



# CITY OF RICHMOND

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## Tender Documents for:

**Contract T.4992**

**ROAD CONSTRUCTION – WESTMINSTER HWY FROM  
GILLEY RD TO #23591 WESTMINSTER HWY**

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**September 2013**

# CITY OF RICHMOND INVITATION TO TENDER

## Contract T.4992

### Contract: ROADWAY CONSTRUCTION – WESTMINSTER HWY FROM GILLEY RD TO #23591 WESTMINSTER HWY

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

#### **WORK**

Roadway Construction on Westminster Highway from Gilley Road to #23591 Westminster Highway.

The work includes:

#### Westminster Hwy and Gilley Rd Intersection Improvements

- Install 113 linear metres of extruded curb along Westminster Hwy;
- Relocate traffic signals at Westminster Hwy and Gilley Rd and installing new conduits for private utilities within the intersection;
- Construct bus pad and related infrastructure;
- Construct a median island;
- Install 33 linear meters of 150mm dia. sanitary forcemain;
- Install Allan Block retaining wall including geogrid, backfill and base;
- Install 7 linear metres of 150mm dia. PVC lateral;
- Supply and install two standard top inlet catch basins;
- Relocate one existing lawn basin;
- Install Signage and Pavement Markings.
- Install Preload and Monitor Settlement

#### Westminster Hwy Walkway

- Construct 170 linear metres of pathway from Smith Cr to #23591 Westminster Hwy;
- Construct 173 linear metres of road widening complete with 50mm mill and overlay;
- Install 305 linear metres of extruded curb along Westminster Hwy;
- Install 3 linear metres of 150mm dia. PVC Catch Basin leads and 22 linear metre of 100mm PVC Lawn Basin leads;
- Supply and install one Inspection Chamber and one standard top inlet Catch Basin;
- Construct one bus pad and related infrastructure.

The *Contract Documents* are available on BC Bid website:

<http://www.bcbid.gov.bc.ca/open.dll/welcome?language=En>

Note: a subscription to BC Bid is required to access the *Contract Documents*.

**Tenders are scheduled to close at:**

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

**Tender Closing Date:** **Thursday, October 15, 2013**, and will be opened publicly immediately thereafter at Richmond City Hall.

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

The lowest or any Tender will not necessarily be accepted.

**Manager – Purchasing**



# CITY OF RICHMOND

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## **Contract Documents for:**

**Contract T.4992**

**ROAD CONSTRUCTION – WESTMINSTER HWY FROM  
GILLEY RD TO #23591 WESTMINSTER HWY**

---

**September 2013**

## CONTRACT DOCUMENTS

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The *Contract Documents* shall consist of the following:

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Section C Executed Agreement .....	C-1
Section D Documents Specific to this Contract.....	D-1
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Supplementary Specifications .....	D-7
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Drawings Listed in Schedule 2 to the Agreement (Bound separately) .....	D-38
Standard Documents (not attached). These include:	
1. Master Municipal Construction Documents, Volume II, 2009, comprising Instructions to Tenderers – Part II, General Conditions, Specifications and Standard Detail Drawings and Addendums including:	
a. MMCD Platinum Edition Supplemental Update Aug 7, 2012	
b. MMCD Platinum Edition Supplemental Update Jun 8, 2012	
c. MMCD Platinum Edition Supplemental Update May 30, 2012	
d. MMCD Platinum Edition Supplemental Update Aug 8, 2011	
e. MMCD Platinum Edition Supplemental Update Aug 4, 2011	
f. MMCD Platinum Edition Supplemental Update May 8, 2010	
g. MMCD Platinum Edition Supplemental Update Mar 25, 2010	
h. MMCD Platinum Edition Supplemental Update Nov 19, 2009	
i. PVC C900 Pipe Specifications Clarification May 12, 2011	
2. City of Richmond’s Supplementary Specifications and Detail Drawings, dated April 2011.	

3. City of Richmond Roadway Restoration Bylaw 7869, dated April 11, 2005.
4. City of Richmond Quality Control Program, Jan 1, 2012  
 <[http://www.richmond.ca/\\_\\_shared/assets/AmendmentstoQualityControl31957.pdf](http://www.richmond.ca/__shared/assets/AmendmentstoQualityControl31957.pdf)>

Section E	Samples: Undertaking of Liability Insurance and Agreement to Bond .....	E-1
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ftp://ftp.richmond.ca/FROM%20City%20of%20Richmond/T.4992%20Westminster%20Hwy%20from%20Gilley%20Rd%20to%20%2323591%20Westminster%20Hwy/

User Name: engineering1  
 Password: ri(hmond

## **SECTION A**

### **INSTRUCTIONS TO TENDERERS – PART I**

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### SECTION A

#### INSTRUCTIONS TO TENDERERS – PART I

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## INSTRUCTIONS TO TENDERERS (IT) - PART I

(To be read with "Instructions to Tenderers - Part II" contained in the "Master Municipal Construction Documents" specified in Article 2.2 below)

### Introduction 1.

1.1 These Instructions apply to and govern the preparation of tenders for this Contract.

1.2 The Contract is generally for the following work:

#### Westminster Hwy and Gilley Rd Intersection Improvements

- Install 113 linear metres of extruded curb along Westminster Hwy;
- Relocate traffic signals at Westminster Hwy and Gilley Rd and installing new conduits for private utilities within the intersection;
- Construct bus pad and related infrastructure;
- Construct a median island;
- Install 33 linear meters of 150mm dia. sanitary forcemain;
- Install Allan Block retaining wall
- Install 7 linear metres of 150mm dia. PVC lateral;
- Supply and install two standard top inlet catch basins;
- Relocate one existing lawn basin;
- Install Signage and Pavement Markings.

#### Westminster Hwy Walkway

- Construct 170 linear metres pathway from Smith Cr to #23591 Westminster Hwy;
- Construct 173 linear metres of road widening complete with 50mm mill and overlay;
- Install 305 linear metres of extruded curb along Westminster Hwy;
- Install 3 linear metres of 150mm dia. PVC Catch Basin leads and 22 linear metre of 100mm PVC Lawn Basin leads;
- Supply and install one Inspection Chamber and one standard top inlet Catch Basin;
- Construct one bus pad and related infrastructure.

1.3 The Work is located in the following areas:

#### **1.3.1 WORK**

- Westminster Hwy – from Gilley Rd to #23591 Westminster Hwy

1.4 **Type of Work**

The principal types of work to be carried out include but are not limited to:

- Survey layout and as-built drawings;
- All sawcutting, excavation, backfill, compaction;
- Removal of existing paving where directed;
- Asphalt restoration;
- Signage relocations;
- Supply and installation of storm and sanitary pipe works and appurtenances;
- Supply and placement of preload;
- Provide formwork where necessary;
- Install geogrid, backfill and base for retaining wall;
- Placement of permanent thermoplastic road markings;
- Removal of existing road markings.

1.5 Direct all inquiries regarding the Tender to:

Procurement / Contractual

Julia Turick - Buyer II

Finance and Corporate Services

Email: [purchasing@richmond.ca](mailto:purchasing@richmond.ca)

Project / Technical

Pratima Cheung, Project Manager

Engineering Design and Construction

Phone: 604-276-4039

Email: [pcheung@richmond.ca](mailto:pcheung@richmond.ca)

Inquiries must be submitted to the City by 5:00 pm, local time on Thursday, October 3, 2013. Inquiries received after may not be answered.

**Tender Documents 2.**

- 2.1 The Tender Documents, which a Tenderer should review to prepare a tender, consist of all of the *Contract Documents* listed in Schedule 1 entitled “Schedule of Contract Documents” attached to the Agreement which is included as part of the tender package. The *Contract Documents* include the Drawings listed in Schedule 2 to the Agreement, entitled “List of Drawings”.

2.2 Portions of the *Contract Documents* are included by reference. Copies of these documents have not been included with the tender package. These documents are:

- The Instructions to Tenderers - Part II, General Conditions, Specifications, Standard Detail Drawings. They are contained in the publication entitled "Master Municipal Construction Documents – The Instructions to Tenderers – Part II, General Conditions, Standard Specifications and Standard Detail Drawings", Platinum Edition, dated 2009 and Addendums including:
  - MMCD Platinum Edition Supplemental Update Aug 7, 2012
  - MMCD Platinum Edition Supplemental Update Jun 8, 2012
  - MMCD Platinum Edition Supplemental Update May 30, 2012
  - MMCD Platinum Edition Supplemental Update Aug 8, 2011
  - MMCD Platinum Edition Supplemental Update Aug 4, 2011
  - MMCD Platinum Edition Supplemental Update May 8, 2010
  - MMCD Platinum Edition Supplemental Update Mar 25, 2010
  - MMCD Platinum Edition Supplemental Update Nov 19, 2009
  - PVC C900 Pipe Specifications Clarification May 12, 2011
- City of Richmond Supplementary Specifications and Detail Drawings (April 2011).
- City of Richmond Roadway Restoration Regulation Bylaw 7869 (April 11, 2005).
- City of Richmond Quality Control Program (Jan 1, 2012). <[http://www.richmond.ca/\\_\\_shared/assets/AmendmentstoQualityControl31957.pdf](http://www.richmond.ca/__shared/assets/AmendmentstoQualityControl31957.pdf)>

All sections of these publications are by reference included in the *Contract Documents*.

2.3 Any additional information made available to the Tenderers prior to the Tender Closing Time by the Owner or representative of the Owner, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available to the Tenderers, who must make their own judgement about its reliability, accuracy or completeness, and neither the Owner nor any representative of the Owner gives any guarantee or representation that the

additional information is reliable, accurate or complete.

**Submission of Tenders**

3. 3.1 Sealed Tenders must be addressed to Manager – Purchasing marked with:

**Contract T.4992 Roadway Construction – Westminster Hwy from Gilley Rd to #23591 Westminster Hwy**

will be received on or before:

Tender Closing Time: 3:00 PM local time

Tender Closing Date: **October 15, 2013**

At Front of House, Richmond City Hall  
6911 No. 3 Road, Richmond, BC,  
V6Y 2C1

- 3.2 Late Tenders will not be accepted or considered, and will be returned unopened.

**4. Additional Instructions to Tenderers**

**Purchase of Standard Documents**

- 4.1 The “Master Municipal Construction Documents, Platinum Edition Volume II, 2009 may be purchased from:

Support Services Unlimited  
Suite 302, 1107 Homer Street, Vancouver, BC, V6B 2Y1  
Tel: 604-681-0295, Fax: 604-681-4545

The current City of Richmond’s MMCD Supplementary Specifications and Detail Drawings are available on the internet at the address below or may be purchased from:

Front of House, Richmond City Hall,  
6911 No. 3 Road, Richmond, BC, V6Y 2C1  
Tel: 604-276-4000

<http://www.richmond.ca/services/rdws/specs/mmcd.htm>

**Completeness of Tender Documents**

- 4.2 The Tenderers shall be responsible for checking the completeness of the entire Tender Documents and ensuring that they have the specified editions of the Standard Documents and shall notify the person named in IT 1.5 above should any section of the Tender Documents be found incomplete or with pages missing.

**Undertakings of**

- 4.3 The Tender Submission Document shall be accompanied by an

<b>Surety and Liability Insurance</b>		Undertaking of Surety and an Undertaking of Liability Insurance, conforming to the samples given in Section E of the Tender Documents.
<b>Tender Submission Documents</b>	4.4	This Tender Document contains one extra separately bound set of Tender Submission Documents. Tenderers are only required to complete and submit the separately bound set of the Tender Submission Documents in accordance with these instructions, and should retain the remaining documents for record purposes.
<b>No Claim for Compensation</b>	4.5	Except as expressly and specifically permitted in these Instructions to Tenderers, no Tenderer shall have any claim for any compensation of any kind whatsoever, as a result of participating in the tender and by submitting a bid each Tenderer shall be deemed to have agreed that it has no claim.
<b>Responsibility for Addenda</b>	4.6	<p>It is the responsibility of the Tenderer to thoroughly examine these documents and to satisfy itself as to the full requirements of the Work. Inquiries are to be in written form only and submitted by e-mail to the contact person shown Instruction to Tenderers Part I, section 1.5. If required, an addendum will be published on the following web sites:</p> <p>BC bid:(<a href="http://www.bcbid.gov.bc.ca/open.dll/welcome?language=En">http://www.bcbid.gov.bc.ca/open.dll/welcome?language=En</a>)</p> <p>City of Richmond: (<a href="http://www.richmond.ca/busdev/tenders/currenttenders.htm">http://www.richmond.ca/busdev/tenders/currenttenders.htm</a>).</p>
<b>Performance and Labour &amp; Materials Payment Bonds</b>	4.7	The Tenderer's attention is drawn to the requirement in Section 5.1.1 of the Form of Tender for delivery of a Performance Bond and a Labour and Materials Payment Bond each equal to 50% of the Contract Price, and the consequence of not doing so under Section 6.1 therein.
<b>Current Labour Disputes</b>	4.8	If, at the time of submitting the Tender Submission documents, there are labour disputes, strikes or lock-outs currently in effect or which the Tenderer can reasonably foresee, and the Tenderer feels that these may affect its ability to complete the Work within the time specified, the Tenderer shall make specific reference to them as an <b>additional attachment</b> to their Tender Submission Documents. Failure to disclose a current or reasonably foreseeable situation will be treated as a breach of contract and the Owner may cancel the contract and as well seek damages.
<b>Award</b>	4.9	<p>Add the following to Instructions to Tenderers, Clause 15.1 after sub-clause 15.1.3:</p> <p>“15.1.4 – reject tender containing prices which appear to be</p>

unbalanced as to be likely to adversely affect the Owner”

Add the following to Instructions to Tenderers, Clause 15.1 after the un-numbered paragraph:

“15.1.5. – reject tender containing a declaration of current labour problems as given in 4.6 above. In exercising its discretion, the Owner will have regard to the need of completing the Work within the time specified or the impact of not completing the Work on time. In no event shall the Owner be liable for a Tenderer’s costs of preparing a tender.”

Tenderers shall allow a period of 3 weeks from the date of closing of tenders to the Notice of Award.

- |   |      |  |
|---|------|--|
| <b>Tenderer’s Signatory</b>             | 4.10 | All individuals submitting the tender must sign the Form of Tender with their signatures witnessed. If the Tenderer is a corporation, the tender shall be executed under its corporate seal.   |
| <b>Initialling of Tender Submission</b> | 4.11 | Before submission, the Tenderer shall initial every page of the Tender Submission Document. Every change or correction to any entry onto the Tender Submission Document shall be similarly initialled. Any omission of initial will be dealt with under IT 15.1.   |
| <b>Business License</b>                 | 4.12 | The successful Tenderer shall be required to hold a valid business license for the City of Richmond and shall have the ability to obtain such a licence prior to commencement of the work.   |
| <b>Liquidated Damages</b>               | 4.13 | The Tenderer’s attention is drawn to GC 13.9.1 in respect of Liquidated Damages for failure to meet the <i>Milestone Date</i> for Substantial Performance.   |
| <b>Freedom of Information</b>           | 4.14 | All Tender Submissions shall be treated in compliance with the <i>B.C. Freedom of Information and Protection of Privacy Act</i> .  |
| <b>Additional Information</b>           | 4.15 | The reference drawings as per attached list are issued to the Tenderers for the purposes defined in clause 2.3 of this Instructions to Tenderers, Part I.  |
| <b>Optional Works</b>                   | 4.16 | In Accordance with General Conditions 7.4, additional work as described in the Schedule of Quantities and Prices may be included as Optional Work at the election of the Owner. Should the Owner elect to include the Optional Work, the work shall be undertaken and paid for under the tendered Unit Prices. The construction period will be adjusted accordingly. |
| <b>Sustainable Practices</b>            | 4.17 | The Tenderer should list out and provide details on any and all sustainable and green practices they intend to use during the construction process. Award of the tender will be made according to the requirements under the City’s Purchasing Policy 3104. The  |

sustainable practices used can be listed in Appendix 7 of the Tender Submission Documents.

**Disposal Sites** 4.18 The Tenderer is to list out and provide details on all disposal sites in Appendix 8.

**List of Reference Drawings**  
**(attached for information purposes only, refer to IT – Part I, 2.3)**

TITLE	DRAWING NO.	DATE	REVISION NO.



City of Richmond  
Contract T.4992  
Roadway Construction – Westminster Hwy from Gilley Rd to #23591 Westminster Hwy

## CITY OF RICHMOND

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### Tender Submission Documents for:

**Contract T.4992**

**ROADWAY CONSTRUCTION – WESTMINSTER HWY  
FROM GILLEY RD TO #23591 WESTMINSTER HWY**

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**September 2013**

## **SECTION B**

### **TENDER SUBMISSION DOCUMENTS**

**SECTION B**  
**TENDER SUBMISSION DOCUMENTS**  
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The Tender Submission Documents are comprised of the following:

<b>Tender Submission Check List</b> .....	<b>B-3</b>
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together with:	
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Appendix 4 – Comparable Work Experience .....	B-18
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Appendix 6 – Alternative Tender.....	B-20
Appendix 7 – Sustainable Practices .....	B-21
Appendix 8 – Material Disposal Sites .....	B-22

### TENDER SUBMISSION CHECK LIST

The Tenderer is to provide name, address, postal code and telephone number below in typewritten form or clear, block letters:

Name of Tenderer: \_\_\_\_\_

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

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

The Tender submission will be checked by representatives of the Tender Opening Committee to ensure that the following security or insurance documents accompany the Tender:

	Required	Received
Bid Bond or Certified Cheque	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Undertaking of Liability Insurance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Undertaking of Surety	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

**If the above Tender security requirements do not accompany the Tender submission, it may be put aside and not considered, which is in accordance with Purchasing and Publicly Tendered Contracts Policy No. 3104.**

Any clarifications of Tender must be resolved before Tender opening. Any letters or statements regarding same and attached to the Tender will render the Tender null and void.

To be signed at Tender Opening:

\_\_\_\_\_  
City Clerk  
(or Designate)

\_\_\_\_\_  
Manager – Purchasing  
(or Designate)

\_\_\_\_\_  
Department Head  
(or Designate)

Tenderer's Initial \_\_\_\_\_

## FORM OF TENDER

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

### 1. WE, THE UNDERSIGNED:

- 1.1 have received and carefully reviewed all of the *Contract Documents*, including the specified edition of the "Master Municipal Construction Documents - Instructions to Tenderers and General Conditions, Specifications, Standard Detail Drawings", the "City of Richmond's Supplementary Specifications and Detail Drawings", and the following Addenda:

**(insert number and date of all Addenda received)**

_____	_____
_____	_____
_____	_____ ;

- 1.2 have full knowledge of the *Place of the Work*, and the *Work* required; and
- 1.3 have complied with the Instructions to Tenderers.

### 2. ACCORDINGLY WE HEREBY OFFER:

- 2.1. to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*;
- 2.2. to achieve *Substantial Performance* of the *Work* as stated in SSP3 of the Supplementary Specifications.

- 2.3. to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices plus any lump sums or specific prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", and adjustment amounts as provided by the *Contract Documents*. For the purposes of Tender comparison, our offer is to complete the *Work* for the "*Tender Price*" of \_\_

\_\_\_\_\_

\_\_\_\_\_

(\$\_\_\_\_\_ ) as set out on Appendix 1 of this Form of Tender.

*Our Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes GST.

**3. WE CONFIRM:**

- 3.1. that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.

**4. WE CONFIRM:**

- 4.1. that the following Appendices are attached to and form a part of this Tender:
- 4.1.1. the Appendices as required by paragraph 5.3 of the Instructions to Tender - Part II; and
- 4.1.2. the *Bid Security* as required by paragraph 5.2 of the Instructions to Tender - Part II.

**5. WE AGREE:**

- 5.1 that this Tender will be irrevocable and open for acceptance by the *Owner* for a period of sixty (60) calendar days from the day following the *Tender Closing Date and Time*, even if the Tender of another Tenderer is accepted by the *Owner*. If within this period the *Owner* delivers a written notice ("*Notice of Award*") by which the *Owner* accepts our Tender, we will:

- 5.1.1 within 15 *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:
- 5.1.1(a) a Performance Bond and a Labour and Materials Payment Bond, each in the amount of 50% of the *Contract Price*, covering the performance of the *Work* including the *Contractor's* obligations during the *Maintenance Period*, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*; a *Construction Schedule*, as provided by GC 4.6.1;

- 5.1.1(b) a *Construction Schedule*, as provided by GC 4.6.1;

5.1.1(c) a "clearance letter" indicating that the Tenderer is in WCB compliance; and

5.1.1(d) a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place and;

5.1.2 within 2 days of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and

5.1.3 sign the *Contract Documents* as required by GC 2.1.2.

**6. WE AGREE:**

6.1. that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:

6.1.1. fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or

6.1.2. fail or refuse to commence the *Work* as required by the *Notice to Proceed*,

then such failure or refusal will be deemed to be a refusal by us to enter into the *Contract* and the *Owner* may, on written notice to us, award the *Contract* to another party. We further agree that, as full compensation on account of damages suffered by the *Owner* because of such failure or refusal, the *Bid Security* shall be forfeited to the *Owner*, in an amount equal to the lesser of:

6.1.3. the face value of the *Bid Security*; and

6.1.4. the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

**7. OUR ADDRESS is as follows:**

\_\_\_\_\_  
\_\_\_\_\_

Attention: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

This Tender is executed the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

**Tenderer:**

---

**(Full legal name of corporation, partnership or individual)**

SIGNED AND DELIVERED  
by Corporate Tenderer with Corporate  
Seal affixed in the presence of its duly  
authorized signing officers:

---

Name and Position

OR SIGNED AND DELIVERED  
by Unincorporated Tenderer

---

Signature of Sole proprietor or Partner

---

Witness

---

Signature of Partner

---

Witness

---

Signature of Partner

---

Witness



## FORM OF TENDER

### Appendix 1

#### SCHEDULE OF QUANTITIES AND PRICES (See paragraph 5.3.1 of the Instructions to Tenderers - Part II)

(All prices and Quotations including the *Contract Price* shall include all *Taxes*, but shall not include *GST*.)

#### TENDER SUMMARY

##### 1. GENERAL

The undersigned Tenderer, hereinafter referred to as the Tenderer, hereby agrees that the Tendered amounts were completed, signed, and submitted to the Owner by the Tenderer as part of his Tender and further, that he has satisfied himself with and agrees to the contents of the Tender as submitted to the Owner.

##### 2. TENDER SUMMARY

###### 2.1 Westminster Hwy and Gilley Rd Intersection Improvements

The Tendered Amounts carried over from Items in the Schedule are summarized as follows:

WESTMINSTER HWY AND GILLEY RD INTERSECTION IMPROVEMENTS TENDER SUMMARY		
ITEM NO.	DESCRIPTION	TENDERED AMOUNT
A	GENERAL	
B	ROADWORKS	
C	ELECTRICAL WORKS	
D	SANITARY/STORM WORKS	
E	MISCELLANEOUS	
	<b>TENDER PRICE (GST excluded)</b> (Carried to Form of Tender)	
	<b>5% GST</b>	

2.2 Westminster Hwy Walkway

The Tendered Amounts carried over from Items in the Schedule are summarized as follows:

<b>WESTMINSTER HWY WALKWAY TENDER SUMMARY</b>		
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>TENDERED AMOUNT</b>
A	GENERAL	
B	ROADWORKS	
C	ELECTRICAL WORKS	
D	SANITARY/STORM WORKS	
	<b>TENDER PRICE (GST excluded)</b> (Carried to Form of Tender)	
	<b>5% GST</b>	

**3. SCHEDULE OF QUANTITIES AND PRICES**

The items below represent the contract price for the works described in this document and on the drawings. Refer to the MMCD or the supplementary specifications for details on the measurement of and payment for the various items

**3.1 Westminster Hwy and Gilley Rd Intersection Improvements**

<b>T. 4992 Roadway Construction Westminster Hwy and Gilley Rd Intersection Improvements SCHEDULE OF QUANTITIES AND PRICES</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>EST. QTYS.</b>	<b>UNIT PRICE (\$)</b>	<b>TOTAL AMT. (\$)</b>
<b>A</b>	<b>GENERAL</b>				
A-1	Mobilization and demobilization	L.S.	1		
<b>TOTAL FOR GENERAL – ITEM A (Excluding G.S.T.) (Carry forward to Summary of Schedule of Quantities and Prices)</b>					

<b>T. 4992 Roadway Construction Westminster Hwy and Gilley Rd Intersection Improvements SCHEDULE OF QUANTITIES AND PRICES</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>EST. QTYS.</b>	<b>UNIT PRICE (\$)</b>	<b>TOTAL AMT. (\$)</b>
<b>B</b>	<b>ROADWORKS</b>				
B-1	Clearing, grubbing and removal	L.S.	1		
B-2	Supply and install concrete sidewalk incl. 2 wheelchair ramps as per STD DWG R-12-SD	sq.m.	40		
B-3	Supply and install traffic island concrete infill	sq.m.	13		
B-4	Supply and install concrete barrier curb and gutter.	lin.m.	28		
B-5	Supply and install extruded concrete curb (w/ mill key and painted yellow)	lin.m.	113		
B-6	Supply and install extruded concrete median curb c/w key joint	lin.m.	17		
B-7	Supply and install roadway and pathway base structure				
	a) Roadway (230mm granular base, 500mm sub-base)	sq.m.	140		
	b) Sidewalk/Pathway (230mm granular base)	sq.m.	220		

**T. 4992 Roadway Construction****Westminster Hwy and Gilley Rd Intersection Improvements****SCHEDULE OF QUANTITIES AND PRICES**

<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>EST. QTYS.</b>	<b>UNIT PRICE (\$)</b>	<b>TOTAL AMT. (\$)</b>
B-8	Supply and install asphalt pavement				
	a) Roadway (50mm UC#1)	sq.m.	100		
	b) Roadway (100mm LC#2)	sq.m.	85		
	c) Walkway (50mm UC#2)	sq.m.	260		
	d) Walkway (35mm UC#2)	sq.m.	240		
B-9	Supply and install hand rails as per MMCD 32 31 13	lin.m	89		
B-10	Supply and install top soil and finish grading (incl. slope fill material as required)	sq.m.	100		
B-11	Supply and install hydraulic seeding	sq.m.	100		
B-12	Supply and install pavement markings (thermoplastic) incl. paint line eradication	L.S.	1		
B-13	Supply and install new signage and relocate existing signs as required	L.S.	1		
B-14	Supply and placement of preload	L.S.	1		
<b>TOTAL FOR ROADWORKS – ITEM B (Excluding G.S.T.)</b>					
<b>(Carry forward to Summary of Schedule of Quantities and Prices)</b>					

**T. 4992 Roadway Construction  
 Westminster Hwy and Gilley Rd Intersection Improvements  
 SCHEDULE OF QUANTITIES AND PRICES**

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
<b>C</b>	<b>ELECTRICAL</b>				
C-1	Traffic signal modifications and improvements	L.S.	1		
<b>TOTAL FOR ELECTRICAL WORKS – ITEM C (Excluding G.S.T.)            (Carry forward to Summary of Schedule of Quantities and Prices)</b>					

**T. 4992 Roadway Construction  
 Westminster Hwy and Gilley Rd Intersection Improvements  
 SCHEDULE OF QUANTITIES AND PRICES**

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
<b>D</b>	<b>SANITARY/STORM WORKS</b>				
D-1	Supply and install 150mm dia. PVC sanitary force main	lin.m.	33		
D-2	Supply and install 150mm dia. PVC lateral	lin.m.	7		
D-3	Supply and install standard top inlet catch basin	each	2		
D-4	Relocate existing lawn basin	each	1		
<b>TOTAL FOR SANITARY/STORM – ITEM D (Excluding G.S.T.)            (Carry forward to Summary of Schedule of Quantities and Prices)</b>					

**T. 4992 Roadway Construction  
 Westminster Hwy and Gilley Rd Intersection Improvements  
 SCHEDULE OF QUANTITIES AND PRICES**

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
<b>E</b>	<b>MISCELLANEOUS</b>				
E-1	Supply and install Allan block Retaining Wall (incl. geogrid, backfill and base)	L.S.	1		
E-2	Relocate existing Jersey Barrier	L.S.	1		
E-3	Remove existing Jersey Barrier	L.S.	1		
<b>TOTAL FOR MISCELLANEOUS – ITEM E (Excluding G.S.T.)            (Carry forward to Summary of Schedule of Quantities and Prices)</b>					

**3.2 Westminster Hwy Walkway****T. 4992 Roadway Construction****Westminster Hwy Walkway****SCHEDULE OF QUANTITIES AND PRICES**

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
<b>A</b>	<b>GENERAL</b>				
A-1	Mobilization and demobilization	L.S.	1		
TOTAL FOR GENERAL – ITEM A (Excluding G.S.T.) (Carry forward to Summary of Schedule of Quantities and Prices)					

**T. 4992 Roadway Construction****Westminster Hwy Walkway****SCHEDULE OF QUANTITIES AND PRICES**

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
<b>B</b>	<b>ROADWORKS</b>				
B-1	Clearing, grubbing and removal	L.S.	1		
B-2	Supply and install extruded concrete curb at 70mm high	lin.m.	23		
B-3	Supply and install extruded concrete curb (w/ mill key and painted yellow)	lin.m.	305		
B-4	Supply and install roadway and pathway base structure				
	a) Roadway (230mm Granular Base, 500mm Sub-base)	sq.m.	533		
	b) Pathway (230mm Granular Base)	sq.m.	390		
B-5	Construct driveways tie-ins				
	a) Asphalt tie Ins (incl. excavation and prep work)	sq.m.	100		
	b) Concrete tie Ins (incl. excavation and prep work)	sq.m.	30		
B-6	Supply and install asphalt pavement				
	a) Roadway (50mm UC#2)	sq.m.	447		
	b) Roadway (100mm LC#1)	sq.m.	412		
	c) Walkway (50mm UC#2)	sq.m.	410		

**T. 4992 Roadway Construction****Westminster Hwy Walkway****SCHEDULE OF QUANTITIES AND PRICES**

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
	d) Walkway (35mm UC#2)	sq.m.	395		
B-7	Supply and install top soil and finish grading (incl. slope fill material as required)	sq.m.	336		
B-8	Supply and install hydraulic seeding	sq.m.	336		
B-9	Supply and install pavement markings (thermoplastic) incl. paint line eradication	L.S.	1		
B-10	Install new signage and relocate existing signs as required	L.S.	1		
<b>TOTAL FOR ROADWORKS – ITEM B (Excluding G.S.T.)</b> <b>(Carry forward to Summary of Schedule of Quantities and Prices)</b>					

**T. 4992 Roadway Construction****Westminster Hwy Walkway****SCHEDULE OF QUANTITIES AND PRICES**

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
<b>C</b>	<b>ELECTRICAL</b>				
C-1	Adjust junction box	each	2		
<b>TOTAL FOR ELECTRICAL WORKS – ITEM C (Excluding G.S.T.)</b> <b>(Carry forward to Summary of Schedule of Quantities and Prices)</b>					

**T. 4992 Roadway Construction****Westminster Hwy Walkway****SCHEDULE OF QUANTITIES AND PRICES**

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
<b>D</b>	<b>STORM WORKS</b>				
D-1	Adjust storm manhole (w/ riser section)	each	2		
D-2	Supply and install 150mm dia. PVC catch basin leads	lin.m.	3		
D-3	Supply and install 100mm dia. PVC lawn basin leads	lin.m.	22		

**T. 4992 Roadway Construction****Westminster Hwy Walkway****SCHEDULE OF QUANTITIES AND PRICES**

<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>EST. QTYS.</b>	<b>UNIT PRICE (\$)</b>	<b>TOTAL AMT. (\$)</b>
D-4	Supply and install inspection chamber	each	1		
D-5	Supply and install standard top inlet catch basin	each	1		
D-6	Supply and install 600mm dia. lawn basin	each	1		
D-7	Adjust existing lawn basin	each	4		
<b>TOTAL FOR SANITARY – ITEM D (Excluding G.S.T.) (Carry forward to Summary of Schedule of Quantities and Prices)</b>					



## FORM OF TENDER

### Appendix 2

#### PRELIMINARY CONSTRUCTION SCHEDULE (See paragraph 5.3.2 of the Instructions to Tenderers – Part II)

INDICATE SCHEDULE WITH BAR CHART WITH MAJOR ITEM DESCRIPTIONS AND TIME

ACTIVITY	CONSTRUCTION SCHEDULE (WEEKS)															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Notice of Award will be per section 4.9 in Instruction to Tenderers Part I. Use separate sheets if the table does not have enough columns to cover the Contract Time

Tenderer's Initial \_\_\_\_\_

## FORM OF TENDER

### Appendix 3

#### EXPERIENCE OF SUPERINTENDENT (See paragraph 5.3.3 of the Instructions to Tender – Part II)

Name: \_\_\_\_\_

#### Experience

Dates: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Responsibility: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
References: \_\_\_\_\_

Dates: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Responsibility: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
References: \_\_\_\_\_

Dates: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Responsibility: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
References: \_\_\_\_\_

Tenderer's Initial \_\_\_\_\_

## FORM OF TENDER

### Appendix 4

#### COMPARABLE WORK EXPERIENCE (See paragraph 5.3.4 of the Instructions to Tender – Part II)

PROJECT	OWNER/ CONTACT NAME	PHONE NUMBER	WORK DESCRIPTION	VALUE (\$)

## FORM OF TENDER

### Appendix 5

#### SUBCONTRACTORS

(See paragraph 5.3.5 of the Instructions to Tenderers – Part II)

TENDER ITEM	TRADE	SUBCONTRACTOR NAME	PHONE NUMBER



**FORM OF TENDER**  
**Appendix 7**  
**SUSTAINABLE PRACTICES**

**Sustainable practices are defined as those materials, equipment and construction methodologies that reduce greenhouse gas emissions as compared to standard practices.**

Sustainable Equipment

Sustainable Materials

Sustainable Construction Methodologies

Award of Contract shall be made according to City Policy 3104 adopted May 8, 2006.

Tenderer's Initial \_\_\_\_\_

## FORM OF TENDER

### Appendix 8

### Material Disposal Sites

List all material disposal sites and provide contact information for those sites

Location / Business Name	Contact Information

## **SECTION C**

## **AGREEMENT**



**SECTION C**  
**AGREEMENT**  
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## CITY OF RICHMOND

### AGREEMENT

**THIS AGREEMENT** made in duplicate this \_\_\_\_\_ day of \_\_\_\_\_, 2013.

Reference No. Contract T.4992

Contract: No. 6 Road Widening – Westminster Highway to Commerce Parkway

#### **BETWEEN:**

City of Richmond

(the “Owner”)

#### **AND:**

\_\_\_\_\_  
(the “Contractor”)

The *Owner* and the *Contractor* agree as follows:

#### **1. THE WORK – START/COMPLETION DATES**

- 1.1 The *Contractor* will perform all *Work* and provide all labour, equipment and material and do all things strictly as required by the *Contract Documents*.
- 1.2 The *Contractor* will commence the *Work* in accordance with the *Notice to Proceed*. The *Contractor* will proceed with the *Work* diligently, will perform the *Work* generally in accordance with the construction schedules as required by the *Contract Documents* and will achieve *Substantial Performance* of the *Work* as stated in SSP4.
- 1.3 Time shall be of the essence of the *Contract*.

#### **2. CONTRACT DOCUMENTS**

- 2.1 The “*Contract Documents*” consist of the documents listed or referred to in Schedule 1, entitled “Schedule of Contract Documents”, which is attached and forms a part of this *Agreement*, and includes any and all additional and amending documents issued in accordance with the provisions of the *Contract Documents*. All of the *Contract Documents* shall constitute the entire *Contract* between the *Owner* and the *Contractor*.

- 2.2 The *Contract* supersedes all prior negotiations, representations or agreements, whether written or oral, and the *Contract* may be amended only in strict accordance with the provisions of the *Contract Documents*.

### 3. CONTRACT PRICE

- 3.1 The price for the *Work* (“*Contract Price*”) shall be the sum in Canadian dollars of the following:
- 3.1 a) the product of the actual quantities of the items of *Work*, listed in the *Schedule of Quantities and Prices*, which are incorporated into or made necessary by the *Work* and the unit prices listed in the *Schedule of Quantities and Prices*; plus
  - 3.1 b) all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus
  - 3.1 c) any adjustments, including any payments owing on account of *Changes* and agreed to *Extra Work*, approved in accordance with the provisions of the *Contract Documents*.
- 3.2 The *Contract Price* shall be the entire compensation owing to the *Contractor* for the *Work* and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the *Work*.

### 4. PAYMENT

- 4.1 Subject to applicable legislation and the provisions of the *Contract Documents*, the *Owner* shall make payments to the *Contractor*.
- 4.2 If the *Owner* fails to make payments to the *Contractor* as they become due in accordance with the terms of the *Contract Documents* then interest calculated at 2% per annum over the prime commercial lending rate of the Royal Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.

### 5. RIGHTS AND REMEDIES

- 5.1 The duties and obligations imposed by the *Contract Documents* and the rights and remedies available there under shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by *law*.
- 5.2 Except as specifically set out in the *Contract Documents*, no action or failure to act by the *Owner*, *Contract Administrator* or *Contractor* shall constitute a waiver of any of the parties’ rights or duties afforded under the *Contract*, nor shall any

such action or failure to act constitute an approval of or acquiescence in any breach under the *Contract*.

## 6. NOTICES

- 6.1 Communications among the *Owner*, the *Contract Administrator* and the *Contractor*, including all written notices required by the *Contract Documents*, may be delivered by hand, or by fax, or by pre-paid registered mail to the addresses as set out below:

The *Owner*:

City of Richmond  
6911 No. 3 Road, Richmond, BC, V6Y 2C1.  
Fax: 276-4197  
Attention: The Director of Engineering

The *Contractor*:

The *Contract Administrator*:

Mile Racic  
Project Manager  
Engineering Design and Construction  
City of Richmond  
6911 No. 3 Road, Richmond, BC, V6Y 2C1

- 6.2 A communication or notice that is addressed as above shall be considered to have been received:
- 6.2 a) immediately upon delivery, if delivered by hand;
  - 6.2 b) immediately upon transmission, if sent and received by fax; or
  - 6.2 c) after 5 Days from date of posting, if sent by registered mail.
- 6.3 The *Owner* or the *Contractor* may, at any time, change its address for notice by giving written notice to the other at the address then applicable. Similarly, if the *Contract Administrator* changes its address for notice, then the *Owner* will give or cause to be given written notice to the *Contractor*.
- 6.4 The sender of a notice by fax assumes all risk that the fax will be received properly, and the provisions of paragraph 12.5 of the Instructions to Tenderer apply to the sender.

**7. GENERAL**

- 7.1 This *Contract* shall be construed according to the laws of British Columbia.
- 7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.
- 7.3 The headings included in the *Contract Documents* are for convenience *only* and do not form part of this *Contract* and will not be used to interpret, define or limit the scope or intent of this *Contract* or any of the provisions of the *Contract Documents*.
- 7.4 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.
- 7.5 This agreement shall ensure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

IN WITNESS WHEREOF the parties hereto have caused these presents to be executed, the date and year above written.

SIGNED AND DELIVERED by Corporate  
Seal affixed in the presence of its duly  
authorized signing officers:

---

Name and Position  
I have the authority to bind this contract

---

Name and Position  
I have the authority to bind this contract

SIGNED AND DELIVERED by the City of  
Richmond's duly authorized signing  
officer(s):

---

Robert Gonzalez, P.Eng.  
General Manager, Engineering & Public Works

CITY OF RICHMOND
APPROVED As to content only
Dept. Head
APPROVED As to form
Purchasing
DATE OF COUNCIL APPROVAL (if applicable)  n/a

## **AGREEMENT**

### **Schedule 1**

#### **Schedule of Contract Documents**

The following is an exact and complete list of the *Contract Documents*, as referred to in Article 2.1 of the Agreement.

NOTE: The documents noted with “\*” are contained in the “Master Municipal Construction Documents – General Conditions, Specifications and Standard Detail Drawings”, Platinum Edition dated 2009, these sections of this publication are included in the *Contract Documents*:

1. Agreement, including all Schedules;
2. Addenda;
3. Supplementary General Conditions;
4. General Conditions\*;
5. Supplementary Specifications;
6. Specifications\*;
7. Drawings listed in Schedule 2 to the Agreement – “List of Drawings”;
8. Supplementary Detail Drawings;
9. Standard Detail Drawings;
10. Executed Form of Tender, including all Appendices;
11. Instructions to Tenderers – Part I;
12. Instructions to Tenderers – Part II\*;
13. All Other Contract Documents

## AGREEMENT

### Schedule 2

#### List of Contract Drawings

TITLE	DRAWING NO.	DATE	REVISION NO.
ROAD CONSTRUCTION WESTMINSTER HIGHWAY FROM GILLEY AVENUE TO FRASERSIDE GATE	Oc-1069 Sheets 1-2		
THOMPSON SANITARY SEWERS AREA 102 FRASER PUMP STATION FORCEMAIN OFFSET AT 23000 WESTMINSTER HIGHWAY	3554-08-0A		
PAVEMENT MARKINGS WESTMINSTER HIGHWAY FROM GILLEY AVENUE TO FRASERSIDE GATE	Ec-780		
INT #9850 TRAFFIC SIGNAL MODIFICATIONS @ WESTMINSTER HIGHWAY & GILLEY ROAD INTERSECTION CONSTRUCTION OF BASES & CONDUIT RUNS SA #07373998	Ec-707 Sheets 1-4		
COVER SHEET			
ROAD CONSTRUCTION WESTMINSTER HWY FROM FRASERSIDE GATE TO #23591 WESTMINSTER HWY	Oc-1073 Sheets 1-6		
PAVEMENT MARKINGS AND SIGNAGE WESTMINSTER HWY FROM FRASERSIDE GATE TO #23591 WESTMINSTER HWY	Ec-802 Sheets 1-3		



## **SECTION D**

### **DOCUMENTS SPECIFIC TO THIS CONTRACT**

## SECTION D

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## SUPPLEMENTARY GENERAL CONDITIONS (SGC)

The following conditions form part of the Contract and are supplementary to the MMCD General Conditions and Specifications. In the event of a direct conflict between the MMCD General Conditions and these Supplementary Specifications and Supplementary General Conditions, the Supplementary Specifications and Supplementary General Conditions take precedence. Notwithstanding this order of precedence, in the event of a conflict between or within any of the Contract Documents, the more stringent provisions shall apply with the intent that those which produce the highest quality with the highest level of safety, operational reliability, durability and performance, shall govern.

<b>Interpretation</b>	SGC 1	Replace the order of precedence in GC 2.2.4 (1) with the following: (a) Agreement, including all Schedules; (b) Addenda; (c) Supplementary General Conditions; (d) General Conditions; (e) Supplementary Specifications (SSP); (f) Drawings listed in Schedule 2 to the Agreement - "List of Drawings"; (g) City of Richmond Engineering Department, Supplementary Specifications and Detail Drawings, April 2011; (h) Specifications (i) Standard Detail Drawings; (j) Executed Form of Tender, including all Appendices; (k) Instructions to Tenderers - Part I; (l) Instructions to Tenderers - Part II; and (m) All Other Contract Documents.
<b>Notice of Contractor's Default</b>	SGC 2	Amend GC 15.2.1, line 3, to read as follows: "..... substantial degree the <i>Owner</i> may, upon certification by the <i>Contract Administrator</i> of such lack of performance by the <i>Contractor</i> , notify the <i>Contractor</i> in writing that the ....."
<b>Builders Lien Act (1997)</b>	SGC 3	(a) Replace existing GC 1.67.1 with the following: " <i>Substantial Performance</i> means the stage of completion when all <i>Work</i> , as certified by the <i>Contract Administrator</i> , is capable of completion or correction as defined in s.1(2) of the <i>Builder's Lien Act</i> ."  (b) Add the following as GC 3.5.2: "The <i>Contract Administrator</i> shall be the Payment Certifier responsible to payment certification under s.7 of the <i>Builder's Lien Act</i> ."

(c) Add the following to GC 4.11.1.;  
“The *Contractor* shall be the person responsible for payment certification for all subcontracts as required under the *Builder’s Lien Act*.”

<b>Rights-of-Way</b>	SGC 4	<p>The extent of rights-of-way to be provided by the <i>Owner</i> is shown on the Drawings.</p> <p>The <i>Contractor</i> shall be responsible for obtaining any other rights-of-way which he may require for borrowing areas, stockpile areas, temporary accesses and storage or other temporary facilities.</p>
<b>Ownership of Drawings and Models</b>	SGC 5	<p>All <i>Contract Documents</i> and copies thereof and all models furnished by the <i>Owner</i> are his property. They are not to be used on other work, and, with the exception of the signed set and one working set of <i>Contract Documents</i>, are to be returned to him on the completion of the <i>Work</i>. Any model furnished by the <i>Contractor</i> or the <i>Owner</i> is the property of the <i>Owner</i>.</p>
<b>Patent Fees</b>	SGC 6	<p>The <i>Contractor</i> shall pay all royalties and license fees and shall save the <i>Owner</i> harmless from loss on account of suits or claims for infringement of patents in the execution of the <i>Work</i>.</p>
<b>Progress of Work</b>	SGC 7	<p>The <i>Contractor</i> shall construct the <i>Work</i> in a continuous and an expeditious manner, weather permitting, to minimize any impact and inconvenience resulting from the work to the adjacent residents, business operators and or commuters.</p>
<b>Work Affecting Private Properties</b>	SGC 8	<p>The <i>Contractor</i> shall be responsible for reinstating other damages to private properties to their original conditions. Upon completion of the <i>Work</i> or the reinstatement, the <i>Contractor</i> shall deliver to the <i>Contract Administrator</i> releases signed by each owner of the private property on which work was performed to verify that the work has been completed to that owner’s satisfaction and that the owner has no claim upon the <i>Contractor</i> or the <i>Owner</i> as a result of the <i>Work</i>. In the event that the owner refuses or becomes uncooperative in signing the releases, the <i>Contract Administrator</i>, upon request of the <i>Contractor</i>, will determine if the work has been completed in a satisfactory manner.</p>
<b>Coordination with Private Utilities</b>	SGC 9	<p>The utilities owners shall bear the cost of such permanent support, relocation, removal or reconstruction of their utilities as necessitated to accommodate the</p>

*Work.* The *Contractor* shall co-ordinate and schedule his work to accommodate such work by the utilities owners. No compensation will be made to the *Contractor* for time and costs associated with such delays which could reasonably be expected for the type of work under this Contract and these associated costs shall be included in the unit price rates and lump sum prices for the various items of work to be performed under this *Contract*. In the event that such work by the utilities owners causes the *Contractor* to incur prolonged delays which were beyond what could be reasonably expected for the type of work under this *Contract*, the *Contractor* shall serve notice to request compensation and co-operate to mitigate the additional costs involved. Reasonable compensation to time and such direct additional costs as certified by *the Contract Administrator* will be treated as a *Change* and no compensation will be considered for delay occurred prior to receiving such notice.

<b>Engineer/ Contract Administrator</b>	SGC 10	All references to “Engineer” in contract documents shall be read as Contract Administrator
<b>Quality Control</b>	SGC 11	At a minimum, the quality control on the project is to be in accordance with the City of Richmond Quality Control program.

[http://www.richmond.ca/\\_shared/assets/AmendmentstoQualityControl31957.pdf](http://www.richmond.ca/_shared/assets/AmendmentstoQualityControl31957.pdf)

## SUPPLEMENTARY SPECIFICATIONS (SSP)

Any work called for in the Specifications or shown or implied on the drawings or necessary for the completion of the work called for in the Specifications, which is not specifically listed as a separate item in the Schedule, will be deemed incidental to the general purpose of the Contract and no separate payment will be made on account of any such work, but the cost of any such work will be included in the Tendered unit prices or lump sum prices for the various items of work appearing in the Schedule.

### Measurement of and Payment for the Work

SSP 1 The *Contractor* is required, as part of his obligation under the *Contract*, to perform the various incidentals including bonds and insurances, mobilization and de-mobilization, and other services and activities described in the *Contract Documents* which may not specifically be covered by items in the *Schedule of Quantities and Prices*. Payment for such incidentals, services, activities and work shall deem to be included in the unit and other prices Tendered for the items in the *Schedule of Quantities and Prices*.

All clauses entitled "Measurement for Payment" in all Sections in the Specifications under the Master Municipal Construction Documents are deleted.

Measurement of and Payment for the Works shall be made in accordance with the document entitled "Contract – T.4992 Measurement of and Payment for Work" appended to this section of Supplementary Specifications. The item reference for each sub-heading refers to the item bearing the same number in the *Schedule of Quantities and Prices*.

### Locations of the Works

SSP 2 The locations of the *Work* under this *Contract* are given in Clause 1.1 of the Instructions to Tenderers, Part I.

### Scope of Work

SSP 3 The principal scope of the *Work* under this *Contract* is given in Clause 1.1 of the Instructions to Tenderers, Part I and such other *Additional Work* and *Extra Work*, as defined in the *Contract Documents*.

### Contract Time

SSP 4 The *Work* under this *Contract* shall be completed no later than **February 28, 2014** unless a later date is mutually agreed upon. Every effort should be made by the *Contractor* to minimize the contract time to reduce any impact and inconvenience resulting from the work to the adjacent residents, business operators and or commuters. Once the *Contractor* commences the work, they shall proceed continuously, with meaningful and productive work as determined solely by the Engineer, until Substantial Completion and with rectification of any deficiencies identified. The contract schedule provided by the *Contractor* shall be in

the form of a produced Gantt Chart, MS Project or equivalent software package.

**As Constructed Information**

SSP 5

The *Contractor* shall be responsible to complete and submit, to the City of Richmond, a marked up set of “As Constructed” drawings upon final completion of the civil works. The “As Constructed” drawings shall be kept up to date and be available to the *Contract Administrator* at all times.

The “As Constructed” drawings shall be marked up in red pencil and clearly indicate all revisions to the proposed civil design, profile layout and any conflicting utilities. Completion of the “As Constructed” drawings is included in the contract price. An amount of ten thousand dollars (\$10,000) will be withheld from payment to the *Contractor* until the information is provided to the satisfaction of the *Contract Administrator*.

**Other Utilities**

SSP 6

City of Richmond recommends hand digging in the vicinity of all existing utilities to avoid any damage, and assumes no responsibility for any damages caused to other utilities or structures from civil work installation for this project. Any such damage shall be repaired at the *Contractor’s* expense.

The *Contractor* shall ensure that all utilities are properly supported and protected from damage during the work.

The *Contractor* is responsible for obtaining all applicable permits from private utility companies or other agencies that are required to complete construction.

**Damage to Existing Services, Utilities, Etc.**

SSP 7

The *Contractor* is responsible for any advance coordination to alter existing city services. The *Contractor* is responsible for any required pre-locating efforts, coordinating activities and waiting time that may be required for the City crew to respond. The *Contractor* is responsible to sufficiently expose the city service to be altered to allow the alteration work to take place. The *Contractor* shall in no way restrict the activities of the City crew when alterations are being carried out. Any alterations which are required to be done will be at the City’s expense unless specified otherwise in the Contract Specifications or Contract Drawings or as determined by the *Contract Administrator*.

The *Contractor* is responsible for any advance coordination of alterations of the existing utilities with the respective utilities owner. The *Contractor* is responsible for any pre-locating efforts, coordinating activities and waiting time that may be required for the utility owner’s crew to respond. The *Contractor* is responsible to sufficiently expose the utility to be altered to



allow the alteration work to take place. The *Contractor* shall in no way restrict the activities of the utility owner's crew when alterations are being carried out. Any alteration which is required to be done will be at the utility owner's expense unless specified otherwise in the Contract Specifications or Contract Drawings or as determined by the Contract Administrator.

**Alterations of Existing Services, Utilities, Etc.**

SSP 8

The *Contractor* is responsible for any advance coordination to alter existing city services. The *Contractor* is responsible for any required pre-locating efforts, coordinating activities and waiting time that may be required for the City crew to respond. The *Contractor* is responsible to sufficiently expose the city service to be altered to allow the alteration work to take place. The *Contractor* shall in no way restrict the activities of the City crew when alterations are being carried out. Any alterations which are required to be done will be at the City's expense unless specified otherwise in the Contract Specifications or Contract Drawings or as determined by the Contract Administrator.

The *Contractor* is responsible for any advance coordination of alterations of the existing private utilities with the respective utilities owner. The *Contractor* is responsible for any pre-locating efforts, coordinating activities and waiting time that may be required for the utility owner's crew to respond. The *Contractor* is responsible to sufficiently expose the utility to be altered to allow the alteration work to take place. The *Contractor* shall in no way restrict the activities of the utility owner's crew when alterations are being carried out. Any alterations which are required to be done will be at the utility owner's expense unless specified otherwise in the Contract Specifications or Contract Drawings or as determined by the Contract Administrator.

**Clean Up**

SSP 9

The *Contractor* shall clean up the site in accordance with GC 4.14. If the *Contractor* vacates any part of the site as being no longer required by him for the purposes of constructing the *Work*, then, if the *Contract Administrator* so orders, such part of the site shall be cleaned up in accordance with this section in advances of cleaning up other portions of the site which are still occupied by the *Contractor*.

**Attendance**

SSP 10

The *Contractor* shall provide, at his own expense, any competent labour required by the Contract Administrator, or the Contract Administrator's field representatives, in connection with the survey, measurement, checking, inspection and testing of the *Work*. This labour shall be made available upon request during normal working hours.

**Setting Out** SSP 11 Should the *Contractor* discover or suspect any error in the original points, lines or bench-marks or in those set out by himself, he shall at once discontinue work based on such points, lines or bench-marks, draw the *Contract Administrator's* attention to the same and not resume the work affected until such error has been investigated and, if necessary, rectified.

The *Contractor* shall nevertheless afford the *Contract Administrator*, at the *Contract Administrator's* request, all facilities necessary for checking of the setting-out of the *Work* well in advance of construction. The *Contract Administrator* does not set-out or position the *Work*.

The *Owner* shall provide the *Contractor* with three survey control points at the *Place of Work*, and relative coordinates of the major portions of the *Work*. The *Contract Administrator* may conduct survey checks of the *Work* at his discretion. The *Contractor* shall provide a survey assistant, at the *Contract Administrator's* request, for such survey checks. The *Contractor* shall protect and preserve such survey control points for so long as they required for the *Work* and if any of them must be replaced because they are disturbed or destroyed by the *Contractor*, then the *Contractor* shall pay the costs of such replacement.

**Work Affecting Local Businesses** SSP 12 The *Contractor* will be responsible for co-ordinating with local businesses (including agricultural operations) within the area to ensure work is done in a safe and appropriate manner and that disruptions to local businesses and agricultural operations are minimized.

**Local Signage** SSP 13 The *Contractor* is responsible for providing local construction signage to notify the public within the work area.

**Safety** SSP 14 The *Contractor* shall be considered *Prime Contractor* for this project and shall comply with all applicable safety-related legislation and regulation. The *Contractor's* employee in charge of the work shall assume the responsibilities of Site Safety Coordinator for the duration of work on the contract.

The work shall be performed in accordance with all WCB regulations. In particular, WCB requirements for shoring, for work in proximity to power lines and for entry to and work in confined spaces shall be met at all times.

The *Contractor* shall be responsible for the safety of all persons and property on or about the Project and for ensuring that the work is performed in accordance with all applicable safety

## requirements

The *Contractor* shall develop, maintain and supervise for the duration of the work a comprehensive safety program that will effectively incorporate and implement all required safety precautions. The program shall, as a minimum, respond fully to the requirements of all applicable laws, ordinances, rules, regulations and orders, and general construction practices for the safety of persons or property, including without limitation any general safety rules and regulations of the Owner and any Worker's Compensation or Occupational Health and Safety legislation or regulations that may be applicable (e.g. WHMIS). The *Contractor* shall provide a copy of the safety program to the Contract Administrator prior to the commencement of construction

### 1.0 Safety Officer

Designate a safety officer who shall be qualified and authorized to supervise and enforce compliance with the safety program.

### 2.0 Safety Meetings

Arrange regular safety meetings at no expense to the Owner. The *Contractor* shall record the minutes of such meetings and maintain a complete file for review by the appropriate authorities where required

### 3.0 Safety Equipment

Supply and maintain, at no expense to the Owner, at his office or other well-known place at the job site, safety equipment necessary to protect the workers and general public against accident or injury as prescribed by the governing authorities.

### 4.0 Fire Prevention and Protection

Perform all work in a fire-safe manner. Comply with all applicable governmental requirements and, without limiting the generality of the foregoing, shall supply and maintain at the jobsite adequate and proper firefighting equipment.

### 5.0 Accidents

Except as otherwise agreed to in the Contract, supply and maintain all articles necessary for giving first-aid to any person who may be injured on the job-site and shall establish an emergency procedure for the immediate removal of any injured person to a hospital or a doctor's care in accordance with

applicable legislative and regulatory requirements.

Promptly report in writing to the Contract Administrator all accidents of any sort arising out of or in connection with the performance of the work whether on or adjacent to the jobsite, giving full details and statements of witnesses. If death or serious injuries or damages are caused, the accident shall be promptly reported to the Contract Administrator by telephone or fax in addition to any reporting required under provincial law and regulations.

If a claim is made by anyone against the *Contractor* or any *Subcontractor* on account of any accident, the *Contractor* shall promptly report in writing to the Contract Administrator, giving full details of the claim.

#### 6.0 Confined Space

At all times employ safety procedures required by Worker's Compensation Board. Where necessary, training will be required in, but not limited to, the following areas for this project:

- Confined Space Rescue.
- Confined Space Entry.
- Ventilation.
- Atmospheric Monitoring.
- Self-Contained Breathing Apparatus.
- Personal Protective Equipment.

#### 7.0 Material Safety Data Sheet

Fully comply with the Material Safety Data Sheet (MSDS) for the particular chemicals being used in the preparation of the CIPP repair material. In particular where dictated, personnel safety equipment shall be worn when mixing the chemical resins or when physical contact with the chemical material is a possibility.

Payment for all work performed under this Section will be incidental to payment for work described in other Sections.

#### **Soils information** SSP 15

The *Contractor* shall be responsible for any test holes and the evaluation of the soil conditions as required by him for his own satisfaction.

The *Contractor* is advised that care must be taken when carrying out construction works in all areas in Richmond so as not to cause a pumping condition in the soil.

A geotechnical investigation completed by Braun Geotechnical

Ltd. (December 4, 2012) is provided in Section G for reference only.

**Iron Pins,  
Monuments,  
Bench-Marks and  
Stakes**

SSP 16 The *Contractor* shall take adequate precautions to protect all property stakes, monuments and iron pins from being removed or displaced as a result of his operations, by placing empty drums over the stakes or by other approved means during the progress of the *Work*. The *Contractor* shall pay all costs for re-establishing all stakes, monuments and iron pins removed or displaced on account of the *Contractor's* act or neglect. All stakes, monuments and iron pins so removed shall be replaced by a B.C. Land Surveyor engaged by the *Contractor* and approved by the *Contract Administrator*

**Noise Control**

SSP 17 The *Contractor* shall provide some adequate means of controlling noise on the project, especially in the use of wellpointing and dewatering equipment during the entire length of time required to carry out the *Work*. Control of noise on the project shall apply especially between 2000 hours and 0700 hours and on Sundays and statutory holidays.

**Authority**

SSP 18 Replace GC 3.2.2 with the following:

“Nothing contained in the *Contract Documents* shall create any contractual relationship or other relationship recognized by law between the *Contract Administrator* and the *Contractor*, *SubContractors*, *suppliers*, or their agents, employees or other persons performing any of the *Work*.”

**Inspections**

SSP 19 Neither acceptance of the *Work* by the *Contract Administrator*, the *Site Inspector* or the *Owner* nor any failure by the *Contract Administrator*, the *Site Inspector* or the *Owner* to identify, observe or warn of defective *Work* or any deficiency in the *Work* shall relieve the *Contractor* from the sole responsibility for rectifying such defect or deficiency at the *Contractor's* sole cost, even where such failure to identify, observe or warn is negligent.

**Hours of Work**

SSP 20 The *Contractor* shall schedule the performance of the *Work*, *subject to subsection (A) below* between the hours of 0700 and 2000 hours, Monday through Friday and between the hours of 1000 and 2000 hours, on Saturday except as noted in SSP 22. No work will be permitted on Sundays or at times outside the hours noted above except by special permission of the *Contract Administrator*,

*Subsection (A)*

*The hours of work may be adjusted by the City Transportation*

*Division for any work undertaken on roadways where traffic control will create a lane volume greater than 400 vehicles per hour, night work may be required. Traffic volumes are available on the City website [www.richmond.ca](http://www.richmond.ca). Contact the Traffic Operation Division to confirm hours of work prior to submitting bid*

In the event of City employees being appointed as Contract Administrator and Site Inspectors under the Contract, their working hours will conform to the City Working hours, Monday through Friday, 0800 hours to 1600 hours. If the *Contractor* schedules his work outside City Working Hours, he will be required to pay for the Site Inspectors in accordance with City rates of overtime given below. For site work outside City Working Hours, the Site Inspectors will be dedicated to this Contract unless they are attending another construction project during the same period under which circumstance the overtime charges will be pro-rated according to time engaged in the respective construction projects.

For the purposes of calculating the value of the monies which will be deducted from payments to the *Contractor* for overtime hours worked by City employees performing the duties of Site Inspectors, the following rates, in Canadian Dollars, will apply:

Inspector (City)	\$100.00
Inspector (consultant)	\$110.00
Surveyor	\$95.00
Survey Assistant	\$70.00

In the event of the Contract Administrator and his Site Inspectors being personnel other than City employees, they will perform their duties under this Contract for eight (8) hours during each. If the *Contractor* schedules his work for more than eight (8) hours each Day, he will be required to reimburse the Contract Administrator and his Site Inspectors the actual overtime charges under contract with the City for the hours of overtime work they performed.

**Traffic Control** SSP 21 The *Contractor* is responsible for the preparation and submission of a detailed Traffic Management Plan, which must be approved by the City of Richmond prior to starting construction. This management plan must address lane closure plans and the how the same will be handled at all intersections.

The City of Richmond requirements for maintaining traffic flow and the extent and timing of street lane closures are:

### **.1 Construction Traffic and Parking Management Plan**

A comprehensive construction traffic and parking management plan prepared by the contractor, including their primary contact person's name and phone number accessible 24/7, to be provided to the City for review and approval.

### **.2 Maintaining Traffic Flow and Access**

- .1 A minimum of one lane traffic shall be maintained in each direction at all times during construction times; all lanes must be open to traffic outside of the authorized construction times. Any road closure requests must be submitted with a detour route plan two weeks in advance to the authority having jurisdiction. If the minimum lane requirements cannot be maintained, night work shall be required;
- .2 Safe pedestrian and cyclist passage and access to adjacent properties shall be maintained at all times.
- .3 All vehicular access to and from businesses and residents are to be maintained or alternative access to be provided.
- .4 Coast Mountain Bus Company (778-593-5774) must be consulted prior to start of construction and shall be advised at least 72 hours in advance of any works that will occur in Bus Stops or Bus Zones.
- .5 Existing traffic control devices must be respected at all times (only a peace officer has the authority to override intersection traffic signals).
- .6 Road closures and traffic disruptions to be reported in 72 hours in advance to: Richmond Fire Rescue, E-Comm, BC Ambulance Service and Parking Enforcement. (Distribution list available from Traffic Operations)
- .7 Development of a plan to address businesses loading and unloading requirements during construction should be developed where any road or lane closures are planned.
- .8 **Without exception, access and egress for No. 5 Firehall, 22451 Westminster Hwy, must be maintained at all times.**

### **.3 Parking**

- .1 Off-street parking spaces shall be provided for all workers associated to the construction. Consideration should be given to the use of a shuttle to transport

workers to and from remote parking facilities.

- .2 There is to be no parking of any vehicles on the roadway (including within the section of lane that is closed).

#### **.4 Loading Activities**

Designated Construction Loading zones to be reviewed and approved by the City for construction loading activities. Construction Loading Zones shall be limited for loading or unloading of materials only, not for the parking of trades' or workers' vehicles.

#### **.5 Traffic Control**

- .1 Work zone traffic controls shall be in accordance with the "Traffic Control Manual for Work on Roadways" as published by the Highway Engineering Branch, Provincial Ministry of Transportation (per Richmond Traffic Bylaw, Pt. V., Sect. 18.4).
- .2 Advance warning signs of the roadwork dates and restrictions must be installed three working days prior to the start of construction. Contact Traffic Operations (604-276-4388) to obtain the layout of the sign(s) and the installation locations a minimum of two weeks prior to the start of the project.
- .3 In addition to advance warning signage, there may be a need for changeable message boards (CMS).

#### **.6 Hours of Work**

- .1 No roadwork shall be permitted on nor material or equipment left on a roadway prior to 0700 hours or after 2000 hours of any day, unless otherwise approved by the City upon review of a rationale, such as substantial reductions in construction duration, submitted by the contractor.
- .2 Night works occurring between 8:00 PM – 7:00 AM require the application for and granting of a variance as issued by Engineering Inspections. Such application shall be made to the attention of Wasim Memon [Wmemon@richmond.ca](mailto:Wmemon@richmond.ca) and Jaime Villaluz [Jvillaluz@richmond.ca](mailto:Jvillaluz@richmond.ca). A sample variance application may be obtained by contacting Cameron Robertson [Crobertson@richmond.ca](mailto:Crobertson@richmond.ca). The noise variance application process requires a minimum of 2 weeks advance notification;
- .3 A noise variance for night work must be obtained from



City Engineering Department a minimum of two weeks prior to the start of the project. For noise restrictions refer to City of Richmond Noise Regulation Bylaw No. 8856

[http://www.richmond.ca/\\_\\_shared/assets/Bylaw\\_8856\\_0227201232440.pdf](http://www.richmond.ca/__shared/assets/Bylaw_8856_0227201232440.pdf)

## **.7 Roadway Protection**

- .1 No roadway excavation shall be left open. Any roadway excavation will be back filled. At the discretion of the City Inspector steel plates may be placed to cover the excavation to allow for the safe passage of traffic, pedestrians and cyclists provided the plates are engineering to withstand appropriate loading encountered on a highway; they are pinned securely to the roadway; and asphalt ramping is placed around the plates at approximately 4:1 slope (0.5m) to reduce transfer of vibration. In no case shall road plating exceed 12.0 metres in length.
- .2 At the approaches to signalized intersections extreme care is to be taken to avoid damage to traffic conduits and conductors including vehicle detector loops and leads. Further information or any arrangements required due to unavoidable conflicts are to be directed to the City Traffic Signal Control Centre (604-247-4616).
- .3 The City Traffic Signal Control Centre is to be advised if any vehicles or equipment are positioned over the detector loops while work proceeds. Temporary reprogramming of the traffic controller may be required.
- .4 Traffic operational assistance and / or enquiries to be directed to City Traffic Operations (604-276-4388).

## **.8 Notification**

Key stakeholders for notification of construction should include all businesses along No. 6 Road that receive transport truck traffic on a regular basis including but not limited to Ocean Spray of Canada and Greenacres Golf Course.

### **Project Record Documents**

SSP 22 The *Contractor* shall keep a daily photographic record of its work on private property and provide a weekly copy thereof to the Contract Administrator.

The *Contractor* shall not take instruction from the private property owner regarding modification to design and construction. All instruction regarding private properties work

and changes will be given by the City through the Contract Administrator.

Private arrangements between the *Contractor* and private property owners will be completely independent and separate from this project.

Damages caused to private property by the *Contractor* will be repaired at the City's expense and will be debited back to the *Contractor* on its monthly payment certificate.

**Environmental Protection**

SSP 23

Upon award of the contract and prior to start of construction, the *Contractor* is responsible for coordinating with the City hired environmental consultant to ensure their proposed construction method is compliant with all regulatory agency requirements and City environmental objectives.

All measures taken to reach compliance with environmental permits, regulatory agency requirements and City environmental objectives will be at the cost of the *Contractor*.

Any required regulatory permit fees and fish salvage will be at the cost of the City. Fish salvage will be conducted by the City hired environmental consultant.

Other general environmental sensitivities of the site are:

- potential for sediment laden water to be released from worksite.
- potential for spill of oil fuel or other hazardous substances.
- potential for iron-rich water.
- potential for contaminated soils.
- potential for loss of fish and fish habitat.
- potential for disturbance of riparian habitat.

The *Contractor* shall control surface drainage during construction to the satisfaction of authorities having jurisdiction by using silt fences or other methods. The *Contractor* shall supply a detailed siltation control and environmental mitigation plan prior to construction.

General required best management practices are summarized below.

.1 Excavations

BEFORE starting excavation, check to see that no other subsurface facilities are present.

Minimize damage to trees or shrubs, particularly the roots of large trees (Consult Contract Administrator). Place excavated soil away from drains and protect from eroding. For example, cover with tarp or plastic. Prevent runoff from adjacent land from entering worksite. Pump silt laden water from excavation to well-vegetated land distant from other drainages or to licensed tanker truck for off-site disposal. Do not pump discoloured water to storm sewer or road surface. Ensure that soil not returned to the excavation is left in stable, non-eroding condition consistent with surrounding land. Ensure site restoration by contouring backfilled excavations to blend in with adjacent landscape. Seed with appropriate reclamation seed mix

## .2 Spill Preparedness and Response

Ensure there is a spill kit on-site at all times. Avoid spills to water by parking machinery away from drains, or blocking them with a temporary mat if vehicle or equipment must be used near drains leading to storm outlets.

In the event of a spill, follow established spill response procedures:

**Ensure Safety** – to employees, public; use protective equipment.

**Stop the Flow** – act quickly; close valves; plug leaks.

**Secure the Area** – limit access; move non-essential people; eliminate ignition sources; test PCB content.

**Contain the Spill** – block drains; prevent oil entering waterways; use Spill Kit sorbents, earth, and sod.

**Notify/Report** – notify PEP if quantities exceed threshold (check BC Hydro information sheet or contact the Contract Administrator). Notify contract administrator/supervisor as soon as possible. Complete spill report and submit to Contract Administrator.

**Clean Up** – place clean up material in leak proof, sealed, labelled containers; protect from weather; store in secure location.

## .3 Concrete Work

Ensure runoff from freshly poured concrete does not enter ditch or other watercourses. Concrete truck or mixer wash water must not be permitted to enter a watercourse. Dispose of it in pit or an approved off-site location.

- Handling of Excavated Materials** SSP 24 The *Contractor* shall remove all earthworks, concrete, asphalt and landscaping in accordance with the Drawings and Specifications.
- Soil and earth material to be disposed offsite shall be disposed at a location approved by the contract administrator.
- Any temporary stockpiling of material shall be such as to avoid impeding the flow of surface water from adjacent land or endangering channel stability.
- Disposal Tickets** SSP 25 The Contract shall provide the Contract Administrator with tickets from any disposal/dump site(s) used. The Contract Administrator may inspect these site(s).
- Dewatering and Drainage** SSP 26 The Contractor shall bear all costs in connection with the effective dewatering of excavations and all other pumping and drainage necessary for the proper construction of the Work, including keeping the subgrade, pipes, structures and trenches free of undesirable accumulations of seepage, subsoil water, surface water or rainwater.
- No groundwater shall be permitted to discharge into the drainage system unless they meet Federal and Provincial requirements. Discharge of groundwater into sanitary system will require testing and approval from Greater Vancouver Storm and Sanitary District.
- Costs associated with dewatering including but not limited to pre-testing & monitoring of the ground water for dewatering purposes shall be included in the pay items provided. The City will bear the costs associated with permitting.
- Bypass Setup** SSP 27 Work within the Owner's drainage network may require the setup of a bypass system. All costs associated with the setup, maintenance and operation of any bypass systems will be the responsibility of the *Contractor*.
- Tree Protection** SSP 28 The *Contractor* shall follow all requirements of City Bylaw No.8057 "Tree Protection". Prior to commencing the Work the Contractor shall hire an arborist to complete an assessment and prepare report of the affected tree types and impact of the Work (excavation and working space) on the individual trees. The *Contractor's* Arborist should work with the City's Arborist to prepare the report for *Contractor* Administrator's review and approval.

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## **MEASUREMENT OF AND PAYMENT FOR WORK**

### **1. Westminster Hwy and Gilley Rd Intersection Improvements**

#### **1.1. SECTION A - GENERAL**

Any work called for in the Specifications or shown or implied on the drawings or necessary for the completion of the work called for in the Specifications, which is not specifically listed as a separate item in the Schedule, will be deemed incidental to the general purpose of the Contract and no separate payment will be made on account of any such work, but the cost of any such work will be included in the Tendered unit prices or lump sum prices for the various items of work appearing in the Schedule.

#### **Mobilization and Demobilization – Item A-1**

Payment for mobilization shall be made at 40% of the Contractor's lump sum tendered amount on the first Progress Payment and the remaining 60% shall be made at the Progress Payment following the date of Substantial Completion.

The Contractor's Mobilization and Demobilization tendered amount shall include the costs associated with mobilizing manpower, materials and equipment onsite and offsite, and shall also include final clean up of the site.

The lump sum price tendered shall not exceed 3% of the Contractor's total tendered amount.

#### **1.2. SECTION B – ROAD WORKS**

#### **Clearing, Grubbing and Removal – Item B-1**

Payment for this item will be made at the lump sum price tendered as shown on the Schedule of Quantities and Prices for clearing completed to the satisfaction of the Contract Administrator. Payment will be made at each progress payment based on a percentage of the total work completed.

The lump sum price tendered shall include but not be limited to removal and disposal of shrubs, trees or hedges shown on the contract drawings and all works included in MMCD Section 31 11 01 as being within the road allowance or working easement area. The removed material shall be disposed of offsite by the Contractor to the Contract Administrator's satisfaction. The Contractor shall be fully responsible for all reinstatement costs if he removes or damages fences, trees, shrubs, or hedges not authorized for removal. No extra payment will be made for removing or alternately, for protecting fences, shrubs trees or hedges. Only where permitted by the Contract Administrator, cleared plant material may be placed under sub-grade fill.

**Supply and Install Concrete Sidewalk incl. 2 Wheelchair Ramps as per STD DWG 4-12-SD – Item B-2**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not limited to survey layout, excavation, disposal, backfill, and any other materials, labour and equipment required to bring the area to grade and includes minimum 100mm depth of granular base under the full area of the concrete and any work as indicated in the contract document and drawings.

Measurement will be the length along centreline of sidewalk or lighting strip, times the width actually constructed and approved.

**Supply and Install Traffic Island Concrete Infill – Item B-3**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to survey layout, formwork, supply and placement of concrete infill as shown on the contract drawings and any other works as indicated in the contract document and drawings.

Measurement will be the area of the island from the back of curb.

**Supply and Install Concrete Barrier Curb and Gutter – Item B-4**

Payment for this item will be made at the unit price tendered per linear metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to survey layout, formwork, supply and placement of concrete and all other labour and materials required to install the curb and gutter to the dimensions and limits indicated on the contract drawings.

The unit price tendered shall also include but not be limited to the survey layout, supply, placement and compaction and all other labour and materials required for the installation of the 150mm depth of clear crush gravel and 115mm depth of granular base beneath the curb and gutter to the dimensions and limits as indicated in the contract document and drawings.

Measurement will be made along the top back of curb.

**Supply and Install Extruded Concrete Curb (w/ mill key and painted yellow) – Item B-5**

Payment for this item will be made at the unit price tendered per linear metre of curb placed as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to survey layout, formwork if necessary, supply, placement and painting of extruded concrete curb as indicated in the contract document and drawings.

Measurement will be made along the top back of curb.

**Supply and Install Extruded Concrete Median Curb c/w Key Joint – Item B-6**

Payment for this item will be made at the unit price tendered per linear metre as shown on the Schedule of Quantities and Prices.

The unit price tendered for extruded concrete curb shall include but not be limited to survey layout, formwork if necessary, supply and placement of extruded concrete curb as shown on the contract drawings and any other works as indicated in the contract document and drawings.

Measurement will be made along the top back of curb.

**Supply and Install Roadway and Pathway Base Structure – Item B-7 a) and b)**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to survey layout, saw cutting of native material, excavation, transportation and disposal at an approved offsite location, dump fees, supply, delivery, placing, spreading, levelling, watering, drying, compacting and grading plus re-excavation and backfill where soft spots develop, temporary erosion control measures, dust control measures all in conformance with these specifications and to the satisfaction of the Contract Administrator and any other materials, equipment and labour required to complete the work as specified in the Contract Documents and Drawings.

Measurement for granular base and sub-base for each specified thickness will be made for the actual area placed.

**Supply and Install Asphalt Pavement – Roadway (50mm MMCD Upper Course #1) – Item B-8 a)**

Payment for this item will be made at the unit price tendered per square meter as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing and compacting of the required depth asphalt and all other materials, equipment, and labour required to install a 40mm mill and overlay on the existing asphalt to form a lap joint with the new asphalt as specified in the contract drawings and documents.

Measurement will be made by the actual area of asphalt placed.



**Supply and Install Asphalt Pavement – Roadway (100mm MMCD Lower Course #2) – Item B-8 b)**

Payment for this item will be made at the unit price tendered per square meter as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing and compacting of the asphalt and all other materials, equipment and labour required to complete the works as specified in the Contract Documents and Drawings.

Measurement will be by the area of asphalt placed.

**Supply and Install Asphalt Pavement – Walkway (35mm MMCD Lower Course #2) – Item B-8 c)**

Payment for this item will be made at the unit price tendered per square meter as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing and compacting of the required depth asphalt and all other materials, equipment, and labour required to install a 40mm mill and overlay on the existing asphalt to form a lap joint with the new asphalt as specified in the contract drawings and documents.

Measurement will be made by the area of asphalt placed.

**Supply and Install Asphalt Pavement – Walkway (50mm MMCD Lower Course #2) – Item B-8 d)**

Payment for this item will be made at the unit price tendered per square meter as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing and compacting of the asphalt and all other materials, equipment and labour required to complete the works as specified in the Contract Documents and Drawings.

Measurement will be by the area of asphalt placed.

**Supply and Install Hand Rails as per MMCD 32 31 13 – Item B-9**

Payment for this item will be made at the unit price tendered per linear meter as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, and installation of a 1.2m handrail inside the Allan Block retaining wall and all other materials, equipment and labour required to complete the works as specified in the contract drawings and documents.

Measurement will be made by the linear meter of hand rail installed.

**Supply and Install Top Soil and Finish Grading (incl. slope fill material as required) – Item B-10**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to grading and shaping of the area to be landscaped, supply and placement of all fill required below the area of landscaping and any other materials, labour and equipment required to complete the works as indicated in the Contract Documents and Drawings. A minimum of 150 mm of approved topsoil to be carried out to the satisfaction of the Contract Administrator, or alternatively, a minimum of 90 mm of approved topsoil and seed will suffice if it is placed on a 150 mm to 200 mm bed of approved locally excavated materials.

Measurement will be made by the actual area of top soil and finish grading constructed.

**Supply and Install Hydraulic Seeding– Item B-11**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to all materials, labour and equipment required to complete the works as indicated in the Contract Documents and Drawings.

Measurement will be made by the actual area of the hydraulic seeding placed.

**Supply and Install Pavement Markings (Thermoplastic) incl. Paint Line Eradication – Item B-12**

Payment for this item will be made at the lump sum price tendered as shown on the Schedule of Quantities and Prices. Payment will be made at the completion of total work subject to inspection and approval by the Contract Administrator.

The lump sum price tendered shall include but not be limited to the removal of existing road markings, supply and placement of linear thermoplastic pavement markings and any other materials, equipment and labour required to complete the work as detailed in the Contract Documents and Drawings.

**Install New Signage and Relocate Existing Signs as Required – Item B-13**

Payment for this item will be made at the lump sum price tendered as shown on the Schedule of Quantities and Prices. Payment will be made at the completion of total work subject to inspection and approval by the Contract Administrator.

The lump sum price tendered shall include but not be limited to removal of existing signage, relocation of existing signage, supply and installation of new signage and any other materials, equipment and labour required to complete the work as shown on the Contract Drawings and Documents, and as defined in the latest versions of the Manual of Uniform

Traffic Control Devices and Standard Specifications for Highway Construction Section 635 – Electrical and Signage.

#### **Supply and Placement of Preload – Item B-14**

Payment for this item will be made at the lump sum price tendered as shown on the Schedule of Quantities and Prices. Payment will be made at the completion of total work subject to inspection and approval by the Contract Administrator.

The lump sum price tendered shall include but not be limited to removal of near surface vegetation, organic soils, water softened soils and other deleterious materials to expose the underlying silt, temporary de-watering as required, placement of fill, settlement monitoring, removal of preload for sub-base preparation and any other materials, equipment and labour required to complete the work as shown on the Contract Documents and Drawings.

### **1.3. SECTION C – ELETRICAL WORKS**

#### **Traffic Signal Modifications and Improvement – Item C-1**

Payment for this item will be made at the lump sum price tendered as shown on the Schedule of Quantities and Prices.

The lump sum price tendered shall include but not be limited to all materials, labour, and equipment required to complete all works as noted on the Contract Documents and Drawings.

### **1.4. SECTION D – SANITARY/STORM WORKS**

#### **Supply and Install 150mm diameter PVC Sanitary Forcemain – Item D-1**

Payment for this item will be made at unit price tendered as shown on the Schedule of Quantities and Prices for the supply and installation of each metre of the size pipe to the depth as specified in the Contract Documents and Drawings.

The unit price tendered shall include but not be limited to all excavation; survey layout; traffic control; the disposal of all excavated materials; the supply and installation of the pipe, fittings and caps; imported backfill; bypass set-up where required; connection to existing manhole; compaction and surface restoration; cleaning, flushing, video inspection and all other materials, labour and equipment to complete the works as specified in the Contract Documents and Drawings.

The unit price tendered shall also include but not be limited to plugging the ends of the abandoned forcemain, dewatering and shoring as required, supplying and installation of corrosion protection on all buried metal items, and temporary pumping and disposal of wastewater effluent from the existing forcemain where required. Disposal method of wastewater effluent to be approved by Contract Administrator prior to commencement of the tie-in works.

The unit price tendered shall also include

Measurement will be made by the horizontal length of pipe installed.

**Supply and Install 150mm diameter PVC Lateral – Item D-2**

Payment for this item will be made at unit price tendered as shown on the Schedule of Quantities and Prices for the supply and installation of each metre of the size pipe to the depth as specified in the Contract Documents and Drawings.

The unit price tendered shall include all excavation, survey layout, traffic control, the disposal of all excavated materials, the supply and installation of the pipe, fittings and caps, imported backfill, bypass set-up where required, connection to existing storm infrastructure, video inspection, compaction and surface restoration as and all other materials, labour and equipment to complete the works as specified in the Contract Documents and Drawings.

Measurement will be made by the horizontal length of lateral installed.

**Supply and Install Standard Top Inlet Catch Basin – Item D3**

Payment for this item will be made at the unit price tendered for each catch basin as indicated on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to all labour and materials required to supply and install the top inlet catch basin as specified in MMCD and City Supplemental Specifications and Detailed Drawings, and to the dimensions and limits indicated on the contract drawings.

Measurement will be made per unit of catch basin installed.

**Relocate Existing Lawn Basin – Item D-4**

Payment for this item will be made at the unit price tendered for each relocated lawn basin as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to survey layout, excavation and disposal of unsuitable or excess material, removal and storage of existing lawn basin and placement of suitable bedding and backfill materials, initial surface restoration including but not limited to concrete, asphalt, topsoil, and any other materials, equipment and labour required to complete the work as shown on the Contract Documents and Drawings.

Measurement will be made per unit of lawn basin relocated.

**1.5. SECTION E – MISCELLANEOUS****Supply and Install Allan Block Retaining Wall – Item E-1**

Payment for this item will be made at the lump sum price tendered as shown on the Schedule of Quantities and Prices.

The lump sum price tendered shall include but not be limited to the excavation, survey layout; traffic control, the disposal of all excavated materials, imported backfill, the supply

and installation of an Allan Block retaining wall and any other materials, equipment and labour required to complete the work as shown on Contract Documents and Drawings.

**Relocate Existing Jersey Barrier – Item E-2**

Payment for this item will be made at the lump sum price as shown on the Schedule of Quantities and Prices.

The lump sum price tendered shall include but not be limited to all materials, equipment and labour required to relocate existing Jersey Barriers as specified in the Contract Documents and Drawings.

**Remove Existing Jersey Barrier – Item E-3**

Payment for this item will be made at the lump sum price as shown on the Schedule of Quantities and Prices.

The lump sum price tendered shall include but not be limited to all materials, equipment and labour required to remove existing Jersey Barriers as specified in the Contract Documents and Drawings to a location assigned by the Contractor Administrator. City crews will pick up the Jersey Barriers.

## **2. Westminster Hwy Walkway**

### **2.1. SECTION A - GENERAL**

Any work called for in the Specifications or shown or implied on the drawings or necessary for the completion of the work called for in the Specifications, which is not specifically listed as a separate item in the Schedule, will be deemed incidental to the general purpose of the Contract and no separate payment will be made on account of any such work, but the cost of any such work will be included in the Tendered unit prices or lump sum prices for the various items of work appearing in the Schedule.

#### **Mobilization and Demobilization – Item A-1**

Payment for mobilization shall be made at 40% of the Contractor's lump sum tendered amount on the first Progress Payment and the remaining 60% shall be made at the Progress Payment following the date of Substantial Completion.

The Contractor's Mobilization and Demobilization tendered amount shall include the costs associated with mobilizing manpower, materials and equipment onsite and offsite, and shall also include final clean up of the site.

The tendered price shall not exceed 3% of the Contractor's total tendered amount.

### **2.2. SECTION B – ROAD WORKS**

#### **Clearing, Grubbing and Removal – Item B-1**

Payment will be made at the lump sum price of the Schedule of Quantities and Prices for clearing completed to the satisfaction of the Contract Administrator. Payment will be made at each progress payment based on a percentage of the total work completed.

The lump sum price tendered shall include removal and disposal of shrubs, trees or hedges shown on the contract drawings and everything else included in MMCD Section 31 11 01 as being within the road allowance or working easement area. The removed material shall be disposed of offsite by the Contractor to the Contract Administrator's satisfaction. The Contractor shall be fully responsible for all reinstatement costs if he removes or damages fences, trees, shrubs, or hedges not authorized for removal. No extra payment will be made for removing or alternately, for protecting fences, shrubs trees or hedges. Only where permitted by the Contract Administrator, cleared plant material may be placed under sub-grade fill.

#### **Supply and Install Extruded Concrete Curb at 70mm high – Item B-2**

Payment for this item will be made at the unit price tendered per linear metre of curb placed as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to survey layout, formwork if necessary, supply and placement of extruded concrete curb as indicated in the contract document and drawings.

Measurement will be made along the top back of curb.

**Supply and Install Extruded Concrete Curb (w/ mill key and painted yellow) – Item B-3**

Payment for this item will be made at the unit price tendered per linear metre of curb placed as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to survey layout, formwork if necessary, supply, placement and painting of extruded concrete curb as indicated in the contract document and drawings.

Measurement will be made along the top back of curb.

**Supply and Install Roadway and Pathway Base Structure – Item B-4 a) and b)**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to survey layout, saw cutting of native material, excavation, transportation and disposal at an approved offsite location, dump fees, supply, delivery, placing, spreading, levelling, watering, drying, compacting and grading plus re-excavation and backfill where soft spots develop, temporary erosion control measures, dust control measures all in conformance with these specifications and to the satisfaction of the Contract Administrator and any other materials, equipment and labour required to complete the work as specified in the Contract Documents and Drawings.

The unit price tendered shall also include but not be limited to survey layout, formwork if necessary, supply and placement of extruded curb, and all other materials, labour and equipment required to complete the works as specified in the Contract Documents and Drawings.

Measurement for granular base and sub-base for each specified thickness will be made for the actual area placed.

**Construct Driveway Tie-ins – Asphalt Tie-ins – Item B-5 a)**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to all excavation, disposal of excavated materials, materials, labour and equipment required to reinstate the existing asphalt driveways from the back of walkway onto private property in accordance with the City of Richmond's Supplementary Specifications and Detail Drawings and all other materials, labour and equipment required to complete the works as specified in the Contract Documents and Drawings.

Measurement will be based on the area of work completed.



**Construct Driveway Tie-ins – Concrete Tie-ins – Item B-5 b)**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to all excavation, disposal of excavated materials, materials, labour and equipment required to reinstate the existing asphalt driveways from the back of walkway onto private property in accordance with the City of Richmond's Supplementary Specifications and Detail Drawings and all other materials, labour and equipment required to complete the works as specified in the Contract Documents and Drawings.

Measurement will be based on the area of work completed.

**Supply and Install Asphalt Pavement – Roadway (50mm MMCD Upper Course #2) – Item B-6 a)**

Payment for this item will be made at the unit price tendered per square meter as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing and compacting of the required depth asphalt and all other materials, equipment, and labour required to install a 40mm mill and overlay on the existing asphalt to form a lap joint with the new asphalt as specified in the contract drawings and documents.

Measurement will be made by the area of asphalt placed.

**Supply and Install Asphalt Pavement – Roadway (100mm MMCD Lower Course #1) – Item B-6 b)**

Payment for this item will be made at the unit price tendered per square meter as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing and compacting of the asphalt and all other materials, equipment and labour required to complete the works as specified in the Contract Documents and Drawings.

Measurement will be by the area of asphalt placed.

**Supply and Install Asphalt Pavement – Walkway (35mm MMCD Lower Course #2) – Item B-6 c)**

Payment for this item will be made at the unit price tendered per square meter as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing and compacting of the required depth asphalt and all other materials, equipment, and labour required to install a 40mm mill and overlay on the existing asphalt to form a lap joint with the new asphalt as specified in the contract drawings and documents.

Measurement will be made by the area of asphalt placed.

**Supply and Install Asphalt Pavement – Walkway (50mm MMCD Lower Course #2) – Item B-6 d)**

Payment for this item will be made at the unit price tendered per square meter as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing and compacting of the asphalt and all other materials, equipment and labour required to complete the works as specified in the Contract Documents and Drawings.

Measurement will be by the area of asphalt placed.

**Supply and Install Top Soil and Finish Grading (incl. slope fill material as required) – Item B-7**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to grading and shaping of the area to be landscaped, supply and placement of all fill required below the area of landscaping and any other materials, labour and equipment required to complete the works as indicated in the Contract Documents and Drawings. A minimum of 150 mm of approved topsoil to be carried out to the satisfaction of the Contract Administrator, or alternatively, a minimum of 90 mm of approved topsoil and seed will suffice if it is placed on a 150 mm to 200 mm bed of approved locally excavated materials.

Measurement will be made by the actual area of top soil and finish grading constructed.

**Supply and Install Hydraulic Seeding– Item B-8**

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to all materials, labour and equipment required to complete the works as indicated in the Contract Documents and Drawings.

Measurement will be made by the actual area of the hydraulic seeding placed.

**Supply and Install Pavement Markings (Thermoplastic) incl. Paint Line Eradication – Item B-9**

Payment for this item will be made at the lump sum price tendered as shown on the Schedule of Quantities and Prices. Payment will be made at the completion of total work subject to inspection and approval by the Contract Administrator.

The lump sum price tendered shall include but not be limited to the removal of existing road markings, supply and placement of linear thermoplastic pavement markings and any other materials, equipment and labour required to complete the work as shown on the Contract Documents and Drawings

### **Install New Signage and Relocate Existing Signs as Required – Item B-10**

Payment for this item will be made at the lump sum price tendered as shown on the Schedule of Quantities and Prices. Payment will be made at the completion of total work subject to inspection and approval by the Contract Administrator.

The lump sum price tendered shall include but not be limited to removal of existing signage, relocation of existing signage, supply and installation of new signage and any other materials, equipment and labour required to complete the work as shown on the Contract Documents and Drawings, and as defined in the latest versions of the Manual of Uniform Traffic Control Devices and Standard Specifications for Highway Construction Section 635 – Electrical and Signage.

## **2.3. SECTION C – ELECTRICAL WORKS**

### **Adjust Junction Box – Item C-1**

Payment for this item will be made at the unit price tendered for each junction box adjusted as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to relocation of existing junction box, re-configuring junction box to function properly and any other materials, equipment and labour required to complete the work as shown on the Contract Documents and Drawings, and as defined in the latest versions of the Manual of Uniform Traffic Control Devices and Standard Specifications for Highway Construction Section 635 – Electrical and Signage.

Measurements will be made per junction box adjusted.

## **2.4. SECTION D – STORM**

### **Adjust Storm Manhole (w/ riser section) – Item D-1**

Payment for this item will be made at the unit price tendered per storm manhole adjusted as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not limited to all materials, labour and equipment required to adjust the existing storm manhole as specified in the Contract Document and Drawings.

Measurements will be made per storm manhole adjusted.

**Supply and Install 150mm Diameter PVC Catch Basin Leads – Item D-2**

Payment for this item will be made at unit price tendered per linear metre as shown on the Schedule of Quantities and Prices for the supply and installation of each metre of the size pipe to the depth as specified in the Contract Documents and Drawings.

The unit price tendered shall include all excavation, survey layout, traffic control, the disposal of all excavated materials, the supply and installation of the pipe, fittings and caps, imported backfill, bypass set-up where required, connection to existing storm infrastructure, video inspection, compaction and surface restoration as and all other materials, labour and equipment to complete the works as specified in the Contract Documents and Drawings.

Measurement will be made by the horizontal length of lateral installed

**Supply and Install 100mm Diameter PVC Lawn Basin Leads – Item D-3**

Payment for this item will be made at unit price tendered per linear metre as shown on the Schedule of Quantities and Prices for the supply and installation of each metre of the size pipe to the depth as specified in the Contract Documents and Drawings.

The unit price tendered shall include all excavation, survey layout, traffic control, the disposal of all excavated materials, the supply and installation of the pipe, fittings and caps, imported backfill, bypass set-up where required, connection to existing storm infrastructure, video inspection, compaction and surface restoration as and all other materials, labour and equipment to complete the works as specified in the Contract Documents and Drawings.

Measurement will be made by the horizontal length of lateral installed

**Supply and Install Inspection Chamber – Item D-4**

Payment for this item will be made at unit price tendered for each inspection chamber as indicated on the Schedule of Quantities and Prices.

The unit price tendered shall include all materials, equipment and labour required to supply and install the Type 2 inspection chamber as specified in MMCD and City Supplemental Specifications and Detailed Drawings, and to the dimensions and limits indicated on the Contract Documents and Drawings.

Measurement will be made by per inspection chamber installed.

**Supply and Install Standard Top Inlet CB – Item D-5**

Payment for this item will be made at the unit price tendered for each catch basin as indicated on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to all materials, equipment and labour required to supply and install the top inlet catch basin as specified in MMCD and City Supplemental Specifications and Detailed Drawings, and to the dimensions and limits indicated on the Contract Documents and Drawings.

Measurement will be made per unit of catch basin installed.

**Supply and Install 600mm Diameter Lawn Basin – Item D-6**

Payment for this item will be made at the unit price tendered for each lawn basin as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to all materials, equipment and labour required to supply and install the 600mm diameter lawn basin as specified in MMCD and City Supplemental Specifications and Detailed Drawings, and to the dimensions and limits indicated on the Contract Documents and Drawings.

Measurement will be made per unit of lawn basin installed.

**Adjust Existing Lawn Basin – Item D-7**

Payment for this item will be made at the unit price tendered for each adjusted lawn basin as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to all materials, equipment and labour required to adjust the existing lawn basin as specified in MMCD and City Supplemental Specifications and Detailed Drawings, and to the dimensions and limits indicated on the Contract Documents and Drawings.

Measurement will be made per unit of lawn basin installed.

## **STANDARD DOCUMENTS (BOUND SEPARATELY)**

Master Municipal Construction Documents, Platinum Edition, Volume II, 2009.

Addenda:

- MMCD Platinum Edition Supplemental Update Aug 7, 2012
- MMCD Platinum Edition Supplemental Update Jun 8, 2012
- MMCD Platinum Edition Supplemental Update May 30, 2012
- MMCD Platinum Edition Supplemental Update Aug 8, 2011
- MMCD Platinum Edition Supplemental Update Aug 4, 2011
- MMCD Platinum Edition Supplemental Update May 8, 2010
- MMCD Platinum Edition Supplemental Update Mar 25, 2010
- MMCD Platinum Edition Supplemental Update Nov 19, 2009
- PVC C900 Pipe Specifications Clarification May 12, 2011

City of Richmond Supplementary Specifications and Detail Drawings, April 2011.

City of Richmond Roadway Restoration Regulation Bylaw 7869, April 11, 2005  
<http://www.richmond.ca/services/rdws/specs/mmcd.htm>

City of Richmond Quality Control Program, Jan 1, 2012  
[http://www.richmond.ca/\\_\\_shared/assets/AmendmentstoQualityControl31957.pdf](http://www.richmond.ca/__shared/assets/AmendmentstoQualityControl31957.pdf)

## **SECTION E**

**SAMPLES: UNDERTAKING OF LIABILITY INSURANCE  
AGREEMENT TO BOND**

## UNDERTAKING OF LIABILITY INSURANCE

(Undertaking Must Accompany Form of Tender)

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** Comprehensive Liability Insurance as outlined in the attached "Instructions to Tenderers" 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 on 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 City Clerk, City of Richmond, 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 Tender and specifically that the insurance required by such Tender shall be consistent with the requirements therein

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

EXCEPTIONS: \_\_\_\_\_

Dated at \_\_\_\_\_, British Columbia, this \_\_\_\_\_ day of \_\_\_\_\_ 2013.  
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.



## UNDERTAKING OF SURETY

(To be submitted with Form of Tender)

We, the undersigned \_\_\_\_\_

do hereby undertake and agree to become bound unto the City of Richmond in:

- (a) A PERFORMANCE BOND in the amount of 50% of the total Tendered amount shown on the Form of Tender and drawn up in accordance with the requirements specified in the *Contract Documents*,

and

- (b) A LABOUR AND MATERIALS PAYMENT BOND in the amount of 50% of the total Tendered amount shown on the Form of Tender and drawn up in accordance with the requirements specified in the *Contract Documents*,

if the Contract is awarded to:

\_\_\_\_\_

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2013

\_\_\_\_\_  
Signature and Corporate Seal of Surety  
Company Licensed to Conduct Business in  
the Province of British Columbia

## **SECTION F**

## **ADDENDA**

## **SECTION G**

### **GEOTECHNICAL REPORT AND DRAWINGS**

Please visit:

<ftp://ftp.richmond.ca/FROM%20City%20of%20Richmond/T.4992%20Westminster%20Hwy%20from%20Gilley%20Rd%20to%20%2323591%20Westminster%20Hwy/>

User Name: engineering1

Password: ri(hmond