensors and master valves shall be determined post Contract award.</p>	
Optional: Installation	<p>1. The City staff may install the field controllers. The installation will be limited to:</p> <ul style="list-style-type: none"> <li>- Mounting the controllers in existing buildings or enclosures</li> <li>- Supply and installation of new, vandal resistant enclosures where required.</li> <li>- Connecting all field wiring to the new satellite controllers.</li> <li>- Installation of the necessary grounding equipment, as recommended by the manufacturer. The City shall supply the ground rods or plates, and bare copper wire, where it is already in place.</li> </ul> <p>2. The City may install all of the Data Industrial #228PV flow sensors, all master valves, as well as the necessary re-wiring to the existing controller locations at each of the sites.</p> <p>3. The City may install the tail end or end of the line communications equipment</p>	



ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
	(Controller to extension sites).	
Support	1. Please attach the support policies and procedures: - post-implementation support - phone support/ online support - remote diagnostics/ correction - on-site assistance - guaranteed response/ repair times - software maintenance/ upgrades - local support - locally available spare parts	
Training	1. Please provide a description for the training packages included.  2. Please provide a description for optional training packages available.  2. Training shall include annual refresher training.  3. System operator training shall be a minimum of 40 hours.  5. Two operational manuals that address the management of the software and data, maintain the data, table set up and maintenance, critical procedures and processing sequence, problem resolution and recovery procedures shall be provided.  6. The Contractor shall provide a timeline for training City staff, both during the installation phase, as well as upon completion of the system.	
Supporting Documentation	1. All supporting documentation shall be included.  2. Where integration is a multi-step process, the documentation shall describe each step	

ITEM	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
	<p>including: the process, the input, the output, controls, recovery procedures, and problem solving.</p> <p>3. The City shall receive documentation for upgrades and changes to the software.</p> <p>4. Inventory details and as built drawings shall be supplied by the Contractor upon completion of the installation.</p>	

## Environmental Terms and Conditions of Contract

### 1.0 Environmental Policy Requirements

#### 1.1 The City of Richmond’s Environmental Purchasing Policy

The City of Richmond’s Environmental Purchasing Policy states:

In order to increase the development and awareness of environmentally sound products and services, City of Richmond staff will review their contracts and tender specifications for goods and services, to ensure that wherever possible and economically feasible, specifications are amended to provide for consideration of environmental characteristics. Consideration may be given to those environmental products that are certified by an independent accredited organization.

The City of Richmond as a whole will endeavour to increase its use of products and services that are more responsible to the environment in the way they are made, used, transported, stored and packaged and disposed of. It is recognized that analysis is required in order to ensure that the products are made available at competitive prices, and that the environmental benefits provided by a product or service should not significantly affect the intended use of that product or service.

1.1.1 The City of Richmond reserves the right to request information from bidders that will demonstrate compliance to this environmental purchasing policy.

1.1.2 Bidders are asked to supply information on environmentally preferable products and services that meet all specifications and performance requirements.

- 1.1.3 Placing the City of Richmond in breach of its environmental policy or environmental laws will result in the termination or suspension of an agreement, at the sole discretion of the City.

## **1.2 Environmental attributes of company**

- 1.2.1 It is desirable that suppliers to the City of Richmond have an environmental policy statement approved at the executive level and implemented across the company.
- 1.2.2 Suppliers who have pursued environmental certification such as ISO 14001 should include this information with their bid. The ISO 14000 Series is a set of international standards for voluntary environmental management for both private and public organizations. It is designed to promote environmental compliance, ensure a commitment to pollution prevention, and foster continual improvement of environmental performance through efficient environmental management.
- 1.2.3 The City of Richmond strictly subscribes to an environmental policy that requires all suppliers to be in compliance with all environmental laws and regulations regarding the manufacture, processing, handling, provision, disposal and waste management of goods and services.

## **1.3 Environmental purchasing resources**

- 1.3.1 The City of Richmond Environmental Purchasing Guide is available from the City of Richmond Web site at:

<http://www.richmond.ca/services/environment/policies/purchasing.htm>

## General Conditions of the Contract

### 1. Definitions

The two parties to the Contract/Purchase Order are the Contractor and the City, defined as follows:

**The Contractor:** The successful bidder for the work upon receipt of a purchase order and/or written acceptance of his Quotation from the City.

**The City:** City of Richmond.

Acceptance of the City of Richmond's Purchase order deems acceptance of all conditions of the supply and installation contract.

### 2. Work to Satisfaction of City

The whole of the works and the manner of performing this Contract shall be done to the entire satisfaction and approval of the City, and it shall be the sole judge of the work and materials in respect of both quality and quantity, and its decision with regard to work or materials, or as to the meaning and intention of this Contract, or any part or parts thereof, shall be binding and final upon the Contractor.

### 3. Work to be in Conformity with Contract Documents and Drawings

All work shall be done in strict conformity with the Contract Documents and drawings which form a part of the Contract. The intent of the contract documents is to include all labour, materials, equipment, services, supplies and all the things necessary for the proper and complete execution of the work.

### 4. Permits

The Contractor shall comply with all codes, laws, regulations, and ordinances which concern the work, and unless otherwise provided herein shall obtain and pay for all applicable permits, licences, and certificates.

### 5. Use of Premises

The Contractor shall confine the use of the premises for his work as directed by the City and shall comply with regulations which govern the building or institution where the work is located.

At the conclusion of the work, the Contractor shall clean up and remove all debris and rubbish to the satisfaction of the City.

### 6. Light, Power, and Heat

The City's supply of electrical energy will be available to the Contractor without charge.

The City's supply of water will be available to the Contractor without charge.

The Contractor, upon completion of the work, shall remove temporary connections and extension of services, leaving the existing structures and services undamaged.

## **7. Warranty**

Unless otherwise specified, the Contractor warrants that only the best workmanship and materials will be employed and if, within a period of one (1) year from the date of acceptance of the work by the City, such work or supplies or any portion thereof are found by the City to be defective or faulty due to imperfect or bad workmanship or material, the Contractor agrees to replace such defective supplies and correct such defective work forthwith without expense to the City.

## **8. Liens**

The Contractor shall fully indemnify the City from and against any and all liability or expenses by way of legal costs or otherwise in respect of any claim which may be made for a lien or charge at law or inequity or to any claim or liability under the Builders Lien Act, or to any attachment for debt, garnishee process, or otherwise.

## **9. Patent Fees**

The Contractor shall pay all royalties and licence fees and shall save the City harmless from loss on account of suits or claims of infringement of patents in the doing of the work.

## **10. Default**

- (a) The City may, by notice of default to the Contractor, terminate the whole or any part of this Contract if the Contractor fails to perform any provision of this Contract within the time specified or to perform any other provision of this contract.
- (b) In the event the City terminates this Contract in whole or in part as provided in clause (a), the City may procure supplies or services similar to those so terminated, and the Contractor shall be liable to the City for any excess costs for such similar supplies or services.
- (c) The Contractor shall not be liable for any excess costs under clause (b) if failure to perform the Contract arises by reason of strikes, lockouts, acts of God, or acts of the City.

## **11. Taxes**

Unless otherwise provided herein, the Contractor shall pay all government sales or excise taxes in force at the date of the Agreement, provided that any increase or decrease in such taxes shall increase or decrease the amount due under the Contract accordingly. Invoices shall show the appropriate amounts for Goods and Services Taxes and Provincial Sales Taxes separately.

## **12. Laws**

The laws of British Columbia shall govern the work.



subcontractors work. The Contractor will be as fully responsible to the City for acts and omissions of subcontractors and of persons directly or indirectly employed by them as for acts and omissions of persons directly employed by the Contractor.

### **17.3 Replacement of Personnel or Sub-Contractors**

If the City reasonably objects to the performance, experience, qualifications or suitability of any of the Contractor's personnel or subcontractors then the Contractor will, on written request from the City, replace such personnel or sub-contractors.

### **17.4 City's Own Forces and Other Contractors**

The City may have its own work forces and other contractors on the site while the Work is under way. The City will coordinate the work of all contractors on the site and require their coordination with each other. the Contractor will report to the City and apparent deficiencies in other contractors' work which would affect the Work, immediately after the deficiencies come to the Contractor's attention.

## **18. Changes in the Work**

The City may make changes to the work; the Contract price, and time being adjusted accordingly. Except for emergencies, all changes will be made by written order.

## **19. Protection**

The Contractor shall maintain protection of all his work and materials from damage and shall protect the City's and any adjoining property from injury due to the Contractor's work.

## **20. Payments**

The City shall make progress payments once a month for work completed and materials on the site upon receipt of the Contractor's invoice.

Except for the final payment, the City shall holdback 10% of the amount of progress claims. The City shall pay the holdback 55 days after completion of the work upon receipt of the contractor's written claim for final payment accompanied by a Statutory Declaration stating that the Contractor has discharged every obligation and paid or satisfied every just claim incurred by him in connection to the Contract, including claims by his subcontractors, and upon receipt of clearance from the Workers' Compensation Board.

## **21. Indemnification and Insurance**

The Contractor will indemnify, hold, and save harmless the City from and against all claims, losses, damages, costs, actions, and other proceedings, made, sustained, brought or prosecuted in manner, based upon, occasioned by, attributable to any injury, including death, property damage, infringement, or damage arising from any act or omission of the Contractor, his employees, officers, volunteers, servants, or agents or persons from whom the Contractor has assumed responsibility in the performance or purported performance of this agreement.

The Contractor shall, at his own expense, through the terms of the contract secure, maintain, and pay for the following coverages:

- (a) Comprehensive General Liability Insurance with a limit of not less than \$5,000,000 inclusive per occurrence for bodily injury and property damage and \$5,000,000 for personal injury. The policy or policies shall cover all premises and operations necessary or incidental to the performance of this agreement and include but not necessarily be limited to the following coverages:
1. Contractual liability assumed under this agreement.
  2. Contingent employer's liability with respect to operations of sub-contractors.
  3. Owner's protective liability.
  4. Cross liability.
  5. Automobile liability (non-owned, hired).
  6. Completed operations liability 24 months after completed operations.
  7. Voluntary medical payments.
- (b) "Course of Construction" Property Damage Insurance covering all risks of physical loss or damage on an occurrence basis, including loss of use of property, and including losses or damage from flood or earthquake. The coverage provided shall amount to no less than 80% of the total value of the work done and material delivered to the site, or under the control of the Contractor, payable to the City and Contractor as their interests may appear, and protecting each in such terms as will preclude subrogation claims by the insurer against anyone insured thereunder.

The City, its officers, officials, and employees shall be added as an additional insured on all such policies. All such insurance provided by these policies shall be primary regardless of any insurance or self insurance that may be enforced at the time of any loss or claim that insures the City, its officers, officials, and employees.

The policy or policies shall be underwritten by an insurance company or companies licensed to do business in the Province of British Columbia and who meet with the reasonable approval of the City. Prior to the commencement of the work defined by this agreement, the Contractor shall furnish the City through the Office of the Manager Purchasing and Risk a certified original copy of all such policies as evidence that such insurance is in force. The Contractor agrees that such insurance policies cannot be cancelled, lapsed, or materially changed without at least 30 days' written notice to the City.

Maintenance of such insurance and the performance of the Contractor of his obligations under this clause shall not relieve the Contractor of liability under the indemnification provisions here and above set forth. The foregoing insurance provisions shall not limit the insurance required by Municipal, Provincial, or Federal law.

It shall be the full responsibility of the Contractor to determine whether any additional insurance coverage is necessary and advisable for its own protection and/or to fulfil its obligations under this Contract. Any such additional insurance shall be provided and maintained by the Contractor its own expense.



It is understood that this agreement is strictly between the Contractor and the City and the Contractor is an independent contractor for the City and no employment relationship, partnership, agency, or joint venture exists between the City, the employees of the Contractor and/or its agents and/or their employees, and/or its Contractors and/or their employees. Any disputes between the Contractor and any of its employees and/or its agents and/or their employees and/or their Contractors and/or their employees shall be resolved by the Contractor with no involvement by the City.

## **22. Workers' Compensation Board Coverage/Prime Contractor**

The Contractor agrees that it shall at its own expense procure and carry or cause to be procured and carried and paid for, full Workers' Compensation Board coverage for itself and all workers, employees, servants and others engaged in or upon any work or service which is the subject of this contract. The Contractor agrees that the City has the unfettered right to set off the amount of the unpaid premiums and assessments for such Workers' Compensation Board coverage against any monies owing by the City to the Contractor. The City shall have the right to withhold payment under this contract until the Workers' Compensation Board premiums, assessments or penalties in respect of work done or service performed in fulfilling this contract had been paid in full.

The Contractor agrees that it is the Prime Contractor for the purposes of the Workers' Compensation Board Occupational Health and Safety Regulations for the Province of British Columbia. The Contractor shall have a safety program acceptable to the Workers' Compensation Board and shall ensure that all Workers' Compensation Board safety rules and regulations are observed during performance of this contract, not only by the Contractor but by all subcontractors, workers, material men and others engaged in the performance of this contract. Prior to commencement of construction, the Contractor shall complete and file a "Construction Notice of Project" with the Workers' Compensation Board and shall provide a copy of the same to the City confirming that the Contractor shall be the Prime Contractor responsible for coordination of safety and health under Part 3 of the Workers Compensation Act and Part 20 of the WCB Occupational Health and Safety Regulations.

The Contractor shall provide the City with the Contractor's Workers' Compensation Board registration number and a letter from the Workers' Compensation Board confirming that the Contractor is registered in good standing with the Workers' Compensation Board and that all assessments have been paid to the date thereof prior to the City having any obligation to pay monies under this contract. The Contractor shall also provide a signed copy of the Prime Contractor Designation Document.

The Contractor shall indemnify the City and hold harmless the City from all manner of claims, demands, costs, losses, penalties and proceedings arising out of or in any way related to unpaid Workers' Compensation Board assessments owing from any person or corporation engaged in the performance of this contract or arising out of or in any way related to the failure to observe safety rules, regulations and practices of the Workers' Compensation Board, including penalties levied by the Workers' Compensation Board.

## Appendix A-1

### Park Locations – Irrigation Systems Inventory

Item	Park Location	Water Supply	Number of Controllers	Number of Stations	Distance from Controller & DCVA (ft)	Additional notes
1	City Hall	2"	2	26	25	Controllers are located in a concrete room
2	Minoru Library	2"	1	16	10	Controllers are located in a concrete room
3	Minoru Lakes	2"	2	19	600	One high flow station. Two water sources.
4	Minoru Chapel	2"	1	19	300	One high flow station
5	Minoru Pavilion	2"	2	29	300	Inside building (Easy access)
6	Brighthouse Sandfield / Park	2"	1	16	375	
7	McNeil School and Fields	2"	4		650	Possible problem getting flow sensor wires to school controller
8	Anderson School	2"	1	12	20	Very little room to install a flow meter. Backflow and surrounding pipe is metal.
9	Miller Road Field (YVR)	2"	2	13	300	No power in park
10	Hugh Boyd Oval	2"	1	17 (4)*	520	
11	Hugh Boyd 4	2"	1	16	50	
12	Garry Point Park West	2"	1	5	220	
13	Garry Point Park East	2"	1	10	30	
14	King George Fields and Park	2"	1	24	10	per) here. No Enclosure (Pedestals installed)
15	Honda Sandfield	2"	1	10	20	Ground fault in power. No enclosure (Pedestal installed)
16	Hamilton Park and Sandfield	2"	3	16	800	There are 3 controllers in separate locations. The TBOS can be tied in to the field stations
17	Toyota Park	2"	2	6	110	No power in park. No kiosk
18	McMath Sandfield	2"	1	16	20	
19	Imperial Landing West (1)	1.5"	1	4	220	There is no room in this enclosure
20	Imperial Landing West (2)	0.75"	1	3	10	Small Kiosk
21	Imperial Landing East	2"	1	17	50	Small Kiosk
22	South Arm West	2"	1	24 + 2 user group	700	There are 2 ball diamonds (one hydraulic valve per)
23	South Arm East	2"	1	11 + 4 user group	370 + 1500	There are 4 ball diamonds (one electric valve per)
24	Blundel Sandfield	2"	1	15	140	Controller is in a building. Fairly easy access.
25	London Sandfield	2"	2	15	270	There are 4 ball diamonds (2 manual valves per) 1 TBOS Drip station added on.
26	McNair Sand and Clay Fields	2"	2	22 (12)*	475	There are 4 ball diamonds (2 manual valves per)
27	Manoah Steves Clay Fields	2"	1	24 (24)*	580	
28	Gilbert Nursery	2"	1	14	MV and meter Installed	Plus user group taps
29	Steveston Water Park	2"	1	7	MV and meter Installed	Limited space in the kiosk
30	Richmond High School	2"	1	??	800	May need larger enclosure

City of Richmond

Contract 3096P

Request for Proposal SUPPLY OF A CENTRAL IRRIGATION CONTROL SYSTEM (CICS)

Item	Park Location	Water Supply	Number of Controllers	Number of Stations	Distance from Controller & DCVA (ft)	Additional notes
31	Brighthouse School	2"	1	12	870	
32	Richmond Community Gardens	2"	1	5 (5)*	240	User groups use a large volume of water here
33	Aquatic Center	1.5"	1	2	10	No power in park. No enclosure.
34	Burnett School tree drip	1"	1	1	20	No power in park. No enclosure.
35	Byng School	2"	1	9	600	
36	Caring Place	1"	1	6	15	Controller and backflow are in the building.
37	Garden City Park	2"	1	8 (16)*	MV and meter Installed	
38	Gibbons Park	2"	1	8	100	No enclosure (Pedestal installed)
39	Lang Park	1.5"	1	4	NA	Limited space in the kiosk
40	London Farm	1.5"	1	4	260	No space left in the enclosure. User group taps.
41	London Farm Community Gardens	2"	0	Manual	NA	Taps for gardens.
42	No 1 and Moncton	1.5"	1	7	10	Limited space in the chamber
43	Palmer School	2"	0	Manual	250	There are 4 ball diamonds (2 manual valves per)
44	Paulik Park	2"	0	Manual	NA	Taps only. May be adding an automatic system
45	Patterson Park	2"	2	17	MV and meter Installed	Limited space in the kiosk
46	Richmond Pitch and Putt	2"	1	21	760	Controller in building
47	Courthouse and Public Safety Grounds	1.5"	1	7	90	Controller in building
48	Scout Campground	1"	0	Manual	NA	Taps only
49	Senior's Center	1"	1	12	65	
50	Steveston Marital Arts	2"	1	7	180	Limited space in the enclosure
51	Steveston Ball Diamond North	1"	0	Manual	NA	Taps only
52	Steveston Ball Diamond South	1.5"	0	Manual	105	2 manual stations
53	Steveston Town Square	1.5"	1	2	20	No power or kiosk in park
54	Tera Nova South	1.5"	2	5	30	No power or kiosk in park
55	Thompson Community Center	0.75"	1	2	NA	Controller in building
56	Tin Shed	2"	1	6	250	Controller in building
57	Tomakichi Homa School	2"	1	11	280	
58	Works Yard Berm	1.5"	2	2	110	There are two water sources in this park. No power or kiosk in park
59	Works Yard Depot	1.5"	1	4	130	Controller in building
60	Works Yard Nursery	1.5"	2	11	400	Will require a new enclosure

## Appendix A-2

### Median Locations – Irrigation Systems Inventory

Item	Median Location	Water Supply	Number of Controllers	Number of Stations	Distance from Controller & DCVA (ft)	Additional notes
1	Granville (West of Lynas)	1.5"	1	2	8	Median without power
2	Granville (East of Lynas)	1.5"	1	3	8	Median without power
3	Granville (West of No 2 Rd)	1.5"	1	2	8	Median without power
4	Granville (East of No 2 Rd) (a)	1.5"	1	1	15	Median without power.
5	Granville (East of No 2 Rd) (b)	1.5"	1	2	15	Median without power.
6	Granville (West of Gilbert)	1.5"	1	3	8	Median without power
7	Granville (East of Gilbert)	2"	1	3	8	Median without power
8	Granville (West of Minoru)	1.5"	1	3	8	Median without power
9	Granville (West of No 3 Rd)	2"	1	4	8	Median without power
10	Granville (East of No 3 Rd)	1.5"	1	3	8	Median without power
11	Granville & Buswell (S. Blvd)	1.5"	1	3	40	Boulevard without power
12	Granville (West of St Albans)	2"	1	4	8	Median without power
13	Granville (East of Cooney) (a)	2"	1	3	15	Median without power.
14	Granville (East of Cooney) (b)	2"	1	4	15	Median without power.
15	Azure & Granville Cr. West	1.5"	1	1	8	Median without power
16	Azure & Granville Cr. East	1.5"	1	1	8	Median without power
17	No 2 Rd (North of Westminster Hwy)	1"	1	3	8	Median without power
18	No 2 Rd (South of Westminster Hwy) (a)	1"	1	1	8	Median without power.
19	No 2 Rd (South of Westminster Hwy) (b)	1.5"	1	2	8	Median without power.
20	No 2 Rd (North of Garrison)	1.5"	1	1	8	Median without power
21	No 2 Rd (South of Garrison)	1"	1	1	8	Median without power
22	No 2 Rd (North of Granville)	1"	1	1	8	Median without power
23	Gilbert (South of Westminster Hwy)	1.5"	1	8	20	Median with power. Flow meter and master valve installed. Kiosk installed
24	Hazelbridge (South of Cambie)	2"	1	7 (2)*	360	Median with power. Has a kiosk
25	Westminster Hwy (West of No 2 Rd)	1"	1	3	8	Median without power
26	Westminster Hwy (East of No 2 Rd)	1"	1	2	8	Median without power
27	Westminster Hwy (West of Gilbert)	1"	1	2	8	Median without power
28	Westminster Hwy (West of Minoru)	1"	1	2	8	Median without power
29	Westminster Hwy (Gilbert to Minoru S. Blvd)	1"	1	3	12	Median without power. Kiosk installed
30	Westminster Hwy (West of No 3 Rd)	1.5"	1	2	8	Median without power
31	Westminster Hwy (West of Cooney)	1.5"	1	2	12	Median without power

City of Richmond

Contract 3096P

Request for Proposal SUPPLY OF A CENTRAL IRRIGATION CONTROL SYSTEM (CICS)

Item	Median Location	Water Supply	Number of Controllers	Number of Stations	Distance from Controller & DCVA (ft)	Additional notes
32	Westminster Hwy (West of Garden City)	2"	1	2	8	Median without power
33	Westminster Hwy (East of Garden City) (a)	1"	1	1	95	Median without power.
34	Westminster Hwy (East of Garden City) (b)	2"	1	2	8	Median without power.
35	Westminster Hwy (West of No 4 Rd)	2"	1	3	8	Median without power
36	Westminster Hwy (East of No 4 Rd)	2"	1	3	8	Median without power
37	Westminster Hwy (West of Shell)	2"	1	3	8	Median without power
38	Westminster Hwy (East of Shell)	2"	1	4	8	Median without power
39	Westminster Hwy (West of No 5 Rd)	1.5"	1	4	8	Median without power
40	Alderbridge (East of Garden City)	2"	1	3	8	Median without power
41	Alderbridge (East of Hazelbridge)	2"	1	2	8	Median without power
42	Alderbridge (East of No 4 Rd)	2"	1	2	8	Median without power
43	Alderbridge (West of Garden City)	1.5"	1	2	8	Median without power
44	Alderbridge (West of Shell)	2"	1	3	20	Median without power
45	Buswell & Anderson (South West)	1.5"	1	3	12	Boulevard without power
46	Buswell & Saba (South West)	1.5"	1	1	12	Boulevard without power
47	Francis Road (West end)	1"	1	2	8	Median without power
48	Garden City (North of Westminster Hwy)	1"	1	1	8	Median without power
49	Garden City (South of Westminster Hwy)	1"	1	1	8	Median without power
50	Gilbert (South of Elmbridge)	1.5"	1	2	8	Median without power
51	Granville (North of Barnard)	1"	1	1	5	Medians without power
52	Granville (South of Barnard)	1"	1	1	5	Medians without power
53	Jones Road	2"	1	3	12	Boulevard without power
54	Lansdowne (East of Cooney)	1"	1	1	8	Median without power
55	Lansdowne (East of No 3 Rd)	2"	1	2	8	Median without power
56	Lansdowne (West of Garden City)	2"	1	4	8	Median without power
57	Lansdowne (West of No 3 Rd)	1.5"	2	5	8	Median without power
58	Minoru (North of Granville)	2"	2	4	8	Median without power. 2 controllers in separate locations with one water source
59	Minoru (North of Minoru Gate)	1.5"	1	2	8	Median without power
60	Minoru (North of Park Gate)	1"	1	3	8	Median without power
61	Minoru (North of Seniors Center)	1"	1	1	8	Median without power
62	Minoru (North of Westminster Hwy)	1"	1	2	8	Median without power
63	Minoru (South of Westminster Hwy)	1"	1	2	8	Median without power
64	Minoru (South of Minoru Gate)	1.5"	1	2	8	Median without power
65	Minoru (South of Seniors Center)	1"	1	2	8	Median without power
66	Minoru (South of Westminster Hwy)	1"	1	2	8	Median without power
67	No 3 Rd (South of Granville)	1"	1	2	12	Median without power
68	Steveston 14000 Blk (Silver City Area)	1.5"	1	4	16	Median without power

City of Richmond

Contract 3096P

Request for Proposal SUPPLY OF A CENTRAL IRRIGATION CONTROL SYSTEM (CICS)

Item	Median Location	Water Supply	Number of Controllers	Number of Stations	Distance from Controller & DCVA (ft)	Additional notes
69	Steveston (East of Coppersmith)	2"	1	4	8	Median without power
70	Steveston (West of Coppersmith)	1.5"	1	4	250	Median without power
71	Works Yard Entrance (East)	1"	1	1	8	Median without power
72	Works Yard Entrance (West)	1"	1	1	8	Median without power



**City of Richmond**  
 Business & Financial Services Department

**Notice of No Bid**

**Note:** Receipt of this completed form will assist us in calling for future bids. Please complete and submit this form prior to the closing date and time as shown on the Request for Quotation/Proposal/Tender form.  
 Please remember to include Quotation/Proposal/Tender No. at right.

Quotation/Proposal/Tender No.  
**3096Q**

**A Quotation/Proposal/Tender is not being submitted for the following reason(s):**

- |  |  |
|--|--|
| <input type="checkbox"/> We do not manufacture/supply the required goods/services  | <input type="checkbox"/> Cannot obtain raw materials/goods in time to meet delivery requirements |
| <input type="checkbox"/> We do not manufacture/supply to stated specifications     | <input type="checkbox"/> Cannot meet delivery requirements                                       |
| <input type="checkbox"/> Specifications are not sufficiently defined               | <input type="checkbox"/> Cannot quote/tender a firm price at this time                           |
| <input type="checkbox"/> Insufficient information to prepare quote/proposal/tender | <input type="checkbox"/> Insufficient time to prepare quote/tender.                              |
| <input type="checkbox"/> Quantity too small  | <input type="checkbox"/> We are unable to competitively quote/tender at this time.               |
| <input type="checkbox"/> Quantity too large  | <input type="checkbox"/> We do not have facilities to handle this requirement                    |
| <input type="checkbox"/> Quantity beyond our production capacity                   | <input type="checkbox"/> Licensing restrictions (please explain)                                 |
| <input type="checkbox"/> Cannot meet packaging requirements                        | <input type="checkbox"/> Agreements with distributors/dealers do not permit us to sell directly. |
| <input type="checkbox"/> Cannot handle due to present plant loading                | <input type="checkbox"/> Other reasons or additional comments (please explain below)             |

I / We wish to quote / tender on similar goods / services in future <input type="checkbox"/> Yes <input type="checkbox"/> No	Authorized Company Official – Signature and Title	Date
This space for City of Richmond Comments	Firm Name	
	Address	
	City	
	Province	Postal Code
	Telephone Number	



November 15, 2007  
File: 3096Q

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

Attention: To all Parties who have received a copy of Request for Quotation documents Contract 3096Q

Dear: Sir or Madame,

**Re: Addendum #1  
3096Q – Supply and Installation of Central Irrigation Control System**

The following change is hereby made a part of the Request for Quotation Documents as fully and completely as if the same were fully set forth therein:

1. The closing date has been extended to: **Monday, December 3, 2007 3:00pm PST.**

Yours truly,

Sumita Dosanjh  
*Contracting Specialist*  
*City of Richmond*