



City of Coquitlam

**Contract Documents  
84311E**

**2016 & 2017  
IC Installations  
& Water Service Renewals**



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**Contract No. 84311E**  
**2016 & 2017 IC Installations & Water Service Renewals**  
**Project Construction Documents**

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# *Invitation to Tenderers*



## INVITATION TO TENDER

DATE OF ISSUE: **December 15, 2015**

*Tender No. 84311E*

### **2016 & 2017 IC Installations & Water Services Renewals**

The City of Coquitlam (the "City") invites Tenders for Contract 84311E – 2016 & 2017 IC Installations & Water Service Renewals, generally consisting of the following:

- Supply & Installation of approx. 11 storm service inspection chambers, 144 sanitary service inspection chambers, 80 water service renewals, 9 - C71P TC c/w storz connection, air valve & blow off valve upgrades and storm & sanitary main repairs.
- Other miscellaneous and incidental works as contained in the Contract Documents

Tender Documents and Drawings are available for downloading from the City of Coquitlam website:

[www.coquitlam.ca/BidOpportunities](http://www.coquitlam.ca/BidOpportunities)

Printing of Tender documents and drawings is the sole responsibility of the Tenderers.

Tenders submitted must be accompanied by a copy of the original specified 10% Bid Bond and will be received:

**On or Before 2:00 pm local time**

**Tuesday, January 12, 2016**

("Closing Date and Time\*")

#### **Instructions for Tender Submission**

Tender submissions are to be uploaded through QFile, the City's file transfer service accessed at website: [qfile.coquitlam.ca/bid](http://qfile.coquitlam.ca/bid)

1. In the "Subject Field" enter: Tender Number and Name
2. Add files in .pdf format and Send (ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete and was sent to correct email address.)

Tenders will not be opened in public. The unevaluated Tender results will be forwarded to all participants by email.

## **Addenda**

**Tenderers are required to check the City's website for any updated information and Addenda issued before the Closing Date at: [www.coquitlam.ca/BidOpportunities](http://www.coquitlam.ca/BidOpportunities)**

Any changes to the Tender documentation will be issued by means of written Addenda and posted on the City's website and will form part of the Tender. No amendment of any kind to the Tender is effective unless it is posted in a formal written Addendum on the City website. Upon submitting a Tender, Tenderers will be deemed to have received notice of all Addenda that are posted on the City's website and deemed to have considered the information for inclusion in the Tender submitted.

The City does not retain a bidder's list or bidder's registry. Tenderers are encouraged to register as plan takers and may view the Tender Documents and Drawings by contacting the Vancouver Regional Construction Association (VRCA), website: [www.vrca.bc.ca](http://www.vrca.bc.ca), ph: 604-870-9293, or email [vrca@vrca.bc.ca](mailto:vrca@vrca.bc.ca), quoting the Coquitlam Tender Reference Number.

Should there be any discrepancy in the documentation provided, the City's original file copy shall prevail.

All inquiries are to be submitted in writing by email, no later than 3 full business days prior to Tender Closing Time quoting the Tender Name and Number sent to:

**Email: [bid@coquitlam.ca](mailto:bid@coquitlam.ca)**

Tenders shall remain open for acceptance for 60 days following the submission Closing Date.

The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. The City also reserves the right to cancel any request for Tender at any time without recourse by the Tenderer.

The City will not be responsible for any costs incurred by the Tenderer in preparing the Tender.

## **Christmas and New Year's Closure**

**City Hall will be closed for business at 12:00 pm Thursday December 24, 2015 and will re-open Monday January 4, 2016.** Queries will be responded to by issue of addenda after January 4, 2016.

D. Trudeau  
Purchasing Manager

# *Instructions to Tenderers, Part 1*



**Tender 84311E**

**2016 & 2017 IC Installations & Water Service Renewals**

**INSTRUCTIONS TO TENDERERS  
PART I**

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## Instructions to Tenderers - Part I

(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT - TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS. )

(TO BE READ WITH "INSTRUCTIONS TO TENDERERS - PART II"  
CONTAINED IN THE EDITION OF THE PUBLICATION  
"MASTER MUNICIPAL CONSTRUCTION DOCUMENTS" SPECIFIED IN ARTICLE 2.2 BELOW)

### The City of Coquitlam

*Contract*           **2016 & 2017 Inspection Chamber Installations & Water Service Renewals**

*Reference No.*   **84311E**

#### Introduction

##### 1

1.1 These Instructions apply to and govern the preparation of Tenders for this *Contract*. The *Contract* is generally for the following work:

- Supply & Installation of approx. 11 storm service inspection chambers, 144 sanitary service inspection chambers, 80 water service renewals, 9 - C71P TC c/w storz connection, air valve & blow off valve upgrades and storm & sanitary main repairs.
- Other miscellaneous and incidental works as contained in the Contract Documents

1.2 All inquiries regarding this Tender are to be submitted in writing referencing the **Tender Name and Number** sent to:

**E-mail**    [bid@coquitlam.ca](mailto:bid@coquitlam.ca)

**All inquiries will be received a minimum of 3 full business days prior to Tender Closing Time.**

**Inquiries received after that time may not receive a response.**

#### 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". Schedule 1 is 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 Contract Drawings**".

2.2 A portion 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 and Standard Detail Drawings. They are those contained in the publication entitled "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings". Refer to Schedule 1

to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.

- 2.3 Any additional information made available to Tenderers prior to the Tender Closing Time by the Owner or representative of the Owner, such as geotechnical reports, video 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 only for the assistance of Tenderers who must make their own judgments about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the Owner nor any representative of the Owner gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.

**Submission of Tenders**

- 3 Tenders must be submitted on the Tender Form provided, accompanied by a copy of the original 10% Bid Bond quoting the Tender Name and Number, and be uploaded to the City's file transfer website.

Tenders must be received on or before:

*Tender Closing Time:* **2:00 p.m. local time**

*Tender Closing Date:* **January 12, 2016**

For the purpose of the Tender submission, digital copies of original documents and signatures sent electronically are accepted. Original documents are required upon request by the City.

**Instructions for Tender Submission**

- 3.1 **Tender submissions are to be uploaded electronically through QFile, the City's file transfer service accessed at website: <http://qfile.coquitlam.ca/bid>**

1. **In the "Subject Field" enter:** Tender Number and Name
2. **Add files in .pdf format and Send** (ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete)

**Tenderers are responsible to allow for ample time to complete the submission process. For assistance, phone 604-927-3060 or Fax 604-927-3035.**

- 3.2 Tenders submitted shall be deemed to be successfully received when displayed as a new email in the in-box of the City email address. The City will not be responsible for any delay or for any Tenders not received for any reason, including technological delays or issues by either party's network or email program, and the City will not be liable for any damages associated with Tenders not received.
- 3.3 The City reserves the right to accept late Tenders to allow for technological delays.
- 3.4 Tenders will not be opened in public. The unevaluated Tender results will be forwarded to participants by email.

	3.5	Tender submissions are subject to the Freedom of Information and Protection of Privacy Act and contents may be disclosed if required to do so, pursuant to the Act.
<b>Additional Instructions to Tenderers</b>	4	<u>Additions and Deletions to Instructions to Tenderers, Part II</u>
	4.1	The <i>Contractor</i> must achieve <b>Substantial Performance of the Work on or before April 8, 2016</b> , subject to the provisions of the <i>Contract Documents</i> for adjustments to the <i>Contract Time</i> . Should <i>Substantial Performance</i> not be achieved by this milestone date (Late completion), liquidated damages will be assessed at the amount as stated in section 13.8.1(a) of Supplementary General Conditions.
<b>Obtaining Documents</b>	4.2	<p>The following documents which are referred to and form part of the Contract Document package may be obtained as follows:</p> <ul style="list-style-type: none"> <li>• Copies of the Master Municipal Construction Documents Volume II (2000), Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings are available separately from: <p style="margin-left: 40px;">Support Services Unlimited Suite 302 1107 Homer Street Vancouver BC V6B 2Y1 Tel: 604-681-0295 Fax: 604-681-4545</p> <p style="margin-left: 40px;"><b>*Availability of the Gold Book is not guaranteed</b></p> </li> <li>• City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2000 Edition. <p style="margin-left: 40px;">City of Coquitlam Engineering &amp; Public Works Department 3000 Guildford Way Coquitlam, BC V3B 7N2 Tel: 604-927-3500 Fax: 604-927-3525</p> <p style="margin-left: 40px;">Copies of the City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2000 Edition are available for viewing and downloading off the City of Coquitlam web site <a href="http://www.coquitlam.ca/Libraries/City_Hall_Files/Supplementary_Specifications_and_Detailed_Drawings_to_MMCD.sflb.ashx">http://www.coquitlam.ca/Libraries/City_Hall_Files/Supplementary_Specifications_and_Detailed_Drawings_to_MMCD.sflb.ashx</a></p> </li> </ul>
<b>Tender Requirements</b>	4.3	<i>Delete:</i> Instructions to Tenderers, Part II, Section 5.2.2
<b>Amendment of Tenders</b>	4.4	<i>Delete:</i> Instructions to Tenderers Part II, Section 12 Amendments of Tenders.
<b>Award</b>	4.5	<i>Add to:</i> Instructions to Tenderers Part II, Section 15.1;
		Tenders received will be evaluated to provide the City with greatest value based on quality, service, price and experience. Evaluation Criteria will include but is not limited to:

1. Ability to meet specifications and required completion date
2. Contractor’s past experience, references, reputation and compliance to specifications
3. Demonstrated successful experience on similar projects and specific equipment installation
4. Price: purchase price, maintenance costs, availability of parts and service, warranty and compatibility with existing equipment and/or conditions
5. Any other criteria, the City deems, at its sole discretion, necessary to evaluate Tenders;
6. Lowest price will not necessarily be accepted.

The City may, in its absolute discretion, reject a Tender submitted by the Tenderer if the Tenderer, or any officer or director of a corporate Tenderer, is or has been engaged, either directly or indirectly through another corporation or legal entity, in a legal action against the City and its elected and appointed officers and employees or any of them in relation to:

- a) any other contract or services; or
- b) any matter arising from the City’s exercise of its powers, duties or functions under the *Local Government Act*, the *Community Charter* or any other enactments; within five years of this Tender Offer.

For purposes of this section, the words “legal action” includes, without limitation, mediation, arbitration, hearing before an administrative tribunal or lawsuit filed in any court.

Without limiting the City’s sole discretion, in determining whether or not to reject a Tender pursuant to this clause, the City will consider such factors as whether the legal action is likely to affect the Tenderer’s ability to work with the City and its employees, agents, consultants and representatives or any of them and whether the City’s past experience with the Tenderer in the matter that resulted in the legal action indicates that the City is likely to incur increased staff and legal costs or either of them in the administration of this contract if it is awarded to the Tenderer.

**Certificate of Compliance for Contract Insurance**

4.6 Each Tender should be accompanied by a Certificate of Compliance (on the form provided in Appendix 7 of Form of Tender) to provide proof that the Tenderer can obtain the insurance specified herein.

A Certificate of Compliance is to be submitted for each insurer called upon.

**Proof of Ability**

4.7 Tenderer shall be competent and capable of performing the various items of work. Tenderer shall complete the following statement sheets appended to the Form of Tender, which shall form a part of the Contract Documents:

- Appendix 1 Schedule of Quantities and Unit Prices
- Appendix 2 Preliminary Construction Schedule
- Appendix 3 Experience of Superintendent
- Appendix 4 Contractor’s Comparable Work Experience
- Appendix 5 Subcontractors

Appendix 6 Bid Bond

Appendix 7 Certificate of Compliance for Contract Insurance

<b>Test Excavations</b>	4.8	Prior to the excavation of test holes on road allowances or privately owned property the Tenderer shall obtain permission from the Municipality or Owner of the property and comply with their requirements for restoration of disturbed surfaces and utilities. Failure to comply with Municipal by-laws restricting this practice may result in prosecution of the offending party.
<b>Business License</b>	4.9	The successful Tenderer shall provide evidence of a City of Coquitlam Business License or Tri Cities Intermunicipal Business License prior to commencement of work or supply of materials. For more information, contact Business Licence Division Ph: 604-927-3085 or apply online at website:  <a href="#">City of Coquitlam Business License</a>
<b>No Claim</b>	4.10	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 this Tender, including accepting a non-compliant bid and by submitting a Tender, each Tenderer shall be deemed to have agreed that it has no claim.
<b>No Cost</b>	4.11	The City will not under any circumstances be responsible for any costs incurred by the Tenderer in preparing the Tender.
<b>Right to Accept or Reject any Tender</b>	4.12	The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted.  The City specifically reserves the right to reject all Tenders if none is considered to be satisfactory and, in that event, at its option, to call for additional Tenders.
<b>Cancellation of Tender</b>	4.13	The City reserves the right to cancel any request for Tender at any time without recourse by the Tenderer. The City has the right to not award this work for any reason including choosing to complete the work with the City's own forces.
<b>Conflict of Interest</b>	4.14	Tenderers shall disclose any actual or potential conflicts of interest and existing business relationships it may have with the City, their elected or appointed officials or employees.
<b>Additional Information</b>	4.15	Information below are available to assist Tenderers and may be obtained from the City's website: <ul style="list-style-type: none"> <li>• Video survey clips of the existing sanitary &amp; storm mains for repairs <a href="http://www.coquitlam.ca/Tender-Videos">http://www.coquitlam.ca/Tender-Videos</a></li> <li>• As-built of existing utilities for general information only and the accuracy of the information contained is no way guaranteed by the City. <a href="http://gis.coquitlam.ca/apps/qthemap/">http://gis.coquitlam.ca/apps/qthemap/</a></li> </ul>



# Form of Tender

Tender No. 84311E

## 2016 & 2017 IC Installations & Water Service Renewals

### Summary

Name of *Contractor* \_\_\_\_\_

*Tender Price* (excluding GST): \$ \_\_\_\_\_  
(FROM APPENDIX 1 OF FORM OF TENDER)

**Tender submitted must be accompanied by a copy of the original 10% Bid Bond and will be received:**

**On or before 2:00 pm (local time)  
Tuesday, January 12, 2016**

### Instructions for Tender Submission

Tender submissions are to be uploaded electronically through QFile, the City's file transfer service accessed at website: [qfile.coquitlam.ca/bid](http://qfile.coquitlam.ca/bid)

1. In the "Subject Field" enter: Tender Number and Name
2. **Add files in .pdf format and Send** (ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete and was sent to the correct email address: [bid@coquitlam.ca](mailto:bid@coquitlam.ca) )

**Tenderers are responsible to allow ample time to complete the Tender submission process. If assistance is required, phone 604-927-3060 or fax 604-927-3035.**

December 2015

CITY OF COQUITLAM  
 3000 Guildford Way  
 Coquitlam BC V3B 7N2

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( FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT - TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS. )

**Contract Name: 2016 & 2017 IC Installations & Water Service Renewals**

**Reference No. 84311E**

**TO OWNER:**

**1 WE, THE UNDERSIGNED:**

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_;

( ADDENDA, IF ANY )

- 1.2 shall fully disclose any actual or potential conflicts of interest and existing business relationships we may have with the City, their elected or appointed officials or employees;

\_\_\_\_\_

- 1.3 have full knowledge of the *Place of the Work*, and the *Work* required; and

- 1.4 have complied with the Instructions to Tenderers; and

**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*; and
- 2.2 to achieve *Substantial Performance* of the *Work* on or before **April 8, 2016**; and
- 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 set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific 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*" 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.
- 3.2 that we understand and agree that the owner is in no way obliged to accept this Tender.

**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 Tenderers - Part II; and
- 4.1.2 the *Bid Security* as required by paragraph 5.2 of the Instructions to Tenderers - Part II.
- 4.1.3 the Certificate of Compliance on the form provided in Appendix 7 of this Form of Tender.

**5 WE AGREE:**

- 5.1 that this tender will be irrevocable and open for acceptance by the *Owner* for a period of **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 **10 Days** of receipt of the written *Notice of Award* deliver to the *Owner*:
    - 5.1 a) a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the *Contract Price*, 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*;
    - 5.1 b) a "clearance letter" indicating that the Tenderer is in WCB compliance; and
    - 5.1 c) a copy of the insurance policies as specified in SGC 24 indicating that all such insurance coverage is in place and;
    - 5.1 d) a letter confirming the *Contractor* as "Prime Contractor" for the Contract as specified in SGC 4.2.2.
  - 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.

**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:

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---

---

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

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

Email: \_\_\_\_\_

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

This Tender is executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

*Contractor:*

\_\_\_\_\_  
**(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

\_\_\_\_\_  
**(AUTHORIZED SIGNATORY)**

\_\_\_\_\_  
**(AUTHORIZED SIGNATORY)**

**8 WE CONFIRM:**

8.1 our Goods and Services Tax (GST) registration status is as follows:

8.1.1 for information purposes, our GST Registration Number is:

\_\_\_\_\_  
**(GST REGISTRATION NUMBER)**

**or;**

8.1.2 by signature hereunder, we certify we are **not required** to provide a registration number:

\_\_\_\_\_  
**(AUTHORIZED SIGNATORY)**

\_\_\_\_\_  
**(AUTHORIZED SIGNATORY)**

**APPENDIX 1  
FORM OF TENDER**

**Contract 84311E  
2016 & 2017 IC Installations & Water Service Renewals**

**SCHEDULE OF QUANTITIES AND PRICES**

(see paragraph 5.3.1 of the Instruction to Tenderers – Part II)

**(All Tender and Contract Prices shall NOT include GST. GST will apply upon payment)**

**(Should there be any discrepancy in the information provided, the City's original file copy shall prevail)**

ITEM NO.	MMCD Ref. / Supp. Specs	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
<b>Division 1 - GENERAL REQUIREMENTS</b>						
<b>1.0</b>	<b>01535</b>	<b>TEMPORARY FACILITIES</b>				
1.01	1.15.1	Temporary Facilities, Public Notice				Incidental to Contract
<b>2.0</b>	<b>01561</b>	<b>ENVIRONMENTAL PROTECTION</b>				
2.01	1.7.1	Environmental Protection				Incidental to Contract
<b>3.0</b>	<b>01570</b>	<b>TRAFFIC REGULATION</b>				
3.01	SS - 1.5.1	Traffic Control and Management				Incidental to Contract
<b>Division 2 - SITE WORKS</b>						
<b>4.0</b>	<b>02223</b>	<b>EXCAVATING, TRENCHING, &amp; BACKFILLING</b>				
4.01	SS - 1.10.3	Overexcavation (Provisional)	c.m	50	\$	\$
4.02	SS - 1.10.9	Add Import Trench Backfill (Provisional)	tonne	1500	\$	\$
<b>5.0</b>	<b>02523</b>	<b>CONCRETE WALKS, CURBS AND GUTTERS</b>				
5.01	SS - 1.4.4	Remove and replace concrete curb and gutter (MMCD C5) (Provisional)	l.m	90	\$	\$
5.02	SS - 1.4.5	Remove and replace monolithic concrete sidewalks including curb as per COQ-C8 (100mm thick, broom finished) (Provisional)	sq.m	140	\$	\$
5.03	SS - 1.4.5	Remove and replace concrete sidewalks (100mm thick, broom finished) (Provisional)	sq.m	130	\$	\$
5.04	SS - 1.4.5	Remove and replace monolithic concrete driveway letdown (190mm thick - COQ-C7C)	ea	1	\$	\$
5.05	SS - 1.4.5	Remove and replace concrete driveway (Provisional)	sq.m	100	\$	\$
<b>6.0</b>	<b>02666</b>	<b>WATERWORKS</b>				
6.01	SS - 1.8.4	Terminal City C71P Hydrant installation c/w storz connection at 2629 Spuraway	ea	1	\$	\$
6.02	SS - 1.8.4	Terminal City C71P Hydrant installation c/w storz connection at 2953 Spuraway	ea	1	\$	\$
6.03	SS - 1.8.4	Terminal City C71P Hydrant installation c/w storz connection at 3002 Spuraway	ea	1	\$	\$
6.04	SS - 1.8.4	Terminal City C71P Hydrant installation c/w storz connection at 3047 Spuraway	ea	1	\$	\$
6.05	SS - 1.8.4	Terminal City C71P Hydrant installation c/w storz connection at 2256 Haversley	ea	1	\$	\$
6.06	SS - 1.8.4	Terminal City C71P Hydrant installation c/w storz connection at 2202 Haversley	ea	1	\$	\$

ITEM NO.	MMCD Ref. / Supp. Specs	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
6.07	SS - 1.8.4	Terminal City C71P Hydrant installation c/w storz connection at 536 Draycott	ea	1	\$	\$
6.08	SS - 1.8.4	Terminal City C71P Hydrant installation c/w storz connection at 549 Draycott	ea	1	\$	\$
6.09	SS - 1.8.4	Terminal City C71P Hydrant installation c/w storz connection at 2415 King Albert	ea	1	\$	\$
6.10	SS - 1.8.5.1	687 Linton Street water service renewal	l.m	17.3	\$	\$
6.11	SS - 1.8.5.1	689 Linton Street water service renewal	l.m	17.3	\$	\$
6.12	SS - 1.8.5.1	691 Linton Street water service renewal	l.m	17.3	\$	\$
6.13	SS - 1.8.5.1	695 Linton Street water service renewal	l.m	17.3	\$	\$
6.14	SS - 1.8.5.1	699 Linton Street water service renewal	l.m	17.3	\$	\$
6.15	SS - 1.8.5.1	703 Linton Street water service renewal	l.m	17.3	\$	\$
6.16	SS - 1.8.5.1	707 Linton Street water service renewal	l.m	17.3	\$	\$
6.17	SS - 1.8.5.1	711 Linton Street water service renewal	l.m	17.3	\$	\$
6.18	SS - 1.8.5.1	715 Linton Street water service renewal	l.m	17.3	\$	\$
6.19	SS - 1.8.5.1	719 Linton Street water service renewal	l.m	17.3	\$	\$
6.20	SS - 1.8.5.1	723 Linton Street water service renewal	l.m	17.3	\$	\$
6.21	SS - 1.8.5.1	727 Linton Street water service renewal	l.m	17.3	\$	\$
6.22	SS - 1.8.5.1	731 Linton Street water service renewal	l.m	17.3	\$	\$
6.23	SS - 1.8.5.1	739 Linton Street water service renewal	l.m	17.3	\$	\$
6.24	SS - 1.8.5.1	561 Carmen Court water service renewal	l.m	17	\$	\$
6.25	SS - 1.8.5.1	567 Carmen Court water service renewal	l.m	17	\$	\$
6.26	SS - 1.8.5.1	573 Carmen Court water service renewal	l.m	17	\$	\$
6.27	SS - 1.8.5.1	579 Carmen Court water service renewal	l.m	17	\$	\$
6.28	SS - 1.8.5.1	590 Carmen Court water service renewal	l.m	7	\$	\$
6.29	SS - 1.8.5.1	591 Carmen Court water service renewal	l.m	20	\$	\$
6.30	SS - 1.8.5.1	2195 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.31	SS - 1.8.5.1	2203 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.32	SS - 1.8.5.1	2205 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.33	SS - 1.8.5.1	2211 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.34	SS - 1.8.5.1	2217 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.35	SS - 1.8.5.1	2231 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.36	SS - 1.8.5.1	2253 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.37	SS - 1.8.5.1	2255 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.38	SS - 1.8.5.1	2263 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.39	SS - 1.8.5.1	2305 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.40	SS - 1.8.5.1	2323 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.41	SS - 1.8.5.1	2325 Haversley Ave water service renewal	l.m	16.5	\$	\$
6.42	SS - 1.8.5.1	2570 Haversley Ave water service renewal	l.m	11	\$	\$
6.43	SS - 1.8.5.1	1961 King Albert Ave water service renewal	l.m	4.8	\$	\$
6.44	SS - 1.8.5.1	1990 King Albert Ave water service renewal	l.m	16	\$	\$
6.45	SS - 1.8.5.1	2050 King Albert Ave water service renewal	l.m	16.5	\$	\$
6.46	SS - 1.8.5.1	2232 King Albert Ave water service renewal	l.m	17	\$	\$

ITEM NO.	MMCD Ref. / Supp. Specs	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
6.47	SS - 1.8.5.1	2240 King Albert Ave water service renewal	l.m	17	\$	\$
6.48	SS - 1.8.5.1	2244 King Albert Ave water service renewal	l.m	17	\$	\$
6.49	SS - 1.8.5.1	2252 King Albert Ave water service renewal	l.m	17	\$	\$
6.50	SS - 1.8.5.1	2260 King Albert Ave water service renewal	l.m	17	\$	\$
6.51	SS - 1.8.5.1	2264 King Albert Ave water service renewal	l.m	17	\$	\$
6.52	SS - 1.8.5.1	2270 King Albert Ave water service renewal	l.m	17	\$	\$
6.53	SS - 1.8.5.1	2280 King Albert Ave water service renewal	l.m	17	\$	\$
6.54	SS - 1.8.5.1	2290 King Albert Ave water service renewal	l.m	17	\$	\$
6.55	SS - 1.8.5.1	2300 King Albert Ave water service renewal	l.m	17	\$	\$
6.56	SS - 1.8.5.1	2310 King Albert Ave water service renewal	l.m	17	\$	\$
6.57	SS - 1.8.5.1	2320 King Albert Ave water service renewal	l.m	17	\$	\$
6.58	SS - 1.8.5.1	546 Ferris Street water service renewal	l.m	17.5	\$	\$
6.59	SS - 1.8.5.1	585 Orkney Court water service renewal	l.m	18.5	\$	\$
6.60	SS - 1.8.5.1	579 Orkney Court water service renewal	l.m	17	\$	\$
6.61	SS - 1.8.5.1	573 Orkney Court water service renewal	l.m	17	\$	\$
6.62	SS - 1.8.5.1	561 Orkney Court water service renewal	l.m	17	\$	\$
6.63	SS - 1.8.5.1	1991 Carson Court water service renewal	l.m	16.5	\$	\$
6.64	SS - 1.8.5.1	1981 Carson Court water service renewal	l.m	20.8	\$	\$
6.65	SS - 1.8.5.1	1980 Carson Court water service renewal	l.m	7.5	\$	\$
6.66	SS - 1.8.5.1	651 Draycott Street water service renewal	l.m	17	\$	\$
6.67	SS - 1.8.5.1	647 Draycott Street water service renewal	l.m	16	\$	\$
6.68	SS - 1.8.5.1	643 Draycott Street water service renewal	l.m	15	\$	\$
6.69	SS - 1.8.5.1	641 Draycott Street water service renewal	l.m	15	\$	\$
6.70	SS - 1.8.5.1	639 Draycott Street water service renewal	l.m	15	\$	\$
6.71	SS - 1.8.5.1	635 Draycott Street water service renewal	l.m	15	\$	\$
6.72	SS - 1.8.5.1	629 Draycott Street water service renewal	l.m	15	\$	\$
6.73	SS - 1.8.5.1	625 Draycott Street water service renewal	l.m	15	\$	\$
6.74	SS - 1.8.5.1	623 Draycott Street water service renewal	l.m	15	\$	\$
6.75	SS - 1.8.5.1	1971 Kelso Court water service renewal	l.m	14	\$	\$
6.76	SS - 1.8.5.1	1961 Kelso Court water service renewal	l.m	13.5	\$	\$
6.77	SS - 1.8.5.1	1951 Kelso Court water service renewal	l.m	13	\$	\$
6.78	SS - 1.8.5.1	1950 Kelso Court water service renewal	l.m	9.5	\$	\$
6.79	SS - 1.8.5.1	620 Midvale Street water service renewal	l.m	15	\$	\$
6.80	SS - 1.8.5.1	608 Midvale Street water service renewal	l.m	15	\$	\$
6.81	SS - 1.8.5.1	606 Midvale Street water service renewal	l.m	15	\$	\$
6.82	SS - 1.8.5.1	602 Midvale Street water service renewal	l.m	15	\$	\$
6.83	SS - 1.8.5.1	590 Midvale Street water service renewal	l.m	15	\$	\$
6.84	SS - 1.8.5.1	588 Midvale Street water service renewal	l.m	15	\$	\$
6.85	SS - 1.8.5.1	530 Midvale Street water service renewal	l.m	15.8	\$	\$
6.86	SS - 1.8.5.1	534 Midvale Street water service renewal	l.m	15.8	\$	\$
6.87	SS - 1.8.5.1	516 Midvale Street water service renewal	l.m	21.8	\$	\$
6.88	SS - 1.8.5.1	512 Midvale Street water service renewal	l.m	21	\$	\$

ITEM NO.	MMCD Ref. / Supp. Specs	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
6.89	SS - 1.8.5.1	2090/92 Winslow Ave water service renewal	l.m	4.5	\$	\$
6.90	SS - 1.8.5.3	Supply and install Terminal City Nelson Type valve box c/w lid marked "water"	ea	75	\$	\$
6.91	SS - 1.8.6	Air valve replacement including appertunances c/w "candy cane" vent and all labour , equipment and material to complete the work as shown in COQ-W6	l.s.	1	\$	\$
6.92	SS - 1.8.6.1	1950 Kelso Court - Replace hand wheel with square nut and all appertunances, labour , equipment and material to complete the work as shown in COQ-W8	l.s.	1	\$	\$
<b>7.0</b>	<b>02721</b>	<b>STORM SEWERS</b>				
7.01	SS - 1.6.2	Storm main repair at STPI02257 <b>as per VR2</b> , Sheet 1783 c/w shear band coupler (Haversley Ave)	l.s.	1	\$	\$
7.02	SS - 1.6.2	Storm main repair at STPI10341 <b>as per VR3</b> , Sheet 1811 c/w shear band coupler (Mariner Way)	l.s.	1	\$	\$
7.03	SS - 1.6.3.1	Storm service lead repair (Provisional)	l.m	30	\$	\$
7.04	SS - 1.6.4	687 Linton Street IC Installation	l.s.	1	\$	\$
7.05	SS - 1.6.4	689 Linton Street IC Installation	l.s.	1	\$	\$
7.06	SS - 1.6.4	691 Linton Street IC Installation	l.s.	1	\$	\$
7.07	SS - 1.6.4	695 Linton Street IC Installation	l.s.	1	\$	\$
7.08	SS - 1.6.4	699 Linton Street IC Installation	l.s.	1	\$	\$
7.09	SS - 1.6.4	703 Linton Street IC Installation	l.s.	1	\$	\$
7.10	SS - 1.6.4	743 Linton Street IC Installation	l.s.	1	\$	\$
7.11	SS - 1.6.4	745 Linton Street IC Installation	l.s.	1	\$	\$
7.12	SS - 1.6.4	320 Mariner Way IC Installation	l.s.	1	\$	\$
7.13	SS - 1.6.4	322 Mariner Way IC Installation	l.s.	1	\$	\$
7.14	SS - 1.6.4	449 Walker Street IC Installation	l.s.	1	\$	\$
7.15	SS - 1.6.4.2	IC installation on additional depth(Provisional)	m	5	\$	\$
7.16	SS - 1.6.9	Storm service connection tie in to storm main c/w pvc wye (Provisional)	ea	5	\$	\$
<b>8.0</b>	<b>02731</b>	<b>SANITARY SEWERS</b>				
8.01	SS - 1.6.2	Sanitary main repair at SNPI00143 <b>as per VR1</b> , Sheet 1099 c/w shear band couplers(lane west of McKinnon St.)	l.s.	1	\$	\$
8.02	SS - 1.6.3.1	Sanitary service lead repair (Provisional)	l.m	250	\$	\$
8.03	SS - 1.6.4	2055 Alpine Court IC Installation	l.s.	1	\$	\$
8.04	SS - 1.6.4	2060 Alpine Court IC Installation	l.s.	1	\$	\$
8.05	SS - 1.6.4	2065 Alpine Court IC Installation	l.s.	1	\$	\$
8.06	SS - 1.6.4	3004 Armada St IC Installation	l.s.	1	\$	\$
8.07	SS - 1.6.4	3007 Armada St IC Installation	l.s.	1	\$	\$
8.08	SS - 1.6.4	2185 Austin Avenue IC Installation	l.s.	1	\$	\$
8.09	SS - 1.6.4	561 Carmen Court IC Installation	l.s.	1	\$	\$
8.10	SS - 1.6.4	567 Carmen Court IC Installation	l.s.	1	\$	\$

ITEM NO.	MMCD Ref. / Supp. Specs	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
8.11	SS - 1.6.4	572 Carmen Court IC Installation	l.s.	1	\$	\$
8.12	SS - 1.6.4	578 Carmen Court IC Installation	l.s.	1	\$	\$
8.13	SS - 1.6.4	579 Carmen Court IC Installation	l.s.	1	\$	\$
8.14	SS - 1.6.4	585 Carmen Court IC Installation	l.s.	1	\$	\$
8.15	SS - 1.6.4	607 Chapman Avenue IC Installation	l.s.	1	\$	\$
8.16	SS - 1.6.4	613 Chapman Avenue IC Installation	l.s.	1	\$	\$
8.17	SS - 1.6.4	617 Chapman Avenue IC Installation	l.s.	1	\$	\$
8.18	SS - 1.6.4	625 Chapman Avenue IC Installation	l.s.	1	\$	\$
8.19	SS - 1.6.4	631 Chapman Avenue IC Installation	l.s.	1	\$	\$
8.20	SS - 1.6.4	633 Chapman Avenue IC Installation	l.s.	1	\$	\$
8.21	SS - 1.6.4	645 Chapman Avenue IC Installation	l.s.	1	\$	\$
8.22	SS - 1.6.4	659 Chapman Avenue IC Installation	l.s.	1	\$	\$
8.23	SS - 1.6.4	516 Draycott Street IC Installation	l.s.	1	\$	\$
8.24	SS - 1.6.4	517 Draycott Street IC Installation	l.s.	1	\$	\$
8.23	SS - 1.6.4	521 Draycott Street IC Installation	l.s.	1	\$	\$
8.24	SS - 1.6.4	524 Draycott Street IC Installation	l.s.	1	\$	\$
8.25	SS - 1.6.4	529 Draycott Street IC Installation	l.s.	1	\$	\$
8.26	SS - 1.6.4	532 Draycott Street IC Installation	l.s.	1	\$	\$
8.27	SS - 1.6.4	533(535) Draycott Street IC Installation	l.s.	1	\$	\$
8.28	SS - 1.6.4	536 Draycott Street IC Installation	l.s.	1	\$	\$
8.29	SS - 1.6.4	537 Draycott Street IC Installation	l.s.	1	\$	\$
8.30	SS - 1.6.4	549 Draycott Street IC Installation	l.s.	1	\$	\$
8.31	SS - 1.6.4	550 Draycott Street IC Installation	l.s.	1	\$	\$
8.32	SS - 1.6.4	553 Draycott Street IC Installation	l.s.	1	\$	\$
8.33	SS - 1.6.4	558 Draycott Street IC Installation	l.s.	1	\$	\$
8.34	SS - 1.6.4	559 Draycott Street IC Installation	l.s.	1	\$	\$
8.35	SS - 1.6.4	573 Draycott Street IC Installation	l.s.	1	\$	\$
8.36	SS - 1.6.4	574 Draycott Street IC Installation	l.s.	1	\$	\$
8.37	SS - 1.6.4	578/580 Draycott Street IC Installation	l.s.	1	\$	\$
8.38	SS - 1.6.4	587 Draycott Street IC Installation	l.s.	1	\$	\$
8.39	SS - 1.6.4	596 Draycott Street IC Installation	l.s.	1	\$	\$
8.40	SS - 1.6.4	601 Draycott Street IC Installation	l.s.	1	\$	\$
8.41	SS - 1.6.4	602 Draycott Street IC Installation	l.s.	1	\$	\$
8.42	SS - 1.6.4	606 Draycott Street IC Installation	l.s.	1	\$	\$
8.43	SS - 1.6.4	609 Draycott Street IC Installation	l.s.	1	\$	\$
8.44	SS - 1.6.4	610 Draycott Street IC Installation	l.s.	1	\$	\$
8.45	SS - 1.6.4	613 Draycott Street IC Installation	l.s.	1	\$	\$
8.46	SS - 1.6.4	617 Draycott Street IC Installation	l.s.	1	\$	\$
8.47	SS - 1.6.4	623 Draycott Street IC Installation	l.s.	1	\$	\$
8.48	SS - 1.6.4	625 Draycott Street IC Installation	l.s.	1	\$	\$
8.49	SS - 1.6.4	624(628) Draycott Street IC Installation	l.s.	1	\$	\$
8.50	SS - 1.6.4	629 Draycott Street IC Installation	l.s.	1	\$	\$

ITEM NO.	MMCD Ref. / Supp. Specs	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
8.51	SS - 1.6.4	643 Draycott Street IC Installation	l.s.	1	\$	\$
8.52	SS - 1.6.4	647 Draycott Street IC Installation	l.s.	1	\$	\$
8.53	SS - 1.6.4	651 Draycott Street IC Installation	l.s.	1	\$	\$
8.54	SS - 1.6.4	546 Ferris Street IC Installation	l.s.	1	\$	\$
8.55	SS - 1.6.4	3004 Fleet Street IC Installation	l.s.	1	\$	\$
8.56	SS - 1.6.4	2070 Foster Avenue IC Installation	l.s.	1	\$	\$
8.57	SS - 1.6.4	2092 Foster Avenue IC Installation	l.s.	1	\$	\$
8.58	SS - 1.6.4	2318/20 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.59	SS - 1.6.4	2323 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.60	SS - 1.6.4	2325 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.61	SS - 1.6.4	2335 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.62	SS - 1.6.4	2340 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.63	SS - 1.6.4	2350 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.64	SS - 1.6.4	2360 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.65	SS - 1.6.4	2375 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.66	SS - 1.6.4	2400 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.67	SS - 1.6.4	2420 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.68	SS - 1.6.4	2425 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.69	SS - 1.6.4	2430 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.70	SS - 1.6.4	2435 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.71	SS - 1.6.4	2445 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.72	SS - 1.6.4	2470 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.73	SS - 1.6.4	2475 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.74	SS - 1.6.4	2480 Haversley Avenue IC Installation	l.s.	1	\$	\$
8.75	SS - 1.6.4	536 Hickey Street IC Installation	l.s.	1	\$	\$
8.76	SS - 1.6.4	1971 Kelso Court IC Installation	l.s.	1	\$	\$
8.77	SS - 1.6.4	1525 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.78	SS - 1.6.4	1535 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.79	SS - 1.6.4	1991 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.80	SS - 1.6.4	2205 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.81	SS - 1.6.4	2215 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.82	SS - 1.6.4	2245 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.83	SS - 1.6.4	2249 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.84	SS - 1.6.4	2259 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.85	SS - 1.6.4	2265 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.86	SS - 1.6.4	2273 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.87	SS - 1.6.4	2280 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.88	SS - 1.6.4	2281 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.89	SS - 1.6.4	2305 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.90	SS - 1.6.4	2320 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.91	SS - 1.6.4	2325 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.92	SS - 1.6.4	2355 King Albert Avenue IC Installation	l.s.	1	\$	\$



ITEM NO.	MMCD Ref. / Supp. Specs	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
8.93	SS - 1.6.4	2368 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.94	SS - 1.6.4	2384 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.95	SS - 1.6.4	2385 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.96	SS - 1.6.4	2405 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.97	SS - 1.6.4	2425 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.98	SS - 1.6.4	2435 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.99	SS - 1.6.4	2445 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.100	SS - 1.6.4	2474 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.101	SS - 1.6.4	2475 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.102	SS - 1.6.4	2494 King Albert Avenue IC Installation	l.s.	1	\$	\$
8.103	SS - 1.6.4	687 Linton Street IC Installation	l.s.	1	\$	\$
8.104	SS - 1.6.4	689 Linton Street IC Installation	l.s.	1	\$	\$
8.105	SS - 1.6.4	691 Linton Street IC Installation	l.s.	1	\$	\$
8.106	SS - 1.6.4	695 Linton Street IC Installation	l.s.	1	\$	\$
8.107	SS - 1.6.4	698 Linton Street IC Installation	l.s.	1	\$	\$
8.108	SS - 1.6.4	699 Linton Street IC Installation	l.s.	1	\$	\$
8.109	SS - 1.6.4	703 Linton Street IC Installation	l.s.	1	\$	\$
8.110	SS - 1.6.4	706 Linton Street IC Installation	l.s.	1	\$	\$
8.111	SS - 1.6.4	710 Linton Street IC Installation	l.s.	1	\$	\$
8.112	SS - 1.6.4	714 Linton Street IC Installation	l.s.	1	\$	\$
8.113	SS - 1.6.4	718 Linton Street IC Installation	l.s.	1	\$	\$
8.114	SS - 1.6.4	719 Linton Street IC Installation	l.s.	1	\$	\$
8.115	SS - 1.6.4	722 Linton Street IC Installation	l.s.	1	\$	\$
8.116	SS - 1.6.4	726 Linton Street IC Installation	l.s.	1	\$	\$
8.117	SS - 1.6.4	730 Linton Street IC Installation	l.s.	1	\$	\$
8.118	SS - 1.6.4	731 Linton Street IC Installation	l.s.	1	\$	\$
8.119	SS - 1.6.4	735 Linton Street IC Installation	l.s.	1	\$	\$
8.120	SS - 1.6.4	304 Mariner Way IC Installation	l.s.	1	\$	\$
8.121	SS - 1.6.4	312 Mariner Way IC Installation	l.s.	1	\$	\$
8.122	SS - 1.6.4	316 Mariner Way IC Installation	l.s.	1	\$	\$
8.123	SS - 1.6.4	560 Orkney Court IC Installation	l.s.	1	\$	\$
8.124	SS - 1.6.4	561 Orkney Court IC Installation	l.s.	1	\$	\$
8.125	SS - 1.6.4	566 Orkney Court IC Installation	l.s.	1	\$	\$
8.126	SS - 1.6.4	568 Orkney Court IC Installation	l.s.	1	\$	\$
8.127	SS - 1.6.4	573 Orkney Court IC Installation	l.s.	1	\$	\$
8.128	SS - 1.6.4	578 Orkney Court IC Installation	l.s.	1	\$	\$
8.129	SS - 1.6.4	579 Orkney Court IC Installation	l.s.	1	\$	\$
8.130	SS - 1.6.4	584 Orkney Court IC Installation	l.s.	1	\$	\$
8.131	SS - 1.6.4	585 Orkney Court IC Installation	l.s.	1	\$	\$
8.132	SS - 1.6.4	1891 Rideau Avenue IC Installation	l.s.	1	\$	\$
8.133	SS - 1.6.4	2610 Spuraway Avenue IC Installation	l.s.	1	\$	\$
8.134	SS - 1.6.4	2614 Spuraway Avenue IC Installation	l.s.	1	\$	\$

ITEM NO.	MMCD Ref. / Supp. Specs	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
8.135	SS - 1.6.4	2618 Spuraway Avenue IC Installation	l.s.	1	\$	\$
8.136	SS - 1.6.4	2622 Spuraway Avenue IC Installation	l.s.	1	\$	\$
8.137	SS - 1.6.4	2995 Spuraway Avenue IC Installation	l.s.	1	\$	\$
8.138	SS - 1.6.4	2821 Spuraway Avenue IC Installation	l.s.	1	\$	\$
8.139	SS - 1.6.4	2924 Spuraway Avenue IC Installation	l.s.	1	\$	\$
8.140	SS - 1.6.4	2931 Spuraway Avenue IC Installation	l.s.	1	\$	\$
8.141	SS - 1.6.4	2941 Spuraway Avenue IC Installation	l.s.	1	\$	\$
8.142	SS - 1.6.4	3018 Spuraway Avenue IC Installation	l.s.	1	\$	\$
8.143	SS - 1.6.4	449 Walker Street IC Installation	l.s.	1	\$	\$
8.144	SS - 1.6.4	2080 Winslow Avenue IC Installation	l.s.	1	\$	\$
8.145	SS - 1.6.4.2	IC installation on additional depth(Provisional)	m	25	\$	\$
8.146	SS - 1.6.7	Sanitary service connection tie in to sanitary main c/w pvc wye (Provisional)	ea	15	\$	\$

**Total Tendered Price (exclude GST): \$** \_\_\_\_\_

(Transfer the amount to Form of Tender Summary Page 1)

**Name of Contractor:** \_\_\_\_\_

**Appendix 2  
2016 & 2017 IC Installations & Water Service Renewals  
Contract 84311E**

**PRELIMINARY CONSTRUCTION SCHEDULE  
(See paragraph 5.3.2 of the Instructions to Tenderers - Part II)**

INDICATE SCHEDULE WITH BAR CHART WITH CONSTRUCTION DURATIONS

**THIS IS A MANDATORY PART OF THE TENDER SUBMISSION**

CONSTRUCTION ACTIVITY	JAN.		FEBRUARY				MARCH					APRIL	
	3	4	1	2	3	4	1	2	3	4	5	1	2

Completion Date: **April 8, 2016** \_\_\_\_\_

Proposed Disposal Site: \_\_\_\_\_

**Appendix 3**

**2016 & 2017 IC Installations & Water Service Renewals  
 Contract 84311E**

**EXPERIENCE OF SUPERINTENDENT**

(Reference MMCD Instructions to Tenderers – Part II, Item 5.3.3, and  
 Supplementary Specifications, Section 1.0 - Contract Specific Instructions, Items 1.02 & 1.03)

**Proposed Project Superintendent** \_\_\_\_\_

**List of Project Experience**

<b>PROJECT:</b>		<b>Dates:</b>	
<b>Work Description:</b>			
<b>Responsibility:</b>			
<b>Owner/Reference:</b>		<b>Phone NO:</b>	

<b>PROJECT:</b>		<b>Dates:</b>	
<b>Work Description:</b>			
<b>Responsibility:</b>			
<b>Owner/Reference:</b>		<b>Phone NO:</b>	

<b>PROJECT:</b>		<b>Dates:</b>	
<b>Work Description:</b>			
<b>Responsibility:</b>			
<b>Owner/Reference:</b>		<b>Phone NO:</b>	

**Appendix 4**

**2016 & 2017 IC Installations & Water Service Renewals  
 Contract 84311E**

**CONTRACTOR'S COMPARABLE WORK EXPERIENCE  
 (See paragraph 5.3.4 of the Instructions to Tenderers - Part II)**

<b>PROJECT:</b>		<b>VALUE (\$):</b>	
<b>OWNER:</b>		<b>Phone Number:</b>	
<b>Work Description:</b>			

<b>PROJECT:</b>		<b>VALUE (\$):</b>	
<b>OWNER:</b>		<b>Phone Number:</b>	
<b>Work Description:</b>			

<b>PROJECT:</b>		<b>VALUE (\$):</b>	
<b>OWNER:</b>		<b>Phone Number:</b>	
<b>Work Description:</b>			

<b>PROJECT:</b>		<b>VALUE (\$):</b>	
<b>OWNER:</b>		<b>Phone Number:</b>	
<b>Work Description:</b>			

**Appendix 5**

**2016 & 2017 IC Installations & Water Service Renewals  
Contract 84311E**

**SUBCONTRACTORS**

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

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No:</b>	

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No:</b>	

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No:</b>	

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No:</b>	

<b>Trade:</b>		<b>Tender Item:</b>	
<b>Work Description:</b>			
<b>Subcontractor:</b>		<b>Phone No:</b>	

**Appendix 6**

**BID BOND**

NO. \_\_\_\_\_

\$ \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS THAT

\_\_\_\_\_  
As Principal, hereinafter called the Principal, and

\_\_\_\_\_  
As Surety, hereinafter called the Surety, are held and firmly bound unto

\_\_\_\_\_  
As Obligee, hereinafter called the Obligee, in the amount of

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_) lawful money of Canada,  
for the payment of which sum, well and truly to be made, the Principal and the Surety bind themselves, their heirs,  
executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a written Tender to the Obligee, dated the \_\_\_\_\_ day of  
\_\_\_\_\_, 20\_\_ for Contract \_\_\_\_\_.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the aforesaid Principal shall have the Tender  
accepted within sixty (60) days from the Closing Date of Tender and the said Principal will, within the time required, enter  
into a formal contract and give good and sufficient bonds to secure the performance of the terms and conditions of the  
Contract, then this obligation shall be null and void; otherwise the Principal and Surety will pay unto the Obligee the  
difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally  
contracts with another party to perform the work if the latter amount be in excess of the former.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

Any suit under this Bond must be instituted before the expiration of six (6) months from the date of this Bond.

IN TESTIMONY WHEREOF, the Principal has hereto set its hand and affixed its seal, and the Surety has caused these  
presents to be sealed with its corporate seal duly attested by the signature of its Attorney-In-Fact,  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

SIGNED, SEALED AND DELIVERED

In the presence of:

_____ )	_____
_____ )	PRINCIPAL
_____ )	
_____ )	_____
_____ )	SURETY

---

## Appendix 7

### CERTIFICATE OF COMPLIANCE for CONTRACT INSURANCE

---

This is to certify that the Tenderer does hereby undertake and agree to supply to the City of Coquitlam, upon demand, contract insurance listed below for the project requirements indicated:

**Contract Number:** 84311E

**Contract Name:** 2016 & 2017 IC Installations & Water Service Renewals

**Description of Work:**

- Supply & Installation of approx. 11 storm service inspection chambers, 144 sanitary service inspection chambers, 80 water service renewals, 9 - C71P TC c/w storz connection, air valve & blow off valve upgrades and storm & sanitary main repairs.
- Other miscellaneous and incidental works as contained in the Contract Documents

**Commercial General Liability:** \$5,000,000 limit

<b>Special Coverage Required:</b>	<b>YES</b>	<b>NO</b>	<b>Special Coverage Description</b>
	( )	(X)	Shoring and Underpinning Hazard
	( )	(X)	Pile Driving and Vibrations
	(X)	( )	Excavation Hazard
	( )	(X)	Demolition
	( )	(X)	Blasting

We also certify that the insurance coverage will meet the requirements of the Supplementary General Conditions Section 24 – Insurance, included as part of the Contract Documents, and that the proof of insurance will be provided on the City of Coquitlam Certificate of Insurance form, without amendments, except for the exclusions noted above.

\_\_\_\_\_  
*Name of Tenderer (printed)*

\_\_\_\_\_  
*Authorized Signature*

\_\_\_\_\_  
Date



# *Agreement*

**AGREEMENT**

**Between Owner and Contractor**

( FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT - TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS. )

**THIS AGREEMENT** made in duplicate this \_\_\_\_ day of \_\_\_\_\_ 2016.

*Contract:*           **2016 & 2017 IC Installations & Water Service Renewals**  
*Reference No.*   **84311E**

**BETWEEN:**

The City of Coquitlam  
 3000 Guildford Way  
 Coquitlam BC V3B 7N2

(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* on or before **April 8, 2016**, subject to the provisions of the *Contract Documents* for adjustments to the *Contract Time*.
- 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", and Schedule 2, entitled "List of Drawings" which are attached and form 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:
- 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
  - 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
  - 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 hereunder 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, by email, by fax, or by pre-paid registered mail to the addresses as set out below:

The *Owner*:

The City of Coquitlam  
3000 Guildford Way  
Coquitlam, BC V3B 7N2

Tel: 604-927-3500

Fax: 604-927-3525

The *Contractor*:

Tel:  
Fax:  
Email:  
Attention:

The *Contract Administrator*:

The City of Coquitlam  
3000 Guildford Way  
Coquitlam, BC V3B 7N2

Tel:  
Fax:  
Email:  
Attention:

- 6.2 A communication or notice that is addressed as above shall be considered to have been received:
- a) immediately upon delivery, if delivered by hand; or
  - b) immediately upon transmission if sent or received by email or fax; or
  - 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 email or fax assumes all risk that the email or fax will be received properly, and the provisions of paragraph 12.5 of the Instructions to Tenderers Part II 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 enure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first written above.

*Contractor:*

\_\_\_\_\_  
(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

\_\_\_\_\_  
(AUTHORIZED SIGNATORY)

\_\_\_\_\_  
(AUTHORIZED SIGNATORY AND POSITION - PRINT)

*Owner:*

\_\_\_\_\_  
(FULL LEGAL NAME OF OWNER)

\_\_\_\_\_  
(MAYOR)

\_\_\_\_\_  
(CITY CLERK)

---

**Schedule 1**

**Schedule of Contract Documents**

(INCLUDE IN LIST ALL DOCUMENTS INCLUDING, IF ANY, SUPPLEMENTARY GENERAL CONDITIONS, SUPPLEMENTARY SPECIFICATIONS, SUPPLEMENTARY STANDARD DETAIL DRAWINGS)

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", edition dated 2000. All sections of this publication are included in the *Contract Documents*.

- 1 Agreement, including all Schedules;
- 2 Supplementary General Conditions, if any;
- 3 General Conditions\*;
- 4 Supplementary Specifications, if any;
- 5 Specifications\*;
- 6 Supplementary Detail Drawings, if any;
- 7 Standard Detail Drawings, if any;
- 8 Executed Form of Tender, including all Appendices;
- 9 Drawings listed in Schedule 2 to the Agreement - "List of Drawings";
- 10 Instructions to Tenderers - Part I;
- 11 Instructions to Tenderers - Part II\*;
- 12 The following Addenda:
  - As issued.
- 13 City of Coquitlam Supplementary Specifications for Contract Documents.

**Schedule 2**  
**LIST OF DRAWINGS**

**(Complete Listing of All Drawings, Plans and Sketches that are part of the Contract Documents)**

**Bound in the Supplementary Contract Document:**

<b>TITLE</b>	<b>Drawing Number</b>	<b>Page Number</b>	<b>REVISION DATE</b>	<b>Rev. No.</b>
2016 & 2017 IC Installations and Water Service Renewals – Location Maps	n/a	LM 1 to LM 22	n/a	n/a
Tabular Report of Video Recording	n/a	VR 1 to VR 3	n/a	n/a
Utility Connection Cards	n/a	UCC 1 to UCC 376	n/a	n/a
Storm Main Asbuilts	n/a	D1 to D29	n/a	n/a
Sanitary Main Asbuilts	n/a	S1 to S28	n/a	n/a
Water Main Asbuilts	n/a	W1 to W22	n/a	n/a

*Supplementary  
General Conditions*



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These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2000

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These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2000

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**CONTRACT 3**

**ADMINISTRATOR**

**Appointment 3.1.3**

*(Add new clause 3.1.3 as follows):*

The Contractor shall promptly and efficiently comply with any reasonable instruction issued by the Contract Administrator.

**Contract Administration 3.3.10**

*(Add new clause 3.3.10 as follows:)*

The Contractor is responsible for all survey layout for the construction of the Work to the design specifications and/or elevations as shown on the contract drawings or as amended on site by the Contract Administrator.

**Inspection and Site Inspector 3.4**

3.4.9

*(Add new clause 3.4.9 as follows):*

The Contractor shall, before commencing the work, satisfy himself as to the meaning and correctness of all stakes, marks, grade sheets and other as-built notes.

The Contractor will be required to work with the City's Project Inspector with respect to line and grade of the pavement rehabilitation work including base gravel grading to ensure final surface drainage.

The Contractor will be responsible to provide all construction Survey and information for completion of the as-builts.

If at any time during the progress of the work any error shall appear or arise in the position, levels, dimensions or alignment of any part of the work, the Contractor shall stop work on his portion of the project and notify the Contract Administrator who will within a reasonable time verify the same. If the Contractor proceeds with the work after a discrepancy is discovered, he does so at his own risk. The Contractor shall make allowances in his work schedule for delays of this nature and shall not claim or be paid for related stand-by or shut-down time.

**CONTRACTOR 4**

**Control of the Work**

4.1

*(Add to clause 4.1.2 as follows):*

4.1.2

During all phases of the operation the Contractor shall take precautions to abate nuisance caused by mud or dust by clean-up, sweeping, sprinkling with water, or other means as necessary to accomplish results satisfactory to the Contract Administrator.

The Contractor shall take care to prevent spillage on streets over which hauling is done and the Contractor shall immediately clean up any such spillage or debris deposited on streets due to his operations.

The Contractor shall not deposit any material upon any street, sidewalk, boulevard or other property, without the Contract Administrator's or the Owner's permission, nor shall he allow the same to remain longer than necessary. All surplus spoil and rubbish and other waste material shall be removed from the site so that the area of work is cleaned up and restored to as clean a condition as it was before the Contract started, within four days of the Contract Administrator's written

request to do so, failing which the Owner may carry out the work or have the work carried out by others and recover the costs from the Contractor or may deduct the cost from any monies due or that may become due to the Contractor.

**Hours of Work**

4.1.3

*(Add new Clause 4.1.3 as follows):*

Work can be performed during the normal weekday working hours of 0700h to 1900h. Written permission from the Contract Administrator will be required for any works to be performed outside of the normal working days of Monday to Friday.

No Sunday work will be permitted, except in case of emergency and then only with the written permission of the Contract Administrator and to such extent as he deems necessary.

In case the Contractor decides to work on a day which is a Statutory Holiday, he shall provide the Contract Administrator in writing at least (4) days in advance of such holiday, stating those places where said work is to be conducted. In case the Contractor fails to give such notice in advance of any Statutory Holiday, no work within the terms of the contract shall be done on such holiday.

The Contractor shall not schedule work that will require inspection beyond the Owner's normal office hours and working days without prior approval from the Contract Administrator. Any extra cost incurred by the Owner for work done outside of normal office hours and working days will be deducted from the Contractor's monthly payments unless pre-approved by the Contract Administrator. The cost of inspections on a Sunday or on a Statutory Holiday by City staff/s will be at Contractor's expense. No greater quantity of work shall be undertaken at any one time than can be properly conducted with due regard to the rights and interests of the public, as may be determined by the Contract Administrator.

If Road and Sidewalk Closure Permits are issued, the work will be restricted to the time limits indicated on the permit.

**Traffic Control Management**

4.1.4

*(Add new clause 4.1.4 as follows):*

The Contractor shall ensure safe passage of vehicles and pedestrian through the work zone and have a traffic management plan, approved by Contract Administrator, and an approved Road and Sidewalk Closure Permit in place prior to start of work. The Contractor shall follow City's Traffic Management Detail Specifications.

Refer to Contract's Supplementary Specifications - Appendix A: Traffic Management Detail Specifications

**Safety**

4.2

*(Add new clause 4.2.2 as follows):*

4.2.2

For the purposes of Occupational Health and Safety, the Contractor is the "Prime Contractor" as detailed in the Worker's Compensation Act,

Section 118. The *Contractor* shall have and maintain an Occupational Health and Safety Program that meets the requirements of the WCB and the WCB OH&S Regulations.

**Protection of Work,  
Property and the  
Public**

4.3

*(Replace Clause 4.3.4 as follows):*

4.3.4

Before commencing any *Work* at the *Place of the Work*, the *Contractor* shall be responsible to locate in three dimensions all underground utilities and structures indicated on the *Contract Documents* as being the *Place of the Work*. The *Contractor* shall also be responsible to consult with all the utility corporations that provide electricity, communications, gas or other utility services in the area of the *Place of Work*, to locate all underground utilities for which they have records. The *Contractor* shall also locate in three dimensions any other utilities or underground structures that are reasonably apparent in an inspection of the *Place of the Work*. Costs to do the locates will be incidental to the contract.

4.3.7

*(Add new clause 4.3.7 as follows):*

Any lands other than those upon which the work is to be performed, which may be required for temporary facilities, storage purposes or access to the work site, other than those provided by the *Owner*, shall be provided by the *Contractor* at his own cost, with no liability to the *Owner*.

4.3.8

*(Add new clause 4.3.8 as follows):*

The *Contractor* shall conduct his operations so as to cause the minimum obstruction and inconvenience to traffic and to places of business and residences adjacent to the *Place of Work*. No greater quantity of work shall be undertaken at any one time than can be properly conducted with due regard to the rights and interests of the public as may be determined by the *Contract Administrator*.

The *Contractor* is to provide at all times safe and convenient means of approach and entrance to adjoining lanes, driveways, buildings and property both for vehicles and pedestrians to the satisfaction of the *Contract Administrator*. For this purpose he shall construct and maintain suitable and safe platforms, approaches, structures, bridges, diversions or other works.

Where traffic must cross open trenches, the *Contractor* shall provide suitable bridges. Where trenches have been backfilled or where road improvements are incomplete the *Contractor* shall take any steps necessary to prevent potholes or other traffic hazards. Where the *Contract Administrator* so instructs or where Contract Specifications so require, the *Contractor* shall provide temporary asphalt patching of such hazards.

**Construction  
Schedule**

4.6

*(Replace Clause 4.6.1 as follows):*

4.6.1

The *Contractor* shall within the time set out in the Form of Tender prepare and submit to the *Contract Administrator* for his approval a construction schedule (the Baseline Construction Schedule) indicating the planned start and completion dates of major activities of the *Work*. The Baseline Construction Schedule shall be in more detail than the Preliminary Construction Schedule and shall indicate completion of the *Work* in

compliance with any specified Milestone Dates, including Substantial Performance.

4.6.6 *(Replace Clause 4.6.6 as follows):*  
The time for the performance of the Work shall commence on the date specified in the Notice to Proceed, or if not so specified, on the date the Notice to Proceed is issued.

4.6.7 *(Add new Clause 4.6.7 as follows):*  
Any requests to lengthen the work schedule shall be made in writing by the Contractor within five working days of knowledge of the reason for the extension. The Contract Administrator will adjust the schedule at his discretion upon receipt of a written request.

**Workers**

4.8 *(Add new Clause 4.8.2. as follows):*  
4.8.2 The Contractor shall, upon the request of the Contract Administrator, remove any person employed by him for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted himself improperly, and the Contractor shall not permit a person who has been removed to return to the Place of Work.

**Materials**

4.9  
4.9.3 *(Add new clause 4.9.3 as follows):*  
The Contractor shall, at his cost,  
a) Be responsible for storing all of the materials supplied for the Work either by himself or the Owner, until it has been incorporated into the completed Work;  
b) Store all materials in a manner which will prevent damage from the weather, dirt, foreign matter, vandalism and theft;  
c) Arrange for and/or verify the time of delivery of all materials to be supplied by himself or the Owner to ensure that delivery will coincide with his work schedules.  
d) Examine with the Contract Administrator the quantities and details of all materials supplied by the Owner at the time and place of delivery or those materials already at the Place of Work, and prepare and sign a Statement of Materials Acceptance, specifically noting and rejecting any defective material;  
e) Replace all materials supplied by himself or the Owner which are found to be stolen, missing or damaged while under his care;  
f) Assume responsibility, upon signing of the Contract, for all materials supplied by the Owner and already at the Place of Work.  
g) Replace all materials found to be defective in manufacture which have been supplied by himself.

**Subcontractors**

4.11  
4.11.3 *(Delete clause 4.11.3 and replace with):*  
The Contractor shall, upon notice of the Contract Administrator,

remove any Subcontractor employed by him for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted himself improperly, and the Contractor shall not permit the Subcontractor who has been removed to return to the Place of Work. The removal of a Subcontractor under this clause shall not be considered a Change and the Contract Price and the Contract Time shall not be adjusted.

**Test and Inspections** 4.12

4.12.2 *(Delete clause 4.12.2(a) and replace with):*

The Contractor will arrange for and pay for all testing for work described in this section. The testing shall take place at the prescribed rates and frequencies as directed by the Contract Administrator. The Contract Administrator has the authority to call for testing, up to the rates and frequencies specified, at the Contractor's cost.

All testing covered under this item shall be performed by a CSA certified laboratory and technicians with copies of all test results to be sent directly to the Contract Administrator. Re-testing resulting from failed first tests shall be at the Contractors expense. Test rates and frequencies (excluding failed tests), when not defined in the MMCD. The Contractor is responsible for the Quality Control as defined in Supplementary Contract Specifications, Section 01400S.

4.12.8 *(Add Clause 4.12.8 as follows):*

The Contractor shall give the Contract Administrator two (2) full working days' notice to arrange and witness any testing required by the Contract.

4.12.9 *(Add Clause 4.12.9 as follows):*

Failure to follow DFO/MOE BMPs for Instream Works or as instructed by Contract Administrator will result in shut-down of the work. Failure to comply on what is stated on the approved permit will result in shut-down of the work. The Contractor will be required to safely restore facility conditions to allow traffic and creek flow at their expense. The Contractor must take all steps to mitigate impacts to aquatic resources, environment and habitats before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.

**Final Clean-up** 4.14

4.14.3 *(Add new Clause 4.14.3 as follows):*

The Contractor will be responsible for the complete clean-up of the work site at the end of construction and prior to the Substantial Performance review. The clean-up is considered incidental to the Contract.

The work will include cleaning of all catch basins within the work area, or nearby location as affected by the Work, regardless of the condition of the catch basins prior to starting the Work and all manholes and/or sewers affected by work done under this contract. All cleaning is to be performed by vacuum truck to the satisfaction of the Contract

Administrator and will include off-site disposal of waste material.

**Notice of Disruption** 4.16  
4.16.2

*(Add new Clause 4.16.2 as follows):*

Written notice must be provided to all properties which may be physically affected by the construction not less than one week and not more than two weeks prior to construction.

Notify occupants directly affected by the work 48 hours in advance of commencement of construction.

Cost of notifying area occupants of ensuing construction and delivery of the notices is incidental to the Contract. Cost of obtaining releases from area occupants affected by construction is incidental to the Contract.

**OTHER CONTRACTORS** 6

**Coordination and Connection** 6.2  
6.2.1

*(Delete clause 6.2.1 and replace with):*

The Contractor shall, in accordance with usual construction practice, coordinate the Work with the Other Work and connect to Other Work as specified or shown in the Contract Documents. The Contractor shall not be entitled to additional payment or an extension of contract time for delays where connections to works were specified in the Contract.

**CHANGES** 7

**Optional Work** 7.4  
7.4.2

*(Add new clause 7.4.2 as follows):*

If there are Optional items or Provisional items included in the *Schedule of Quantities and Prices*, those items shall be used only as directed and at the sole discretion of the Contract Administrator. These items will be paid at the contract unit price as part of regular progress payments. Only quantities used will be eligible for payment. No claim will be accepted for unused Optional or Provisional quantities.

**VALUATION OF CHANGES AND EXTRA WORK** 9

**Valuation Method** 9.2.4

*(Replace Clause 9.2.4 as follows):*

Once a quotation is accepted by the Contract Administrator, or other agreement reached between the Contract Administrator and the Contractor regarding adjustments to the Contract Price or Contract Time on account of a Change or Extra Work, the Contractor shall not be entitled to claim or receive additional payment, or adjustment to the Contract Time on account of a Change or Extra Work.

**CONCEALED OR UNKNOWN** 11



**CONDITIONS**

**Confirmation of Existing Utility Information**

11.4

*(Add new clause 11.4 as follows):*

Further to the requirements of the General Conditions, the Contractor shall expose and locate all existing utilities to be crossed prior to construction. Information shown on drawings is derived from existing record drawings and no responsibility is implied or assumed by the City or Consultants who prepared the designs as to the location, accuracy or omissions. Cost to do the pre locating will be incidental to the contract.

The Contract Administrator will not authorize any pipe or culvert installation to proceed until all existing utility locations are verified, and all conflicts with proposed designs are resolved.

**DELAYS**

13

**Delay by Owner or Contract Administrator**

13.1.2

*(Add new Clause 13.1.2 as follows):*

The Owner may at any time suspend the work or any portion thereof provided he gives the Contractor five (5) days' written notice of delay. The Contractor shall resume work upon written notice from the Owner, The Contractor shall be entitled to:

a) An extension of the Contract time equivalent to the length of suspension of work.

b) Reimbursement by the Owner for directly related out-of-pocket additional costs, reasonably and necessarily incurred by the Contractor as a result of such suspension. No additional payment will be made to the Contractor for any loss of profits or overhead.

**Direction to Stop or Delay**

13.7.3

*(Add new Clause 13.7.3 as follows):*

The Contract Administrator may order the Contractor to stop work if at any time the Contract Administrator is of the opinion that there exists a danger to life or property.

**Liquidated Damages for Late Completion**

13.8.1

*(Delete Clause 13.8.1 (a) and replace as follows):*

a) An amount of **\$1000.00** per calendar day for each day, or portion, that *Substantial Performance* is achieved after the date established for *Substantial Performance* in the Contract; plus

**PAYMENT**

18

**Preparation of Payment Certificate**

18.1.1

*(Delete 18.1.1 and replace as follows):*

The Contract Administrator shall prepare and issue a certificate for the period ending the last calendar day of the month.

**Substantial Performance**

18.6.5

*(Delete Clause 18.6.5 and replace as follows):*

The Owner may release any builders lien holdback on the 56th day following the date of Substantial Performance, or other date as required by law, but the Owner may hold back the amounts for any

deficiencies or filed builders liens as provided in GC 18.4.2, GC 18.4.3 and 18.4.4.

18.6.6

*(Replace Clause 18.6.6 as follows):*

The *Contract Administrator*, as defined herein, shall be the *Payment Certifier* responsible under Section 7 of the *Builders Lien Act* for certifying *Substantial Performance* of the *Work* of the *Contractor*, but not the *Work* of *Subcontractors*. The *Contractor* shall cooperate with and assist the *Contract Administrator* by providing information and assistance in as timely manner as the *Contract Administrator* considers necessary to carry out the duties of the *Payment Certifier* for the *Contract*.

The *Contractor* shall be the *Payment Certifier* responsible under Section 7 of the *Builders Lien Act* for certifying *Substantial Performance* of the *Work* of each *Subcontractor*. Prior to certifying completion for a *Subcontractor*, the *Contractor* shall consult the *Contract Administrator* and obtain the *Contract Administrator's* comments on the status of completion by the *Subcontractor*, including any deficiencies or defects in the *Subcontractor's* *Work* noted by the *Contract Administrator*. The *Contractor* will indemnify and save the *Owner* harmless from any and all liability the *Owner* may have to anyone arising out of the certification by the *Contractor* of *Substantial Performance* for that *Subcontractor*.

Notwithstanding any other provision of the *Contract*, no payments will be due or owing to the *Contractor* so long as a Lien filed by anyone claiming under or through the *Contractor* remains registered against the Project of any lands, or interest therein, on which *Work* for the project was performed. Failure of the *Contractor* to remove all Liens promptly will entitle the *Owner* to damages.

**LAWS, NOTICES,  
PERMITS AND FEES**      20

**Environmental Laws**      20.4.2

*(Add new Clause 20.4.2 as follows):*

The successful tenderer will be required to observe and achieve all terms and conditions required under the Fisheries Act. The following is a partial list of conditions that the Contractor shall allow for in its tendered prices:

- All work must be undertaken and completed in such a manner as to prevent the release of silt, sediment or sediment-laden water, raw concrete, concrete leachate, or other deleterious substance into any water courses;
- Silt fences must be erected and maintained around all construction areas;
- All work must be undertaken and completed in isolation of all flowing water to maintain downstream water quality, and unrestricted flows;
- The guidelines for sediment and erosion control outlined in the jointly published BC Environment/Fisheries and Oceans Canada

document "Land Development Guidelines For the Protection of Aquatic Habitat" must be adhered to;

- All work must be carried out during favorable and low water conditions;
- All equipment and machinery must be in good working condition (power washed), free of leaks or excess oil and grease. No equipment refueling or servicing shall be undertaken within a minimum of 30 metres of any water course or surface water drainage;
- A spill containment kit must be readily accessible on site. **Any spill of reportable quantities must be immediately reported to the Provincial Emergency Program's 24 hour phone line at 1-800-663-3456;**
- Machinery must not enter the watercourses without approval of the Contract Administrator;

Any fill used on this project shall be certified inert and from a source which is confirmed to be free of contaminants;

**WORKERS  
COMPENSATION  
REGULATIONS**                    21

**Workers  
Compensation  
Regulations**                    21.4

*(Add new clause 21.4 as follows):*

All works shall be in strict compliance with WorkSafe BC OHS Regulation Part 19 when working near or under any overhead power lines.

21.5

The Contractor must be fully aware of the danger to workers and shall take all necessary safety precautions when working near to existing utilities, such as high pressure gas, water line and BC Hydro lines.

*(Add new clause 21.5 as follows):*

All works shall be in strict compliance with WorkSafe BC OHS Regulations.

**INSURANCE**                    24

*(Delete Clause 24 Insurance and replace as follows):*

**Introduction**                    24.1  
24.1.1

Importance of Prompt Attention to Insurance and Bond Requirements:

The City Council has directed that the apparently successful Contractor, after being so informed, shall complete the "Supplementary General Conditions Regarding Contract Insurance and Bond Specifications". Contractors are advised, however, to make themselves familiar with the Specifications as undue delay may result if advance investigations are not carried out.

24.1.2

Format of the Supplementary General Conditions:

Section 24 deals generally with insurance and bonding with respect to the Contract. Certain documents must be provided at the time of tendering. These requirements are set out in Section 24.3.

Before any work may commence, and no exceptions will be allowed to this rule, certain other documentation will be required and this is set out in Sections 24.4 and 24.5.

**General**

24.2

**Supplementary General Conditions Forming Part of the Contract:**

24.2.1

The Supplementary General Conditions regarding Contract insurance and bond specifications set out herein shall be attached to and form part of the Contract Documents.

24.2.2

**Acceptable Insurance Carriers:**

The insurer issuing any policy, or other document which is evidence of insurance to the Contractor, shall be an insurer licensed by the Superintendent of Insurance in the Province of British Columbia and registered with the Department of Insurance for Canada at Ottawa, except the Insurance Corporation of British Columbia, which is not subject to this condition.

24.2.3

**Owner's Right to Change Terms:**

Notwithstanding anything contained in the Contract Documents, the Owner will have the right to request a change to the specified terms and conditions respecting insurance at the sole option of the Owner. The Contractor will be notified in writing of any changes required by the Owner and will provide a quotation for such work.

24.2.4

**Delivery of Insurance Documents:**

All insurance policies or other acceptable specified documents shall be delivered to, and accepted by, the Owner before the Contract Documents are signed. No work shall be commenced by the Contractor or by anyone acting on the instructions of the Contractor, until the required Insurance Documents have been accepted by the Owner and the Contract Documents have been duly signed by the Owner and the Contractor.

24.2.5

**Owner's Right to Insure:**

Should the Contractor for any reason not comply with the specified requirements with respect to the insurance, the Owner will, at the Owner's option, have the right to purchase all or any part of such insurance which, in the opinion of the Owner, may be required to provide the specified insurance, and, in the event of so doing, the Owner will have the right to pay the premiums for such insurance and to withhold the amount of premiums so paid from any amount due and payable to the Contractor under the Contract.

**Procedure Respecting  
Tendering**

24.3

**Security Deposit:**

24.3.1

Each tender must be accompanied by a Bid Bond on the form included as Appendix 6 in the Form of Tender, said Bid Bond to be issued by a surety company licensed to conduct business in the Province of British Columbia and shall be in the amount of ten percent (10%) of the

Tender Price.

24.3.2 **Certificate of Compliance:**

The Contractor shall submit the Certificate(s) of Compliance included as Appendix 7 of the Form of Tender with respect to the insurance required to be provided by the successful Tenderer.

**Procedure Respecting  
Contract Insurance  
and Bonding**

24.4

**General Conditions:**

24.4.1

**Damage to work** (excluding Building Contracts where Section 24.5, Paragraph 24.5.1, Further Responsibilities of Contractor, applies).

The Contractor shall be responsible for any and all loss, or damage, whatsoever which may occur on or to the works, completed or otherwise, until such time as the entire works have been completed and the Notice of Acceptance has been issued by the Owner, except that loss or damage caused solely by an act of the Owner. In the event of any loss or damage occurring, the Contractor shall, on notice from the Contract Administrator, immediately put the works into the condition it was immediately prior to such loss or damage, all at the Contractor's expense, except where such loss or damage was caused solely by an act of the Owner.

The Contractor shall be responsible for any and all loss or damage whatsoever which may occur on or to the works, completed or otherwise, arising out of the negligence of the Contractor, any subcontractors, and the employees or agents of any of them.

**Indemnity**

The Contractor shall indemnify and save harmless the Owner from and against any and all losses, claims, demands, payments, suits, actions, recoveries, and judgements of every nature and description brought or recovered against him, and/or the Owner, by reason of any act or omission of the said Contractor, his agents, or employees in the execution of the work.

24.4.2

**Bonds:**

To ensure the faithful execution and proper fulfilment of the Contract, the Contractor shall provide the Owner with the following bonds at the time of his execution of the Contract Agreement:

- A Performance Bond in the amount of fifty percent (50%) of the total Contract amount covering the faithful performance of the Contract; and
- A Labour and Material Payment Bond in the amount of fifty percent (50%) of the total Contract Price.

The above bonds must be issued by a surety company licensed to carry on business in the Province of British Columbia and shall be provided on the forms included as Appendix I and Appendix II respectively.

- 24.4.3 **Public Liability Insurance**  
(Other than Automobile Third Party Liability Insurance):  
**Evidence of Insurance**  
The Contractor shall deposit with the Owner, before the work commences, a Certificate of Insurance, signed by an authorized representative of the insurer, such certificate to be as shown in Appendix III.
- Effective Dates and Terms:**  
The effective date of the Certificate of Insurance shall be the date of the execution of the Contract Agreement and the term of this policy shall be from such effective date until a date not less than twelve (12) months after the date of completion of all work under the Contract.
- Limits of Liability:**  
For bodily injury and for property damage shall be inclusive limits not less than \$5,000,000.
- 24.4.4 **Public Liability Insurance (Automobile):**  
The Contractor shall deposit with the Owner before the work commences a Certificate of Insurance with respect to owned automobiles on ICBC Form No. APV 47 entitled "Confirmation of Insurance Coverage" and with respect to Non-Owned Automobiles including hired automobiles and Contractual Liability on ICBC non-owned automobile policy Form APV 29 (if non-owned automobile coverage is not included under the comprehensive general liability coverage) each signed by an authorized representative of the Insurance Corporation of British Columbia.
- Physical Loss or Damage With Respect to New Buildings under Construction and/or Major Additions to Existing Structures**
- 24.5 **Responsibility for Placing Insurance:**
- 24.5.1 The types of insurance required under this section will be provided and maintained at the expense of the City of Coquitlam during the term of the Contract and will be as follows unless otherwise changed by specific endorsement to these Insurance Specifications.
- 24.5.2 **Insurance Coverage Required:**  
Builders Risk Completed Value "All Risks" Course of Construction Insurance. This policy will be written in the names of the City of Coquitlam and the Contractor with loss payable as their respective interests may appear.
- 24.5.3 **Responsibility of Contractor – Limitations of cover and deductibles:**  
The insurance provided by the City of Coquitlam as described herein will not provide the Contractor with full protection against any and all kinds of loss or damage which may arise out of the Contract. It is, therefore, the responsibility of the Contractor to fully understand the scope of the cover provided with particular attention to the exclusions, limitations of cover and deductible provisions contained in the Insuring

Agreements of the policies and it is further the responsibility of the Contractor to take out at the Contractor's expense, whatever other additional insurance the Contractor may consider necessary or desirable for his protection subject as hereinafter provided. The Contractor shall act in the same manner on insurance made available through the City of Coquitlam as he would if he had arranged such insurance himself.

24.5.4 **Responsibility of Contractor – Direct Damage Insurance:**

If the Contractor fails to do all or anything that is required of him concerning insurance, the City of Coquitlam may do what is required and any monies expended by the City of Coquitlam for that purpose shall be repayable and recoverable from the Contractor. Should any action failure, or negligence of the Contractor result in higher insurance costs being incurred by the City of Coquitlam, such additional costs shall be payable or recoverable from the Contractor.

24.5.5 **Responsibility of Contractor – Machinery and Equipment Belonging to Others:**

Unless otherwise directed by the City of Coquitlam in writing, the Contractor shall carry insurance covering loss or damage to construction machinery, tools and equipment owned by and/or on bare rental from a third party or parties and used by the Contractor in performing the work, which insurance shall be in a form satisfactory to the City of Coquitlam and having coverage in accordance with the actual cash value of such construction machinery, tools and equipment. Such policies shall also provide for subrogation to be waived against the City of Coquitlam. A certified copy of the policy shall be delivered to the City of Coquitlam not later than thirty days after the commencement of work under the Contract.

24.5.6 **Contractor's Waiver of Liability to Coquitlam:**

The Contractor hereby releases the City of Coquitlam from any and all liability for damages to the extent that such damages are covered by the course of construction insurance referred to in Section 24.5 of these specifications.

24.5.7 **Liability of Contractor:**

Neither the providing of insurance by the Contractor or the City of Coquitlam in accordance with the requirements hereof, nor the insolvency, bankruptcy, nor failure of any insurance company to pay any claim accruing shall be held to waive any of the provisions of this Contract with respect to the liability of the Contractor or otherwise.

24.5.8 **Responsibility of Contractor for protection of work, persons and property:**

The Contractor and all persons employed by the Contractor or under his control, and all employees and subcontractors, shall use due care

that no person or property is injured, and that no rights are infringed in the prosecution of the work. Contractors shall take particular care to protect the work against loss or damage caused by riot, vandalism or malicious mischief and shall be at the expense of the Contractor provide all necessary safeguards in the form of watchmen and/or watch dog protection to prevent loss or damage of this type. The payment of deductibles is the responsibility of the Contractor and if not paid by the Contractor such amounts shall be deducted by the City of Coquitlam from payment due to the Contractor. These deductibles will normally be \$250.00 each claim.

24.5.9 **Action to be taken in the event of loss or damage to the work covered by the Contract:**

When any loss or damage occurs to the work or to any materials and supplies on the site of the work, the Contractor shall remove any and all damaged or destroyed property and shall rebuild or replace the damaged or destroyed work, materials, or supplies and complete the work to the satisfaction of the Owner. For such removal, rebuilding, or replacing, the Contractor shall be entitled to receive from the Owner the amount of insurance monies received by the Owner pursuant to the said adjustment which amount shall be paid to the Contractor as the work of rebuilding or replacing proceeds, and in accordance with the Agreement. Damage or destruction of the whole or any part of the work shall not affect the rights and obligations of either party under the Agreement, except that in such event the Contractor shall be entitled to such reasonable extension of time to complete the work as the Architect and/or Contract Administrator may decide.

24.5.10 **Further responsibility of Contractor:**

Other than with respect to loss or damage arising out of insured risks and herein before specified, the Contractor shall be responsible for all loss or damage whatsoever which may occur on or to the works completed or otherwise, until such time as the entire works have been completed and the Notice of Acceptance has been issued by the Owner, except that loss or damage caused solely by an act of the Owner.

In the event of any loss or damage occurring, the Contractor shall on notice from the Owner immediately put the works into the condition it was immediately prior to such loss or damage, all at the Contractor's expense except as previously stated.

24.5.11 **Owner Not Responsible for Loss or Damage or Loss of Use of Property of Contractors and their Employees:**

The Owner will not be responsible for securing or paying for insurance of any kind other than as specified in Section 24.5 of these specifications nor will the Owner have any responsibility whatsoever for loss or damage from whatever cause occurring to property owned, leased, or otherwise in the possession of the Contractor,



subcontractors or their employees including, without restricting the generality of the foregoing, machinery, equipment, tools, supplies, and clothing at the construction site or elsewhere including loss of use of same.

**Additional Insured** 24.6 The Contractor shall ensure the following are named as "additional insured" on the liability policy for this contract:

- The City of Coquitlam

The City or Contractor may identify private properties that are directly affected by construction. If so, the Contractor shall include the legal owners of these properties named as "additional insured" on the liability policy for this contract.

**MAINTENANCE PERIOD 25**

**Correction of Defects** 25.1  
25.1.4

*(Add new Clause 25.1.4 as follows):*

The Owner is authorized to make repairs to defects or deficiencies if, ten days after giving written notice, the Contractor has failed to make or undertake with due diligence the required repairs. However, in the case of emergency where, in the opinion of the Owner, delay is not reasonable, repairs may be made without notice being sent to the Contractor. All expenses incurred by the Owner in connection with repairs made pursuant to GC 25 shall be paid by the Contractor or may be deducted from the Maintenance Security, or other holdbacks. The Contractor shall promptly pay any shortfall.

**TERMINATION FOR REASONS OTHER THAN DEFAULT 27**

*(Add new Section 27 as follows):*

27.1 Notwithstanding any other provision of the contract, the Owner may at any time, upon giving fifteen (15) days written notice to the Contractor, terminate the Contract.

27.2 Upon receipt of the Notice from the City pursuant to clause 27.1, the Contractor shall only proceed with those portions of the Work specifically authorized in writing by the Contract Administrator, and shall perform such other related work required to leave the site in a safe condition as is specified by the Contract Administrator, at a cost agreed to by the Owner and the Contractor.

27.3 Upon the termination of the contract in accordance with clause 27.1, the Owner shall have no further obligation to the Contractor save and except to pay the Contractor:

- (a) the amount the Contractor is entitled to for Work completed satisfactorily on the Project to the date of termination; and
- (b) other actual expenses of the Contractor, such as demobilization and compensation for unrecovered fixed expenses which are, in

the opinion of the Contract Administrator reasonable in the circumstances.

APPENDIX I

**PERFORMANCE BOND**

No. \_\_\_\_\_ \$ \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS THAT

\_\_\_\_\_  
As Principal, hereinafter called the Principal, and

\_\_\_\_\_  
As Surety, hereinafter called the Surety, are held and firmly bound unto

\_\_\_\_\_  
As Obligee, hereinafter called the Obligee, in the amount of

\_\_\_\_\_ Dollars

(\$ \_\_\_\_\_ )

lawful money of Canada, for the payment of which sum, well and truly to be made, the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a written contract with the Obligee, dated the

day of \_\_\_\_\_ 2016 , for

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

in accordance with the drawings and specifications submitted, therefore, which contract, drawings and specifications and addenda thereto, to the extent provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the Principal shall promptly and faithfully perform said Contract (including any addenda thereto, provided such addenda do not collectively increase the amount to be paid to the Principal by more than twenty per cent (20%) of the amount of the Contract except with the written consent of the Surety) then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

Whenever the Principal shall be, and declared by Obligee to be, in default under the Contract, the Obligee having performed Obligee's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

\_\_\_\_\_  
These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master  
Municipal Construction Documents, Volume II, Printed 2000



APPENDIX II

**LABOUR AND MATERIAL PAYMENT BOND**

(Private Contracts - Trustee Form)

Note: This Bond is issued simultaneously with another Bond in favour of the Obligee conditioned for the full and faithful performance of the Contract.

KNOW ALL MEN BY THESE PRESENTS THAT

\_\_\_\_\_  
As Principal, hereinafter called the Principal, and

\_\_\_\_\_  
As Surety, hereinafter called the Surety, are, subject to the conditions hereinafter contained, held and firmly bound unto

\_\_\_\_\_  
As Trustee, hereinafter called the Obligee, for the use and benefit of the Claimants, their and each of their heirs, executors, administrators, successors and assigns in the amount of

\_\_\_\_\_ Dollars

(\$ \_\_\_\_\_) lawful money of Canada, for the payment of which sum well and truly to be made, the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns jointly and severally, firmly by these presents.

SIGNED AND SEALED this \_\_\_\_\_ day of \_\_\_\_\_ 2016.

WHEREAS, the Principal has entered into a written contract with the Obligee dated the day of \_\_\_\_\_ 2016, for

\_\_\_\_\_  
\_\_\_\_\_  
which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the Principal shall make payment to all Claimants for all labour and material used or reasonably required for use in the performance of the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

1. A Claimant for the purpose of this Bond, is defined as one having a direct contract with the Principal for labour, material, or both, used or reasonably required for use in the performance of the Contract, labour and material being construed to include the part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment directly applicable to the Contract provided that a person, firm or corporation who rents equipment to the Principal to be used in the performance of the Contract under a contract which provides that all or any part of the rent is to be applied towards the purchase price thereof shall only be a Claimant to the extent of the prevailing industrial rental value of such equipment for the period during which the equipment was used in the performance of the Contract. The prevailing industrial rental value of equipment shall be determined, insofar as it is practical to do so, in accordance with and in the manner provided for in the latest revised edition of the publication of the Canadian Construction Association entitled "Rental Rates on Contractors' Equipment" published prior to the period during which the equipment was used in the performance of the Contract.
2. The Principal and the Surety hereby jointly and severally agree with the Obligee as Trustee that every Claimant who has not been paid as provided for under the terms of his contract with the Principal before the expiration of a period of ninety (90) days after the date on which the last of such Claimant's work or labour was done or performed or materials were furnished by such Claimant, may as a beneficiary of the trust herein provided for, sue on this Bond, prosecute the suite to final judgment for such sum or sums as may be justly due to such Claimant under the terms of his said contract with the Principal and have execution thereon. Provided that the Obligee is not obliged to do or take any act, action or

\_\_\_\_\_  
These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2000



APPENDIX III  
**CERTIFICATE OF INSURANCE**

This Certificate issued to the City of Coquitlam is to certify that policies of insurance, as described below, have been issued to the Insured named below and are in force at this time. It is understood and agreed that thirty (30) days' prior written notice by registered mail of any material alterations, transfer, assignment or cancellation of any of the policies listed below, either in part or in whole, will be given to the holder of this Certificate.

- A. This Certificate is issued to: **City of Coquitlam**  
**3000 Guildford Way**  
a) Coquitlam, BC V3B 7N2
- Named Insured and Mailing Address:
- B. CONTRACT NUMBER AND/OR NAME Description of the Work:
- C. INSURANCE POLICY
- (a) Name of Insurer: Liability Limit:  
Policy Number: Expiry Date:  
Effective Date:
- D. INSURANCE COVERAGE
- (b) **COMMERCIAL GENERAL LIABILITY** coverage is required to insure against liability from the activities arising out of operations or work in connection with the above-described project, including liability arising out of the use of City property.
- D.1 The minimum limit shall be \$5,000,000.00 inclusive per occurrence against bodily injury, personal injury and property damage.
- D.2 The City of Coquitlam, its employees, officers, agents and volunteers are added as Additional Insureds, but only with respect to operations conducted by or on behalf of the Named Insured in connection with the above-described project, operations or work.
- D.3 This insurance shall be primary as regards the City of Coquitlam, its employees, officers, agents and volunteers as Additional Insureds.
- D.4 Any deductible or reimbursement clause contained in the policy shall not apply to the City of Coquitlam and shall be the sole responsibility of the Named Insured.
- D.5 The insurance shall include the following coverages:
- D.5.1 Cross Liability Clause
- D.5.2 Non-Owned Automobile Liability
- D.5.3 Unlicensed Automobile Liability
- D.5.4 Blanket Contractual Liability
- D.5.5 Broad Form Property Damage Liability
- D.5.6 Owner's & Contractor's Protective Liability
- D.5.7 Products & Completed Operations Liability
- D.6 Indicate provision of special coverage for this project as required by the City:
- | YES | NO  | Special Coverage Description    |
|-----|-----|---------------------------------|
| ( ) | (X) | Shoring and Underpinning Hazard |
| ( ) | (X) | Pile Driving and Vibrations     |
| (X) | ( ) | Excavation Hazard               |
| ( ) | (X) | Demolition                      |
| ( ) | (X) | Blasting                        |
- D.7 ( ) ( ) **PROFESSIONAL LIABILITY INSURANCE for Consultant Service Agreements**

The *Consultant* shall obtain and maintain for the duration of the *Services* as described in the Agreement, at its own cost, Professional Liability Insurance on terms and from an insurer satisfactory to the City of Coquitlam.

The Professional Liability Insurance policy shall insure the *Consultant's* legal liability for errors, omissions and negligent acts, to the extent of no less than \$500,000.00 per Claim and \$1,000,000.00 Aggregate.

\_\_\_\_\_  
Authorized Signature and Stamp

Date \_\_\_\_\_ Name and Title

\_\_\_\_\_  
City' broker to return to City Representative Department

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master  
Municipal Construction Documents, Volume II, Printed 2000



**PRIME CONTRACTOR DESIGNATION**

Subject: **Prime Contractor Designation**  
Contract #: **84311E**  
Contract Name: **2016 & 2017 IC Installations & Water Service Renewals** (the "Project")

\_\_\_\_\_ (the "Contractor") represents, acknowledges and agrees that:

1. in accordance with section 118 of the *Workers Compensation Act*, R.S.B.C. 1996, c. 492 (the "*Workers Compensation Act*"), the Contractor shall be the "Prime Contractor" and is qualified to act as the "Prime Contractor" in respect of the Project ;
2. the Contractor accepts the duties and responsibilities for coordination of health and safety in accordance with the *Workers Compensation Act* and further agrees that it will do everything necessary to establish and maintain a system or process that will insure compliance with the *Workers Compensation Act* and the Regulations thereto;
3. the Contractor shall fulfill all the obligations of an "Owner" under section 119 of the *Workers Compensation Act* in respect of the Project site; and
4. that the City of Coquitlam has fulfilled its obligations as an "Owner" under section 119 of the *Workers Compensation Act*, in respect of the Project site.

Prime Contractor Name & Address:

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

\_\_\_\_\_  
Prime Contractor Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name

*Please return a signed copy of this memo to the City of Coquitlam. If you have any questions, please contact the City's Health and Safety Advisor at 604-927-3068.*



# *Supplementary Specifications*

## Supplementary Specifications

to the

### **Master Municipal Specifications Volume II – Gold Book**

## **2016 & 2017 IC Installations & Water Service Renewals Contract 84311E**

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The City of Coquitlam has adopted The Master Municipal Specifications for use on all Engineering Works Contracts. To bring the MMCD Specifications into conformance to practices within the City, the following Supplementary Specifications and Detail Drawings are to be considered part of the Specifications. These Supplementary Specifications take precedence over the Master Municipal Specifications.

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1.0	CONTRACT SPECIFIC INSTRUCTIONS	
1.01	Coordination of Work with CMBC	Major Roads & Community Corridor Roads are bus routes; therefore the Contractor shall be responsible to consult with the Coast Mountain Bus Company (CMBC) regarding delays, detours, temporary bus stop closures and any other works affecting the transit service in the area.
1.02	Coordination of Work with City Crew and other Contractors	The Contractor will be required to coordinate the works with adjacent Property Developers for the installation of Water, Storm and Sanitary Services Connections or other third party utilities.
1.03	Outside Agency Approval	<p>In accordance with the Contract Documents, the Contractor at his own cost, is responsible to consult with and/or obtain any approvals required from any outside agency who will be affected by the work and cooperate with them throughout the duration of the contract such as, but not limited to School District, GVRD, BC Hydro, Telus, Kinder Morgan, and Fortis BC in the area of the place of Work.</p> <p>The Contractor is responsible to contact <b>BC One Call</b> and to obtain authorization prior to start of work.</p>
1.04	Cooperation with Emergency and Maintenance Activities	<p>The Contractor will be responsible to cooperate with regular maintenance or emergency vehicles and staff for access to the site when required including:</p> <ul style="list-style-type: none"><li>- Fire, Police, and Ambulance</li><li>- Waste Management (garbage pick-up)</li><li>- City Utilities Maintenance (or representatives)</li></ul>
1.05	FORTIS BC Emergency Protocol	In an emergency, gas pipeline rupture or leak, Contact Fortis BC 24 Hour Emergency Line (1-800-663-9911) & Fire Department (911) immediately and then City Coquitlam Utility Control Centre (604-927-6287).
1.11	Fortis BC – minimum 0.3m clearance	Minimum 0.3m clearance is required between the gas mains/services and the water service pipes. The City of Coquitlam does not guarantee that the existing water services meet this requirement. It is the contractor's responsibility to expose the gas main & service crossings and confirm that it meets the minimum separation. No additional payment above the unit price bid will be made if additional work is required to meet the 0.3m clearance specification.
1.06	Lane Closure Restrictions	<p>Refer to: <b>Appendix A: Traffic Management Detail Specifications.</b></p> <p>A Road and Sidewalk Closure Permit is required for each instance of closure and will be valid for a maximum period of one (1) week and, if still necessary, re-submittal of a Road and Sidewalk Closure Request is required.</p> <p>A copy of the approved Road and Sidewalk Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation</p> <p>The Contractor must take the above information into account in the preparation and submission of the Tender.</p> <p>Costs to complete the works taking the above restrictions into consideration shall be incidental to work described in other sections.</p>

1.07	Hours of Work	The hours of work shall be from <b>0700h</b> to <b>1900h</b> inclusive Monday to Friday and <b>0900h to 1800h</b> inclusive Saturdays, and as described in Supplementary General Conditions, Clause 4.1.3 unless specified otherwise. The Contractor must schedule his work within these hours or obtain written authorization from the Contract Administrator to vary said hours.
1.08	Schedule of Work	All work under this Contract is to be completed as stated in the Form of Tender, Appendix 2. The Contractor must provide sufficient resources in a <b>continuous effort</b> and site presence to complete all the work within the allotted time.
1.09	Order of Construction	The construction must be completed in the following sequence:  .1 Chapman Avenue .2 Mariner Way .3 1500 Block King Albert .4 Remainder of the work as approved by Contract Administrator
1.09	Survey Layout	The Contractor is responsible to provide all survey layout for construction to ensure the construction meets the design specifications and/or elevations as shown on the Contract Drawings or as amended on-site by the Contract Administrator.  Refer to SGC 3.4.9.
1.10	Site Safety	The Contractor is responsible to ensure the construction site is safe at all times for workers, pedestrians, and vehicle traffic. During non-working hours, the Contractor must ensure that the site has all potentially hazardous areas appropriately identified and protected, and also must provide appropriate signage, lighting, and markings for the direction of vehicle and pedestrian traffic, all to ensure the safety of the public. Supply and use of this equipment is considered incidental to the contract.  Manhole lids, valve boxes and other appurtenances within the roadway that may present a traffic hazard during construction must be clearly marked for traffic.  <u>Manhole lids left raised in preparation for paving must have a rubberized protector ring for traffic safety.</u> Supply and use of this equipment is considered incidental to the contract.
1.11	Location of Existing Utilities	Before commencing any Work at the Place of the Work, the Contractor shall be responsible to locate in three dimensions all underground utilities and structures indicated on the Contract Documents as being the Place of the Work. The Contractor shall also be responsible to consult with all the utility corporations that provide electricity, communications, gas or other utility services in the area of the Place of Work, to locate all underground utilities for which they have records. The Contractor shall also locate in three dimensions any other utilities or underground structures that are reasonably apparent in an inspection of the Place of the Work. Cost to do the pre locating of all the utilities will be incidental.  The contractor is responsible to verify the depth and location of all utilities (watermains, storm mains, sanitary mains & etc.), including outside agency utilities (i.e. Fortis BC Mains, Kinder Morgan Pipeline & etc.) and service connections (water, storm & sanitary services at the

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mains & property lines) by hand digging or by Hydro-Vac in the presence of the Inspector.

Pre-locates must be completed as soon as possible after award of the contract so changes can be completed if necessary by *Contract Administrator* prior to site construction. The Contractor is responsible to exert all effort to complete the pre-locates using the utility connection cards, BC One Call, as-built records, design drawings, site inspections, sonde, camera, dye testing, test/pot holing and use of utility locating company. If pre-locates is not successful in spite of the efforts using the above, compensation for a maximum of 2 labours for 1 hour per intended pre-locates may be considered at the discretion of the Contract Administrator.

The contractor will not receive any compensation or allowance for delays if work is halted due to utilities & services connections not located prior to commencing construction.

**City of Coquitlam does not guarantee water, sanitary and storm service connections are perpendicular to the mains or property lines. The City does not guarantee accuracy of the location and depth provided in the connection card.**

Payment for this work will be treated as incidental to payment for work described in other Sections.

- |      |  |   |
|------|--|---|
| 1.10 | Water Service Replacements   | Pipe bursting or an alternative trenchless method of construction as approved by the <i>Contract Administrator</i> may be used to replace water services. The City of Coquitlam does not guarantee that the trenchless method of construction will be successful at the <i>Place of Work</i> . No additional payment above the unit price bid will be made if the selected trenchless method of construction is unsuccessful and open excavation is ultimately required.  |
| 1.12 | Manholes and valves  | Access to manholes and valves must be maintained at all time for city utilities crews and external utility companies. In case of an emergency the cost for exposing any buried manhole or valve covers during construction will be paid by the contractor.  |
| 1.13 | Utility Adjustments - City Infrastructure and/or Other Agency Infrastructure | <p>The Contractor is responsible for adjusting all utilities, belonging to Coquitlam and/or other agencies that are affected by the road works. All adjustments to utilities must be completed to the satisfaction of the utility owner. Utility adjustment will be considered incidental to the contract unless otherwise noted in the Contract Documents.</p> <p>The Contractor should note that certain utility owners may decide to complete their own adjustments. The Contractor is required to cooperate with any utility company providing their own adjustments.</p> <p>The Contractor shall be responsible to contact the appropriate utility company with in <b>minimum of five (5) working days</b> of the work. No adjustment shall be made without the written approval of the utility company.</p> |
| 1.14 | Temporary Asphalt Pavement Restoration                                       | If pavement is not to be permanently restored within 24 hours, the Contractor shall backfill all trenches (in paved areas) and place 200mm of granular base for maximum of 5 days provided it is safe to do so or at the discretion of the Contract Administrator. A temporary asphalt pavement is required after 5 days. <b>All pavement restoration will be</b>   |

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		<p><b><u>75mm of hot mix asphalt unless specified otherwise.</u></b> Payment is incidental to contract.</p>
1.15	Permanent Pavement Restoration	Permanent pavement restoration is required within 10 days of completing sub- surface work. Payment for all work performed for permanent pavement restoration will be as described in Supplementary Contract Specifications, Section 02512.
1.16	Pavement Markings	<p>The Contractor will be responsible for temporary traffic markings necessary for traffic direction and safety until permanent markings are installed.</p> <p>The Contractor is responsible for the permanent pavement markings after paving is complete. Payment for all work performed for pavement markings will be as described in Supplementary Contract Specifications, Section 02580.</p>
1.17	Residential & Business Accesses	The contractor is responsible to maintain all residential & business accesses open at all times. The Contractor is responsible to coordinate the work with the affected properties.
1.18	Service Disruptions	Contractor shall contact all residences and businesses regarding sewer shutdown for tie-ins. Contractor is responsible for ensuring that any sewer service disruptions will not affect the business operation in the area or Contractor may provide temporary alternative to the businesses affected. Payment is incidental to work described in other sections.
<b>2.0</b>	<b>CONSTRUCTION ACTIVITY</b>	
2.01	Construction Material in Sewer manholes and Pipe	The Contractor is responsible to ensure that construction activities do not deposit construction materials (eg. gravels) into the storm sewer or sanitary sewer manholes or pipe. The City has a video record of the pipe before construction. Prior to Substantial Performance, the City may again video inspect the lines to ensure no problems exist due to construction activities under this contract. If problems are encountered, the Contractor will be responsible for the cost of the video and all costs associated with the cleaning of the pipe.
2.02	Site Clean Up During and End of Construction	<p>The Contractor will be responsible for the complete clean-up of the work site during construction &amp; at the end of construction <u>and prior to the Substantial Performance review.</u> This work is considered incidental to the Contract.</p> <p>The work will include cleaning of all catch basins periodically or as directed by the Contract Administrator within the Work area, or nearby location as affected by the Work, regardless of the condition of the catch basins prior to starting the Work. All cleaning is to be performed by <u>vacuum truck to the satisfaction of the Contract Administrator</u> and will include off-site disposal of waste material.</p>
<b>3.0</b>	<b>MANDATORY MEETINGS AND CONTRACTOR REPRESENTATIVES &amp; SUBCONTRACTORS</b>	
3.01	Pre-Construction Meeting Requirements	After the Award of a contract, the Contractor (Project Manager & Superintendent) will be required to attend a Pre-Construction Meeting with the Contract Administrator and provide all necessary information required by the Contract Administrator prior to provision of a Notice to Proceed. Items required to be provided at the meeting include:

These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

- .1 Detailed construction schedule showing start date and durations of major work components showing how all work will be completed within the Contract Duration.
- .2 Proof of insurance
- .3 Performance Bond and Labour and Materials Payment Bond
- .4 WCB Clearance Letter and copy of Notice of Project
- .5 City of Coquitlam Business License
- .6 A copy of portions of your Health and Safety Plan including the Title Page, Table of Contents, and portion showing latest revision date.
- .7 Signed Prime Contractor Designation letter

3.02 Contract Schedule,  
Contract Duration, and  
Charges

A detailed, realistic construction schedule for this project will be required to be presented at the pre-construction meeting. The schedule must show major components and durations as well as expected dollar value of work for each two-week period.

All work under this project is to be completed within the designated Contract Duration as contained in the signed Contract Agreement (Section 1.2), or as formally amended.

Failure to complete the work by the Substantial Performance Date will result in charges to the Contractor in the amount as detailed in Contract's **Supplementary General Conditions, Section 13 – DELAYS, Item 13.8.1 (a)** as amended.

3.03 Contract Superintendent  
and Subcontractors

In compliance with the **MMCD General Conditions, Section 4.7, Superintendent**, the Contractor shall have a competent senior representative, (the "Superintendent") be in **FULL TIME** attendance at the Place of Work while work is being performed for the duration of the contract.

This **FULL TIME** attendance is also required when work is being performed by SubContractors.

Work done by SubContractors is to be directed by the Superintendent and monitored on site ensuring conformance to the Contract Documents and other particular direction to the Superintendent by the Contract Administrator.

The Owner is not responsible for the direction of SubContractors.

3.04 Changes of Contractor  
Representatives &  
SubContractors

The Superintendent and SubContractors indicated in the Form of Tender shall not be changed unless:

- .1 the Owner requests a replacement
- .2 the Contractor submits an application for a change, in writing, to the Contract Administrator with the change being approved in writing.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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SUPPLEMENTARY CONTRACT  
SPECIFICATIONS – DIVISION 1  
GENERAL REQUIREMENTS

**MOBILIZATION  
AND  
DEMOBILIZATION**

**SECTION 012005**  
SS 6  
CONTRACT 84311E

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**1.0 GENERAL**

1.1 Payment

Payment for mobilization and demobilization of all equipment, labour and materials (both from the Contractor and all sub-contractors) shall be incidental.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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1.0	<b>Quality of Work and Performance Evaluation</b>	
1.01	Intent of the Work – IC Installations, Storm & Sanitary Main Repairs and Waterworks	<p>The intent of this project is to install inspection chambers, repair service connections as required, repair storm and sanitary mains, install hydrants, upgrade valves, renew water service connections and complete all surface restorations.</p> <p>All Work must be free from any defects, leaks and deformities.</p>
1.02	Quality	<p>The Contractor shall provide a final product conforming to the Contract Documents and the intent of the work.</p> <p>The work is to be accurate to the dimensional and tolerance requirements of the contract.</p> <p>Payment will be subject to adjustments based on quality assurance tests performed by the Contract Administrator</p>
1.03	Quality Control (QC) by Contractor	<p><b>The MMCD (2009) definition of “Quality Control” is the process by which the Contractor checks specific materials, products, and workmanship to ensure strict conformance with the Contract Documents.</b></p> <p>The Contractor is fully responsible for quality control of the materials, production, and construction processes. Quality control tests shall be performed by the Contractor, at their own expense, to ensure that products meet the contract specifications. Failure by the Contractor to conduct adequate quality control testing during production and construction will negate the Contractor’s ability to appeal the quality assurance tests used for acceptance/rejection of the work.</p> <p>Under no circumstances will QC test results produced after completion of the Quality Assurance (QA) results be considered for appeal purposes.</p> <p>Any changes in the Work with respect to the location, grade, or line shall be approved in advance by the Contract Administrator. Failure to notify the Contract Administrator of changes in writing may result in rejection of Work.</p>
1.04	Inspection of Work and Quality Assurance	<p><b>The MMCD (2009) definition of “Quality Assurance” means the process by which the Owner evaluates if the work is being constructed in accordance with the Contract Documents.</b> This definition will be used for this contract</p> <p>The Contract Administrator will provide construction review through spot inspections. <b>Any materials testing results indicating a non-conformance to the Contract Documents will require construction corrective action by the Contractor.</b></p> <p><b><u>Costs for all subsequent testing to corrective action to verify conformance to the Contract Documents will be the full responsibility of the Contractor.</u></b></p> <p>Inspection review by the Owner will not relieve the Contractor from providing a product that meets or exceeds the requirements of the Contract Documents</p>
1.05	Contractor Performance Evaluation	<p>The Contractor will be evaluated on their performance of the Work. The evaluation will provide percentage scores on the following categories:</p> <ul style="list-style-type: none"> <li>• <b>Contract Administration</b></li> <li>• <b>Construction Management</b></li> <li>• <b>Schedule Management</b></li> </ul>

These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

- **Communications**
- **Resource Management & Contractor Performance**
- **Quality Management.**

This internal evaluation may be reviewed for reference on subsequent tenders with the City. Upon request, the Contractor may attend a meeting with the City to discuss the evaluation.

**Evaluation scores in categories that are below sixty percent (60%) may result in a suspension of tendering privileges with the City.**

1.06	Inspection	<p>Materials testing shall be as described in MMCD General Conditions and Contract's Supplementary General Conditions, Section 4.12 with the following insertion:</p> <p>All testing covered under this item shall be performed by a CSA certified laboratory and technicians with two copies of all test results to be sent directly to the Contract Administrator. Re-testing resulting from failed first tests shall be at the Contractors expense.</p>
1.07	Testing	<p>Materials testing shall be as described in MMCD General Conditions, Section 4.12. Contractor to perform testing as part of Quality Control of the work. Contractor shall submit test results within one week of testing to the Contract Administrator.</p>
1.08	Contractors Responsibilities	<p>Furnish labour and facilities to:</p> <ul style="list-style-type: none"><li>.1 – Provide access to work to be inspected</li><li>.2 – Facilitate inspections and tests</li><li>.3 – Make good work disturbed by inspection and tests</li></ul>
1.09	Access to Work	<p>Allow inspection testing agencies access to Work.</p>
1.10	Tests	<p>Test rates and frequencies (excluding failed tests), when not defined in the MMCD shall be at the following frequencies:</p> <ul style="list-style-type: none"><li>1. Trench Backfilling and Compaction<ul style="list-style-type: none"><li>1.1 Compaction: 1 test / 25 lm / 0.5 m depth of trench</li><li>1.2 Sieve: 1 test / material source / 1000 m<sup>3</sup></li></ul></li><li>2. Granular Base<ul style="list-style-type: none"><li>2.1 Compaction: 1 test / 200 m<sup>2</sup></li><li>2.2 Sieve: 1 test / material source / 1000 m<sup>3</sup></li></ul></li><li>3. Granular Subbase<ul style="list-style-type: none"><li>3.1 Compaction: 1 test/500m<sup>2</sup> / 0.15m depth of granular subbase</li><li>3.2 Sieve: 1 test / material source / 1000 m<sup>3</sup></li></ul></li><li>4. Embankment (Subgrade)<ul style="list-style-type: none"><li>4.1 Compaction: 1 test/ 1000m<sup>2</sup> / 0.15m depth of fill</li><li>4.2 Sieve: 1 test / material source / 2000 m<sup>3</sup></li></ul></li><li>5. Asphalt<ul style="list-style-type: none"><li>5.1 Marshall test: test per 500 tonnes placed ASTM D1559, D3203, C117, C136</li><li>5.2 Superpave: test per 500 tonnes placed CAI-SP2, ASTM D3203, C117, C136</li><li>5.3 Cores: 1 per 1000 m<sup>2</sup>/lift</li><li>5.4 Continuous asphalt density testing during paving.</li></ul></li><li>6. Subgrade Preparation</li></ul>

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6.1 Compaction & Moisture: 1 test / 500 m<sup>2</sup>

7. Concrete Tests

7.1 Air, Slump & 1 Set Cylinders: 1 test / 50 m<sup>3</sup>, min. 1 set / day

1.11

Measurement and  
Payment

Payment for quality control will include all work described in this section, and will be incidental.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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**1.0 GENERAL**

1.3 Drainage

*(Add Clause 1.3.4 as follows):*

Properly drain all portions of the site. Protect the site and the watercourses to which it drains, directly or indirectly, against erosion and siltation in accordance with a Sediment Control Plan under the City of Coquitlam Stream and Drainage System Protection Bylaw No. 4403, 2013 during construction and until the maintenance period is completed. Ensure no silt, gravel, debris or other deleterious substance resulting from construction activity discharges into existing drainage systems or watercourses or onto highways or adjacent property. All chlorinated water entering catch basins must be neutralized by sodium thiosulfate or any other neutralizing compound. The Contractor is responsible for all damage that may be caused by water backing up or flowing over, through, from or along any part of the work or otherwise resulting from his operations.

Keep existing culverts, drains, ditches and watercourses affected by the work clear of excavated material at all times. When it is necessary to remove or alter any existing drainage structure, provide suitable alternative measures for handling the drainage. Adequately support culverts and drainpipes across trenches to prevent displacement and interference with the proper flow of water due to trench settlement.

Sweep streets, and clean catchbasins, manhole sumps, detention tanks, and maintain siltation controls as often as the Contract Administrator deems necessary.

Follow all Federal, Provincial and Municipal regulations and guidelines respecting protection of fish, fish habitat and watercourses.

1.6 Pollution Control

*(Add to Clause 1.6 as follows):*

- .5 Immediately contain and clean up any leaks and spills of prohibited materials on the job site.
- .6 Ensure that a well-stocked spill kit is on-site at all times and that the Contractor's employees are familiar with appropriate spill response techniques.
- .7 Immediately notify the Contract Administrator of any leaks or spills of prohibited materials that occur on the job site.
- .8 Ensure that any fuel stored on-site is located at least 15 metres from the nearest stream, and is placed within a bermed and lined area, in order to prevent leaks or spills into the environment.
- .9 Ensure that no equipment fueling or servicing is conducted within 15 metres of a stream.

1.7 Measurement for Payment

*(Replace Clause 1.7 as follows):*

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

1.9 Archaeological/  
Historical Resources

*(Add new Clause 1.9 as follows):*

Immediately cease work and inform the Contract Administrator, if any archaeological or historical resources are encountered during construction. Leave these resources in place and do not disturb them in any way.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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- 1.0**                    **GENERAL**                    *(Add new Clause 1.0.5 as follows):*  
The contractor is responsible for all temporary traffic control on the streets within this contract. The contractor will be responsible to provide a traffic management plan for approval within five (5) working days of the Notice of Award of the Contract, and must be approved by the *Contract Administrator*. The plan will be adjusted and negotiated with all concerned parties.
- 1.2                    Protection of Public Traffic                    *(Add new Clause 1.2.7 as follows):*  
The Contractor is required to maintain vehicle and emergency access to all properties for the duration of the contract construction period. Refer to SGC 4.1.4.
- 1.5                    Payment                    *(Replace Clause 1.5.1 as follows):*  
Payment for all labor, material, equipment and work performed under this Section and all labor, material, equipment and work described under *Appendix A: Traffic Management Detail Specifications* will be incidental to work described in other sections.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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**1.0 GENERAL**

1.3 Submission

1.3.2 *(Replace Clause 1.3.2 as follows):*  
Submit one copy of project record documents in final form prior to applying for Substantial Performance. Substantial Performance will not be issued until record documents have been submitted and accepted by the Contract Administrator.

1.3.6 *(Add new Clause 1.3.6 as follows):*  
Submit Inspection Chamber and Water Service record spread sheet (Appendix B) at the project completion with all the required information for the items installed.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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**1.0 GENERAL**

1.3 Measurement and  
Payment

*(Replace Clause 1.3 as follows):*

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

**2.0 PRODUCTS**

2.1.10 Materials

*(Add new Clause 2.1.10 as follows):*

Protective Fencing: Posts - Pressure treated wood 100 mm dia.; Post to be 1.8m to 2.0m in height at 2.0m O.C. Snowfence - Dupont L-70 or approved equivalent; Flagging Tape - 4" Orange glow - 'Tree Retention Area'

**3.0 EXECUTION**

*(Add new Clause 3.0.1 as follows):*

The Contractor is responsible to minimize damage to all trees which are to remain

*(Add to Clause 3.0.2 as follows):*

The Contractor will be responsible for all claims and costs including the cost of examination by an Arborist, repair, removal and replacement of trees, as required by the Arborist and the Contract Administrator for tree damage where proper notification was not received from the Contractor. Damage will be assessed based on the International Society of Arboriculture Guidelines. The term shall be for a period of one year following the date of Total Performance of the contract work.

3.1 Existing Trees

*(Add new Clause 3.1.7 as follows)*

Place protective fencing/barricades as detailed on Standard Drawing COQ-R23 and COQ-R24. Contractor shall maintain fence in good condition during construction.

*(Add new Clause 3.1.8 as follows):*

When work is to be performed inside fenced areas, Contractor shall take care to avoid damage to existing vegetation. Work to be done inside areas of existing vegetation to be retained includes:

- .1 Removal of isolated trees as directed by Contract Administrator.
- .2 Selective pruning and tree removal at edges to create tidy and well shaped forest edge.
- .3 Placing planting soil and planting of trees.

*(Add new Clause 3.1.9 as follows):*

Do not park, service or fuel vehicles within the vegetation retention areas.

3.4 Pruning

*(Add new Clause 3.4.2 as follows):*

Do not cut roots or branches of retained trees without approval of Contract Administrator.

**END OF SECTION**

These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

**1.0 GENERAL**

1.2 Definitions

*(Add new Clause 1.2.5 as follows):*

Trimming and snag cutting of trees, removal of hedges and shrubs is included with Clearing and Grubbing. Co-ordinate with property owners and use the services of a certified arborist when necessary. Generally trees, bushes and shrubs shall be cleared for the full width of the work, within the construction limits, with the extent of clearing minimized.

Final height of the snag cut will be per approval of the Contract Administrator.

It is the Contractor's responsibility to obtain permission from the property owners.

*(Add new Clause 1.2.6 as follows):*

Clearing and grubbing does not include removal of grass, topsoil and ditch vegetation as these items are deemed part of trench excavation.

1.4 Measurement and  
Payment

*(Replace Clause 1.4.2 as follows):*

Payment for clearing and grubbing required to complete the work and as shown on the Contract Drawings or as directed by the Contract Administrator will be incidental.

**END OF SECTION**



**1.0 GENERAL**

1.3 Definitions

*(Add to Clause 1.3.2):*  
"asphaltic concrete"

1.10 Measurement and  
Payment

*(Delete Clause 1.10.3 and replace as follows):*  
Payment for over excavation including supply, placement and compaction of 19mm clear crushed backfill will be made on a volumetric basis at the unit rate tendered, and only for the volume authorized by the Contract Administrator. Payment to include removal and disposal of the unsuitable excavated native material.

*(Add Clause 1.10.9 as follows):*  
Payment for supply, backfilling and compaction to 95% modified proctor density with imported backfill as per Granular Subbase, Section 02234. Payment to include removal and disposal of the unsuitable excavated native material. Measurement of volume placed is limited to the trench section only and the width of the measurement will not exceed the maximum trench width of 1.2 meters unless noted otherwise or as approved by Contract Administrator.

Payment for import trench backfill will be made by measurement of volume confirmed by the tonne delivered to the Place of Work based on truck weigh slips. Weigh slips must be submitted to the Contract Administrator on a daily basis. Weigh slips which are not submitted daily will not be accepted for payment.

**3.0 EXECUTION**

3.6.2 Surface Restoration

*(Delete Clause 3.6.2.4 and replace as follows):*  
Restore lawns with approved topsoil and sod to match existing lawn.

3.6.3

*(Replace Clause 3.6.3.1 as follows):*  
Restore surface with minimum 200mm thick lift of 19mm granular road base material.

*(Delete Clause 3.6.7.5 and replace as follows):*  
Restore pavement as detailed on MMCD G5 with minimum asphalt thickness of 75mm unless specified otherwise (Key not required).

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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**1.0 GENERAL**

1.1 Related Work *(Add new Clause 1.1.10):*  
"Hot-Mix Asphalt Concrete Paving.....Section 02512"

1.8 Measurement and Payment *(Replace Clause 1.8 with Clause 1.8.1 as follows):*  
Payment for all work performed under this section will be incidental to payment for work described in other Sections.

**END OF SECTION**

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SUPPLEMENTARY CONTRACT  
SPECIFICATIONS – DIVISION 2  
SITE WORK

**AGGREGATES  
AND  
GRANULAR MATERIALS**

**SECTION 02226**  
SS 17  
CONTRACT 84311E

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2.0

**PRODUCTS**

2.7

Granular Pipe Bedding and  
Surround Material

*(Add to Clause 2.7.1 as follows):*

Recycled concrete and other material may only be used with prior approval of the Contract Administrator.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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SUPPLEMENTARY CONTRACT  
SPECIFICATIONS – DIVISION 2  
SITE WORK

**RESHAPING**  
**GRANULAR**  
**ROADBED**

**SECTION 02231**  
SS 18  
CONTRACT 84311E

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**1.0**

**GENERAL**

1.4

Measurement and  
Payment

*(Replace Clause 1.4 with 1.4.1 as follows):*

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

*(Replace Clause 1.4.2 as follows):*

Measurement for additional granular base material will be incidental to payment for work described in other sections.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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**1.0**

**GENERAL**

1.4

Measurement and  
Payment

*(Delete Clause 1.4 and replace as follows):*

- .1 Measurement for granular base of variable thickness will be incidental to work described in other sections.
- .2 Payment for Subsection 1 above includes supply, placement and compaction of granular base material, adjustment of moisture content, and boning to establish the road cross-section.
- .3 Payment includes removal of unsuitable subgrade including disposal off-site prior to direct placement of granular.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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**1.0 GENERAL**

1.4 Measurement and Payment

*(Delete Clause 1.4 and replace as follows):*

- .1 Measurement for granular subbase of variable thickness will be incidental to work described in other sections.
- .2 Payment for Subsection 1 above includes supply, placement and compaction of granular base material, adjustment of moisture content, and boning to establish the road cross-section.
- .3 Payment includes removal of unsuitable subgrade including disposal off-site prior to direct placement of granular.

**2.0 PRODUCTS**

2.1 Specified Materials

*(Delete Clause 2.1.1.1):*  
Select granular subbase

*(Delete Clause 2.1.1.2):*  
75mm pit run gravel

*(Delete Clause 2.1.1.4):*  
pit run sand

*(Delete Clause 2.1.1.5):*  
approved native material

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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**1.0 GENERAL**

1.4 Measurement and  
Payment

*(Add to Clause 1.4.4 as follows):*

Payment will be as shown in Schedule of Quantities and Unit Prices based on actual work completed. Payment includes removal and disposal offsite of all materials removed to complete the work and as described in Contract.

*(Add to Clause 1.4.5 as follows):*

Payment will be as shown in Schedule of Quantities and Unit Prices based on actual work completed. Payment includes removal and disposal offsite of all materials removed to complete the work and as described in Contract.

**3.0 EXECUTION**

3.9 Expansion Joints

*(Delete Clause 3.9.1 and replace as follows):*

Form transverse expansion joints at both ends of curb returns and at a maximum spacing of 9m for sidewalks, 9m for curb and gutter, at each end of driveway crossings and at tangent points on circular work.

*(Delete Clause 3.9.4 and replace as follows):*

Bond break compound may be used in lieu of expansion joint between sidewalk and back of abutting utility strip or sidewalk infill.

*(Add Clause 3.9.5 as follows):*

When curb & gutter has to be removed, cut shall be done on expansion joints or a minimum of 1.5m away from the expansion joints.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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SUPPLEMENTARY CONTRACT  
SPECIFICATIONS – DIVISION 2  
SITE WORK

**PAINTED PAVEMENT**  
**MARKINGS**

**SECTION 02580**  
SS 23  
CONTRACT 84311E

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**1.0**

**GENERAL**

1.5

Measurement and  
Payment

*(Replace Clause 1.5 with Clause 1.5.1 as follows):*

Payment for all work performed under this section will be incidental to work described in other sections.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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**1.0 GENERAL**

1.8 Measurement and Payment

*(Delete Clause 1.8.2 and replace with 1.8.2.1 as follows):*

Payment for watermain and service connection will include location and exposure of existing utilities, saw cutting and disposal of pavement, trench excavation, disposal of surplus excavated material, support of utility poles and adjacent piping, removal & reinstatement of catch basins if required, supply and installation of all pipe, bends, bolts, gaskets, thrust blocks, couplings (Robar 1506), restraints and tie rods, all nuts, bolts and fasteners to be 304 stainless steel or better, application of petrolatum mastic on all metal but non stainless water appurtenances, blind flanges, caps, fittings and related materials, tie-ins, bedding, approved native excavated backfill material compacted in place, cleaning, pressure and leakage testing including all labor, material and equipment required to complete the test, flushing, disinfection where required, granular sub-base, granular base, all surface restoration as specified under Section 02223 – Sub-section 3.6, and all other work and materials necessary to complete installation as shown on Contract Drawings and specified under this Section; and

**Payment includes all works as described in Clause 1.8.2.2.**

*(Add Clause 1.8.2.2 as follows):*

Native excavated material approved for re-use as trench backfill area shall have all cobbles greater than 150 mm diameter removed and disposed off-site and shall be granular in nature and free from organic materials. Native excavated material shall not be used as trench backfill where moisture content does not permit compaction to specified density. Where native excavated material is unacceptable for use as trench backfill, imported trench backfill shall be supplied, placed, and compacted to specified density. Imported trench backfill shall not be used without the prior approval of the Contract Administrator. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

Restore all trench cuts within the roadways with a 200mm of granular base following pipe installation if paving is not scheduled to take place within 24 hours.

Remove and dispose of all trees, roots, vegetation, organic matter and stumps that are located in the right of way and which fall within the work area. Trim small branches from trees or hedges as required and where necessary use an approved tree paint to repair damage to surviving vegetation where branches have been removed. Obtain the Engineer's approval before trees are removed. Replace shrubs and trees that are located on private properties that are damaged during construction.

Discard materials obtained from within the work area and adjacent private properties that are not suitable for reuse or not wanted by private owners at an approved dump site at Contractor's expense.

Payment includes all labor, material, equipment to complete the Work and as described on the Contract Drawing.

Measurement for watermain will be made along the centerline of the main, through the valves and fittings, with no deduction for length of valve or fittings, over surface after work has been completed; and

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*(Delete Clause 1.8.4 and replace as follows):*

Payment for new Terminal City C71P hydrants installed on the existing mains by wet tapping includes the hydrant body, c/w Storz “quick connect” pump nozzle, lateral connections from mainline tee off watermain to hydrants, all new pipes, integral isolation gate valve, Terminal City Nelson Type style valve box & cover, valve stem riser pipe, bends, couplings (Robar 1506), any necessary pipe extensions to achieve the required hydrant height, concrete thrust block, tie rods, all nuts, bolts and fasteners to be 304 stainless steel or better, application of petrolatum mastic on metal but non stainless water appurtenances, direct tapping of the existing mains, bedding and all import and native backfill material, testing and disinfection, surface restoration as indicated in the requirements in 1.8.2.2 of this Section and all other incidental work as shown on Standard Detail Drawing W3 & W4. Where applicable, includes removal of old Hydrant Assembly at same location and deliver to the City.

Measurement will be made at the unit price bid for each hydrant assembly installed.

*(Delete Clause 1.8.5 and replace with 1.8.5.1 as follows):*

Payment for service connection renewal includes removal and disposal of concrete meter box, valve box, curb stop, piping and meter (where applicable), reconnecting to the existing corporation stop using a MacDonald 6130 compression coupling (where specified), supply and installation of curb stops, 150mm pvc riser, funny nut, service pipes, re-use of existing TC Nelson Type valve box as approved by Contract Administrator and all related fittings and appurtenances specified and/or shown on Standard Detailed Drawing W2b (except where noted) or Coquitlam Standard Drawing W2E, as applicable, and reconnecting to the existing service at or near property line or as shown on the Contract Drawings including any fittings and repair couplings. Water service connection locations are provided in the tender documents.

Payment also includes all applicable work described in 1.8.2.1 and 1.8.2.2 unless specified otherwise in the Schedule of Quantities and Prices.

Imported trench backfill shall not be used without the prior approval of the Contract Administrator. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

Measurement and payment for service connection will be made at the unit price bid per lineal meter of water service connection installed as measured along the ground from the center of the main to the terminus of the service.

**NOTE: PAYMENT FOR SERVICE CONNECTIONS WILL NOT BE MADE UNTIL RESTORATION WORK IS COMPLETE TO CITY’S SATISFACTION.**

*(Add Clause 1.8.5.2 as follows):*

Payment for new 19mm service connection includes locating and cutting the existing service supply, removal and disposal of concrete meter box, curb stop, piping and meter (where applicable), supply and installation of mainline double strap saddles, corporation stops, reconnecting to the existing main, curb stops, service pipes and all related fittings and appurtenances specified and/or shown on Standard Detailed Drawing W2b (except where noted), all labor, material and equipment including use of tapping machine and reconnecting to the existing service at or

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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near property line or as shown on the Contract Drawings including any fittings and repair couplings. Payment also includes all applicable work described in 1.8.2.1 and 1.8.2.2 unless specified otherwise in the Schedule of Quantities and Prices.

Imported trench backfill shall not be used without the prior approval of the Contract Administrator. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

Measurement and payment for service connection will be made at the unit price bid per lineal meter of water service connection installed as measured along the ground from the center of the main to the terminus of the service.

**NOTE: PAYMENT FOR SERVICE CONNECTIONS WILL NOT BE MADE UNTIL RESTORATION WORK IS COMPLETE TO CITY'S SATISFACTION.**

*(Add clause 1.8.5.3 as follows):*

Measurement and payment for new cast iron Terminal City Nelson type valve box complete with lid marked "WATER" at the unit price bid for each item installed.

*(Add clause 1.8.5.4 as follows):*

Payment for 150mm PVC DR 35 or better riser pipe will be incidental to work described under this section.

*(Delete Clause 1.8.6 and replace as follows):*

Payment for air valve includes removal and disposal of existing air valve, concrete barrel, manhole frame and cover, piping, dismantling and reinstatement of the chain-link fence to complete the work and dewatering. Payment includes supply and installation of 1" Crispin Universal Air release Valve. (Crispin- Multiplex Mfg. Co.) - (3/16" AVO / 20-150 PSI), bedding and all backfill material, concrete barrel, manhole frame & cover, bricks, all appurtenances c/w green steel vent as shown in COQ-W6, all applicable works as described in 1.8.2.1 and 1.8.2.2 and all labour, equipment and material to complete the work..

*(Add Clause 1.8.6.1 as follows):*

Payment for blow-off hand wheel replacement includes removal and disposal of hand wheel, concrete barrel, manhole frame and cover, pvc riser, all applicable works as described in 1.8.2.1 and 1.8.2.2. Payment includes supply and installation of square nut assembly, bedding and all backfill material, concrete barrel, manhole frame & cover, bricks, all appurtenances as shown in COQ-W8 and all labour, equipment and material to complete the work.

**2.0 PRODUCTS**

2.2 Mainline Pipe, Joints  
And Fittings

*(Replace Clause 2.2.1.1 as follows):*

Pipe: to AWWA C151, and shall meet the following Pressure Class or Thickness Class:

- 100mm – 350mm – Thickness Class 50
- 400mm & greater – PC 350

2.3 Valves and Valve Boxes

*(Delete Clause 2.3.6.1.1 and 2.3.6.1.2 and replace as follows):*

Circular type valve box shall be cast iron Terminal City Nelson Type style valve box c/w lid marked "WATER".

*(Delete Clause 2.3.7.1 and 2.3.7.2 and replace as follows):*

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Service valve boxes shall be as shown in Standard Detail drawing W2b for services 19mm to 50mm only. The circular type valve box shall be Terminal City Nelson Type. For services 100mm and greater, follow COQ – W2F or as specified by Contract Administrator.

*(Delete Clause 2.3.7.3 and replace as follows):*

Curb stop valve boxes (300 mm from property line) alternative on 19 mm dia. to 38 mm dia. services without operating rods to be assembled as specified for Mainline Valve Boxes - 2.3.6 and shown on Standard Detail Drawing W2b.

*(Delete Clause 2.3.7.5 and replace as follows):*

Corporation stop valve boxes (at mainline tees or tappings) on services 50mm diameter and larger as specified for Mainline Valve Boxes per City of Coquitlam Standard Drawing COQ-W2E and COQ-W2F.

2.5 Service Connections, Pipes,  
Joints and Fittings

*(Delete Clause 2.5.1 and replace as follows):*

Pipe diameter 19 mm to 75 mm to be Type K annealed copper to ASTM B88M.

2.8 Granular Pipe Bedding and  
Surround Material

*(Add Clause 2.8.3 as follows):*

Shall conform to Type 2 gradation.

**3.0 EXECUTION**

3.6 Pipe Installation

*(Add Clause 3.6.11 as follows):*

When the water main crosses a storm or sanitary sewer, the water main shall be installed a minimum 0.5 m clear above the sewer. Where this is not possible, the water main shall have a minimum 0.3 m clearance under the sewer with all joints within a 3.0 m horizontal distance from the sewer wrapped with heat shrink plastic or packed and wrapped with petrolatum tape in accordance to the following standards:

- ANSI/AWWA C214 (factory applied)
- ANSI/AWWA C209 (field applied)
- ANSI/AWWA C217-90 (petrolatum tape)
- All materials used are to have zero health hazard

Installation shall be in accordance with the requirements of the Regional Health Engineer under the Health Act.

*(Add Clause 3.6.12 as follows):*

Prior to construction, the contractor shall locate and expose all utilities crossing the proposed water main, water services, tie in locations and any other proposed works.

3.10 Service Connection Installation

*(Add Clause 3.10.14 and replace as follows):*

Water service connections must be installed as one continuous length of pipe.

3.12 Hydrants

*(Delete Clause 3.12.1 and replace as follows):*

Install hydrant assemblies at locations as directed by *Contractor Administrator* by direct tapping of the watermain. Locations specified in the Schedule of Quantities are approximate only. The contractor shall perform the tap while the main is at working pressure. Standard off-set from property line shall be 1.0 meter or as directed by the Contract Administrator.

3.23 Connections to Existing Mains

*(Delete Clause 3.23.1 and replace as follows):*

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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Connections to existing waterworks systems will be made by the Contractor under the supervision of the Contract Administrator. Make all necessary arrangements with the Contract Administrator to schedule work to prevent construction delays.

*(Add Clause 3.23.2 as follows):*

Provide written notification to all affected residents and businesses a minimum **48** hours prior to service interruption. Work shall follow CONTRACT SPECIFIC INSTRUCTIONS AND NOTATIONS, Section 010005 – Clause 1.15.

*(Add Clause 3.23.3 as follows):*

Arrange shutdown of the existing valves by the City. Contractor is not allowed to operate any main valves without prior approval of the Contract Administrator.

Failure to follow this Clause will result in immediate shut-down of the work. The Contractor will be required to safely restore facility conditions to allow traffic flow at their expense. Work cannot re-start until City's Water Dept or its representative is present to shutdown the existing main valve.

No claim will be accepted by the Owner for costs associated with this work shut-down.

*(Add Clause 3.23.4 as follows):*

Provide temporary service while existing service is interrupted as detailed in Contract Drawings or Detailed Specifications.

*(Add Clause 3.23.5 as follows):*

Fittings used for tie ins should be cleaned of all foreign material and sprayed with a 1% hypochlorite solution prior to assembly. Disinfect all pipes and fittings installed at the connection.

*(Add Clause 3.23.6 as follows):*

Contractor shall be responsible for the costs for the City to flush and purge all air from existing mains and services in the area affected by the service interruption.

*(Add Clause 3.23.7 as follows):*

**Procedure for Watermain Tie-ins Coliform Bacterial Testing**

**Procedures for Bacteriological Tests shall be as described in AWWA C651-99.**

No connection to existing watermains will be authorized until final results of coliform bacterial testing have been received and reviewed by the Water Foreman.

All samples shall be taken by the City Water Utility and all valve operation shall be handled by the City Water crews.

The Contractor shall provide sampling point at the end of each main segment. The Contractor shall provide all labour, material and equipment to temporarily connect and disconnect the new main in order to properly acquire test samples.

Initial flushing, testing and chlorination will be undertaken by the Contractor from a water source approved by the Water Superintendent.

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Coordination for the bacterial testing and tie in shall be coordinated by the project Engineering Inspector and the Water Superintendent prior to final flushing.

The Engineering inspector shall review with the Water Superintendent and the Contractor sampling locations and appurtenances. The Engineering Inspector shall check and record chlorine residual prior to final flushing.

After final flushing the City Water crew will collect one set of samples minimum 24 hours after the chlorinated water has been flushed. Samples will be taken from the City supply from the new main as well as the terminus and all branches.

Test results will be delivered to the Water Superintendent who will provide a copy to the Engineering Inspector. The Water Superintendent will judge the adequacy of the test results and issue an authorization to connect.

City Water crews will provide shutdown and flushing as required.

**END OF SECTION**

**1.0**                    **GENERAL**  
1.6                    Measurement and  
                          Payment

*(Replace Clause 1.6.1 as follows):*

Payment for storm sewer will be made separately for various sections of storm sewer consistent with pipe materials, diameters and backfill requirements shown on the Contract Drawings and described under individual payment items in the Schedule of Quantities.

*(Replace Clause 1.6.2 as follows):*

Payment for storm sewers includes saw cutting pavement, trench excavation, disposal of surplus excavated material, removal and disposal of existing pipes, supply and installation of all pipe, fittings and related materials, tie-ins other than noted in Clause 1.6.9, bedding and all import backfill material, approved native backfill, granular base, granular subbase, cleaning and flushing, testing (if applicable), all surface restoration under Section 02223 – Sub-section 3.6 unless specified otherwise in this Section, and all other work and materials necessary to complete installation as shown on Contract Drawings and described under individual payment items in the Schedule of Quantities and specified under this Section; and

Payment for concrete driveway and curb & gutter will be made under Section 02523.

Native excavated material approved for re-use as trench backfill shall have all cobbles greater than 150mm diameter removed and disposed off-site and shall be granular in nature and free of organic materials. Native excavated material shall not be used as trench backfill where the moisture content does not permit compaction to the specified density. Where native excavated material is unacceptable for use as trench backfill, imported trench backfill shall be supplied, placed, and compacted to specified density. Imported trench backfill shall not be used without the prior approval of the Contract Administrator.

Restore all trench cuts across roadways/driveways with a temporary hard surface approved by the *Contract Administrator* following pipe excavation if paving is not scheduled to take place within 24 hours.

Payment includes by-pass pumping to include all pumps, labour and materials required to facilitate the work. Payment for the by-pass pumping will be incidental. Payment includes all applicable materials and work described in 1.6.4.1.

Measurement for storm sewer will be made along the ground from the start of new pvc pipe to the terminus of the new pvc pipe.

**NOTE: 50% OF PAYMENT FOR ANY STORM SEWER WORKS WILL NOT BE MADE UNTIL RESTORATION WORK IS COMPLETE TO CITY'S SATISFACTION.**

*(Replace Clause 1.6.3 as follows):*

Payment for new service connections includes 150mm SDR28 PVC pipe, shear band couplers, bends, increaser, pvc wye, stubs, caps, Le-Ron molded inspection chamber c/w locking collar and green lid and all related fittings and components specified and/or shown on Standard Detail Drawings. Payment includes all applicable service pipes, materials and work described in 1.6.2 unless specified otherwise in the Schedule of Quantities and Prices.

Imported trench backfill shall not be used without the prior approval of the Contract Administrator. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

Measurement for service connection will be for each complete service installed,

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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including the inspection chamber, length of service pipe installed and length of riser.

*(Add Clause 1.6.3.1 as follows):*

Payment for storm service connection repair includes 150mm SDR28 PVC pipe, shear band couplers, bends, increaser, stubs and all related fittings and components specified and/or shown on Standard Detail Drawings. Payment includes all applicable service pipes, materials and work described in 1.6.2 unless specified otherwise in the Schedule of Quantities and Prices.

Imported trench backfill shall not be used without the prior approval of the Contract Administrator. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

Measurement and payment for storm lead repair will be made at the unit price bid per lineal meter of service lead installed as measured along the ground from the downstream end of work done in Clause 1.6.4 to the terminus of the repair.

*(Replace Clause 1.6.4 as follows):*

The lump sum payment is to supply and install Le-Ron molded storm inspection chambers c/w locking collar & green lid including the riser as per MMCD S7, S8 and S9 at each location. The tendered price is to include all labour, shear band couplers, 2m PVC SDR 28 pipe stubs and all related fittings and components specified and/or shown on Standard Detail Drawings and all such other items that may be required to complete the work as specified. Payment includes all applicable materials and work described in 1.6.2.

Imported trench backfill shall not be used without the prior approval of the Contract Administrator. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

A City crew will be inspecting the service connection by hand video prior to the Contractor's installing the IC. The Contractor shall notify the City inspector once the section of the service connection is ready for hand video. Payment includes assisting City crew in hand videoing the service connection. Based on the hand video result or apparent condition of the pipe, repair is to be done under Clause 1.6.3.1. Repair shall only be done as approved by Contract Administrator or City inspector.

**NOTE: Depth specified on the utility connection record without an IC is typically measured from the top of the clean out wye.**

**Payment includes work as described in 1.6.4.1.**

*(Add Clause 1.6.4.1 as follows):*

Remove and dispose of all trees, roots, vegetation, organic matter and stumps that are located in the right of way and which fall within the work area (including stripping of ditches). Trim small branches from trees or hedges as required and where necessary use an approved tree paint to repair damage to surviving vegetation where branches have been removed. Obtain the Engineer's approval before trees are removed. Replace shrubs and trees that are located on private properties that are damaged during construction.

Materials removed from within the right of way are the property of the private property owner. Materials removed within private property remain the property of the private property owner.

Discard materials obtained from within the right of way and from adjacent private properties that are not suitable for reuse or not wanted by private

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owners at an approved dump site.

Where possible and as agreed with the *Contract Administrator*, reuse topsoil obtained from within the right of way.

Brooks Boxes with a steel lid are to be provided for inspection chambers located in driveways as necessary. Payment for the Brooks Boxes on a driveway will be incidental.

Payment includes support of poles if necessary and manhole barrel preparation to accommodate the service connection.

Lump sum to include for all labour, materials, and equipment required to supply and install the work as specified and restore surface to its original conditions.

*(Add Clause 1.6.4.2 as follows):*

The unit price is an additional payment for depth in excess of the depth stated plus 0.6m as indicated on the service connection card. The payment is to accommodate installation of Le-Ron molded storm inspection chambers as per MMCD S7, S8 and S9 at a lower elevation. The tendered price is to include all labour, materials and all related fittings and components specified and/or shown on Standard Detail Drawings, use of shoring, shoring cage and all such other items that may be required to complete the work as specified. Payment does not include all other items already included in this section, Clause 1.6.4. and Section 02223.

**Example:**

Depth on Connection Card, 0.3m

Actual depth of service connection measured from the ground, 1.8m

Portion to be paid as additional:  $1.8\text{m} - (0.3\text{m} + 0.6\text{m}) = 0.9\text{m}$

0.9m will be paid as additional:  $0.9\text{m} \times \text{unit price}$

*(Add to Clause 1.6.9 as follows):*

Payment includes all applicable works in Clause 1.6.2.

2.0

**PRODUCTS**

2.1

Concrete Pipe

*(Replace Clause 2.1.6 as follows):*

Pre-Test in accordance with Section 02731 Clause 2.1.4.

2.5

Service Connections

2.5.1 Replace 100 mm minimum diameter with PVC SDR 28 **150 mm** minimum diameter.

*(Replace Clause 2.5.8.1 as follows):*

Connections to HDPE main pipe to be made with a fusion machine.

*(Replace Clause 2.5.8.2 as follows):*

Connections to ribbed PVC pipe to be made with a manufactured wye fitting where wye locations are known in advance. For connections to ribbed PVC mainline pipe larger than 450 mm an insertable tee for ribbed PVC pipe is permitted for connections more than two sizes smaller than mainline pipe. When an insertable tee is used, hole cut into mainline pipe to cut as few ribs as possible.

*(Add Clause 2.5.11 as follows):*

Insertable tee fitting shall have a rubber collar which inserts into the mainline

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pipe to form a tight seal and shall have stainless steel band to secure the tee insert. The tee insert shall be a standard bell end with depth control lugs.

2.7 Granular Pipe Bedding  
and Surround Material

*(Add Clause 2.7.3):*

Pipe bedding shall be 19 mm clear crushed rock or as approved by the Contract Administrator. Surround material above the springline within the pipe zone may be Type 2.

**3.0 EXECUTION**

3.6 Pipe Installation

*(Add new Clause 3.6.14 as follows):*

Test pipe in accordance with Section 02731 Clause 3.12.

3.8 Connections to Existing  
Mainline Pipes

*(Add new Clause 3.8.5 as follows):*

Connections to existing mainlines 450 mm and smaller shall be made by removal of the section of the main and replacement with a manufactured PVC wye complete with stubs and double hub PVC couplings for PVC mains and approved shear band couplings for other mainline materials.

Connections to existing concrete mainline and mainlines larger than 450 mm shall be made in accordance with this section and will be made using a core cutter.

The contractor shall video inspect all connections to existing mains following completion of installation

**END OF SECTION**

**1.0**                    **GENERAL**  
1.6                    Measurement and  
                          Payment

*(Replace Clause 1.6.1 as follows):*

Payment for sanitary sewer will be made separately for various sections of sanitary sewer consistent with pipe materials, diameters and backfill requirements shown on the Contract Drawings and described under individual payment items in the Schedule of Quantities.

*(Replace Clause 1.6.2 as follows):*

Payment for sanitary sewers includes saw cutting pavement, trench excavation, disposal of surplus excavated material, removal and disposal of existing pipes, supply and installation of all pipe, fittings and related materials, tie-ins other than noted in Clause 1.6.7, bedding and all import backfill material, approved native backfill, granular base, granular Subbase, cleaning and flushing, testing (if applicable), all surface restoration under Section 02223 – Sub-section 3.6 unless specified otherwise in this Section, and all other work and materials necessary to complete installation as shown on Contract Drawings and specified under this Section; and

Payment for concrete driveway and curb & gutter will be made under Section 02523.

Native excavated material approved for re-use as trench backfill shall have all cobbles greater than 150mm diameter removed and disposed off-site and shall be granular in nature and free of organic materials. Native excavated material shall not be used as trench backfill where the moisture content does not permit compaction to the specified density. Where native excavated material is unacceptable for use as trench backfill, imported trench backfill shall be supplied, placed, and compacted to specified density. Imported trench backfill shall not be used without the prior approval of the Contract Administrator.

Restore all trench cuts across roadways/driveways with a temporary hard surface approved by the *Contract Administrator* following pipe excavation if paving is not scheduled to take place within 24 hours.

Payment includes by-pass pumping to include all pumps, labour and materials required to facilitate the work. Payment for the by-pass pumping will be incidental. Payment includes all applicable materials and work described in 1.6.4.1.

Measurement for sanitary sewer will be made along the ground from the start of new pvc pipe to the terminus of the new pvc pipe.

**NOTE: 50% OF PAYMENT FOR ANY SANITARY SEWER WORKS WILL NOT BE MADE UNTIL RESTORATION WORK IS COMPLETE TO CITY'S SATISFACTION.**

*(Replace Clause 1.6.3 as follows):*

Payment for new service connections includes 100mm SDR28 PVC pipe, shear band couplers, bends, increaser, pvc wye, stubs, caps, Le-Ron inspection chamber c/w locking collar and green lid and all related fittings and components specified and/or shown on Standard Detail Drawings. Payment includes all applicable service pipes, materials and work described in 1.6.2.

Imported trench backfill shall not be used without the prior approval of the Contract Administrator. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

Measurement for service connection will be for each complete service installed, including the inspection chamber, length of service pipe installed and length of riser.

*(Add Clause 1.6.3.1 as follows):*

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Payment for sanitary service connection repair includes 100mm SDR28 PVC pipe shear band couplers, bends, increaser, stubs and all related fittings and components specified and/or shown on Standard Detail Drawings. Payment includes all applicable service pipes, materials and work described in 1.6.2.

Imported trench backfill shall not be used without the prior approval of the Contract Administrator. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

Measurement and payment for sanitary connection repair will be made at the unit price bid per lineal meter of service lead installed as measured along the ground from the downstream end of work done in Clause 1.6.4 to the terminus of the repair.

*(Replace Clause 1.6.4 as follows):*

The lump sum payment is to supply and install Le-Ron molded sanitary inspection chambers c/w locking collar & red lid including the riser as per MMCD S7, S8 and S9 at each location. The tendered price is to include all labour, shear band couplers, 2m PVC SDR28 pipe stubs and all related fittings and components specified and/or shown on Standard Detail Drawings and all such other items that may be required to complete the work as specified. Payment includes all applicable materials and work described in 1.6.2.

Imported trench backfill shall not be used without the prior approval of the Contract Administrator. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

A City crew will be inspecting the service connection by hand video prior to the Contractor's installing the IC. The Contractor shall notify the City inspector once the section of the service connection is ready for hand video. Payment includes assisting City crew in hand videoing the service connection. Based on the hand video result or apparent condition of the pipe, repair is to be done under Clause 1.6.3.1. Repair shall only be done as approved by Contract Administrator or City inspector.

**NOTE: Depth specified on the utility connection record without an IC is typically measured from the top of the clean out wye.**

**Payment includes work as described in 1.6.4.1.**

*(Add Clause 1.6.4.1 as follows):*

Remove and dispose of all trees, roots, vegetation, organic matter and stumps that are located in the right of way and which fall within the work area (including stripping of ditches). Trim small branches from trees or hedges as required and where necessary use an approved tree paint to repair damage to surviving vegetation where branches have been removed. Obtain the Engineer's approval before trees are removed. Replace shrubs and trees that are located on private properties that are damaged during construction.

Materials removed from within the right of way are the property of the private property owner. Materials removed within private property remain the property of the private property owner.

Discard materials obtained from within the right of way and from adjacent private properties that are not suitable for reuse or not wanted by private owners at an approved dump site.

Where possible and as agreed with the *Contract Administrator*, reuse topsoil obtained from within the right of way.

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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Brooks Boxes with a steel lid are to be provided for inspection chambers located in driveways as necessary. Payment for the Brooks Boxes will be incidental.

Payment includes support of poles if necessary and manhole barrel preparation to accommodate the service connection.

Lump sum to include for all labour, materials, and equipment required to supply and install the work as specified and restore surface to its original conditions or better.

*(Add Clause 1.6.4.2 as follows):*

The unit price is an additional payment for depth in excess of the depth stated plus 0.6m as indicated on the service connection card. The payment is to accommodate installation of Le-Ron molded sanitary inspection chambers as per MMCD S7 and S9 at a deeper elevation. The tendered price is to include all labour, materials and all related fittings and components specified and/or shown on Standard Detail Drawings, use of shoring, shoring cage and all such other items that may be required to complete the work as specified. Payment does not include all other items already included in this section, Clause 1.6.4. and Section 02223.

**Example:**

Depth on Connection Card, 0.3m

Actual depth of service connection measured from the ground, 1.8m

Portion to be paid as additional:  $1.8\text{m} - (0.3\text{m} + 0.6\text{m}) = 0.9\text{m}$

0.9m will be paid as additional:  $0.9\text{m} \times \text{unit price}$

*(Add to Clause 1.6.7 as follows):*

Payment includes all applicable works in Clause 1.6.2.

2.0

**PRODUCTS**

2.5

Granular Pipe Bedding  
and Surround Material

*(Add Clause 2.5.3):*

Pipe bedding shall be 19 mm clear crushed rock or as approved by the Contract Administrator. Surround material above the springline within the pipe zone may be Type 2.

3.0

**EXECUTION**

3.8

Connections to Existing  
Mainline Pipes

*(Replace Clause 3.8.1 as follows):*

Connections with two sizes smaller or less to existing mainlines shall be made by removal of the section of the main and replacement with a manufactured PVC wye complete with stubs and double hub PVC couplings for PVC mains and approved shear band couplings for other mainline materials.

The contractor shall video inspect all connections to existing mains following completion of installation.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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**1.0 GENERAL**

1.1 Related Work

*(Add Clause 1.1.6 as follows):*  
Shrubs & Tree Preservation Section 02104.

1.4 Measurement and  
Payment

*(Replace Clause 1.4.1 as follows):*  
Payment is incidental for growing medium and imported topsoil. Grading shall include supply of materials, on-site handling, and placement to thickness specified, compaction, watering, application of fertilizers, finish grading and swales.

**3.0 EXECUTION**

3.4 Placing Growing  
Medium

*(Add Clause 3.4.6 as follows):*  
Scarify soil, feather grades and remove noxious weeds from the edge of tree preservation areas.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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<p><b>1.0</b></p> <p>1.8</p>	<p><b>GENERAL</b></p> <p>Measurement and Payment</p>	<p><i>(Add to Clause 1.8.1 as follows):</i></p> <p>Payment is incidental to work described in other section. The Contractor is responsible to ensure that the sod is regularly watered and responsible to coordinate with property owner.</p>
<p><b>3.0</b></p> <p>3.2</p>	<p><b>EXECUTION</b></p> <p>Sodding</p>	<p><i>(Delete Clause 3.2.5 and replace as follows):</i></p> <p>Lay sod smooth and flush with adjoining grass areas and paving and top surface of curbs unless shown otherwise on Contract Drawings. Ensure there is a full roll width between the new sod and adjoining surfaces. Small cut pieces from a full roll will not be accepted.</p> <p><i>(Delete Clause 3.2.12 and replace as follows):</i></p> <p>Water sod area immediately with sufficient amounts to saturate sod and upper 100 mm of growing medium. Do not allow the sod to dry out so that the joints become visible.</p>
<p>3.5</p>	<p>Conditions for Total Performance</p>	<p><i>(Add Clause 3.5.1.8 as follows):</i></p> <p>The prime consideration for acceptance of work of this section shall be the establishment of a dense, uniform cover of growth over 100% of all seeded areas.</p>

**END OF SECTION**

These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.



**1.0**                    **GENERAL**  
1.9                    Measurement and  
                          Payment

*(Add to Clause 1.9.1 as follows):*

Payment includes planting, labour, material and equipment required to complete the work including the costs of all trees, live stakes, shrubs, seeds and ground cover.

Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless shown otherwise in the Schedule of Quantities and Prices.

**END OF SECTION**

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These Supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II, 2000.

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*Appendix A*  
*Traffic Management*  
*Detail Specifications*

**1.0 GENERAL**

.1 This Traffic Management detail specification refers to the Contractor's specific plans to identify project traffic risks affecting the *Work*, provide Traffic Control Plans, and to implement the traffic control for the safe passage of vehicles and pedestrian through the work zone.

1.1 Related Works

.1 Traffic Regulation MMCD Section 01570

1.2 References

.1 WorkSafe BC, Occupational Health and Safety (OHS) Regulation, Section 18 – Traffic Control.

.2 B.C. Ministry of Transportation (MOT) Traffic Control Manual for Work on Roadways

1.3 Project Requirements

.1 A Road and Sidewalk Closure Permit is required by Coquitlam for all work affecting traffic flow related to construction. A permit is required for each specific construction interference with traffic flow. The Road and Sidewalk Closure Permit Request form is attached as **Appendix 1** to this document. A digital copy of the Road and Sidewalk Closure Permit form can be obtained for use during the contract from the City's website at <http://www.coquitlam.ca/city-services/licenses-and-permits/road-and-sidewalk-closure-permit.aspx>.

A Road and Sidewalk Closure Permit form application must be submitted to City's Traffic Operation Division 5 working days prior to start of work.

1.4 Measurement and Payment

.1 For this Contract, all work associated with Traffic Management Plan (TMP) and Traffic Control will be as shown in the Schedule of Quantities and Prices.

**2.0 PRODUCTS**

2.1 Traffic Management Plan

.1 The Contractor is required to assign a Traffic Manager for the Contract with the responsibility of preparing the Traffic Management Plan and the Traffic Control Plans, as well as the responsibility for continuing implementation of traffic control for the Work.

.2 The Traffic Management Plan (TMP) will consist of the following components:

.1 Identification of risks to traffic during the Work

.2 Traffic Control Plans for individual stages of the construction

.3 Incident Management Plan for the response to an unplanned event and recording of incident information.

- .3 Submission of the TMP is to be made to the *Contract Administrator* within five (5) days of the *Notice of Award* of the *Contract*, and must be approved by the *Contract Administrator* prior to start of the *Work*.
  - .4 Review of the TMP will be performed by the Contract Administrator. Comments for revisions to the TMP will be returned to the *Traffic Manager* for implementations.
  - .5 The Contractor shall comply with all the requirements of applicable laws, rules, regulations, codes and orders of the municipal and other appropriate authorities concerned with work on streets or highways and shall post proper notices and/or signals, and provide necessary barriers, guards, lights, flagmen or watchmen as may be necessary for proper maintenance of traffic and protection of persons and property from injury or damage. All costs involved in respect to the above requirements will be deemed to be included in the Contract Price.
  - .6 The Contractor shall give due notice to local police and fire departments prior to beginning construction and shall comply in all respects with their requirements.
  - .7 The Contractor, during the progress of the work, shall make adequate provision to accommodate the normal traffic along streets and highways immediately adjacent to or crossing the work so as to cause the minimum of inconvenience to the general public.
  - .8 The Contractor is required to maintain local traffic and driveway access during all stages of construction. This includes maintaining a 1.5m width walkway or pathway through the construction site for pedestrians.
  - .9 Where existing streets or roads are not available as detours, all traffic shall be permitted to pass through the work with as little inconvenience and delay as possible unless otherwise provided or authorized by the Contract Administrator. If half the street only is under improvement, the other half shall be conditioned and maintained as detour.
- 2.2 Incident Management and Reporting
- .1 The Contractor shall facilitate incident response vehicles and staff and move traffic safely and expeditiously through or around an incident on site and provide assistance to emergency response personnel as required. An incident includes, but is not limited to, motor vehicle accidents, emergency road repairs, disabled vehicles, and debris on the road. The immediate response to an emergency shall by necessity make use of available devices and

equipment.

- .2 If an incident occurs on site, the Contractor will be required to submit a report to the Contract Administrator documenting details of the incident including event, location, date, time, action taken, duration and restoration of site.

2.3 Traffic Control Plans

- .1 The Contractor shall designate a qualified Traffic Control Supervisor for the works, per the requirements of WCB regulations Section 18.

The designated Traffic Control Supervisor may be the same individual that is designated as the Traffic Manager, or may be a separate individual qualified for the responsibilities of this function.

- .2 The Contractor shall prepare weekly the anticipated traffic control activities, locations, and durations for the upcoming week.
- .3 Permissible delays shall only be considered outside Peak Hours. Permissible delays are categorized as follows:
  - a) Minor Delays - Less than two (2) minutes in duration; for occasional interruption due to construction activities. These delays shall be coordinated with available breaks in the traffic flow.
  - b) Major Delays - Maximum ten (10) minutes in duration; for occasional interruption of traffic for construction activities if traffic volumes permit.
- .4 The Contractor is responsible for ensuring that the flow of traffic is unimpeded by construction-related activities.

**3.0 EXECUTION**

3.1 Traffic Control Plan

- .1 A copy of the approved current Traffic Plan must be held on site by both the Site Superintendent as well as the person/company responsible for the traffic control implementation.
- .2 Failure to produce a valid approved Traffic Plan on site, or having work not follow the Traffic Control Plan will result in immediate shut-down of the work. The Contractor will be required to safely restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire an approved Traffic control Plan before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.

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|-----|---------------------------------------|--|
| 3.2 | Road and Sidewalk Closure Permits     | <p>.1 The Contractor must have, on-site, a copy of an approved Road and Sidewalk Closure Permit valid for the work being done. Failure to produce a valid Road and Sidewalk Closure Permit on-site will result in shut-down of the work. Failure to comply on what is stated on the approved permit will result in shut-down of the work. The Contractor will be required to safely restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire a Road and Sidewalk Closure Permit before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.</p>   |
| 3.3 | Traffic Control Personnel & Equipment | <p>.1 The Contractor shall supply all necessary traffic control devices required to perform traffic control services for the project. Signs and traffic control devices not applying to existing conditions shall be removed. Where operations are carried out in stages, only those traffic control devices that apply to the current stage are to be left in place.</p> <p>.2 There must be sufficient Traffic Control Persons (TCPs) on site to appropriately and safely direct traffic in all sections of the Work.</p>  |
| 3.4 | Signage                               | <p>Supply, installation, maintenance and removal of all works-related signs shall be the responsibility of the Contractor. The location and type of each sign shall be indicated on the approved Traffic Control Plan, for each stage of the works.</p> <p>Traffic control signs and devices must be positioned and used as specified in the Traffic Control Plan and signs and devices must be located so as to allow traffic to move by or through the work area in a controlled manner and, if necessary, to come to a controlled stop with due regard for the prevailing weather and road conditions.</p> <p>Signs shall be checked daily for legibility, damage, suitability and location. Signs and delineators shall be cleaned as frequently as necessary to ensure full legibility and reflectance.</p> |
| 3.5 | Detours                               | <p>Any proposed detours must be approved by the Contract Administrator and conducted in accordance with the approved Traffic Plan and the Traffic Control Manual for Work on Roadways.</p>   |
| 3.6 | Abrupt Changes in Surface Elevations  | <p>The Contractor shall minimize any abrupt changes in roadway elevation left exposed to traffic during both working and non-working hours.</p> <p>A wedge of asphalt must be used as a transition to vertical differences in travelled areas and have a slope of 4:1 or less.</p>   |
| 3.7 | Cyclist and Pedestrian Access         | <p>The Contractor shall make provision for pedestrians, wheel chairs and bicycles to have safe access across the work zone at all times. If this</p>   |

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These supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents (Gold Book), Volume II, 2000.

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cannot be readily accommodated then acceptable detours and appropriate signs shall be provided.

3.8 Temporary Pavement Markings

The Contractor shall be responsible for the application and removal of all temporary pavement markings and reflective devices. All temporary markings must be removed after installation of permanent markings.

**4.0 TRAFFIC RESTRICTIONS**

4.1 Road and Sidewalk Closure Permits

- .1 One lane of traffic must be maintained at all times during any allowed lane closure times.
- .2 A Road and Sidewalk Closure Permit is required for each instance of closure and will be valid for a maximum period of one (1) week and, if still necessary, re-submittal of a Road and Sidewalk Closure Request is required.

A copy of the approved Road and Sidewalk Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.

- .3 Total Road Closure Is Not Permitted
- .4 Detours will only be permitted as approved by the Contract Administrator and must have a complete Traffic Control Plan indicating detour route, signing, and duration. Detours will not be allowed without sufficient lead time for commercial and retail operation to react appropriately to detour information provided to them.

4.2 Lane Closure Restrictions

- .1 **For each of the road sections affected:**
  - Road and Sidewalk Closures will be reviewed for appropriateness during the allowable hours of work.
  - Minimum single lane traffic is required at all times
  - Access to properties to be maintained
  - Sufficient Traffic Control Persons are required for each Road and Sidewalk Closure (or any work activities), including side street intersections, to safely guide traffic through the work site

**5.0 CONSTRUCTION OPERATIONS**

5.1 Truck Routes

- .1 The Contractor is restricted to the City's designated Truck Routes. The current Truck Route Map is available on the City's website at [www.coquitlam.ca](http://www.coquitlam.ca) and can be found under **Residents, Transit & Transportation, Trucking Routes**.

5.2 Road Specific

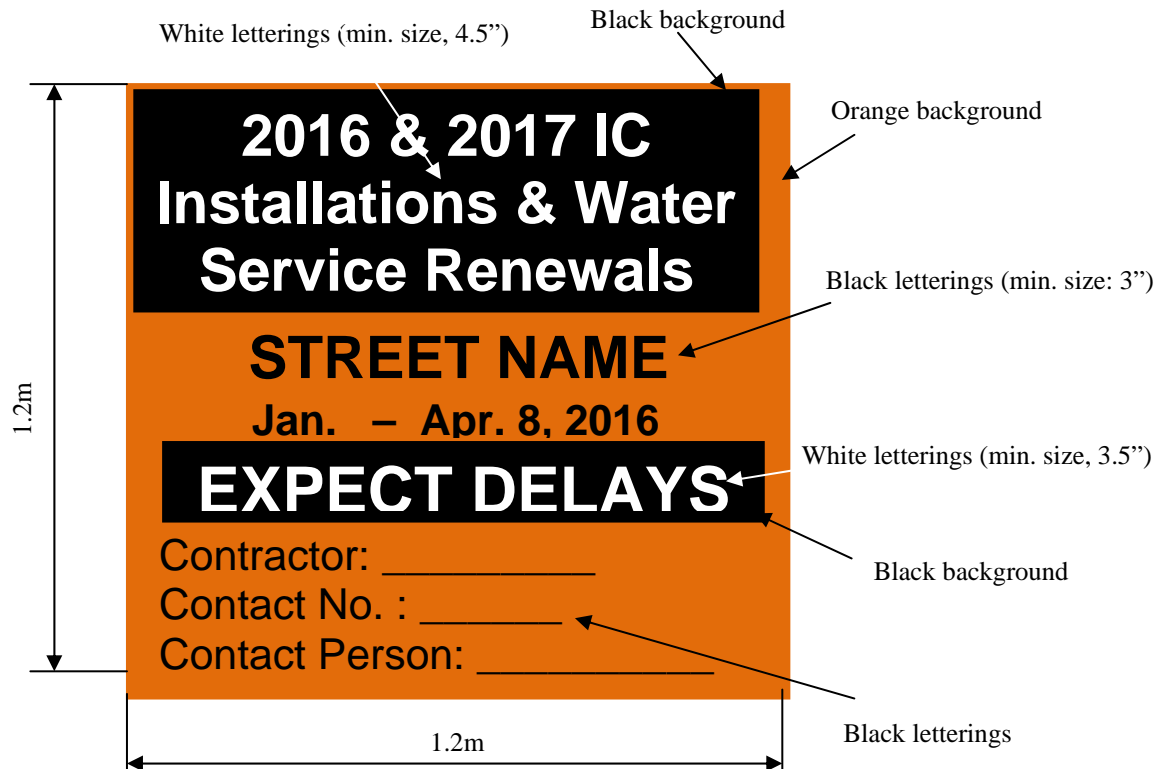
- .1 Ensure that Traffic Management Plan accommodates businesses

These supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents (Gold Book), Volume II, 2000.

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|---|---|
| Considerations                          | and residences during construction activities.  |
| 5.3 Work stoppage due to traffic        | The City will not control or direct traffic control activities of the Contractor, but may require an immediate stop to any work where, in the sole opinion of the Contract Administrator, the provided traffic management plan is ineffective.  |
| 5.4 Construction Activity and Signage   | The Contractor will be responsible to place other construction information signs as required to inform the public of construction activities, and ensure safe travel through the work site.   |
| 5.5 Construction Zone Information Signs | If the duration of the work is to be longer than 2 days, the Contractor is required to provide, one week prior to start of work, stationary signs to inform traffic of existing and anticipated conditions at all entry points of the street to be worked on. Signs can be re-used provided that the street name is legible and reflects the actual street & work duration for the street currently working on. |

Ensure that signs and locations are addressed in the Traffic Management Plan. Signs are to be located at least 3m away from any travelled roadway edge and 0.6m away from sidewalk or travelled shoulder edge with minimum head clearance of 2m. All signs are to be removed at the end of the construction period on each location.

**Construction Zone Information Signs to follow specifications below:**



These supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents (Gold Book), Volume II, 2000.



APPENDIX 1



City of Coquitlam  
Road and Sidewalk Closure Permit Request

Traffic Operations Division  
3000 Guildford Way, Coquitlam BC V3B 7N2  
Phone: 604-927-6250 Fax: 604-927-6255  
Email: trafficoperations@coquitlam.ca

Submit to the Traffic Operations Division a minimum of 5 business days prior to the intended closure date.

Permit Fee - Under Review      Payment Methods - Under Review

Application Date: \_\_\_\_\_ City Project or Film Permit Number (if applicable): \_\_\_\_\_

Contact Information

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

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

Name of Contractor doing work for Company/Applicant: \_\_\_\_\_

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

24 Hour Emergency Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Location, date and time, and traffic control plan information

I request approval to close (check all that apply): Direction:  Northbound  Southbound  Eastbound  Westbound

Specific Lanes:  Sidewalk  Curb/Cycling Lane  Right Turn Lane  Centre Lane  Left Turn Lane  All Lanes

Road/Street Name: \_\_\_\_\_

Location Description: \_\_\_\_\_

Date & Time Information:      Dates: \_\_\_\_\_ Starting      \_\_\_\_\_ Ending

Hours: \_\_\_\_\_ Starting      \_\_\_\_\_ Ending

Purpose: \_\_\_\_\_

Will this closure disrupt: Bus Routes & Stops?  Yes  No If yes, the Applicant will need to contact Coast Mountain Bus Company regarding disruptions.

Traffic Control Plan\*:

(a) Traffic Control Manual for Work on Roadways Figure Number \_\_\_\_\_, or

(b) A sketch (attach separately) indicating signage, taper lengths, direction of traffic, work area, and north arrow

Traffic control persons (flag persons) on duty?  Yes  No If yes, specify how many: \_\_\_\_\_

\* Important Notice: All operations within the road right-of-way must comply with Worksafe BC regulations and BC Ministry of Transportation standards for work on roadways. Permits must be renewed every 2 weeks (no additional fee).

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These supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents (Gold Book), Volume II, 2000.

**Application Checklist**

- Permit Fee
- Prime Contractor Designation Letter
- City of Coquitlam Certificate of Insurance
- Sketch for Traffic Control Plan or Traffic Control Manual for Work on Roadways Figure Number
- Coast Mountain Bus Company (Phone: 778-593-5774 | Email: [special.events@coastmountainbus.com](mailto:special.events@coastmountainbus.com)) contacted regarding impact to bus routes and bus stops

Should the City grant approval of the Road and Sidewalk Closure Permit, the Applicant will contact Engineering & Public Works Customer Service (604-927-3500 and staffed 24 hours, 7 days a week):

- 24 hours prior to the road closure, and
- upon removal of the closure.

I HEREBY AGREE to the terms stipulated herein and further agree to indemnify and save harmless the City against any and all claims, actions, or expenses whatsoever or by whomsoever brought against the City by the reason of the City granting us this Road and Sidewalk Closure Permit. I further agree to accept responsibility to ensure proper situation control and street sweeping for the duration of the road or sidewalk obstruction.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Applicant Signature

**Office Use Only - PERMIT STATUS**

- Permit Fee
- Prime Contractor Letter
- Certificate of Insurance
- Traffic Control Plan
- Impact to bus service
- Impact garbage and recycling collection

Request is denied for the following reason(s): \_\_\_\_\_

Request is approved with the following change(s): \_\_\_\_\_

Request is approved as submitted

\_\_\_\_\_  
Date

\_\_\_\_\_  
Traffic Technologist or Designate

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