



City of Coquitlam

# **Contract Documents 84495A**

## **Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**



# ***Table of Contents***

**Contract No. 84495A****Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas****Project Construction Documents****Table of Contents**

The complete **Project Construction Documents** consist of the following parts:

|  |                  |
|--|------------------|
| <b>1. Standard Documents – supplied</b>                            | <b>Page</b>      |
| Table of Contents .....  | TC 1 to TC 2     |
| Invitation to Tender .....   | IN 1 to IN 2     |
| Instruction to Tenderers   |                  |
| ▪ Table of Contents: .....   | IT 1             |
| ▪ Instructions to Tenderers .....                                  | IT 2 to IT 12    |
| Form of Tender, including  |                  |
| ▪ Form of Tender Summary .....                                     | FT 1             |
| ▪ Form of Tender .....   | FT 2 to FT 4     |
| ▪ Appendix 1 – Schedule of Quantities and Unit Prices .....        | FT 5             |
| ▪ Appendix 2 – Preliminary Construction Schedule .....             | FT 6             |
| ▪ Appendix 3 – Experience of Superintendent .....                  | FT 7             |
| ▪ Appendix 4 – Comparable Work Experience .....                    | FT 8             |
| ▪ Appendix 5 – Subcontractors .....                                | FT 9             |
| ▪ Appendix 6 – Bid Bond .....                                      | FT 10            |
| ▪ Appendix 7 – Certificate of Compliance for Contract Insurance .. | FT 11            |
| Agreement between Owner and Contractor .....                       | AGT 1 to AGT 4   |
| Schedule 1 – Schedule of Contract Documents .....                  | AGT 5            |
| Schedule 2 – List of Drawings .....                                | AGT 6            |
| Supplementary General Conditions – Table of Contents .....         | SGC 1 to SGC 2   |
| ▪ Supplementary General Conditions, including Appendices .....     | SGC 3 to SGC 21  |
| ▪ Appendices:  |                  |
| ▪ Appendix I Performance Bond .....                                | SGC 16 to SGC 17 |
| ▪ Appendix II Labour and Material Payment Bond .....               | SGC 18 to SGC 19 |
| ▪ Appendix III Certificate of Insurance .....                      | SGC 20           |
| ▪ Appendix IV Prime Contractor Designation .....                   | SGC 21           |
| Supplementary Contract Specifications .....                        | SS 1 to SS 32    |
| Appendix A – Traffic Management Detail Specifications .....        | TMP 1 to TMP 9   |
| Appendix B - Contract Drawings .....                               | CD 1 to CD 2     |

2. **Standard Documents – not supplied**

- i) (available in the “MMCD – General Conditions, Specifications and Standard Detail Drawings”)
  - Instructions to Tenderers
  - General Conditions
    - Schedule 17.5.3 – Letter Agreement with Referee
    - Flow Chart – Changes and Extra Work
    - Flow Chart – Dispute Resolution
  - Specifications
  - Standard Detail Drawings
- ii) City of Coquitlam Supplementary Specifications for Contract Documents

# ***Invitation to Tenderers***



## INVITATION TO TENDER

DATE OF ISSUE: **November 15th, 2022**

### **Tender No. 84495A**

### **Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

The City of Coquitlam invites tenders for **Contract 84495A – Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**, generally consisting of the following, but not limited to:

- Supply and Install 450mm Sanitary Sewer Main - Approx. 180 linear metres
- Supply and Install 1050mm Manholes – 2 ea
- Supply and Install Sanitary Services – 6 ea
- Remove Existing Manhole - 3 ea
- MMCD G8 Anchor Blocks Alternative 1 – 7 ea
- Tie into Existing Manhole – 1 ea
- Other related work as listed in the Schedule of Quantities.

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, December 6, 2022**  
("Closing Date and Time")

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

Tender submissions are to be consolidated into one (1) .pdf file and 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 consolidated Tender file in PDF format, and Appendix 1 in XLS format**, and Send (Ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete.)

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

**Inquires**

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)

**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.my.vrca.ca](http://www.my.vrca.ca), ph: 604-294-3766, or email [vrca@vrca.ca](mailto:vrca@vrca.ca), quoting the Coquitlam Tender Reference Number.

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

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, prior to award of any Tender, may negotiate with the Tenderer presenting the lowest price compliant Tender, for changes in the Work, materials, specifications or conditions without having any duty or obligation to advise any other Tenderers or to allow them to modify their Tenders, and the City will have no liability to any Tenderer as a result of such negotiations or modifications.

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

Procurement of goods and services is conducted in accordance with Chapter 5 of the Canadian Free Trade Agreement (CFTA) and the New West Partnership Trade Agreement (NWPTA).

M. Pain  
Purchasing Manager

# ***Instructions to Tenderers***



**Tender 84495A**

**Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

**INSTRUCTIONS TO TENDERERS**

| <b>TABLE OF CONTENTS</b>   | <b>Page</b>        |
|--|--------------------|
| <b>1 Introduction .....</b>                                      | <b>IT 2</b>        |
| <b>2 Tender Documents.....</b>                                   | <b>IT 2 to 3</b>   |
| <b>3 Submission of Tenders.....</b>                              | <b>IT 3 to 4</b>   |
| <b>4 Additional Instructions to Tenderers .....</b>              | <b>IT 4 to 5</b>   |
| <b>5 Tender Requirements .....</b>                               | <b>IT 6 to 7</b>   |
| <b>6 Qualifications, Modifications, Alternative Tender .....</b> | <b>IT 7</b>        |
| <b>7 Approved Equals .....</b>                                   | <b>IT 7</b>        |
| <b>8 Inspection of the Place of the Work.....</b>                | <b>IT 7</b>        |
| <b>9 Interpretation of Contract Documents .....</b>              | <b>IT 8</b>        |
| <b>10 Prices .....</b>   | <b>IT 8</b>        |
| <b>11 Taxes .....</b>  | <b>IT 8</b>        |
| <b>12 Amendment of Tenders.....</b>                              | <b>IT 8 to 9</b>   |
| <b>13 Duration of Tenders.....</b>                               | <b>IT 10</b>       |
| <b>14 Qualifications of Tenders.....</b>                         | <b>IT 10</b>       |
| <b>15 Award.....</b>   | <b>IT 10 to 12</b> |
| <b>16 Subcontractors.....</b>                                    | <b>IT 12</b>       |
| <b>17 Optional Work .....</b>                                    | <b>IT 12</b>       |

## INSTRUCTIONS TO TENDERERS

(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.)

### The City of Coquitlam

*Contract:* **Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

*Reference No.* **84495A**

- |            |                         |   |
|------------|-------------------------|---|
| <b>1.0</b> | <b>Introduction</b>     | <p>1.1 These Instructions apply to and govern the preparation of tenders for this <i>Contract</i>. The <i>Contract</i> is generally for the following work:</p> <ul style="list-style-type: none"><li>• Supply and Install 450mm Sanitary Sewer Main - Approx. 180 linear metres</li><li>• Supply and Install 1050mm Manholes – 2 ea</li><li>• Supply and Install Sanitary Services – 6 ea</li><li>• Remove Existing Manhole - 3 ea</li><li>• MMCD G8 Anchor Blocks Alternative 1 – 7 ea</li><li>• Tie into Existing Manhole – 1 ea</li><li>• Other related work as listed in the Schedule of Quantities.</li></ul> <p>1.2 All inquiries regarding this Tender are to be submitted in writing referencing the <b>Tender Name and Number</b> sent to:</p> <p>E-mail <a href="mailto:bid@coquitlam.ca">bid@coquitlam.ca</a></p> <p><b>All inquiries will be received a minimum of 3 full business days prior to Tender Closing Time.</b></p> <p><b>Inquiries received after that time may not receive a response.</b></p>   |
| <b>2.0</b> | <b>Tender Documents</b> | <p>2.1 The Tender Documents which a Tenderer should review to prepare a Tender consist of all of the <i>Contract Documents</i> 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 <i>Contract Documents</i> include the drawings listed in Schedule 2 to the Agreement, entitled “<b>List of Contract Drawings</b>”.</p> <p>2.2 <u>A portion of the Contract Documents are included by reference. Copies of these documents have not been included with the tender package.</u> These documents are the 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 <i>Tender Closing Date</i>. <u>All sections of this publication are by reference included in the <i>Contract Documents</i>.</u></p> <p>2.3 Any additional information made available to Tenderers prior to the Tender Closing Time by the Owner or representative of the Owner, such</p> |

as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the Contract Documents. Such additional information is made available 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.

**3.0 Submission of  
Tenders**

- 3.1 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:* December 6, 2022**

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**

- 3.2 **Tender submissions are to be consolidated into one (1) PDF file and 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 consolidated Tender file in PDF format and Appendix 1 in XLS 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 email: [bid@coquitlam.ca](mailto:bid@coquitlam.ca))

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

- 3.3 Tenders submitted shall be deemed to be received when displayed as a new email in the in-box of the above 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.

- 3.4 The City reserves the right to accept late Tenders to allow for technological delays. The City also reserves the right to accept Tenders received by fax (604-927-3035) or email: [bid@coquitlam.ca](mailto:bid@coquitlam.ca).

**Please Note: Due to Covid-19 prevention measures, in-person tender submissions will not be accepted. It is also reasonable to consider that City staff may be given a work from home mandate. Under this scenario, Fax submissions may not be received. Be advised that filing electronically through Qfile will be the most reliable method during these uncertain times.**

- 3.5 Tenders will not be opened in public. The unevaluated results will be forwarded to participants by email.
- 3.6 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.

**4.0 Additional  
Instructions to  
Tenderers**

Additional Instructions to Tenderers:

**Obtaining  
Documents**

- 4.1 The following documents which are referred to and form part of the Contract Document package may be obtained as follows:
- Copies of the Master Municipal Construction Documents Volume II (2009), General Conditions, Specifications and Standard Detail Drawings are available separately from:  
  
Support Services Unlimited  
Suite 102  
211 Columbia Street  
Vancouver, B.C. V6A 2R5  
Tel: 604-681-0295  
Fax : 604-305-0424
  - City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2009 Edition.  
  
City of Coquitlam Engineering & Public Works Department  
3000 Guildford Way  
Coquitlam, B.C. V3B 7N2  
Tel: 604-927-3500  
Fax: 604-927-3525

Copies of the City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2009 Edition are available for viewing and downloading off the City of Coquitlam website:

[Supplementary Specifications and Detailed Drawings to MMCD](#)

**Test  
Excavations**

- 4.2 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.

**Business  
License**

- 4.3 The successful Tenderer shall provide evidence of a City of Coquitlam Business License or Tri-Cities Inter-Municipal Business License prior to commencement of work or supply of materials. For more information, contact Business License Division Ph: 604-927-3085 or apply online at website: [City of Coquitlam Business License](#)

|   |      |   |
|---|------|---|
| <b>No Claim</b>                             | 4.4  | 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>                              | 4.5  | 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> | 4.6  | <p>The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. In its sole discretion, the City may reject or retain for its consideration, tenders which are nonconforming because they do not contain the content or form required by the instructions to tenderers or for failure to comply with the process for submission set out in these instructions to tenderers.</p> <p>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.</p> |
| <b>Negotiation</b>                          | 4.7  | The City, prior to award of any Tender, may negotiate with the Tenderer presenting the lowest price compliant Tender, for changes in the Work, materials, specifications or conditions without having any duty or obligation to advise any other Tenderers or to allow them to modify their Tenders, and the City will have no liability to any Tenderer as a result of such negotiations or modifications.   |
| <b>Cancellation of Tender</b>               | 4.8  | 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>                 | 4.9  | 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>Collusion</b>                            | 4.10 | Tenderers will not discuss or communicate with one another in regards to the preparation of their Tenders. Each Tenderer will ensure that its participation in the Tender process and that of its team members is conducted without collusion or fraud. Failure to comply with this requirement may lead to disqualification without further notice or warning.   |
| <b>Instruction to Tenderers – Part II</b>   |      | Delete Instructions to Tenderers – Part II Contained in the Edition of the Publication “Master Municipal Construction Documents 2009” and replace with the following:   |

**5.0 Tender Requirements**

- 5.1 A tender should be on the Form of Tender as provided and be signed by the authorized signatory(s) as follows:
- 5.1.1 if the tenderer is a partnership or joint venture then the name of the partnership or joint venturer should be included, and each partner or joint venturer should sign personally; if a partner of joint venture is a corporation then such corporation should sign as indicated in paragraph 5.1.3 below; and
  - 5.1.2 if the tenderer is a corporation then the full name of the corporation should be included, together with the names and signatures of authorized signatories.
  - 5.1.3 For the purpose of the Tender submission, digital copies of original documents and electronic signatures are accepted. Original documents are required upon request by the City.
- 5.2 A tender must be accompanied by tender security ("*Bid Security*") in the form of:
- 5.2.1 a copy (digital or Electronic copy is acceptable) of the original bid bond in an amount equal to 10% of the Tender Price, issued by a surety licensed to carry on the business of suretyship in British Columbia in a form reasonably satisfactory to the *Owner*;
- 5.3 Tenderer should be competent and capable of performing the various items of work. Tenderer shall complete the following statement sheets appended to the Form of Tender:
- 5.3.1 Appendix 1 – the Schedule of Quantities and Prices;
  - 5.3.2 Appendix 2 – a "*Preliminary Construction Schedule*", generally in the form attached as Appendix 2 to the Form of Tender, and showing *Substantial Performance* by the date or within the duration, shown in paragraph 2.2 of the Form of Tender.
  - 5.3.3 Appendix 3 – name and brief description of the previous experience of the *Superintendent* the tenderer will use for the *Work*;
  - 5.3.4 Appendix 4 – a list of previous comparable work, including a brief description of that work, approximate contract value, and references (with phone numbers);
  - 5.3.5 Appendix 5 – a complete list of all subcontractors, if any, that the tenderer will use for the *Work* including full names.; and
  - 5.3.6 Appendix 7 – is provided for information only, to indicate the Contract Insurance is to be submitted by the successful Tenderer upon Notice of Award.

- 5.4 The successful tenderer will, within 15 *Days* of receipt of the written *Notice of Award*, be required to deliver to the *Owner* the items listed in FT 5.1.1, including a Performance Bond and a Labour and Material Payment Bond as described in FT 5.1.1(a), failing which the provisions of FT 6.1 will apply.
- 6.0      **Qualifications,  
Modifications,  
Alternative  
Tenders**
- 6.1 Tenders which contain qualifications, or omissions, so as to make comparison which other tenders difficult, may be rejected by the *Owner*.
- 6.2 A tenderer may, at the tenderer's election, submit an alternative tender ("*Alternative Tender*") which varies the materials, products, designs or equipment by the *Owner as Approved Equals* as the case may be, but an *Alternative Tender* must be in addition to, and not in substitution for a tender which conforms to the requirements of the *Contract Documents*.
- 6.3 The only *Alternative Tender* that the *Owner* may accept is an *Alternative Tender* submitted by that tenderer whose conforming tender, submitted as required by paragraph 6.2 of these Instructions to Tenderers, would have been accepted by the *Owners* in the preference to other conforming tenders, if no *Alternative Tenders* had been invited.
- 7.0      **Approved  
Equals**
- 7.1 Prior to the *Tender Closing Time and Date*, a tenderer may request the *Owner* to approve materials, products, or equipment ("*Approved Equal*") to be included in a tender in substitution for items indicated in the *Contract Documents*.
- 7.2 Applications for an *Approved Equal* must be in writing, and supported by appropriate supporting information, data, specifications, and documentation.
- 7.3 If the *Owner* decides in its discretion to accept an *Approved Equal*, then the *Owner* will issue an addendum to all tenderers.
- 7.4 The *Owner* is not obligated to review or accept an application for an *Approved Equal*.
- 8.0      **Inspection of  
the *Place of the  
Work***
- 8.1 All tenderers, either personally or through a representative, are responsible to examine the *Place of the Work* before submitting a tender. A tenderer has full responsibility to be familiar with and make allowance in the tender for all conditions at the *Place of the Work* that might affect the tender, including any information regarding subsurface soil conditions made available by the *Owner*, the location of the *Work*, local conditions, topographical soil conditions, weather and access. Unless otherwise specified in the *Contract Documents*, a tenderer is not required to do subsurface investigations. By submitting a tender, a tenderer represents that the tenderer has examined the *Place of the Work*, or specifically elected not to. No additional payments or time extensions shall be claimable or due because of difficulties relating to conditions at the *Place of the Work* which were reasonably foreseeable by a contractor qualified to undertake the *Work*.
- 8.2 Tenderers are referred to GC 11.2.1 regarding **Concealed or Unknown Conditions**.

- 9.0 Interpretation of Contract Documents**
- 9.1 If a tenderer is in doubt as to the correct meaning of any provision of the *Contract Documents*, the tenderer may request clarification as instructed in paragraph 1.2 of the Instructions to Tenderers.
- 9.2 If a tenderer discovers any contradictions or inconsistencies in the *Contract Documents* or its provisions, or any discrepancies between a provision of the *Contract Documents* and conditions at the Place of the Work as observed in an examination under paragraph 8 of the person named in paragraph 1.2 of the Instructions to Tenderers.
- 9.3 If the *Owner* considers it necessary, the *Owner* may issue written addenda to provide clarification (s) of the *Contract Documents*.
- 9.4 No oral interpretation or representations from the *Owner* or any representative of the *Owner* will affect, alter, or amend any provision of the *Contract Documents*.
- 10.0 Prices**
- 10.1 The Tendered Price will represent the entire cost excluding *GST* to the *Owner* of the complete *Work* based on the estimated quantities in the *Schedule of Quantities and Prices* of the Form of Tender. Notwithstanding the generalities of the above, tenderers shall include in the tendered prices (including unit prices, lump sum prices, or other forms of pricing) sufficient amounts to cover:
- 10.1.1 the costs of all labour, equipment and material included in or required for the *Work*, including all items which, whole not specifically listed in the *Schedule of Quantities and Prices*, are included in the *Work* specifically or by necessary inference from the *Contract Documents*;
- 10.1.2 all assessments payable with respect to labour as required by any statutory scheme such as unemployment insurance, holiday pay, insurance, CPP and all employee benefits and the Workers Compensation Act;
- 10.1.3 all overhead costs, including head office and on-site overhead costs, and all amounts for the *Contractor's* profit.
- 10.2 The tendered prices and all subcontracts must allow for compliance with all applicable laws regarding trade or other qualifications of employees performing the *Work*, and payment of appropriate wages for labour included in or required for the *Work*.
- 11.0 Taxes**
- 11.1 The tendered prices shall cover all taxes and assessments of any kind payable with respect to the *Work*, but shall not include *GST*. *GST* shall be listed as a separate line item as required by GC 19.3.
- 12.0 Amendment of Tenders**
- 12.1 A tenderer may amend or revoke a tender by giving written notice, delivered by Email or fax, to the office referred to in paragraph 3.4 of the Instructions to Tenderers at any time up until the *Tender Closing Date and Time*. An amendment or revocation that is received after the *Tender Closing Date and Time* shall not be considered and shall not affect a tender as submitted.



- 12.2 An amendment or revocation must be signed by an authorized signatory of the tenderer in the same manner as provided by paragraph 5.1 of these Instructions to Tenderers.
- 12.3 Any amendment that expressly or by inference discloses the tenderer's *Tender Price* or other material element of the tender such that, in the opinion of the *Owner*, the confidentiality of the tender is breached, will invalidate the entire tender.
- 12.4 An acceptable form of a tender amendment which tenderers may, but are not required to, use is as follows:

"Contract:

\_\_\_\_\_  
(TITLE OF CONTRACT)

Reference No.

\_\_\_\_\_  
(OWNER'S CONTRACT REFERENCE NO.)

TO:

\_\_\_\_\_  
(NAME OF OWNER)

We the undersigned wish to amend our tender which we submitted for the above *Contract* by deleting the following tendered prices or items from our tender:

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

\_\_\_\_\_  
(TENDERED PRICES AND/OR TENDER ITEMS IN THE TENDER THAT ARE TO BE AMENDED)

and substituting the following revised tendered prices or items:

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

\_\_\_\_\_  
(REVISED TENDERED PRICES OR TENDER ITEMS)

The extensions in our tender should be adjusted accordingly, and our ***Tender Price*** as set out in Appendix 1 of our submitted **Form of Tender**, and on the ***Schedule of Quantities and Prices***, increased / decreased by \$\_\_\_\_\_, excluding GST. We have not included our revised ***Tender Price*** in order to preserve the confidentiality of our tender.

Signed and delivered the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_."

- 12.5 If a tender amendment or revocation is sent by fax, the tenderer assumes the entire risk that equipment and staff at the office referred to in paragraph 3.4 of the Instructions to Tenderers will properly receive the fax containing the amendment or revocation before the *Tender Closing Date and Time*. The *Owner* assumes no risk or responsibility whatsoever that any fax will be received as required by paragraph 12.1 of these Instructions to Tenderers, and shall not be liable to any tenderer if for any reason a fax is not properly received.

- |             |                                    |      |  |
|-------------|------------------------------------|------|--|
| <b>13.0</b> | <b>Duration of Tenders</b>         | 13.1 | After the <i>Tender Closing Time</i> , a tender shall remain valid and revocable as set out in paragraph 5.1 of the Form of Tender.  |
| <b>14.0</b> | <b>Qualifications of Tenderers</b> | 14.1 | By submitting a tender a tenderer is representing that it has the competence, qualifications and relevant experience required to do the <i>Work</i> .  |
| <b>15.0</b> | <b>Award</b>                       | 15.1 | In exercising its discretion, the <i>Owner</i> will have regard to the information provided in the Appendices to the Form of Tender as described under IT5.3 including the proven experience of the tenderer, and any listed subcontractors, to do the <i>Work</i> . |

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, not award to a 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 award to a Tenderer 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.

In the event that the lowest total Tender Price by two or more Tenderers is the same amount, the City will select a Tenderer with an overall satisfactory performance record in having completed work on previous relevant projects that are provided as references, and on City projects. Information obtained from references will not be disclosed or discussed with any Tenderer. If all references are equal, selection will be determined by a coin toss in a manner to be directed by the City.

Where only one Tender is received the City may reject such and re-tender on a selected basis.

- 15.2 The *Owner* will notify the successful tenderer in writing.
- 15.3 If there are any discrepancies in the *Schedule of Quantities and Prices* between the unit prices and the extended totals then the unit prices shall be deemed correct, and corresponding corrections shall be made to the extended totals. If a unit price or extended total has been omitted, the following shall apply:
- a) If a unit price is given but the corresponding extended total has been omitted, then the extended total shall be calculated from unit price and the estimated quantity, and inserted as the extended total;
  - b) If an extended total is given but the corresponding unit price has been omitted, then the unit price shall be calculated from the extended total and estimated quantity, and inserted as the unit price;
  - c) If both the unit price and the corresponding extended total for a tender item have been omitted, then the following test shall be applied to determine whether the tender shall be rejected as incomplete:
    - (i) the highest of the unit prices tendered by other tenderers for that tender item shall be used as the test unit price, and the corresponding test extended total shall be calculated from the test unit price and the estimated quantity;
    - (ii) if the test extended total for the tender item exceeds 1% of the revised total *Tender Price*, including the test extended total, or if the revised total *Tender Price*, including the test extended total, alters the ranking of the tenderers according to the lowest *Tender Price*, then the omitted unit price for that tender item is deemed to materially affect the *Tender Price* relative to other tenders and the tender shall be rejected;
    - (iii) if the tender is not rejected under subparagraph (ii) of this IT 15.3 (c), then the unit price and the extended total for that tender item shall both be

deemed to be, and the costs for that tender item shall be zero deemed to be included in other tender items prices;

- d) In no event shall page totals in the *Schedule of Quantities and Prices* or the total *Tender Price* be used to calculate missing extended totals or unit prices.

15.4 Upon receiving notification of being the successful Tenderer, the Tenderer shall submit a Pandemic Prevention Policy and Procedures (4P) document detailing occupational health and safety policies to prevent the spread of Covid-19 to the public, the Tenderer's employees, and sub-contractors during construction operations. The Owner reserves the right to require additions or changes to the 4P document prior to the execution of the Contract. After the Contract is in place, the Contractor will be expected to enforce the 4P document to the satisfaction of the Contract Administrator. If the Contract Administrator deems the 4P document is not being satisfactorily followed, the Contract Administrator may stop work at the sole expense of the Contractor until the Contractor's employees and sub-contractors have been provided proper training and orientation in regard to the 4P document.

**16.0 Subcontractors**

16.1 The *Owner* reserves the right to object to any of the subcontractors listed in a tender. If the *Owner* objects to any of the subcontractor(s) then the *Owner* will permit a tenderer to, within 5 days, propose a substitute subcontractor(s) acceptable to the *Owner* provided that there is not resulting adjustment in the *Tender Price* or the completion date set out in paragraph 2.2 of the Form of Tender. A tenderer will not be required to make such substitution and, if the *Owner* objects to a listed *Subcontractor(s)*, the tenderer may, rather than propose a substitute subcontractor(s), consider its tender rejected by the *Owner* and by written notice withdraw its tender. The *Owner* shall, in the event, return the tenderer's bid security

**17.0 Optional Work**

17.1 If the *Schedule of Quantities and Prices* includes any tender prices for *Optional or Provisional Work*, as defined in GC 7.4.1, the tenderers must complete all the unit prices for such *Optional or Provisional Work*. Such tender prices shall not include any general overhead costs, or other costs, or profit, not directly related to the *Optional or Provisional Work*.

17.2 Notwithstanding that the *Owner* may elect not to proceed with the *Optional or Provisional Work*, the tender prices for any *Optional or Provisional Work*, including the extended totals for *Optional or Provisional Work* unit prices, shall be included in the *Tender Price* for the purpose of any price comparisons between tenders.

# ***Form of Tender***



## Form of Tender

Tender No. 84495A

### Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas

#### Summary

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

**Tender Price** (exclude 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, December 6, 2022**

#### Instructions for Tender Submission

**Tender submissions are to be consolidated into one (1) .pdf file and 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 consolidated Tender file in PDF format, and Appendix 1 in XLS 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 2022

THE CITY OF COQUITLAM  
3000 Guildford Way  
Coquitlam, B.C. V3B 7N2

---

( 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: Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**  
**Reference No. 84495A**

**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 **March 30, 2023**; 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 **15 Days** of receipt of the written *Notice of Award* deliver to the *Owner*:
    - 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*;
    - b) a "clearance letter" indicating that the Tenderer is in WCB compliance; and
    - c) a copy of the insurance policies as specified in SGC Section 24 indicating that all such insurance coverage is in place and;
    - d) a letter confirming the *Contractor* as "Prime Contractor" for the Contract as specified in SGC Section 21.2.1.
  - 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:

---

---

---

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 84495A**

**Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

**SCHEDULE OF QUANTITIES AND PRICES**

(see paragraph 5.3.1 of the Instruction to Tenderers)

**(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>1.00</b> | <b>01 55 00</b>           | <b>TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING</b>  |      |       |            |                 |
| 1.01        | 1.5.1                     | Traffic Control and Management  | l.s. | 1.0   |            |                 |
| <b>2.00</b> | <b>01 58 015</b>          | <b>PROJECT IDENTIFICATION</b>   |      |       |            |                 |
| 2.01        | ( 1.3.1 )                 | Supply and Installation of 1.2m x 1.2m Construction Notification Sign   | ea.  | 3.0   |            |                 |
| <b>3.00</b> | <b>03 30 20s</b>          | <b>CONCRETE WALKS, CURBS AND GUTTERS</b>  |      |       |            |                 |
| 3.01        | (1.4.3)                   | Remove and Replace Concrete Curb & Gutter - Wide Base – MMCD C5 (Provisional)                                       | l.m. | 2.0   |            |                 |
| 3.02        | ( 1.4.5 )                 | Remove and Replace Monolithic Curb Sidewalk - (COQ-C8)  | sq.m | 2.0   |            |                 |
| 3.03        | (1.4.5)                   | Remove and Replace Concrete Driveway Letdown, Sidewalk Crossing, and Driveways - 190mm thick - COQ-C7 (Provisional) | sq.m | 3.0   |            |                 |
| <b>4.00</b> | <b>31 23 01</b>           | <b>EXCAVATING, TRENCHING AND BACKFILLING</b>  |      |       |            |                 |
| 4.01        | 1.10.3                    | Over Excavation (Provisional)   | c.m. | 30.0  |            |                 |
| <b>5.00</b> | <b>33 30 01</b>           | <b>SANITARY SEWERS</b>  |      |       |            |                 |
| 5.01        | 1.6                       | Supply and Installation of 200mm PVC SDR35  | l.m. | 6.0   |            |                 |
| 5.02        | 1.6                       | Supply and Installation of 450mm PVC SDR35  | l.m. | 178.0 |            |                 |
| 5.03        | 1.6.3                     | Sanitary Service Connection as per MMCD S7  | ea.  | 6.0   |            |                 |
| 5.04        | 1.6.4                     | Sanitary Inspection Chamber as per MMCD S9  | ea.  | 6.0   |            |                 |
| 5.05        | 1.6.6                     | Anchor Blocks as per MMCD G8 Alternative 1  | ea.  | 7.0   |            |                 |
| 5.06        | 1.6.7                     | Tie-in exist. 200mm Sanitary Main west of SNMH 06 (not incl. pipe)  | ea.  | 1.0   |            |                 |
| <b>6.00</b> | <b>33 44 01</b>           | <b>MANHOLES AND CATCHBASINS</b>   |      |       |            |                 |
| 6.01        | 1.5.1.1                   | 1050mm Manhole Base, Lid, Frame and Cover   | ea.  | 2.0   |            |                 |
| 6.02        | 1.5.1.2                   | 1050mm Vertical Risers  | v.m. | 2.5   |            |                 |
| 6.03        | 1.5.2                     | Remove and Replace Lawn Basin incl. reconnecting to ex. leads   | ea.  | 1.0   |            |                 |
| 6.04        | 1.5.4                     | Cap Ex. 200mm Sanitary Main   | ea.  | 6.0   |            |                 |
| 6.05        | 1.5.4                     | Removal and Disposal of Existing Manhole  | ea.  | 3.0   |            |                 |

**Total Tendered Price (Excluding GST) \$**

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

**APPENDIX 2**

**FORM OF TENDER**

**Contract 84495A  
Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

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

INDICATE SCHEDULE WITH BAR CHART WITH CONSTRUCTION DURATIONS

| CONSTRUCTION<br>ACTIVITY | JANUARY |   |   |   | FEBRUARY |   |   |   | MARCH |   |   |   |
|--------------------------|---------|---|---|---|----------|---|---|---|-------|---|---|---|
|                          | 1       | 2 | 3 | 4 | 1        | 2 | 3 | 4 | 1     | 2 | 3 | 4 |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |
|                          |         |   |   |   |          |   |   |   |       |   |   |   |

Substantial Completion Date: **March 30, 2023**

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

**APPENDIX 3**

**FORM OF TENDER**

**Contract 84495A  
Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

**EXPERIENCE OF SUPERINTENDENT**  
(See paragraph 5.3.3 of the Instructions to Tenderers)

**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**

**FORM OF TENDER**

**Contract 84495A  
Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

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

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

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

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

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

**APPENDIX 5**

**FORM OF TENDER**

**Contract 84495A  
Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

**SUBCONTRACTORS  
(See paragraph 5.3.5 of the Instructions to Tenderers)**

|                          |  |                     |  |
|--------------------------|--|---------------------|--|
| <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**

**FORM OF TENDER**

**Contract 84495A  
Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

**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  
\_\_\_\_\_, 2022, 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 \_\_\_\_\_, 2022.

SIGNED, SEALED AND DELIVERED

In the presence of:

)  
)  
)  
)  
)

\_\_\_\_\_  
PRINCIPAL

\_\_\_\_\_  
SURETY

---

**APPENDIX 7**

**FORM OF TENDER**

**Contract 84495A  
Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

**CERTIFICATE OF COMPLIANCE for CONTRACT INSURANCE**

---

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

**Contract Number:**       **84495A**

**Contract Name:**       **Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

**Description of Work:**

- Supply and Install 450mm Sanitary Sewer Main - Approx. 180 linear metres
- Supply and Install 1050mm Manholes – 2 ea
- Supply and Install Sanitary Services – 6 ea
- Remove Existing Manhole - 3 ea
- MMCD G8 Anchor Blocks Alternative 1 – 7 ea
- Tie into Existing Manhole – 1 ea
- Other related work as listed in the Schedule of Quantities.

**Other miscellaneous and incidental work 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 \_\_\_\_\_ 2022.

**Contract:** Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas

**Reference No.** 84495A

**BETWEEN:**

The City of Coquitlam  
3000 Guildford Way  
Coquitlam, B.C. 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 **March 30, 2023** subject to the provisions of the *Contract Documents* for adjustments to the *Contract Time*.
- 1.3 Time shall be the essence of the Contract.

## **2 CONTRACT DOCUMENTS**

- 2.1 The “*Contract Documents*” consist of the documents listed or referred to in Schedule 1, entitled “Schedule of Contract Documents”, which is attached and forms a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the *Contract Documents*. All of the *Contract Documents* shall constitute the entire *Contract* between the *Owner* and the *Contractor*.
- 2.2 The *Contract* supersedes all prior negotiations, representations or agreements, whether written or oral, and the *Contract* may be amended only in strict accordance with the provisions of the *Contract Documents*.

## **3 CONTRACT PRICE**

- 3.1 The price for the *Work* (“*Contract Price*”) shall be the sum in Canadian dollars of the following:
- 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 email, by hand or 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, B.C. V3B 7N2

Tel: 604-927-3500  
Fax: 604-927-3505

The *Contractor*:

Tel:  
Fax:  
Email:  
Attention:

The *Contract Administrator*:

The City of Coquitlam  
3000 Guildford Way  
Coquitlam, B.C. 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 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

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:*

The City of Coquitlam

\_\_\_\_\_  
(MANAGER CAPITAL PROJECTS AND INSPECTIONS)

Representative as Per G.C. 17

\_\_\_\_\_  
(MANAGER DESIGN AND CONSTRUCTION)

**Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

**Reference No: 84495A**

**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 2009. 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. Detail Specifications, if any;
6. Specifications\*;
7. Supplementary Detail Drawing, if any;
8. Standard Detail Drawings\*;
9. Executed Form of Tender, including all Appendices;
10. Drawings listed in Schedule 2 to the Agreement – “List of Drawings”, if any;
11. Instructions to Tenderers;
12. The following Addenda:
  - As issued
13. COQUITLAM “Supplementary Specifications Master Municipal Construction Documents” March 2016

**Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

**Reference No: 84495A**

**Schedule 2**

**LIST OF DRAWINGS**

**(Complete Listing of All Drawings, Plans and Sketches That Are Part of the Contract Documents)**

**Bound in this Document:**

**Appendix A: Traffic Management Detail Specifications**

**Appendix B: Contract Drawings**

| TITLE                             | SHEET NO. | REVISION NO. | DATE       |
|-----------------------------------|-----------|--------------|------------|
| COVER SHEET                       | 00        | -            | -          |
| SANITARY SEWER – PLAN AND PROFILE | 01        | 2            | 2022-07-25 |

# ***Supplementary General Conditions***



## SUPPLEMENTARY GENERAL CONDITIONS

### TABLE OF CONTENTS

|   | Page              |
|---|-------------------|
| Supplementary General Conditions to MMCD Volume II, 2009 Issue..... | SGC 1 to SGC 15   |
| <b>Section 1: DEFINITIONS.....</b>                                  | <b>SGC 3</b>      |
| 1.1    Abnormal Weather .....                                       | SGC 3             |
| <b>Section 2: DOCUMENTS .....</b>                                   | <b>SGC 3</b>      |
| 2.2    Interpretation.....  | SGC 3             |
| <b>Section 4: CONTRACTOR .....</b>                                  | <b>SGC 3 to 6</b> |
| 4.1    Control of Work .....  | SGC 3 to 4        |
| 4.2    Safety .....   | SGC 4             |
| 4.3    Protection of Work, Property and the Public.....             | SGC 4             |
| 4.6    Construction Schedule .....                                  | SGC 4 to 5        |
| 4.7    Superintendent .....   | SGC 5             |
| 4.8    Workers.....   | SGC 5             |
| 4.9    Materials .....  | SGC 5             |
| 4.11   Subcontractors.....  | SGC 5             |
| 4.12   Tests and Inspections.....                                   | SGC 6             |
| 4.14   Final Clean-up .....   | SGC 6             |
| 4.16   Notice of Disruption.....                                    | SGC 6             |
| <b>Section 7: CHANGES.....</b>                                      | <b>SGC 6 to 7</b> |
| 7.1    Changes.....   | SGC 6             |
| 7.4    Optional Work.....   | SGC 6 to 7        |
| <b>Section 9: VALUATION OF CHANGES AND EXTRA WORK.....</b>          | <b>SGC 7</b>      |
| 9.2    Valuation Method .....                                       | SGC 7             |
| 9.4    Quantity Variations .....                                    | SGC 7             |
| <b>Section 10: FORCE ACCOUNTS.....</b>                              | <b>SGC 7</b>      |
| 10.1   Force Account Costs.....                                     | SGC 7             |
| <b>Section 12: HAZARDOUS MATERIALS .....</b>                        | <b>SGC 8</b>      |
| 12.2   Discovery of Hazardous Materials .....                       | SGC 8             |
| <b>Section 13: DELAYS .....</b>                                     | <b>SGC 8</b>      |
| 13.1   Delay by Owner or Contract Administrator .....               | SGC 8             |
| 13.3   Unavoidable Delay .....                                      | SGC 8             |
| 13.8   Direction to Stop or Delay.....                              | SGC 8             |
| 13.9   Liquidated Damages for Late Completion.....                  | SGC 8             |
| <b>Section 18: PAYMENT .....</b>                                    | <b>SGC 9</b>      |
| 18.1   Preparation of Payment Certificate .....                     | SGC 9             |
| 18.4   Holdbacks.....   | SGC 9             |
| 18.6   Substantial Performance.....                                 | SGC 9             |
| <b>Section 21: WORKERS COMPENSATION REGULATIONS.....</b>            | <b>SGC 10</b>     |
| 21.2   Contractor is "Prime Contractor" .....                       | SGC 10            |

|   |                         |
|---|-------------------------|
| <b>Section 24: INSURANCE.....</b>   | <b>SGC 10 to 14</b>     |
| 24.1 General.....   | SGC 10                  |
| 24.2 Required Insurance .....   | SGC11                   |
| 24.3 Physical Loss or Damage with Respect to New Buildings under<br>Construction and/or Major Additions to Existing Structures..... | SGC 12 to 14            |
| 24.4 Additional Insured.....  | SGC 14                  |
| <b>Section 25: MAINTENANCE PERIOD .....</b>   | <b>SGC 14</b>           |
| 25.1 Correction of Defects .....  | SGC 14                  |
| <b>Section 27: CONTRACTOR PERFORMANCE EVALUATION .....</b>  | <b>SGC 15</b>           |
| <b>APPENDICES .....</b>   | <b>SGC 16 to SGC 21</b> |
| <b>Appendix I</b> Performance Bond.....   | SGC 16 to 17            |
| <b>Appendix II</b> Labour and Material Payment Bond.....  | SGC 18 to 19            |
| <b>Appendix III</b> Certificate of Insurance.....   | SGC 20                  |
| <b>Appendix IV</b> Prime Contractor Designation Letter.....   | SGC 21                  |

**1.0 DEFINITIONS**

- 1.1 Abnormal Weather**      1.1.1 **(Replace clause 1.1.1 as follows):**  
Abnormal Weather” means temperature, precipitation, wind or other weather conditions in which the monthly average, differs from the statistical average for that condition in that period by more than one standard deviation, calculated based on data available from Environment Canada. Coquitlam’s Burke Mountain Rain Gauge will be used to compare the rainfall summary versus the available data from Environment Canada.  
[City of Coquitlam Rainfall](#)

**2.0 DOCUMENTS**

- 2.2 Interpretation**      2.2.4 (1) **(Replace clause 2.2.4 (1) as follows):**  
The Contract Documents shall govern and take precedence in the following order as listed in Schedule 1 of the Agreement, taking precedence over all Contract Documents.

**4.0 CONTRACTOR**

- 4.1 Control of the Work**      4.1.1 **(Add to clause 4.1.1 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.

- 4.1.2 **(Add to clause 4.1.2 as follows):**  
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.

- 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, unless specified otherwise in Supplementary Specifications - Appendix A: Traffic Management Detail Specifications. 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 cost of inspections on a Sunday or on a Statutory Holiday by City staff/s will be at Contractor's expense.**

**4.2 Safety**

4.2.2

***(Add new clause 4.2.2 as follows):***

*In an emergency, gas pipeline rupture or leak, Contact FortisBC's 24 Hour Emergency Line (1-800-663-9911) and Coquitlam Fire (911) immediately and then City of Coquitlam's Utility Control Centre (604-927-6287).*

**4..3 Protection of Work, Property and the Public**

4.3.1

***(Replace clause 4.3.1 as follows):***

In performing the Work, the Contractor shall protect the Work and the Owner's property and other person's property from damage. The Contractor shall at the Contractor's own expense make good any such damage which arises as the result of the Contractor's operations. If the Contractor causes damage to private property, the Contractor must obtain a written release from the owner of the damaged property.

4.3.5.1

***(Add clause 4.3.5.1 as follows):***

The Contractor shall notify the Contract Administrator immediately if damage occurs to any City or third party utility or structure.

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*.

**4.6 Construction Schedule**

4.6.1

***(Replace clause 4.6.1 as follows):***

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. The Notice to Proceed will not be issued until the documentation required under paragraph 5.1.1 of the Form of Tender has been submitted and the construction schedule has been approved.

4.6.8

***(Add new clause 4.6.8 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

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009

adjust the schedule at his discretion upon receipt of a written request.

**4.7 Superintendent**

4.7.4

***(Add new clause 4.7.4 as follows):***

The key personnel named in the Contractor's Tender response, shall remain in these key positions throughout the project. In the event that key personnel leave the Contractor's firm, or for any unknown reason are unable to continue fulfilling their role, the Contractor must propose a suitable replacement, and obtain written consent from the Owner. Acceptance of the proposed replacement is at the sole discretion of the Contract Administrator and the Owner.

**4.8 Workers**

4.8.2

***(Add new clause 4.8.2 as follows):***

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.

**4.9 Materials**

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) Replace all materials found to be defective in manufacture which have been supplied by himself.

**4.11 Subcontractors**

4.11.3

***(Replace clause 4.11.3 as follows):***

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.

|             |                             |         |  |
|-------------|-----------------------------|---------|--|
| <b>4.12</b> | <b>Test and Inspections</b> | 4.12.1  | <b><i>(Replace clause 4.12.1 as follows):</i></b><br>The Contractor shall perform or cause to be performed all tests, inspections and approvals of the Work as described in the Contract Documents or as required by the Contract Administrator as part of Quality Control. The Contractor shall complete all the necessary testing at the frequencies described in the Contract Document unless otherwise approved by the Contract Administrator.<br><br>Acceptable test and inspection results will not relieve the Contractor of its obligations under the Contract to correct defects or deficiencies in the Work. |
|             |                             | 4.12.11 | <b><i>(Add clause 4.12.11 as follows):</i></b><br>Failure to follow DFO/FLNRO BMPs and the approved permit for Instream Works or as instructed by Contract Administrator will result in shut-down of the work. 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.   |
| <b>4.14</b> | <b>Final Clean-up</b>       | 4.14.1  | <b><i>(Replace clause 4.14.1 as follows):</i></b><br>Prior to applying for Substantial Performance, the Contractor shall remove all surplus products, tools, construction machinery and equipment relating to the Work that is not required for the performance of the remaining Work. The Contractor shall also remove waste, debris and waste products other than caused by the Owner or Other Contractors, and leave the Place of Work clean and suitable for occupancy by the Owner unless otherwise specified in the Contract Documents or directed by the Contract Administrator.                                |
| <b>4.16</b> | <b>Notice of Disruption</b> | 4.16.2  | <b><i>(Add new clause 4.16.2 as follows):</i></b><br>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.<br><br>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.   |
| <b>7.0</b>  | <b>CHANGES</b>              |         |  |
| <b>7.1</b>  | <b>Changes</b>              | 7.1.3   | <b><i>(Replace clause 7.1.3 as follows):</i></b><br>Additional work that the Owner may wished performed that does not satisfy the requirements of subparagraphs (a) and (b) of GC 7.1.1 is extra work (Extra Work) and is not a Change. Pursuant to GC 8, Extra Work may be declined by the Contractor or may, upon agreement between the parties, be undertaken as Extra Work.  |
| <b>7.4</b>  | <b>Optional Work</b>        | 7.4.2   | <b><i>(Add new clause 7.4.2 as follows):</i></b><br>If there are Optional items or Provisional items included in the <i>Schedule of Quantities and Prices</i> , those items shall be used only   |

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009

as directed and at the sole discretion of the Contract Administrator through the issue of a Change Order. 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. Clause 9.4 Quantity Variations will not be applicable for these items.

**9.0 VALUATION OF  
CHANGES AND EXTRA  
WORK**

**9.2 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.

**9.4 Quantity Variation**      9.4.1

***(Replace clause 9.4.1 as follows):***

If for any reason, including an addition or deletion under GC 7.1.1(1) or 7.1.1(2) respectively, the actual quantity of a unit price item varies by more than plus or minus the Variance Threshold Percentage from the estimated quantity for that unit price item listed in the Schedule of Quantities and Prices (the "Tender Quantity") or as otherwise agreed to pursuant to these Contract Documents, then either the Owner or the Contractor may by written notice request the other party to agree to a revised unit price, considering the change in quantities. A party shall make a request for a revised unit price as soon as reasonably possible after the party concerned becomes aware of the quantity variation.

9.4.2      ***(Delete clause 9.4.2 (2))***

**10.0 FORCE ACCOUNTS**

**10.1 Force Account Costs**      10.1.1(1)

***(Add to clause 10.1.1(1) as follows):***

Costs for the Contractor's Superintendent, Project Managers, Health and Safety Personnel, and Office/Administration Staff are not eligible for labour costs as those costs are considered incidental to the mark up owing for overhead and labour.

10.1.1(4)      ***(Replace clause 10.1.1(4) as follows):***

Force Account Work performed by a subcontractor shall be paid for in the lesser of: (i) the amount provided by subparagraphs (1), (2) and (3) of this GC, plus a mark-up of 5%, or (ii) the actual amount the Contractor pays the subcontractor including a mark-up of 10% on such actual costs to cover all overhead and profit.

**12.0 HAZARDOUS  
MATERIALS**

**12.2 Discovery of  
Hazardous Materials**

12.2.2

***(Replace clause 12.2.2 as follows):***

If the Contract Administrator observes any materials at the Place of Work that the Contract Administrator knows or suspects may be Hazardous Materials, then the Contract Administrator shall immediately give written notice to the Contractor and the Contractor shall immediately stop the Work or portion of the Work as required by GC 12.2.1(1).

**13.0 DELAYS**

**13.1 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.

**13.3 Unavoidable Delay**

13.3.1

***(Add to clause 13.3.1 as follows):***

Beyond the reasonable control of the Contractor also includes pandemic or community outbreak

**13.8 Direction to Stop or  
Delay**

13.8.3

***(Add new clause 13.8.3 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.

**13.9 Liquidated Damages  
for Late Completion**

13.9.1

***(Replace clause 13.9.1 as follows):***

If the Contractor fails to meet the Milestone Date for Substantial Performance as set out in the Form of Tender, paragraph 2.2 as may be adjusted pursuant to the provisions of the Contract Documents, then the Owner may deduct from any monies owing to the Contractor for the Work:

- (1) An amount of \$1,000.00 for each calendar day the actual *Substantial Performance* is achieved after the Substantial Performance Milestone Date; plus
- (2) All direct out of pocket costs, such as costs for safety, security or equipment rental, reasonably incurred by the Owner as a direct result of such delay.

If the monies owing to the Contractor are less than the total amount owing by the Contractor to the Owner under (1) and (2) then any shortfall shall immediately, upon written notice from the Owner, and upon Substantial Performance, be due and owing by the Contractor to the Owner.



**18.0 PAYMENT**

**18.1 Preparation of  
Payment Certificate**

18.1.1 ***(Replace clause 18.1.1 as follows):***  
The Contract Administrator shall prepare and issue a certificate for the period ending the last calendar day of the month.

**18.4 Holdbacks**

18.4.2 ***(Add to clause 18.4.2 as follows):***  
At the sole discretion of the Contract Administrator, an amount equivalent to 10% of the contract award value or 200% of a reasonable estimate, whichever is higher, may be held without interest until all deficiencies have been remedied and accepted by the Contract Administrator.

**18.6 Substantial  
Performance**

18.6.5 ***(Replace clause 18.6.5 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, 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 a 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.

**21.0 WORKERS  
COMPENSATION  
REGULATIONS**

**21.2 Contractor is "Prime  
Contractor"**

**21.2.1 (Add to clause 21.2.1 as follows):**

Prior to the issuance of the "Notice to Proceed" the Contractor must provide a signed "Prime Contractor Designation" form as provided in Appendix IV of these Supplementary General Conditions.

**24.0 INSURANCE**

**(Replace section 24.0 as follows):**

**24.1 General**

**24.1.1**

**Importance of Prompt Attention to Insurance Requirements:**

The Contractor shall provide the Owner with satisfactory evidence that the insurance required to be provided under this GC is in full force and effect.

**24.1.2**

**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 in Ottawa, except the Insurance Corporation of British Columbia, which is not subject to this condition.

**24.1.3**

**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.

**24.1.4**

**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.

**24.1.5**

**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.

**24.2 Required Insurance**

**24.2.1**

**General**

Damage to work (excluding Building Contracts where Section 24.3, Paragraph 24.3.1, 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.

**24.2.2**

**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 Substantial Performance 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.

**24.2.3**

**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.

**24.3 Physical Loss or  
Damage With Respect  
to New Buildings under  
Construction and/or  
Major Additions to  
Existing Structures**

**24.3.1 Responsibility for Placing Insurance:**

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.

**24.3.2 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.

**24.3.3 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.

**24.3.4 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.

**24.3.5 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.

- 24.3.6      **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 24.3 of these specifications.
- 24.3.7      **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.
- 24.3.8      **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.
- 24.3.9      **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.
- 24.3.10     **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.

24.3.11 **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 24.3 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.

**24.4 Additional Insured**

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

- The City of Coquitlam

The City 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.

**25.0 MAINTENANCE PERIOD**

**25.1 Correction of Defects**

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.

**27.0 CONTRACTOR  
PERFORMANCE  
EVALUATION**

27.1

***(Add new clause 27.1 as follows):***

After the completion of the Contract, the Contractor will be evaluated on their performance of the Work. The evaluation will provide percentage scores on the following categories:

1. *Contract Administration*
2. *Construction Management*
3. *Schedule Management*
4. *Communications*
5. *Resource Management and Contractor Performance*
6. *Quality Management*

*An evaluation summary report may be issued to the Contractor with scores for each of these categories. Upon request, the Contractor may attend a meeting with the City to discuss the evaluation.*

*This internal evaluation may be reviewed for reference on subsequent tenders with the City. Evaluation scores can form part of the tender analysis and influence contract award decisions. Evaluation Scores in categories that are below 50% may result in a suspension of tendering privileges with the City.*

**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 \_\_\_\_\_, 20\_\_\_\_, 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:

1. Complete the Contract in accordance with its terms and conditions, or
2. Obtain a bid or bids for submission to Obligee for completing the Contract in accordance with its terms and conditions, and upon determination by Obligee and Surety of the lowest responsible bidder, arrange for a contract between such bidder and Obligee and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this

\_\_\_\_\_  
These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009



paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term 'balance of the contract price', as used in this paragraph, shall mean the total amount payable by Obligee to Principal under the Contract less the amount properly paid by Obligee to Principal.

Any suit under this Bond must be instituted before the expiration of two (2) years from date on which the Notice of Acceptance under the Contract is issued.

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

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Obligee named herein or the heirs, executors, administrators, or successors of Obligee.

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 II**

**LABOUR AND MATERIAL PAYMENT BOND**

(Private Contracts – Trustee Form)

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

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

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 \_\_\_\_\_, 20\_\_\_\_.

WHEREAS, the Principal has entered into a written contract with the Obligee dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, 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

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009

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 Oblige 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 Oblige is not obliged to do or take any act, action or proceeding against the Surety on behalf of the Claimants or any of them to enforce the provisions of this Bond. If any act, action or proceeding is taken either in the name of the Oblige or by joining the Oblige as a party to such proceedings then such act, action or proceeding shall be taken on the understanding and basis that the Claimants or any of them who take such act, action or proceeding shall indemnify and save harmless the Oblige against all costs, charges and expense or liabilities incurred thereon and any loss or damage resulting to the Oblige by reasons thereof. Provided still further that subject to the foregoing terms and conditions, the Claimants or any of them may use the name of the Oblige to sue on and enforce the provisions of this Bond.
3. No suit or action shall be commenced hereunder by any Claimant:
  - a) unless such Claimant shall have given written notice within the time limits hereinafter set forth to each of the Principal, Surety and Oblige, stating with substantial accuracy the amount claimed. Such notice shall be served by mailing the same by registered mail to the Principal, Surety and Oblige at any place where an office is regularly maintained for the transaction of business by such persons or served in any manner in which legal process may be served in the Province or other part of Canada in which the subject matter of the contract is located. Such notice shall be given (i) in respect of any claim for the amount or any portion thereof required to be held back from the Claimant by the Principal under either the terms of the Claimant's contract with the Principal or under the Mechanic's Liens Legislation applicable to the Claimant's contract with the Principal whichever is the greater within one hundred and twenty (120) days after such Claimant should have been paid in full under the Claimant's contract with the Principal; (ii) in respect of any claim other than for the holdback or portion thereof referred to above within one hundred and twenty (120) days after the date upon which such claimant did or performed the last of the work or labour or furnished the last of the materials for which such claim is made under the Claimant's contract with the Principal.
  - b) after the expiration of one (1) year following the date on which Principal ceased work on the Contract including work performed under guarantees provided in the Contract.
  - c) Other than in a court of competent jurisdiction in the Province or District of Canada in which the subject matter of the Contract or any part thereof is situated and none elsewhere, and the parties hereto agree to submit to the jurisdiction of such court.
4. The amount of this Bond shall be reduced by and to the extent of any payments made in good further and in accordance with the provisions which may be filed of record against the subject matter of the Contract, whether or not claim for the amount of such lien be presented under and against this Bond.
5. The Surety shall not be liable for a greater sum than the specified penalty 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 the day and year first above written.

SIGNED, SEALED and DELIVERED

In the presence of

)  
)  
)  
)  
)

\_\_\_\_\_  
PRINCIPAL

\_\_\_\_\_  
SURETY

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009

### 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**  
Coquitlam, BC V3B 7N2
- Named Insured and Mailing Address:
- B. CONTRACT NUMBER AND/OR NAME Description of the Work:
- C. INSURANCE POLICY
- Name of Insurer: Liability Limit:  
Policy Number: Expiry Date:  
Effective Date:
- D. INSURANCE COVERAGE
- 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 | ( ) | ( ) <b>PROFESSIONAL LIABILITY INSURANCE for Consultant Service Agreements</b> |

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 2009



## APPENDIX IV

### PRIME CONTRACTOR DESIGNATION

Subject: **Prime Contractor Designation**  
Contract #: **84495A**  
Contract Name: **Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas** (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 Contract Specifications***

---

These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings

File #: 11-5330-20/84495A/1 Doc #: 4615996.v1

---

**Supplementary Contract Specifications**

to the  
MASTER MUNICIPAL SPECIFICATIONS  
**Volume II – Platinum Book**

**Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas**

CONTRACT 84495A

**TABLE OF CONTENTS**

The following Supplementary Specifications are to be considered part of the Specifications. These Supplementary Specifications take precedence over the Master Municipal Specifications.

|   |                |
|---|----------------|
| <b>SUPPLEMENTARY CONTRACT SPECIFICATIONS INDEX .....</b>    | <b>SS 1</b>    |
| 00 72 43S Contract Specific Notations .....                 | SS 2 to SS 5   |
| 01 33 01S Project Record Documents .....                    | SS 6           |
| 01 45 00S Quality Control .....                             | SS 7 to SS 8   |
| 01 55 00S Traffic Control, Vehicle Access and Parking ..... | SS 9 to SS 10  |
| 01 57 01S Environmental Protection .....                    | SS 11 to SS 12 |
| 01 58 01S Project Identification .....                      | SS 13          |
| 03 30 20S Concrete Walks, Curbs and Gutters .....           | SS 14 to SS 15 |
| 31 05 17S Aggregates and Granular Material .....            | SS 16          |
| 31 22 01S Site Grading .....                                | SS 17          |
| 31 22 16S Reshaping Granular Roadbeds .....                 | SS 18          |
| 31 23 01S Excavating, Trenching and Backfilling .....       | SS 19          |
| 32 11 16.1S Granular Subbase .....                          | SS 20          |
| 32 11 23S Granular Base .....                               | SS 21          |
| 32 12 13.1S Asphalt Tack Coat .....                         | SS 22          |
| 32 12 16S Hot-Mix Asphalt Concrete Paving .....             | SS 23 to SS 24 |
| 32 92 20S Seeding .....                                     | SS 25          |
| 33 01 30.1S CCTV Inspection of Pipelines .....              | SS 26 to SS 27 |
| 33 30 01S Sanitary Sewers .....                             | SS 28 to SS 30 |
| 33 44 01S Manholes and Catchbasins .....                    | SS 31 to SS 32 |

**1.00 CONTRACT SPECIFIC INSTRUCTIONS**

**1.01 Schedule of Work**

All work under this Contract is to be completed by the designated Substantial Performance Date as described in the Contract Documents. The Contractor must provide sufficient resources in a continuous effort and site presence to complete all the work within the allotted time. As set out in the MMCD the Contractor must provide updates to the construction schedule as reasonably requested by the Contract Administrator.

**1.02 Coordination of Work**

The Contractor shall be responsible to consult with all affected businesses, residents, transportation companies regarding delays, detours, and any other works affecting any transit service in the area, and will be responsible to coordinate the works with City crews and other contractors working in the area. If working area is to become a multiple-employer workplace as defined by WorkSafe BC, the Contractor shall remain the Prime Contractor.

**1.03 Outside Agency Approval**

In accordance with the Contract Documents, the Contractor is responsible to consult with and obtain any approval required to meet and comply with all the conditions required from outside agency such as, but not limited to, BC One Call, Metro Vancouver, BC Hydro, Telus, Kinder Morgan, and Fortis BC in the area of the place of Work.

**1.04 Waste Collection Coordination**

1. Contractor is responsible to accommodate all waste collection vehicles and cart pick up schedules throughout construction.
2. If waste collection will be impacted the contractor is responsible to:
  - a. Provide advanced notification to:
    - i. The City's Solid Waste staff at 604-927-3500 or [wastereduction@coquitlam.ca](mailto:wastereduction@coquitlam.ca); and
    - ii. The City's Contract Administrator.
  - b. Provide access for collection trucks to closed streets due to road work; or
  - c. Move waste carts for collection:
    - i. The Contractor is required to ensure each cart is labeled with the property address and returned to the correct address after collection (each cart has a code and is specifically assigned to each property). **Contractors will be responsible for the costs to replace missing carts.**
  - d. Change collection time (e.g. PM to AM):
    - i. The Contractor must provide residents with as much notice as possible – minimum of 5 working days.
    - ii. The contractor is responsible to deal with any missed collections. For example, taking garbage to the United Boulevard Recycling and Waste Centre or covering the cost associated for any missed collection to be rescheduled.

Questions: [wastereduction@coquitlam.ca](mailto:wastereduction@coquitlam.ca)

**1.05 Cooperation with Emergency and Maintenance Activities**

The Contractor will be responsible to cooperate with regular maintenance or emergency vehicles and staff for access to the site when required including:

- Fire, Police, and Ambulance
- Progressive Waste Solutions (garbage/recycling pick-up)
- City Utilities Maintenance (or representatives)

**1.06 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.



CONTRACT SPECIFIC NOTATIONS

Manhole lids, valve boxes and other appurtenances within the roadway that may present a traffic hazard during construction must be clearly marked for traffic.

Manhole lids left raised in preparation for paving must have a rubberized protector ring for traffic safety. Supply and use of this equipment is considered incidental to the contract.

**1.07 Lane Closure Restrictions**

Refer to: Appendix A: Traffic Management Detail Specifications.

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.

The Contractor must take the above information into account in the preparation and submission of the Tender.

Costs to complete the works taking the above restrictions into consideration shall be included in the prices bid in the Schedule of Quantities and Prices.

**1.08 Survey Layout**

Construction layout will be staked out by the Contractor as outlined in Supplementary General Conditions.

**1.09 Location of Existing Utilities**

The contractor is responsible to **pre-locate** and verify the size, depth and location of all utilities (watermains, storm mains, sanitary mains & etc.), including outside agency utilities (i.e. Telus, BC Hydro & etc.) and service connections (water, storm & sanitary services at the 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 by the Engineer prior to site construction. Contact Metro Vancouver for location of their utilities and BC One for location of other outside agency utilities. 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, storm or sanitary services connections are perpendicular to the mains or property lines, the contractor will not receive any compensation for the time to locate these connections or for exposing hidden services at the property lines.

**Payment for this work will be treated as incidental to payment for work described in other sections unless individual utilities are specified in the Schedule of Quantities.**

**1.10 Manholes & 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.

**1.12 Verification of Dimensions and Quantities**

Before proceeding with work the Contractor shall visit the site and check and verify dimensions and quantities. Report variations between drawings and site conditions to the Contract Administrator before proceeding with work. Payment for this work will be treated as incidental to payment for work described in other Sections.

**1.13 Work by Others**

The Contractor is required to accommodate the City crews, Contractors, Developers and Utility companies in their scheduling and sequencing of work.

CONTRACT SPECIFIC NOTATIONS

**2.00 CONSTRUCTION ACTIVITY**

**2.01 Construction Materials in  
Sewer Manholes and Pipe**

The Contractor is responsible to ensure that construction activities do not deposit construction materials (e.g. gravels) into the storm sewer or sanitary sewer manholes or pipe. The City may have a video record of the surrounding gravity pipes 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  
Construction and End of  
Construction**

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

The work will include street sweeping and 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. 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.

**2.03 Asphalt Milling  
Operations**

Asphalt milling activities shall be done in such manner so as to cause the least disruption and inconvenience to traffic and area residents.

The Contractor will be required to provide a plan and schedule for milling sections and the subsequent paving activities and have that approved by the Contract Administrator. This schedule is to be updated as required and take into consideration weather conditions and weather forecasts to ensure work subsequent to milling can be completed in appropriate weather.

**MILLING OF EXTENSIVE AREAS THAT CANNOT BE PAVED WITHIN 48 HOURS PERIOD (2 DAYS) WILL NOT BE PERMITTED.**

**3.00 MANDATORY MEETINGS  
AND CONTRACTOR  
REPRESENTATIVES AND  
SUBCONTRACTORS**

**3.01 Pre-Construction Meeting  
Requirements**

After the Award of the 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:

1. A Detailed Construction Schedule showing the start date & completion date and the 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, COVID19 Prevention Policy and portion showing latest revision date.
7. A draft traffic management plan.

**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.

**CONTRACT SPECIFIC NOTATIONS**

All work under this project is to be completed within the designated Contract Duration as contained in the signed Contract Agreement, or as formally 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") 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 and Contract Administrator are not responsible for the direction of Subcontractors.

**3.04 Mobilization and  
Demobilization**

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**

**1.0 GENERAL**

**1.3 Submission**

Delete 1.3.2 and  
replace with the  
following

Submit one copy of an accurate project record document in final form prior to applying for Substantial Performance including any video report. Record documents to include changes in the Issued for Construction Drawings, new elevation, offsets & location of all utilities, manhole rim, catchbasin rim, vaults, valve boxes, inverts walkways/sidewalks, and any unknown/new utilities found on site. Legal holdbacks will not be released until record documents have been submitted and accepted by the Contract Administrator.

**END OF SECTION**

QUALITY CONTROL

- 1.0 QUALITY**
- The Contractor shall provide a final product conforming to the Contract Documents and the intent of the work.
- The work is to be accurate to the dimensional and tolerance requirements of the contract.
- Payment will be subject to adjustments based on quality assurance tests performed by the Contract Administrator.
- 1.1 Quality Control (QC) by Contractor**
- 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.**
- 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.
- Under no circumstances will QC test results produced after completion of the Quality Assurance (QA) results be considered for appeal purposes
- 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.
- 1.2 Inspection of Work, Quality Assurance, and Material Testing, by the Owner**
- 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. This definition will be used for this contract**
- The *Contract Administrator* may provide construction review through spot inspections and spot materials testing for Quality Assurance.
- Any materials testing results indicating a non-conformance to the Contract Documents will require construction corrective action by the Contractor.**
- All subsequent testing to corrective action to verify conformance to the Contract Documents will be the full responsibility of the Contractor.**
- Inspection review by the Owner will not relieve the Contractor from providing a product that meets or exceeds the requirements of the Contract Documents.
- 1.3 Inspection**
- Materials testing shall be as described in MMCD General Conditions, Section 4.12 with the following change:
- Delete Section 4.12.2(a) and insert the following:
- Where the MMCD specification clauses for Inspection and Testing indicate the Contract Administrator will arrange for all testing for work described in this section will be amended to read The Contractor will arrange for and pay for all testing for work described in this section. The testing shall take place at the following prescribed rates and 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 Contractors cost.
- All testing covered under this item shall be performed by a CCIL 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.

**QUALITY CONTROL**

- |            |                                     |  |
|------------|-------------------------------------|--|
| <b>1.4</b> | <b>Survey Layout</b>                | The Contractor shall be responsible for all survey layouts.<br>The Contractor shall be responsible for the preservation of all layout stakes and marks.  |
| <b>1.5</b> | <b>Testing</b>                      | Contractor shall carry out inspection and testing (QC) to ensure compliance with Contract Documents. Contractor shall submit test results within one week of testing to the Contract Administrator.<br><br>The Contractor shall provide test results prior to the preparation of the payment certificate.  |
| <b>1.6</b> | <b>Contractors Responsibilities</b> | Furnish labour and facilities to: <ol 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> </ol>  |
| <b>1.7</b> | <b>Access to Work</b>               | Allow inspection and testing agencies access to Work.  |
| <b>1.8</b> | <b>Tests</b>                        | <p>Test rates and frequencies (excluding failed tests), when not defined in the MMCD or Detail Specifications Sections shall be at the following frequencies:</p> <ol style="list-style-type: none"> <li>1. Trench Backfilling and Compaction               <ol style="list-style-type: none"> <li>1.1 Compaction: 1 test / 10 lm / 300mm lift</li> <li>1.2 Sieve: 1 test / placed material / 50 m<sup>3</sup></li> </ol> </li> <li>2. Granular Base               <ol style="list-style-type: none"> <li>2.1 Compaction: 1 test/500m<sup>2</sup> / 100mm depth of granular base, min. 1 test if &lt; 500m<sup>2</sup></li> <li>2.2 Sieve: 1 test / placed material / 250 TONNES</li> </ol> </li> <li>3. Granular Subbase               <ol style="list-style-type: none"> <li>3.1 Compaction: 1 test/500m<sup>2</sup>/150mm depth of granular subbase, min. 1 test if &lt;500m<sup>2</sup></li> <li>3.2 Sieve: 1 test / placed material / 250 TONNES</li> </ol> </li> <li>4. Embankment (Subgrade)               <ol style="list-style-type: none"> <li>4.1 Compaction: 1 test/ 50m<sup>2</sup> / 0.15m depth of fill, min. 1 test if &lt; 50m<sup>2</sup></li> <li>4.2 Sieve: 1 test / placed material / 100 TONNES</li> </ol> </li> <li>5. Asphalt               <ol style="list-style-type: none"> <li>5.1 Marshall test: 1 test per 250 TONNES placed, per mix specified, min. 1 / day<br/>ASTM D1559, D3203, C117, C136</li> <li>5.2 Superpave: 1 test per 250 TONNES placed, per mix specified, min. 1 / day<br/>CAI-SP2, ASTM D3203, C117, C136</li> <li>5.3 Cores: 1 per 500 m<sup>2</sup>/lift</li> <li>5.4 Continuous asphalt density testing during paving.</li> </ol> </li> <li>6. Subgrade Preparation               <ol style="list-style-type: none"> <li>6.1 Compaction &amp; Moisture: 1 test / 500 m<sup>2</sup>, min. 1 test if &lt; 500m<sup>2</sup></li> </ol> </li> <li>7. Concrete Tests               <ol style="list-style-type: none"> <li>7.1 Air, Slump &amp; 1 Set Cylinders: 1 test / 10 m<sup>3</sup>, min. 1 set / day</li> </ol> </li> </ol> |
| <b>1.9</b> | <b>Measurement for Payment</b>      | Payment for all work performed under this section will be incidental to payment for work described in other Sections.  |

**END OF SECTION**

|     |                 |   |   |
|-----|-----------------|---|---|
| 1.0 | GENERAL         | Add 1.0.6                                   | <p>The <i>Contractor</i> is responsible for all temporary traffic control on the streets required for completion of the work. The <i>Contractor</i> will be responsible to provide a Traffic Management Plan (TMP) for approval (5) five working days prior to any lane closures taking place. TMP is to be prepared by a qualified professional to the satisfaction of the Contract Administrator.</p> <p>The TMP shall outline the approach to traffic management, show recognition and minimization of risks indicates signing locations, identify Traffic Control Persons (TCP) stations, show lane shifting and proposed closures.</p> <p>The Contractor is responsible to ensure and maintain all business/residential vehicles, cyclists and pedestrian accesses open at all times unless no other alternative is available in the opinion of the Contract Administrator. The contractor may provide temporary accesses if the affected owner agrees. All costs associated with temporary accesses will be at the contractor's expense.</p>  |
|     |                 | Add 1.0.7                                   | <p>A Road and Sidewalk Closure Permit is required from Coquitlam for all work affecting pedestrian and traffic flow related to construction. A permit is required for each specific construction interference with pedestrian and traffic flow. The road and sidewalk closure permit form can be obtained for use from the City's website at <a href="http://www.coquitlam.ca">http://www.coquitlam.ca</a>. The Contractor must follow the approved TMP. Any changes to this TMP must be submitted to City's Traffic Operations for approval.</p>   |
|     |                 | Add 1.08                                    | <p>Refer to Appendix A – Traffic Management Detail Specifications</p>   |
| 1.4 | Traffic Control | Delete 1.4.1 and replace with the following | <p>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.</p> <p>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.</p> <p>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.</p> |
|     |                 | Add 1.4.9.3.1                               | <p>The <i>Contractor</i>, as required by the <i>Contract Administrator</i> and the City, is to supply Construction Zone information signs (stationary), refer to MMCD 01 58 01 for the required identification signage.</p> <p>The <i>Contractor</i> is responsible for the removal of the signs at the completion of the work.</p>   |
|     |                 |   |   |

Delete 1.4.10.1.3 and  
replace with the  
following

When work people or equipment are employed over travelled way  
over brow of hills, around sharp curves or at other locations where  
oncoming traffic would not otherwise have adequate warning.

**END OF SECTION**



1.0 GENERAL

1.0.3 Erosion and  
Sediment Control  
Supervisor

Add 1.03

The Erosion and Sediment Control (ESC) Supervisor is the Qualified Professional who is experienced in implementing ESC Plans and who is responsible for the inspection and monitoring of ESC Facilities to ensure these are installed and maintained in accordance with the ESC Plan, and if necessary, are modified during construction to ensure compliance with the Stream and Drainage System Protection Bylaw No. 4403, 2013.

1.2 Temporary Erosion  
and Sediment  
Controls

Delete 1.2.1 and  
replace with the  
following

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. 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 catch basins, manhole sumps, detention tanks, and maintain siltation controls as often as the *Contract Administrator* and the City deems necessary.

Delete 1.2.2.2 and  
replace with the  
following

Do not operate construction equipment in watercourses.

Add 1.2.2.9

All work must be carried out during favorable and low water conditions.

Add 1.2.2.10

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

Add 1.2.2.11

All work within a watercourse must be undertaken and completed in isolation of all flowing water to maintain downstream water quality and unrestricted flows.

1.4 Environmental  
Protection

Add 1.4.3.5

Immediately contain and clean up any leaks and spills of prohibited materials at the *Place of Work*.

Add 1.4.3.6

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.

Add 1.4.3.7

Immediately notify the *Contract Administrator* and the City of any leaks or spills of prohibited materials that occur at the *Place of Work*.

Add 1.4.3.8

Ensure that any fuel stored on-site is located at least 15 meters from the nearest stream, and is placed within a bermed and lined area, in order to prevent leaks or spills into the environment.

|            |  |   |   |
|------------|--|---|---|
|            |  | Add 1.4.3.9                                 | All equipment and machinery must be in good working condition (power washed prior to mobilization), free of leaks or excess oil and grease. No equipment refueling or servicing shall be undertaken within a minimum of 15 meters of any water course or surface water drainage.  |
|            |  | Add 1.4.3.10                                | 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 dust control, or other means as necessary to accomplish results satisfactory to the Contract Administrator.   |
| <b>1.6</b> | <b>Measurement and Payment</b>               | Delete 1.6.1 and replace with the following | Payment for all work performed under this section will be incidental, unless shown otherwise in the Schedule of Quantities and Prices.  |
|            |  | Add 1.6.2                                   | Payment for the poly cover or temporary tarps over stock pile materials or exposed road subgrades shall be treated as incidental work.  |
| <b>1.8</b> | <b>Clean Up</b>                              | Add 1.8.2                                   | 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. |
| <b>1.9</b> | <b>Archaeological / Historical Resources</b> | Add 1.9                                     | Immediately cease work and inform the <i>Contract Administrator</i> and the City, 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**

**1.3 Measurement and  
Payment**

Delete 1.3.1 and  
replace with the  
following

Payment for the installation of 1.2m x 1.2m static construction  
Information signs and as described in Appendix A – Traffic  
Management Detail Specifications includes supply, placement &  
removal and will be incidental, unless shown otherwise in the  
Schedule of Quantities and Prices.

Add 1.3.2

Payment for changeable message signs (CMS) and as described in  
Appendix A – Traffic Management Detail Specifications including  
supply, placement, communication management & removal as  
required for traffic & pedestrian safety will be incidental, unless  
shown otherwise in the Schedule of Quantities and Prices.

When shown in the Schedule of Quantities and Prices, payment for  
CMS used for only a fraction of a month will be paid prorata.

**END OF SECTION**

|     |                         |   |   |
|-----|-------------------------|---|---|
| 1.4 | Measurement and Payment | Delete 1.4.3 and replace with the following   | Payment for machine placed or hand formed C5 wide base concrete curb, includes removal and offsite disposal of existing curb & gutter, granular subbase & base, includes supply and placing of the concrete curb and gutter, tie-ins, transitions, subgrade preparation, compaction, saw cutting, and will cover all straight and curve sections and will be made separately for each specified type.   |
|     |                         | Delete 1.4.5 and replace with the following   | Payment for concrete sidewalks, letdowns, driveways, monolithic curb and sidewalk, walkways, stamp concrete, paver stone, infills, concrete exposed aggregate and all concrete ramps includes removal and disposal of existing concrete, supply and installation, saw cutting, granular base, regrading of driveways for proper tie-in, field fit and adjustments, subgrade preparation under the concrete sidewalks, in-fills, driveways and walkways and will be made separately for each specified thickness and type of finish. |
|     |                         | Add 1.4.10                                    | Payment for Detectable/Tactile Warning Surface Tile includes supply and placing of Access Tile Model # ACC-R-2x4 (or approved equal) Truncated Dome Detectable Warning Tactile Surface 2'x4' replaceable cast in place - Yellow Color and installation as per the Manufacture's Specifications.   |
| 2.1 | Materials               | Delete 2.1.5.1 and replace with the following | Hand-formed and hand-placed concrete:<br><br>Slump: 80 mm<br>Air entrainment: 5 to 8%.<br>Maximum aggregate size: 20 mm.<br>Minimum cement content: 335 kg/m <sup>3</sup> .<br>Minimum 28 day compressive strength: 32 MPa.   |
|     |                         | Add 2.1.7                                     | Tactile warning surface tile shall be replaceable cast-in-place style. Truncated domes shall be in square grid pattern with a 5 mm nominal raised height, base diameter of 23 mm and top diameter of 11.5 mm. Dome spacing range shall be between 40 mm – 60 mm.<br><br>Color of the panel shall be Federal Yellow (Y) per US Federal Standard 595B Table IV, Color No. 335. Minimum size of the panel shall be 600 mm by 1200 mm.  |
| 3.0 | EXECUTION               |   |   |
| 3.5 | Concrete Placement      | Delete 3.5.9 and replace with the following   | The <i>Contractor</i> is responsible for adjusting all utility manhole frames and valve boxes, 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. Riser rings will not be accepted.   |
|     |                         |   | The <i>Contractor</i> should note that certain utility owners may decide to complete their own adjustments. The <i>Contractor</i> will be required to cooperate with any utility company providing their own adjustments.   |
|     |                         |   | The <i>Contractor</i> shall be responsible to contact the appropriate utility company within a minimum of seventy-two (72) hours of the work. No adjustment shall be made without the written approval of the utility company. <u>All manholes must be vertically adjusted a minimum of twenty-four (24) hours prior to concrete placement.</u>   |

**3.9      Expansion Joints**

Delete 3.9.1 and  
replace with the  
following

Form transverse expansion joints at both ends of curb returns and at maximum spacing of 9.0 m for sidewalks, 30.0 m of curb and gutter, at each end of driveway crossing, at tangent point of circular work, and on either side of catch basins.

**END OF SECTION**

**2.0 PRODUCTS**

**2.3 Pit Run Gravel**

Add to 2.3.2

The use of recycled concrete shall be approved by the *Contract Administrator* and the City prior to use.

Add 2.3.3

Asphalt millings free from contaminated and other extraneous material, conforming to the specified gradations may be used as pit run gravel. The use of asphalt millings shall be approved by the *Contract Administrator* and the City prior to use.

**2.7 Granular Pipe Bedding and Surround Material**

Add to 2.7.1

All recycled or other extraneous materials shall be approved by *Contract Administrator* and the City prior to use.

**2.10 Granular Base**

Delete 2.10.2

Add 2.10.3

All 25 mm minus granular base is to conform to the following gradation specifications and as described in Clause 2.10.4:

| Sieve Designation (mm) | Percent Passing (%) |
|------------------------|---------------------|
| 25                     | 100                 |
| 19                     | 80-100              |
| 12.5                   | 75-90               |
| 9.5                    | 50-85               |
| 4.75                   | 35-70               |
| 2.36                   | 25-50               |
| 1.18                   | 15-35               |
| 0.30                   | 5-20                |
| 0.075                  | 0-5                 |

Add 2.10.4

The intention of the Gradation Chart is to identify the desired mix of size of aggregate in the granular base. The Target Percentage Passing is the middle of the shown Range.

Tests that show sieve values of Percent Passing that are consistently low or consistently high in two (2) or more consecutive tests will be considered to be non-conforming.

**2.11 Recycled Aggregate Material**

Delete 2.11.1 and replace with the following

Aggregates containing recycled material may be utilized if approved by the *Contract Administrator* and the City. In addition to meeting all other conditions of the specifications, recycled material should not reduce the quality of the construction achievable with quarried materials. Recycled material shall consist only of aggregates, crushed portland cement concrete, or asphalt that is free of impurities.

**END OF SECTION**

**1.4      Measurement and  
            Payment**

Delete 1.4 in its  
entirety and  
replace with the  
following

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

**END OF SECTION**

**1.4 Measurement and  
Payment**

Delete 1.4 in its  
entirety and  
replace with the  
following

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

**END OF SECTION**



**1.0 GENERAL**

**1.8 Limitations of Open Trench**

1.8.1  
Replace last sentence  
with the following

If circumstances do not permit complete backfilling of all trenches, and where permitted by the *Contract Administrator* and the City, adequately protect all open trenches or excavations with approved fencing or barricades and, where required, with flashing lights. Road plates are only to be used when permitted by the Contract Administrator and never when there is a possibility of snow unless the road plates are fenced off or otherwise located in an area that cannot be snow ploughed.

**1.10 Measurement and Payment**

Delete 1.10.3 and  
replace with:

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 1.10.9 as follows:

Payment for imported trench backfill, 75mm minus pit run gravel (in accordance to Clause 2.3 Pit Run Gravel in Section 31 05 17 – Aggregates and Granular Materials), includes supply, transport, placement, adjustment of moisture content and compaction to 95% modified proctor density. Payment includes the offsite disposal of the unsuitable native material.

Payment for imported 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.

**2.0 PRODUCTS**

**2.2 Use of Specified Materials**

Delete 2.2.1.2

Delete Pit Run Sand

Delete 2.2.3.3

Delete Pit Run Sand

**3.0 EXECUTION**

**3.3 Excavation**

Delete 3.3.1.2 and  
replace with the  
following

Connections to existing waterworks systems are to be made by the *Contractor* under the inspection / supervision of the *Contract Administrator* and the City.

**3.6 Surface Restoration**

Delete 3.6.2.4 and  
replace with the  
following

Restore lawns with approved topsoil and sod to match existing lawn.

Delete 3.6.3.1 and  
replace with the  
following

Restore surface with a minimum 100 mm of 19 mm granular road base material.

Delete 3.6.7.5 and  
replace with the  
following

Restore Pavement as detailed on Coquitlam Standard Detail Drawing COQ-G4. Temporary patch shall be a minimum thickness of 50 mm thickness. Permanent restoration to existing asphalt thickness (minimum of 75 mm) with a 35 mm key where existing thickness permits. A 50 mm key is required on Arterial and Collector Roadways. Dry if necessary and paint clean, dry edge with asphalt emulsion (tack coat).

**END OF SECTION**

- |            |                                |   |  |
|------------|--------------------------------|---|--|
| <b>1.4</b> | <b>Measurement and Payment</b> | Delete 1.4.and replace with the following | Payment for all work performed under this Section will be incidental unless shown otherwise in the Schedule of Quantities and Prices.                  |
| <br>       |                                |   |  |
| <b>2.0</b> | <b>PRODUCTS</b>                |   |  |
| <br>       |                                |   |  |
| <b>2.1</b> | <b>Specified Materials</b>     | Delete                                    | 2.1.1.1: Select Granular Subbase<br>2.1.1.2: 75 mm Pit Run Gravel<br>2.1.1.4: Pit Run Sand<br>2.1.1.5: Approved Native Material<br>2.1.1.7: River Sand |

**END OF SECTION**

**GRANULAR BASE**

|            |                                |   |   |
|------------|--------------------------------|---|---|
| <b>1.4</b> | <b>Measurement and Payment</b> | Delete 1.4.and replace with the following   | Payment for all work performed under this Section will be incidental unless shown otherwise in the Schedule of Quantities and Prices. |
| <b>2.0</b> | <b>PRODUCTS</b>                |   |   |
| <b>2.1</b> | <b>Granular Base</b>           | Add 2.1.1.3                                 | 25 mm minus crushed gravel conforming to the gradation specifications under Section 31 05 17S – 2.10.3.                               |
| <b>3.0</b> | <b>EXECUTION</b>               |   |   |
| <b>3.5</b> | <b>Proof Rolling</b>           | Delete 3.5.1 and replace with the following | For proof rolling, use fully loaded single axle, to 80 KN (18, 000 lb) minimum, dump truck.   |

**END OF SECTION**

ASPHALT TACK COAT

- |     |                                |   |   |
|-----|--------------------------------|---|---|
| 1.5 | <b>Measurement and Payment</b> | Delete 1.5.1 and replace with the following | 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.   |
|     |                                | Delete 1.5.2 and replace with the following | Pavement surface cleaning, as per section 32 01 11, and all other work incidental to the application of tack coat is deemed to be incidental to payment for work described in other Sections unless shown otherwise in the Schedule of Quantities and Prices.   |
| 3.0 | <b>EXECUTION</b>               |   |   |
| 3.2 | <b>Application</b>             | Add to 3.2.3                                | Asphalt tack coat to be applied using a truck mounted spray bar unless otherwise approved by the <i>Contract Administrator</i> and the City. Contractor shall demonstrate, to the <i>Contract Administrator</i> and the City, prior to application that all spray nozzles are operational and providing a consistent application. |

**END OF SECTION**

**1.0 GENERAL**

**1.4 Submission of Mix Design**

Delete 1.4.1 and replace with the following

Submit asphalt concrete mix design, including RAP content and trial mix test results to Contract Administrator for review at least two weeks prior to commencing work.

**1.5 Measurement and Payment**

Delete 1.5.1 and replace with the following

Payment for asphaltic concrete paving includes all construction joint preparation, asphaltic key and surface milling to tie into existing asphalt, saw cutting, tack coat, supply and placing of the asphaltic concrete, compaction and cleaning frames, covers and lids of castings affected, grading, road reshaping and taped temporary pavement markings and is to be considered to be incidental to payment for work described in other sections.

The contractor will not receive any additional compensation above the respective unit prices bid in the Schedule of Quantities and Prices for Hand Work, Special Equipment & Machinery to complete the Hot Mix Asphaltic Paving Work as shown on the Contract Drawings or as directed by the Contract Administrator.

Delete 1.5.3 and replace with the following

Payment for asphaltic concrete sidewalks, pathways, driveways, and infill strip paving includes all construction joint preparation, saw cutting, supply and placing of the asphaltic concrete, compaction and cleaning frames, covers and lids of castings affected and is considered incidental to other work items.

Payment for this item includes all applicable materials and work described in 1.5.1. Work includes all necessary adjustments on site during construction to achieve proper tie-in to existing driveways as directed by Contract Administrator. Adjustments performed under this section shall be incidental to payment for work described in other Sections.

Add 1.5.9

The Contractor or the Owner may request adjustment of the unit prices submitted for Asphalt Pavement if the Composite Rack Posting (CRP) varies by more than 5.0% from Tender Closing Date to the time the asphalt paving is actually performed.

The CRP is a composite of the available Rack Postings for PG 64-22 FOB Langley BC.

Requests for asphalt pavement unit price adjustment must be made prior to commencing asphalt paving. Payment for asphalt paving performed prior to a request for price adjustment will be made at the unit price submitted.

Unit prices will be increased or decreased as applicable using the following formula:

$$\text{Adjustment} = (\text{CRP work} - \text{CRP tender}) \times \text{AC volume}$$

Adjustment amount in dollars per tonne the unit price is modified  
CRP work is the CRP at the time paving is performed  
CRP tender is the CRP at the Tender Closing Date  
AC volume is the mixture design percent asphalt content, by volume.

**1.6 Inspection and Testing**

Add 1.6.3

Test cores may be taken by the *Contract Administrator* in the areas of new paving and will include cores along construction joints to ensure compliance with the required design and compaction.

**2.0 PRODUCTS**

**2.1 Materials**

Add 2.1.2.1

Usage of recycled asphalt shingles will not be permitted.

Add 2.1.2.2

Usage of softening agents, rejuvenators, or recycling agents will not be permitted.

**2.2 Mix Design**

Delete 2.2.2 and replace with the following

Mix may contain up to a maximum of 15 % by mass of RAP for Upper Course Asphalt and 20 % by mass of RAP for Lower Course Asphalt without a special mix design. The *Contract Administrator* and the City may approve higher proportion of RAP if *Contractor* demonstrates ability to produce mix meeting requirements of the specification.

Delete 2.2.3.2 Marshall Stability and replace with the following

Marshall Stability at 60°C for both lower and upper courses to be 10 KN min.

**3.0 EXECUTION**

**3.3 Preparation**

Delete 3.3.3 and replace with the following

The *Contractor* is responsible for adjusting all utility manhole frames and valve boxes, 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 within the paved surface will be considered incidental to the *Work* unless otherwise noted in the *Contract Documents*.

The *Contractor* should note that certain utility owners may decide to complete their own adjustments. The *Contractor* will be required to cooperate with any utility company providing their own adjustments.

The *Contractor* shall be responsible to contact the appropriate utility company with in minimum of seventy-two (72) hours of the work. No adjustment shall be made without the written approval of the utility company.

All manholes must be vertically adjusted a minimum of twenty-four (24) hours prior to paving. The use of riser rings for adjusting manhole frames and value boxes will not be permitted.

**3.7 Joints**

Delete 3.7.5 and replace with the following

Construct butt joints at locations as shown on the *Contract Drawing* and as directed in the field by the *Contract Administrator* and the City.

**END OF SECTION**

SEEDING

**1.0 GENERAL** Delete 1.0.2 and replace with the following

This section is based on the "British Columbia Landscape Standards and the B.C. Nursery Trades Association. This standard is intended to set a level of quality which is equalled or bettered in the construction documents.

**1.8 Measurement and Payment** Delete 1.8.1 and replace with the following

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. Payment for seed includes supply and placing of seed as directed by the Contract Administrator and grass maintenance to meet Conditions of Total Performance. Payment includes protection from damage caused by any living creature.

**2.0 PRODUCTS**

**2.1 Grass Seed** Delete 2.1.5 and replace with the following

Mixture and quantity of grass seed to be per table below or a mix approved by the Contract Administrator. Contractor must calculate weight of seed required and show quantity of grass seed to Inspector prior to application.

| Seed Mixture                              |     |
|---|-----|
| (Elka II) Perennial Ryegrass              | 40% |
| (Shamrock) Kentucky Bluegrass             | 30% |
| (Cindy) Chewing Red Fescue                | 30% |
| <b>Seed Rate:</b><br>75g per square metre |     |

**2.2 Water** Delete 2.2.1 and replace with the following

Potable, free of impurities that would inhibit seed germination. *Contractor* to ensure adequate water is available to maintain seeded areas during germination and in a vigorously growing, healthy state until *Total Performance* of work of this section.

**3.0 EXECUTION**

**3.1 Finish Grade Preparation** Delete 3.1.2 and replace with the following

Prior to the placement of seed *Contract Administrator* and the City to review and direct minor adjustments and refinements of finish grades prior to the *Contractor* proceeding. Review includes grades, growing medium depth and condition of finished surface. Subsequent to the *Contract Administrator* and the City review the *Contractor* shall re-grade, add growing medium and make adjustments as directed by *Contract Administrator* and the City.

**3.2 Seeding - General** Add 3.2.4

Amount of seed calculated in 2.1.5 must presented to the Inspector prior to placement.

**3.6 Grass Maintenance** Delete 3.6.2.6 and replace with the following

.6 Protect all seeded areas against trespassing and from damage at all times. Clearly mark, stake, string and use flagging tape to delineate seeded area.

**END OF SECTION**

**1.0 GENERAL**

- |  |   |   |
|--|---|---|
| <b>1.2 References</b>                  | Delete 1.2.2.1 and replace with the following | National Association of Sewer Service Companies' (NASSCO's) Pipeline Assessment and Certification Program, version 6.x including addendums, or latest version.                    |
| <b>1.3 Submission of Certification</b> | Delete 1.3.1 and replace with the following   | Submit copy of the CCTV operator's current NAASCO certification certificate to the Contract Administrator at least one week prior to the start of the CCTV inspection operations. |
| <b>1.6 Measurement of Payment</b>      | Delete 1.6 and replace with the following     | Payment for all work performed under this Section will be incidental to work described in other sections unless shown otherwise in the Schedule of Quantities and Prices.         |

**2.0 PRODUCTS**

- |                      |  |  |
|----------------------|--|--|
| <b>2.1 Equipment</b> | Delete 2.1.4 and replace with the following<br><br>Add 2.1.5 | The individual digital video playback files to be of MPEG file format.<br><br>The digital data file delivered to the City to be in PACP standard database file format version 6.x or latest. |
|----------------------|--|--|

**3.0 EXECUTION**

- |                            |  |   |
|----------------------------|--|---|
| <b>3.1 CCTV Inspection</b> | Add 1.5.3                                    | CCTV surveys on new gravity sewers are to be scheduled and performed prior to upstream tie-ins so that the invert of the new pipe may be observed.  |
|                            | Delete 3.1.1 and replace with the following  | CCTV operator to be certified by NASSCO (PACP/MACP/LACP).   |
|                            | Delete 3.1.2 and replace with the following  | NASSCO certified software must be used to produce inspection report and the data will be submitted in the PACP standardized database format. The review of this statement will be part of the evaluation of the tender. Submission to satisfy all of the specifications and report submissions per NASSCO's PACP (MACP/LACP) will be used as a benchmark for subsequent inspection report submission.   |
|                            | Delete 3.1.4 and replace with the following  | Flow in the pipeline not to exceed approximately ¼ of the pipe diameter. Notify Contract Administrator of excessive flows, video using flow reduction method per 3.11 of this Section.  |
|                            | Delete 3.1.11 and replace with the following | Note condition of pipe joints at manhole walls at the beginning and end of each pipeline; At the beginning of each pipeline or where surface wear of the pipe changes, pan to the invert and any direction as needed to report and record surface wear condition of the pipe using PACP (MACP/LACP) codes; Fill under remarks the observations if no surface wear observed due to good condition of pipe or unable to determine stating reason. |
|                            | Delete 3.1.14 and replace with the following | Stop camera at each defect, change of condition of pipe and service connection to record defect in accordance with PACP (MACP/LACP) codes.  |
|                            | Delete 3.1.15 and replace with the following | Add PACP (MAC/LACP) code overlay to digital video at defects or connections in addition to continuously displayed data.   |



|             |  |   |  |
|-------------|--|---|--|
|             |  | Add 3.1.19  | The inspection measurement and reporting units must be in metric system.   |
| <b>3.3</b>  | <b>Site Coding Sheets</b>                                    | Delete 3.3.1 and replace with the following<br>Delete 3.3.2 and replace with the following<br>Delete 3.3.2.1<br>Delete 3.3.2.2<br>Delete 3.3.2.3 and replace with the following<br>Delete 3.7.1 and replace with the following<br>Delete 3.7.2.5 and replace with the following | Each pipeline length to be recorded according to the PACP. Any variation from the manual to be noted in the survey report.<br><br>Use standard coding form and standards of PACP:<br><br>Note observations as to condition of service connections beyond mainline in remarks column using standards codes as per PACP.<br><br>Photograph all major defects as defined by condition codes in PACP: B, CC, CL, CM, TFD, TBD, TSD, TRD, D, FC, FL, FM, H, IR, IG, JO, OB, JS, RM, RB, RT, and X.<br><br>PACP/MACP/LACP Condition Defect Code. |
| <b>3.7</b>  | <b>Photographs and /or Digital Images</b>                    |   |  |
| <b>3.8</b>  | <b>Inspection Reporting Hard Copies &amp; Digital Format</b> | Delete 3.8.2 and replace with the following<br><br>Delete 3.8.2.2 and replace with the following  | Present machine printed (hardcopy) and computer generated data base reports according to the PACP format.<br><br>Hardcopy reports to be presented in PACP standard format.   |
| <b>3.10</b> | <b>Root cutting &amp; Removal</b>                            | Delete 3.10.1 and replace with the following  | Remove roots for condition codes RT, RM, and RB.   |
| <b>3.12</b> | <b>Coding Accuracy</b>                                       | Delete 3.12.1.2 and replace with the following<br><br>Delete 3.12.4 and replace with the following  | Detail accuracy 90%.<br><br>An operator failing to meet the accuracy requirements on two occasions will not be permitted to code on the remainder of the project until they have successfully re-attended an Operator's Certification course, re-write and pass the NASSCO Pipeline Assessment Certification Program.  |

**END OF SECTION**

SANITARY SEWERS

1.0 GENERAL

|     |                         |                               |   |
|-----|-------------------------|-------------------------------|---|
| 1.6 | Measurement and Payment | Delete 1.6.1 and replace      | 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.  |
|     |                         | Delete 1.6.2 and replace with | <p>Payment for sanitary sewers includes asphalt &amp; concrete saw cutting, disposal of pavement and concrete, trench excavation, disposal of surplus excavated material, removal and disposal of existing pipes (unless specific removals are specified in the SOQ), dewatering, removal and disposal of boulders not greater than 1 cubic meter, permanent plugs &amp; caps, supply and installation of all pipe, fittings and related materials, tie-ins other than noted in Clause 1.6.7, bedding material, approved backfill material compacted in place, granular base, granular Subbase, cleaning and flushing, pressure testing, video inspection, all surface restoration under Section 31 23 01 – Sub-section 3.6 including top soil, sod, seed (where approved by inspector), asphalt, asphalt curb, and all other work and materials necessary to complete installation as shown on Contract Drawings and specified under this Section. Payment does not include items that are part of the work and already paid in other Sections; and</p> <p>Payment includes protecting the existing pavement outside of the utility trench. Repair and replacement of damaged asphalt outside of the utility trench will be at the Contractor's cost as determined by the Contract Administrator unless otherwise specified; and</p> <p>Native excavated material shall only be used at the sole discretion and prior approval of the Contract Administrator and shall have all cobbles greater than 150 mm diameter removed and disposed off-site and must 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 and paid under 31 23 01s Subsection 1.10.9; and</p> <p>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.; and</p> <p>Payment includes removal and disposal of roots, vegetation, and organic matter from trench.</p> <p>Payment includes hand-digging plantings for preservation (by temporary potting) and re-planting at station 1+190 (tie-in location).</p> <p>Obtain the Contract Administrator's approval before trees are removed. Materials removed from within the boulevard are the property of the private property owner. Materials removed within private property remain the property of the private property owner; and</p> <p>Payment includes support of poles if necessary and manhole barrel preparation to accommodate the service connection.</p> |

|                                      |   |
|--------------------------------------|---|
|                                      | <p>Measurement for sanitary main will be made horizontally along the ground from the start of new pipe to the terminus of the new pvc pipe (excludes manhole width).</p>  |
| <p>Delete 1.6.3 and replace with</p> | <p>Payment for new service connections includes the specified diameter of SDR28 PVC pipe, shear band couplers, bends, increaser, pvc wye, stubs, caps, sanded stubs, stakes, manhole preparation for connection, Le-Ron inspection chamber c/w locking collar and red 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.</p> <p>Measurement for service connection will be for each complete service installed, including the inspection chamber, length of service pipe installed and length of riser.</p> <p>Brooks Boxes with a steel lid are to be provided for inspection chambers located in driveways as necessary.</p> <p>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 31 23 01 – Sub-section 1.10.9.</p>  |
| <p>Add 1.6.3.1</p>                   | <p>Payment for existing sanitary service connection transfer to new sanitary main includes specified diameter of SDR28 PVC pipe, shear band couplers, bends, pvc wye, 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.</p> <p>Measurement and payment for sanitary connection transfer will be for each complete service transferred.</p>  |
| <p>Add to 1.6.4</p>                  | <p>The lump sum payment is to supply and install Le-Ron molded sanitary inspection chambers c/w locking collar &amp; 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.</p> <p>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 31 23 01 – Sub-section 1.10.9.</p> <p>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.</p> <p>NOTE: Depth specified on the utility connection record without an IC is typically measured from the top of the clean out wye.</p> <p>Payment includes work as described in 1.6.4.1</p> |

**SANITARY SEWERS**

|             |  |                                |  |
|-------------|--|--------------------------------|--|
|             |  |                                | Unit Price should assume service material is not Asbestos Cement. See 1.6.4.3.   |
|             |  | Add to Clause 1.6.7            | Payment includes all applicable works, labor, couplers, material and equipment as described in Clause 1.6.2.   |
| <b>2.0</b>  | <b>PRODUCTS</b>                                    |                                |  |
| <b>2.5</b>  | <b>Granular Pipe Bedding and Surround Material</b> | Add 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.  |
| <b>3.0</b>  | <b>EXECUTION</b>                                   |                                |  |
| <b>3.8</b>  | <b>Connections to Existing Mainline Pipes</b>      | Delete 3.8.1 and replace with  | 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.   |
| <b>3.18</b> | <b>Video Inspection</b>                            | Delete 3.18.1 and replace with | The contractor shall video inspect completed sanitary sewers under 900 mm in diameter and all service connections following completion of the installation. The video inspection report shall be in a form specified by the Contract Administrator and the City. Copies of the video and written report shall be forwarded to the Contract Administrator and the City. Refer to Section 33 01 30.1 and 33 01 30.1S CCTV Inspection of Pipelines. |

**END OF SECTION**

**MANHOLES AND CATCHBASINS**

**1.0 GENERAL**

|            |                                |   |  |                  |
|------------|--------------------------------|---|--|------------------|
| <b>1.1</b> | <b>Related Work</b>            | Add 1.1.6                                     | Hot Mix Asphalt Concrete Pavement  | Section 32 12 16 |
|            |                                | Add 1.1.7                                     | Portland Cement Concrete Paving  | Section 32 13 13 |
| <b>1.5</b> | <b>Measurement and Payment</b> | Delete 1.5.1 and replace with the following   | Payment for manholes will be made by items or components installed for each type and size as shown on Contract Drawings and specified in the Schedule of Quantities and Prices. No payment will be made for excavation and all other associated work required to accommodate manhole in the new sewer system constructed under this Contract for which manhole forms a part; and   |                  |
|            |                                | Delete 1.5.1.1 and replace with the following | Payment for manhole includes supply and installation of pre bench gasketed base, lid, slab, donut ring, concrete frame, metal frame, cover and all as shown on Contract Drawing and as described on Standard Detail Drawing S1 and S2 for manholes except for riser. Payment includes base preparation, dewatering, all in-situ concrete work, manhole base preparation to accommodate new sewer installation c/w rubber resilient seat gasket, , approved native backfill, granular subbase and base, compaction, all labor, material, equipment and necessary work for installing the manhole.   |                  |
|            |                                | Delete 1.5.1.2 and replace with the following | <p>Payment for manhole riser will be made by items or components installed for each type and size necessary and specified in the Schedule of Quantities and Prices. No payment will be made for excavation and all other associated work required to accommodate manhole in the new sewer system constructed under this Contract for which manhole forms a part; and</p> <p>Payment for manhole riser sections includes supply and installation of standard and non standard heights required to complete manhole from specified invert to finishing level, and all necessary work as shown on Contract Drawing and as described on Standard Detail Drawing S1 and S2 for manholes. Payment includes aluminium or non slip ladder rung, all in-situ concrete work, , approved native backfill, compaction, all labor, material, equipment and necessary work for installing the manhole; and</p> <p>Measurement will be made vertically for the length of the riser required from the top of the manhole base or tee section to reach the underside of concrete lid or slab.</p> |                  |
|            |                                | Add to Clause 1.5.1.5                         | Payment for outside drop manhole includes excavation, import backfill, compaction, tie-in to existing sanitary main, shear band couplers, stubs, fittings, dewatering, all in-situ concrete work and all necessary work as shown on Contract Drawing and as specified in the Schedule of Quantities and Prices.  |                  |
|            |                                | Delete 1.5.2 and replace with the following   | Catchbasin Installation will be defined as supplying and installing a new catch basin for each type specified and setting to the finished grade. Payment includes excavation, removal and disposal of existing catch basins and existing leads, and surplus excavated material, supply of all units, cast-in-place concrete, clear crushed and bedding, pipes, fittings and related materials together with all labour, materials and equipment required, all surface restoration including asphalt paving and associated curbing and top soil, sod  |                  |

|            |                                |  |  |
|------------|--------------------------------|--|--|
|            |                                | Delete 1.5.4 and replace with the following    | Payment for removal and/or abandon of existing catch basins, lawn basins, and manholes includes excavation, disposal off site of all components, disposal of all unsuitable material, import backfill, plugs, caps, stubs, compaction and all necessary work as shown on Contract Drawing and as specified in the Schedule of Quantities and Prices. |
| <b>2.0</b> | <b>PRODUCTS</b>                |  |  |
| <b>2.1</b> | <b>Materials</b>               | Add 2.1.7.3                                    | Any frame and cover assembly creating a point load on the concrete riser rings will not be permitted.  |
|            |                                | Delete 2.1.12 and replace with the following   | Catchbasin lids manufactured to ASTM C478M.  |
|            |                                | Delete 2.1.16.2                                |  |
|            |                                | Delete 2.1.17                                  |  |
| <b>3.0</b> | <b>EXECUTION</b>               |  |  |
| <b>3.1</b> | <b>Excavation and Backfill</b> | Add 3.1.2                                      | For manholes, when base gravels are complete, excavate for grade rings and manhole frame assembly. Do not disturb the compacted road base beyond the excavation requirement.   |
| <b>3.3</b> | <b>Manhole Installation</b>    | Delete 3.3.12.2 and replace with the following | Allowable products are precast concrete risers and cast-in-place form system. Individual riser heights shall be 50mm, 75mm, or 100mm.  |
|            |                                | Delete 3.3.12.5 and replace with the following | Proper layer of grout between the spacers, covering the entire surface of the rings, should be utilized.   |
|            |                                | Delete 3.3.15 and replace with the following   | Install drop structures as shown on the contract drawings to Coquitlam Standard Detail Drawing COQ-S4 and Standard Detail Drawing S3. Maximum allowable inside ramp shall be 250 mm invert to invert.  |
|            |                                | Delete 3.3.17 and replace with the following   | Ensure frames conform to design contour of pavement or existing surface. Manhole lids left raised in preparation for overlay paving shall have a rubberized protector ring or asphalt ramp. The use of riser rings for adjusting manhole frames will not be permitted.   |
| <b>3.5</b> | <b>Catchbasin Installation</b> | Delete 3.5.1 and replace with the following    | Install catch basins as shown on Coquitlam Standard Detail Drawings COQ-S11A, COQ-S11B and Standard Detail Drawing S11, to general standards and installation procedures described under 3.3 of this Section.  |

**END OF SECTION**

# ***Appendix A - Traffic Management Detail Specifications***

- |                             |   |
|-----------------------------|---|
| <b>1.0 GENERAL</b>          |   |
|                             | .1 This Traffic Management detail specification refers to the Contractor's specific plans to identify project traffic risks affecting the <i>Work</i> , 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 01 55 00S.   |
| 1.2 References              | .1 WorkSafe BC, Occupational Health and Safety (OHS) Regulation, Section 18 – Traffic Control.<br><br>.2 B.C. Ministry of Transportation (MOT) Traffic Control Manual for Work on Roadways.   |
| 1.3 Project Requirements    | .1 Hours of Work and Traffic Restrictions for this project are identified in <b>Appendix 1</b> of this document.<br>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.<br><br>.2 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 <b>Appendix 2</b> 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 <a href="http://www.coquitlam.ca/closure">www.coquitlam.ca/closure</a> . |
| 1.4 Measurement and Payment | .1 For this Contract, payment for all work performed under this section, unless included in the Schedule of Quantities and Prices shall be treated as incidental work, including a Traffic Management Plan (TMP), Traffic Control Persons (TMP), traffic markings & all temporary traffic signs, devices as required for traffic & pedestrian safety; and all other items described in the Section 01 55 00S.   |
| <b>2.0 PRODUCTS</b>         |   |
| 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 | <p>.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.</p> <p>.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.</p>   |
| 2.3                  | Traffic Control Plans             | <p>.1 The Contractor shall designate a qualified Traffic Control Supervisor for the works, per the requirements of WCB regulations Section 18.</p> <p style="padding-left: 40px;">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.</p> <p>.2 The Contractor shall prepare weekly the anticipated traffic control activities, locations, and durations for the upcoming week.</p> <p>.3 Permissible delays shall only be considered outside Peak Hours. Permissible delays are categorized as follows:</p> <ul style="list-style-type: none"><li>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.</li><li>b) Major Delays - Maximum five (5) minutes in duration; for occasional interruption of traffic for construction activities if traffic volumes permit. These delays shall be coordinated with available breaks in the traffic flow.</li></ul> <p>.4 The Contractor is responsible for ensuring that the flow of traffic is unimpeded by construction-related activities.</p> |
| <b>3.0 EXECUTION</b> |                                   |   |
| 3.1                  | Traffic Control Plan              | <p>.1 A copy of the approved <u>current</u> Traffic Plan must be held on site by both the Site Superintendent as well as the person/company responsible for the traffic control implementation.</p> <p>.2 Failure to produce a valid approved Traffic Plan on site, or having work not follow the Traffic Control Plan will result in immediate</p>   |

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.

3.2 Road and Sidewalk  
Closure Permits

- .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.

3.3 Traffic Control  
Personnel  
& Equipment

- .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.
- .2 There must be sufficient Traffic Control Persons (TCPs) on site to appropriately and safely direct traffic in all sections of the Work.

3.4 Signage

- .1 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.

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.

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.

3.5 Detours

- .1 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.

- |     |                                      |   |
|-----|--------------------------------------|---|
| 3.6 | Abrupt Changes in Surface Elevations | <p>.1 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>.1 The Contractor shall make provision for pedestrians, wheel chairs and bicycles to have safe access across the work zone at all times. If this cannot be readily accommodated, then acceptable detours and appropriate signs shall be provided.</p>                              |
| 3.8 | Temporary Pavement Markings          | <p>.1 The Contractor shall be responsible for the application and removal of all temporary pavement markings and reflective devices.</p> <p>All temporary markings must be removed after installation of permanent markings.</p>  |

#### 4.0 TRAFFIC RESTRICTIONS

- |     |                                   |   |
|-----|-----------------------------------|---|
| 4.1 | Road and Sidewalk Closure Permits | <p>.1 Minimum of Single Lane Traffic in each direction must be accommodated at all times.</p> <p>.2 A City of Coquitlam 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 and Lane Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.</p> <p>.3 <b>Casey may be closed (local traffic only). Access to private parking lots must be maintained for residents, mail/parcel delivery vehicles, and garbage and recycling vehicles. Pedestrian access shall be maintained on the west side of Casey.</b></p> <p>.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.</p> |
|-----|-----------------------------------|---|

- .5 This construction work site is located near a school. Contractor should make arrangements to accommodate pedestrian movements.

## 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 Considerations
  - .1 Ensure that Traffic Management Plan accommodates businesses and residences during construction activities.
- 5.3 Work stoppage due to traffic
  - .1 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 or creating unreasonable delays
- 5.4 Construction Activity and Signage
  - .1 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
  - .1 The Contractor is required to provide, one week prior to start of work, stationary signs at intersections, one in each direction, to inform traffic of existing and anticipated conditions at entry points of the street to be worked on, locations for these signs will be provided by the Contract Administrator.

Ensure that signs and locations are addressed in the Traffic Management Plan. All signs are to be removed at the end of the construction period.

**APPENDIX 1**  
**CONTRACT HOURS OF WORK and TRAFFIC RESTRICTIONS**

|            |                         |   |
|------------|-------------------------|---|
| <b>1.0</b> | <b>GENERAL</b>          |   |
| 1.1        | Contract Number         | 84495A  |
| 1.2        | Contract Name           | Casey Street Sanitary Sewer (Phase 2): Cartier to Thomas  |
| 1.3        | Contract Limits         | As shown on the Contract Drawings   |
| <b>2.0</b> | <b>ROAD SECTION</b>     |   |
| 2.1        | <b>Casey Street</b>     | <ul style="list-style-type: none"><li>.1 Residential property accesses in this area must be accommodated in the work operations.</li><li>.2 Road may be closed except for local traffic only. Access to parking lots must be accommodated at all times unless otherwise authorized by the Contract Administrator.</li><li>.3 Rochester Park driveway must have access maintained from Thomas Avenue until construction reaches STA 1+80</li><li>.4 Pedestrian access along Casey Street and through Rochester Park shall be maintained.</li><li>.5 The work should be scheduled such that garbage and recycling trucks can pass for collection. In case of any access problem the Contractor may be required to move garbage &amp; recycling bins.</li><li>.6 The work should be scheduled such that garbage and recycling trucks can pass for collection. In case of any access problem the Contractor may be required to move garbage &amp; recycling bins.</li><li>.7 Material &amp; Equipment storage is not permitted in Rochester Park.</li></ul> |
| <b>3.0</b> | <b>HOURS OF WORK</b>    |   |
| 3.1        | Allowable Hours of Work | <ul style="list-style-type: none"><li>.1 Unless there are other contract restrictions for work times, work can be performed during the normal weekday working hours of<br/><b>07:00 hrs to 19:00 hrs.</b></li></ul>   |
|            |                         | <ul style="list-style-type: none"><li>.2 Work is allowable on Saturdays but is restricted to a<br/><b>09:00 hrs to 17:00 hrs.</b></li></ul>   |
|            |                         | <ul style="list-style-type: none"><li>.3 No work is allowed on Sundays or statutory holidays without specific permission arranged through the Contract Administrator.</li></ul>   |
| <b>4.0</b> | <b>OPERATIONS</b>       |   |
| 4.1        | Truck Routes            | <ul style="list-style-type: none"><li>.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 <a href="http://www.coquitlam.ca">www.coquitlam.ca</a> and can be found under <b>Residents/Transit &amp; Transportation/Trucking Routes</b>.</li></ul>   |

APPENDIX 2



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](mailto:trafficoperations@coquitlam.ca)

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

~~Permit Fee: \$75.00 (Effective February 1, 2019)~~

~~Payment Methods: After review, and if approved, payment options will be emailed to the applicant.~~

Application Date:

City Project 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  
☐ Curb/Outside Lane ☐ Centre/Inside Lane ☐ Right Turn Lane ☐ Left Turn Lane ☐ Cycling Lane ☐ Sidewalk  
☐ Single Lane Alternating Traffic ☐ Full Closure

Road/Street Name:   
Location Description:

Date & Time Information: Dates:    
Starting Ending  
Hours:    
Starting Ending

Purpose:

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

Will this closure disrupt: Garbage/Recycling Routes or Pick Up? ☐ Yes ☐ No If yes, the Applicant will need to assist the contractor and/or contact the City's Environmental Services Group. [www.coquitlam.ca/trashtalk](http://www.coquitlam.ca/trashtalk)

**Traffic Control Plan\*:**

- (a) Traffic Management Manual for Work on Roadways Figure Number \_\_\_\_\_, or  
(b) A Traffic Control Plan (*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.

**Application Checklist**

- ☐ Permit Fee
- ☐ Prime Contractor Designation Letter
- ☐ City of Coquitlam Certificate of Insurance
- ☐ Traffic Control Plan or Traffic Management 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
- ☐ City of Coquitlam Environmental Services Group (Phone: 604-927-3500 | Email: [wastereduction@coquitlam.ca](mailto:wastereduction@coquitlam.ca)) contacted regarding impact to garbage/recycling routes and pick up

**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**

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Permit Fee           | <input type="checkbox"/> Prime Contractor Letter | <input type="checkbox"/> Certificate of Insurance                |
| <input type="checkbox"/> Traffic Control Plan | <input type="checkbox"/> Impact to bus service   | <input type="checkbox"/> 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



# ***Appendix B -***

## ***Contract Drawings***

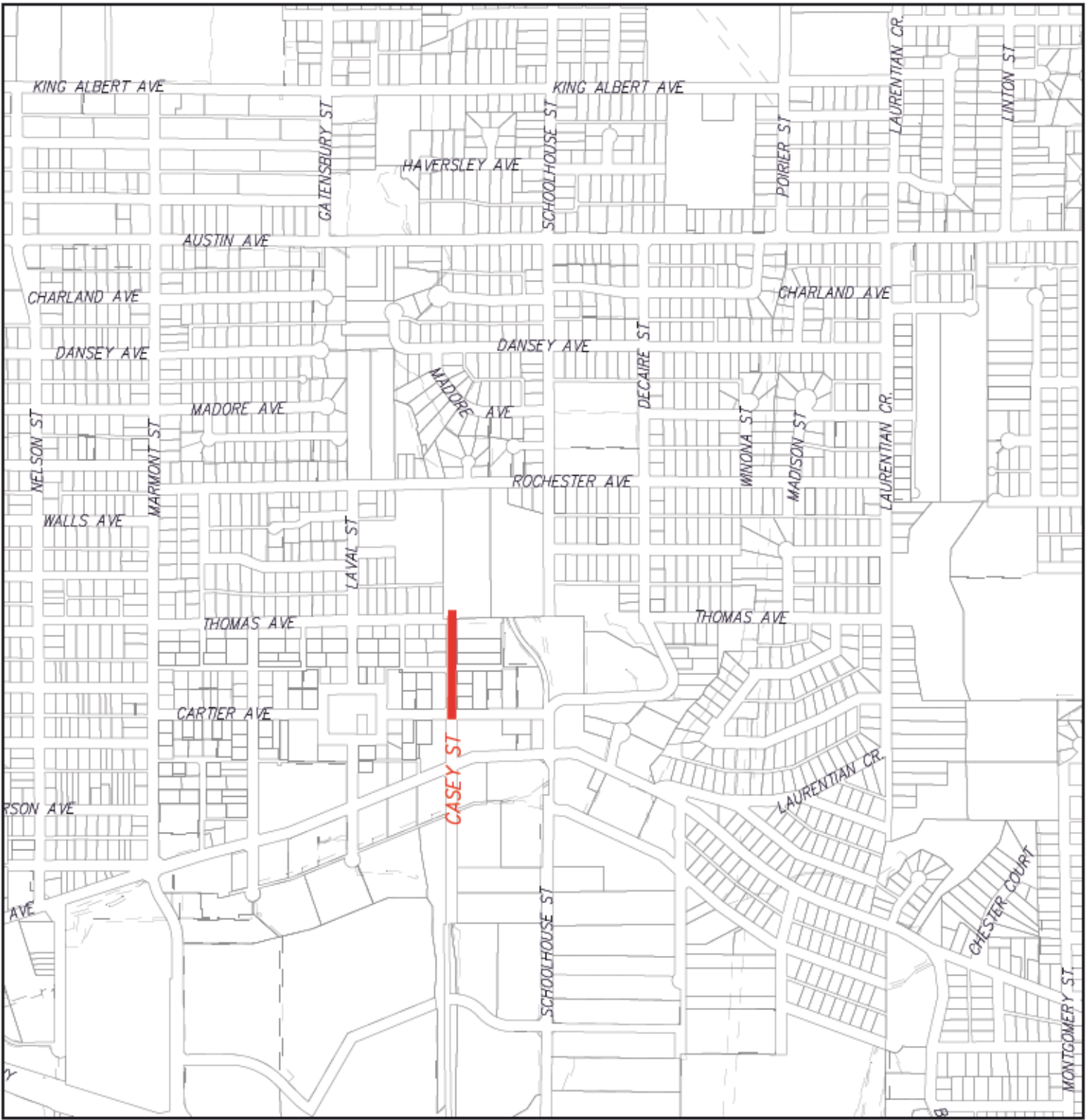
CITY OF COQUITLAM

3000 GUILDFORD WAY, COQUITLAM, BC V3B 7N2

CASEY STREET SANITARY IMPROVEMENTS

ISSUED FOR TENDER

| LEGEND   |          |  |
|----------|----------|--|
| EXISTING | PROPOSED | DESCRIPTION                              |
|          |          | IRON PROPERTY PIN                        |
|          |          | BUILDING                                 |
|          |          | EDGE OF PAVEMENT                         |
|          |          | CURB & GUTTER                            |
|          |          | TRUCK ROUTE                              |
|          |          | SANITARY SEWER                           |
|          |          | SANITARY CONNECTION & INSPECTION CHAMBER |
|          |          | STORM SEWER                              |
|          |          | STORM CONNECTION & INSPECTION CHAMBER    |
|          |          | STORM SEWER SERVICE                      |
|          |          | FRENCH DRAIN                             |
|          |          | STORM SEWER & CLEANOUT                   |
|          |          | CATCH BASIN - TOP INLET & SIDE INLET     |
|          |          | LAWN DRAIN                               |
|          |          | CATCH BASIN MANHOLE                      |
|          |          | SWALE                                    |
|          |          | DITCH                                    |
|          |          | SIDEWALK (ASPHALT)                       |
|          |          | SIDEWALK (CONCRETE)                      |
|          |          | RETAINING WALL                           |
|          |          | WATERMAIN                                |
|          |          | WATER SERVICE CONNECTION                 |
|          |          | WATER VALVE                              |
|          |          | AIR VALVE                                |
|          |          | HYDRANT & VALVE ASSEMBLY                 |
|          |          | YARD HYDRANT                             |
|          |          | CAPPED END                               |
|          |          | WATER METER                              |
|          |          | BLOW-OFF                                 |
|          |          | UNDERGROUND TELEPHONE & MANHOLE          |
|          |          | UNDERGROUND ELECTRICAL & MANHOLE         |
|          |          | GASMAIN                                  |
|          |          | TRAFFIC SIGNAL & STREET LIGHT U/G DUCTS  |
|          |          | ORNAMENTAL STREET LIGHT - DAVIT          |
|          |          | ORNAMENTAL STREET LIGHT - POST TOP       |
|          |          | UTILITY POLE                             |
|          |          | UTILITY POLE W/ LIGHT                    |
|          |          | JUNCTION BOX                             |
|          |          | GROUND ELEVATION                         |
|          |          | DIRECTION OF OVERLAND FLOW               |



SITE MAP  
SCALE 1:10000

| DRAWING INDEX |                                   |             |                           |              |
|---------------|-----------------------------------|-------------|---------------------------|--------------|
| SHEET #       | DWG. TITLE                        | STREET NAME | LOCATION                  | RFB DWG. #   |
| 00            | COVER SHEET                       |             |                           |              |
| 01            | SANITARY SEWER – PLAN AND PROFILE | CASEY ST    | CARTIER AVE TO THOMAS AVE | 21-0989-3-S1 |



R.F. BINNIE & ASSOCIATES LTD.  
300 - 4940 Canada Way,  
Burnaby, BC V5G 4K6  
TEL 604 420 1721  
BINNIE.com



NOTE:  
SNMH07 IS ANTICIPATED TO BE  
INTERIM CONDITION. WHEN SOUTH  
UPGRADES ARE COMPLETED IN  
FUTURE SNMH07 WILL BE REPLACED  
AND AN OUTSIDE DROP UPSTREAM OF  
SNMH07 WILL BE INSTALLED.

EX 1524mm O.D.  
STEEL GVRD WTR - 8.50m  
EX 60 DP GAS - 5.80m  
EX 150mm WTR - 5.30m  
EX 30mm RPVC  
STLT - 3.13m  
PLAN LMP16268  
PLAN LMS1355

CARTIER AVENUE

TIE-IN TO EX. SNMH11 AND  
CAP EX. MAIN (NORTH SIDE).  
CORE NEW OPENING FOR  
TIE-IN AND GROUT EX.  
OPENING AS REQUIRED

PLAN EPP25958

PLAN EPS1516

HACHEY AVENUE

REMOVE EX. SAN MANHOLE AND  
CAP EX. MAIN. EXTEND & CONNECT  
EX. SAN SEWER (WEST SIDE) TO  
PROP. 1050Ø SNMH06

PROP. 450Ø PVC

DR35 SAN SEWER

EX. SAN MANHOLE  
TO BE REMOVED

REMOVE EX. SAN

MANHOLE, CAP EX. MAIN

AND CONNECT TO EX.

SAN SERVICE

THOMAS AVENUE

EX 75mm WOODSTAVE WTR - UNK

EX 75mm WTR - 1.00m  
EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

EX 30mm RPVC STLT - 1.00m  
EX 200mm SAN - 5.15m

## SUPPLEMENTARY LEGEND

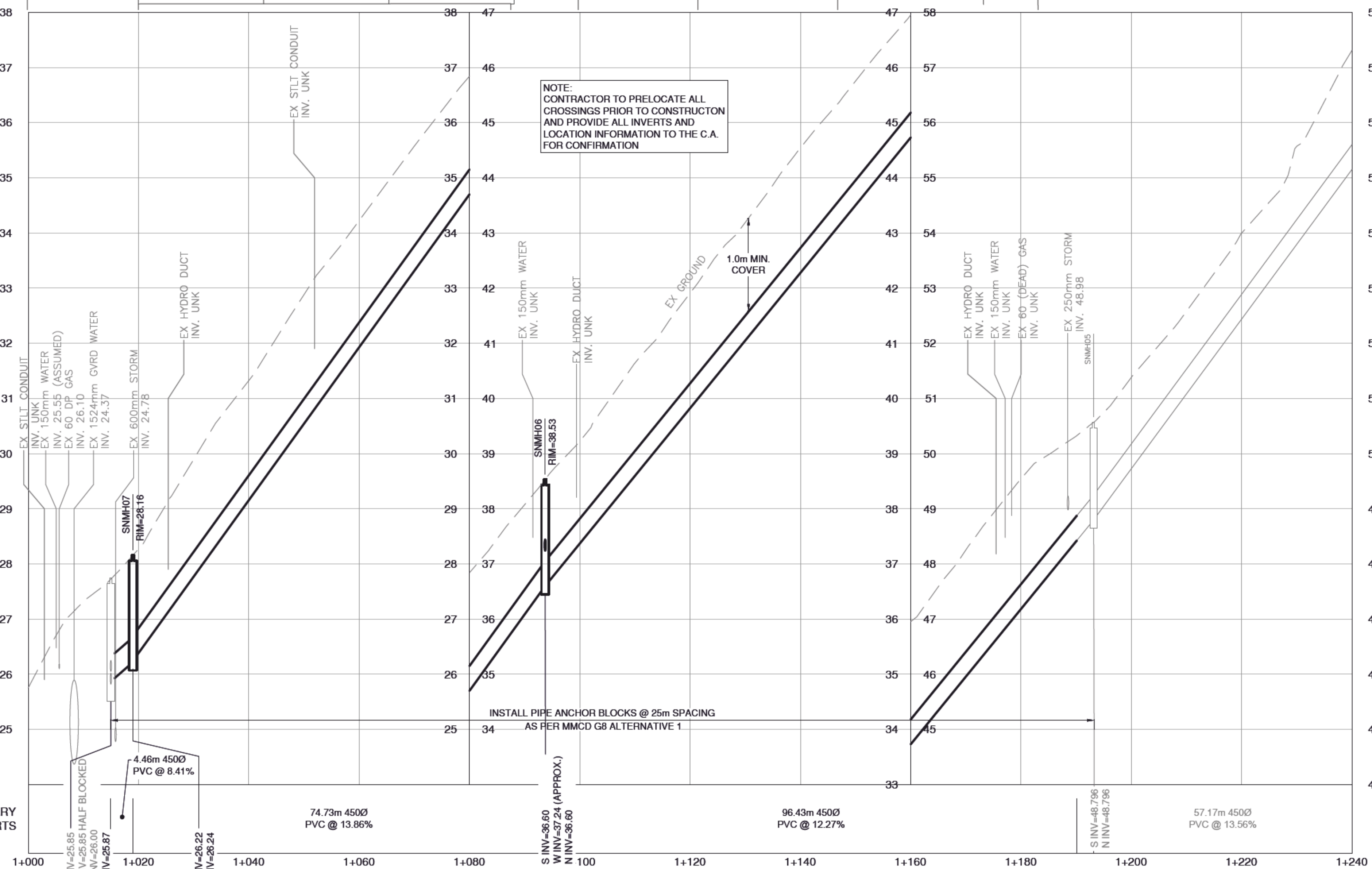
- #100 House Number (Civic Address)  
Misc. Gate Post  
Vegetation Deciduous  
Vegetation Conifer  
Sump  
Water Meter  
Guy Wire  
Gravel  
Wall  
Fence  
Garden line  
Hedge, Tree or Bush line  
Embankment Bottoms  
Embankment Tops

## METRO VANCOUVER NOTES:

- TO ARRANGE FOR A MV REPRESENTATIVE, PLEASE CONTACT MV UTILITY OPERATIONS' PLANNERS AT (604) 522-7405, NO LESS THAN 10 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH AND LOCATION OF THE MV WATER MAIN PRIOR TO CONSTRUCTION. IF THE WATER MAIN IS EXPOSED, A HYDRO EXCAVATOR SHALL BE USED (OR AUTHORIZED OTHERWISE) AND A MV REPRESENTATIVE MUST BE PRESENT.
- THE PROPONENT WILL HYDRO-VAC AND/OR USE HAND TOOLS WHEN EXCAVATING 0.5m FROM THE OUTER EDGE OF MV UTILITIES.
- IF AN EXISTING MV WATER MAIN IS EXPOSED, THE CONTRACTOR IS RESPONSIBLE TO RESTORE PIPE BEDDING AND BACKFILL TO MV STANDARDS (TO REINSTATE PIPE BEDDING WITH SAND COMPACTED TO 95% MODIFIED PROCTOR).
- VERTICAL MINIMUM CLEARANCE TO MV FACILITIES IS 300mm AND HORIZONTAL MINIMUM CLEARANCE IS 1000mm (OUTER EDGE TO OUTER EDGE).
- IF MV UTILITIES ARE TO BE EXPOSED, MAXIMUM UNSUPPORTED LENGTH MAIN MUST BE 2M OR LESS. IF UNSUPPORTED LENGTH EXCEEDS 2m, THE CONTRACTOR SHALL SUBMIT ENGINEERED TEMPORARY SUPPORT DETAIL FOR MV REVIEW

## NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO MMCD 2009 (PLATINUM) EDITION AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONFIRM THE LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES. NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL RECORD COMPLETE AND ACCURATE AS-BUILT INFORMATION ON A SET OF CURRENT CONSTRUCTION DRAWINGS DURING CONSTRUCTION AND SUBMIT THE INFORMATION TO THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF A RETAINING WALL AND/OR ADJACENT STRUCTURE.
- ALL EXISTING SURFACES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION SUBSEQUENT TO CONSTRUCTION.
- UNLESS OTHERWISE INDICATED, SANITARY SEWER MATERIALS SHALL BE:
  - MAINS = PVC DR 35
  - SERVICE CONNECTION:
    - 100mm DIA, 150mm DIA = PVC DR 28
    - 200mm DIA AND GREATER = PVC DR 35
  - MANHOLES = 1050mm DIA. PRECAST REINFORCED CONCRETE
- MANHOLES SHALL BE INSTALLED AS PER MMCD STANDARD DRAWINGS S1 AND S2. BENCHING SHALL BE AS PER MMCD STANDARD DRAWING S3. MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY OF COQUITLAM STANDARD DRAWING COQ-S16.
- FOR TYPICAL TRENCH SECTION SEE CITY OF COQUITLAM STD. DWG. COQ-G4.
- EXISTING SANITARY SEWER AND MANHOLES TO BE REMOVED AS PART OF THE TRENCH EXCAVATION FOR NEW MAINS OR SERVICES, OR ABANDONED, SEALED AND FILLED AS PER THE FOLLOWING SPECIFICATIONS:
  - PIPES SHALL BE PLUGGED IN THE MANHOLE WITH CONCRETE FILLED SAND BAGS. PRIOR TO BURYING, FIELD INSPECTOR TO WITNESS THAT PIPES HAVE BEEN PLUGGED.
  - CAST IRON FRAMES AND COVERS, BRICKS AND/OR PRE-CAST CONCRETE RINGS, AND THE TOP OF THE MANHOLE STRUCTURE SHALL BE REMOVED AND THE MANHOLE CASTINGS SHALL BE DISPOSED OFF-SITE BY THE CONTRACTOR.
  - MANHOLE SECTIONS SHALL BE REMOVED TO MIN 1.2m BELOW GRADE.
  - MANHOLES SHALL BE FILLED WITH 19mm MINUS CRUSHED GRANULAR BASE AND COMPACTED IN 0.3m LIFTS TO 95% MODIFIED PROCTOR DENSITY.
- ALL EXISTING UTILITY SERVICE CONNECTIONS NOT SHOWN FOR CLARITY.
- ELEVATIONS ARE DERIVED FROM CONTROL TAG 3143. ELEVATION=73.574m [CGVD28 (GVRD 2005)] LOCATED ON THE SOUTH SIDE OF ROCHESTER AVENUE AT #1390.
- THIS PLAN SHOWS HORIZONTAL GROUND LEVEL MEASURED DISTANCES. PRIOR TO COMPUTATION OF NAD83 U.T.M. COORDINATES MULTIPLY BY THE COMBINED FACTOR 0.9995887. SURVEY IS BASED UPON FILE: "13ROCHES03283070.DWG" DATED APRIL 5, 2013. DATE OF MOST RECENT SURVEY COMPLETION IS MARCH 26, 2015.
- BASEMAP WAS IMPORTED FROM CITY OF COQUITLAM G.I.S. COORDINATE GEOMETRY. ACCURACY IS ESTIMATED AT ±0.15m.

**NOT FOR CONSTRUCTION**PROP. SANITARY  
INVERTS

DISCLAIMER:  
This drawing must not be reproduced without the written permission of R.F. Binnie & Associates Ltd.  
This drawing is not to be used for construction unless it is stamped "ISSUED FOR CONSTRUCTION" and signed by R.F. Binnie & Associates Ltd. It is the contractor's responsibility to ensure that he is in possession of the latest revision of this drawing.

|                     |                         |                           |                       |
|---------------------|-------------------------|---------------------------|-----------------------|
| Edge of pavement    | Hydrant                 | Sanitary service          | Traffic street sign   |
| Watermain and valve | Water air valve         | Sanitary cleanout         | Pedestrian Pushbutton |
| Drainage sewer, MH  | Water blowoff           | Utility pole (joint pole) | Signal pole           |
| Drainage ditch      | Water service           | Streetlight, down         | Flasher               |
| Sanitary sewer, MH  | Catch basin, top inlet  | Streetlight, post top     | Junction box          |
| Sanitary force main | Catch basin, side inlet | Comb signal pole          | Survey Traverse Hub   |
| Gasmain and valve   | Catch basin, round      | Traffic signal pole       | Survey Iron Pin       |
| Hydro duct, MH      | Drainage service        | Drainage cleanout         | Survey Lead Plug      |
| Telephone duct, MH  |                         |                           | Survey Monument       |

| No. | Date       | By  | Revisions              |
|-----|------------|-----|------------------------|
| 2   | 2022-07-25 | KDD | ISSUED FOR TENDER      |
| 1   | 2022-04-29 | KDD | 100% DESIGN SUBMISSION |

|             |            |
|-------------|------------|
| Design by   | Date       |
| KDD         | 2022-04-27 |
| Drawn by    | Date       |
| LY          | 2022-04-20 |
| Checked by  | Date       |
| TDB         | 2022-04-28 |
| Approved by | Date       |
| TDB         | 2022-04-29 |

**BINNIE**  
The people behind your infrastructure.  
TEL 604 420 1721 **BINNIE.com**

**Coquitlam**  
Engineering & Public Works  
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale  
horiz. 1:500  
Sheet 01 of 01  
Scale  
vert. 1:50  
Eng. Project No. 21-0989

Project  
**CASEY ST  
CARTIER AVE TO THOMAS AVE**  
Description  
**SANITARY SEWER - PLAN AND PROFILE**  
File: 21-0989-3-S1  
REV. 2