City of Coquitlam

Contract Documents
89012A

Ebert Ave & Robinson St
Watermain Replacements

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Contract No. 89012A

Ebert Ave & Robinson St Watermain Replacements

Project Construction Documents

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Invitation to Tenderers

INVITATION TO TENDER

DATE OF ISSUE: **March 1, 2012**

Tender No. 89012A

Ebert Ave. & Robinson St. Watermain Replacements

The City of Coquitlam invites Tenders for **Contract 89012A – Ebert Ave & Robinson St Watermain Replacements.** The work is located, in general, on Ebert Avenue from 536 Ebert to Whiting Way and on Robinson Street, from Ebert Ave to Foster Ave. The work consists of the following:

- Supply & Installation of approximately 265 meters of 300mm diameter DI pipe, 15 meters of 150mm diameter DI pipe, Service Connections, Hydrants, and Tie-ins;
- All Asphalt, concrete, and boulevard restoration works;
- Other miscellaneous and incidental works as contained in the Contract Documents.

Tender Documents are available for downloading from the City of Coquitlam website: www.coquitlam.ca/BidOpportunities

Hard copies of the Tender Documents may also be obtained upon request by email: citypurchasing@coquitlam.ca or phone 604-927-3060, and are available for a non-refundable fee of **$50.00** each set including HST, payable to the **City of Coquitlam**, during normal business hours at:

Coquitlam City Hall
Finance Counter Main Floor
3000 Guildford Way
Coquitlam BC V3B 7N2

Sealed Tenders submitted must be accompanied by the specified Bid Bond and will be received at:

City of Coquitlam
c/o Reception Desk – Main Floor
3000 Guildford Way
Coquitlam, BC V3B 7N2

On or Before 2:00 p.m., Thursday, March 15, 2012

Or, electronically transmitted Tenders will be accepted on or before the Closing Date and Time if sent to:

email: **citypurchasing@coquitlam.ca** *or*
Fax no: 604-927-3035

Tenders **will not** be opened in public. Information on unevaluated Tender results will be forwarded on Tender Day to all participants, by fax or email, unless otherwise requested.

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

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 view the Tender Documents and drawings by contacting the Vancouver Regional Construction Association (VRCA): website: www.vrca.bc.ca , ph: 604-870-9293, or email vrca@vrca.bc.ca, and quoting the Coquitlam Tender Reference Number.

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

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

Email: citypurchasing@coquitlam.ca or Fax: 604-927-3035

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

The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. The City also reserves the right to cancel any request for Tender at any time without recourse by the Tenderer. The City will not under any circumstances be responsible for any costs incurred by the Tenderer in preparing the Tender.

D. Trudeau
Purchasing Manager

Instructions to Tenderers, Part 1

Tender 89012A

Ebert Ave. & Robinson St. Watermain Replacements

INSTRUCTIONS TO TENDERERS
PART I

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UNIT PRICE CONTRACT

Instructions to Tenderers - Part I

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

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

The City of Coquitlam

Contract **Ebert Ave. & Robinson St. Watermain Replacements**

Reference No. **89012A**

Introduction **1**

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

- Supply & Installation of approximately 265 meters of 300mm diameter DI pipe, 15 meters of 150mm diameter DI pipe, Service Connections, Hydrants, and Tie-ins;
- All Asphalt, concrete, and boulevard restoration works;
- Other miscellaneous and incidental works as contained in the Contract Documents.

1.2 All inquiries regarding this Tender are to be submitted in writing by fax or by e-mail referencing the **Tender Name and Number** to:

E-Mail **citypurchasing@coquitlam.ca**
or
Fax **604-927-3035**

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

Inquiries received after that time will not receive a response.

Tender Documents **2**

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

2.2 A portion of the Contract Documents are included by reference. Copies of these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings. They are those contained in the publication entitled "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings". Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.

2.3 Any additional information made available to Tenderers prior to the Tender Closing Time by the Owner or representative of the Owner, such as geotechnical reports 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 judgement about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the Owner nor any representative of the Owner gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.

Submission of Tenders

3

3.1 Tenders should be submitted in a sealed envelope, marked on the outside with the above *Contract* Title and Reference No., or submitted electronically by email or fax and must be received by the office of:

Coquitlam City Hall Reception Desk, Coquitlam City Hall Main Floor, on or before:

Tender Closing Time: **2:00 p.m. local time**
Tender Closing Date: **March 15 , 2012** at
Address: Coquitlam City Hall
Reception Desk
3000 Guildford Way
Coquitlam, BC V3B 7N2

3.2 Electronically transmitted Tenders will be accepted before the Closing Date and Time if sent to: email: **citypurchasing@coquitlam.ca or Fax no: 604-927-3035.**

Electronically submitted Tenders shall be deemed to be successfully received when displayed as new email, or when fax transmittal has been received by the recipient at the City. The City will not be liable for any delay for any reason, including technological delays by either party, and late receipt will be cause for rejection.

3.3 Late Tenders will not be accepted or considered.

3.4 Tenders will not be opened in public. The unevaluated results will be forwarded to participants by EMAIL or FAX on Tender Closing Date, unless otherwise requested.

3.5 Tender submissions are subject to the Freedom of Information and Protection of Privacy Act and contents may be disclosed if required to do so, pursuant to the Act.

Additional Instructions to Tenderers

4 Additional and Deletions to Instructions to Tenderers: Part II

4.1 The following documents which are referred to and form part of the Contract Document package may be obtained as follows:

Obtaining Documents

- Copies of the Master Municipal Construction Documents (Gold Book), Volume II (2000) Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings are available separately from:

  Support Services Unlimited
  Suite 302
  1107 Homer Street
  Vancouver, B.C. V6B 2Y1
  Tel: (604) 681-0295
  Fax: (604) 681-4545

- City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2000 Edition.

  City of Coquitlam Engineering & Public Works Department
  3000 Guildford Way
  Coquitlam, BC V3B 7N2
  Tel: 604-927-3500
  Fax: 604-927-3525

Copies of the City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2000 Edition are available for viewing and downloading off the City of Coquitlam web site (www.coquitlam.ca)

Tender Requirements

4.2 *Delete:*
Instructions to Tenderers, Part ll, Section 5.2.2

Amendment of Tenders

4.3 *Delete:*
Instructions to Tenderers Part II, Section 12 Amendment of Tenders.

Award

4.4 *Add to*: Instructions to Tenderers Part ll, Section 15.1;

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

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

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

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

Certificate of Compliance for Contract Insurance 4.5 Each Tender should be accompanied by a Certificate of Compliance (on the form provided in Appendix 7 of Form of Tender) to provide proof that the Tenderer can obtain the insurance specified herein.

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

Proof of Ability 4.6 Tenderer shall be competent and capable of performing the various items of work. Tenderer shall complete the following statement sheets appended to the Form of Tender, which shall form a part of the Contract Documents:

.1 Appendix 1 Schedule of Quantities and Unit Prices
.2 Appendix 2 Preliminary Construction Schedule
.3 Appendix 3 Experience of Superintendent
.4 Appendix 4 Contractor's Comparable Work Experience
.5 Appendix 5 Subcontractors
.6 Appendix 6 Bid Bond
.7 Appendix 7 Certificate of Compliance for Contract Insurance

Test Excavations 4.7 Prior to the excavation of test holes on road allowances or privately owned property the Tenderer shall obtain permission from the City 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 4.8 The successful Tenderer shall have or obtain a Business License in the municipality in which the work is performed. Successful Tenderers will be required to supply a photocopy of a valid Coquitlam business licence prior to commencement of work or supply of materials. Contact Business Licence Division at 604-927-3085 for detailed information.

No Claim 4.9 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.

No Cost	4.10	The City will not under any circumstances be responsible for any costs incurred by the Tenderer in preparing the Tender.
Right to Accept or Reject any Tender	4.11	The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. The City specifically reserves the right to reject all Tenders if none is considered to be satisfactory and, in that event, at its option, to call for additional Tenders.
Cancellation of Tender	4.12	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.

Form of Tender

Tender No. 89012A

Ebert Ave. & Robinson St. Watermain Replacements

Summary

Name of ***Contractor***: _____

Tender Price (excluding HST): $ _____
(FROM APPENDIX 1 OF FORM OF TENDER)

Tenders will be received at:

City of Coquitlam
c/o Reception Desk – Main Floor
3000 Guildford Way
Coquitlam BC V3B 7N2

On or before 2:00 pm (local time) on Thursday, March 15, 2012

Or, electronically transmitted Tenders will be accepted on or before the closing date and time if sent to:
Email: citypurchasing@coquitlam.ca
or
Fax No.: 604-927-3035

Form of Tender

Contract: **Ebert Ave. & Robinson St. Watermain Replacements**

Reference No. **89012A**

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

1.3 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
30 (Thirty) working days from the date of the Notice to Proceed

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 *HST*.

3 **WE CONFIRM**:

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

4 **WE CONFIRM**:

4.1 that the following Appendices are attached to and form a part of this tender:

4.1.1 the Appendices as required by paragraph 5.3 of the Instructions to 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*:

5.1 a) a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the *Contract Price*, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*; and

5.1 b) a *Construction Schedule*, as provided by SGC 4.6.1; and
In the event of the Contractor's failure to complete and deliver the work at the specified time or approved time extension, then the Contractor shall pay to the City as liquidated damages for such default, **the sum of $500.00 per day** for each and every working day after the time specified until the actual completion of the work; and

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

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

5.1 e) a letter confirming the *Contractor* as "Prime Contractor" for the Contract as specified in SGC 4.2.2.

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

5.1.3 sign the Contract Documents as required by SGC 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_____, 2012.

Contractor:

_____
(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

_____
(AUTHORIZED SIGNATORY)

_____
(AUTHORIZED SIGNATORY)

8 WE CONFIRM:

8.1 our Harmonized Sales Tax registration status is as follows:

8.1.1 for information purposes, our Harmonized Sales Tax Registration Number is:

_____

(HST 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

Ebert Ave & Robinson St Watermain Replacements

Contract 89012A

SCHEDULE OF QUANTITIES AND PRICES

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

(All Tender and Contract Prices shall NOT include taxes. HST will apply upon invoice and payment)

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

Master Municipal Specifications	Division 1 - GENERAL REQUIREMENTS		
	01535	Temporary Facilities	Incidental to Contract
	01561	Environmental Protection	Incidental to Contract
	01570	Traffic Control	Incidental to Contract

Master Municipal Specifications	Division 2 - SITE WORKS					
ITEM No.	MMCD/ Supp. Spec.	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
1.0	02221	ROCK REMOVAL				
1.01	1.6	Rock removal c/w offsite disposal & backfilling (Provisional)	cu.m.	4		
2.0	02223	EXCAVATING, TRENCHING, & BACKFILLING				
2.01	1.10.3	Overexcavation (Provisional)	cu.m.	10		
2.02	1.10.9	Add Import Trench Backfill (Provisional)	tonne	100		
3.0	02512	ASPHALT CONCRETE PAVING				
3.01	1.5.1	Permanent Trench Patch - Robinson St. (35mm key & overlay)	tonne	25		
4.0	02666	WATERWORKS				
4.01	1.8.2	150mm CL 50 DI Pipe	lin. m.	15		
4.02	1.8.2	300mm CL 50 DI Pipe	lin. m.	265		
4.03	1.8.3	150mm DI Gate Valves	each	1		
4.04	1.8.3	300mm DI Gate Valves	each	3		
4.05	1.8.3	300 x 300 x 300 DI Tee	each	1		
4.06	1.8.3	300 x 300 x 150 DI Tee	each	2		
4.07	1.8.3	150mm 45° DI Bend	each	2		
4.08	1.8.3	300mm 45° DI Bend	each	2		
4.09	1.8.3	300mm X 150mm Reducer	each	1		
4.10	1.8.4.2	New Hydrant Assembly c/w Storz Nozzle	each	2		
4.11	1.8.4.1	Remove Existing Hydrant Assembly	each	2		
4.12	1.8.5.1	Replace Service Connection (19mm)	l.m.	164		
4.13	1.8.5.1	Extend Ex. Service Connection c/w fiitings (19mm)	l.m.	12		
4.14	1.8.5.1	Curb Stop with Nelson Box & Riser Pipe -supply & install	each	17		
4.15	1.8.5.2	Transfer Ex. Service Connection c/w fittings (19mm)	each	1		
4.16	1.8.14	Tie-in & Cap Existing 300mm W/M on Robinson St. (North)	l.s.	1		
4.17	1.8.14	Tie-in & Cap Existing 150mm W/M on Robinson St. (South)	l.s.	1		
4.18	1.8.14	Tie-in & Cap Existing 300mm W/M on Ebert Ave (East)	l.s.	1		
4.19	1.8.14	Tie-in & Cap Existing 300mm W/M on Ebert Ave (536 Ebert)	l.s.	1		
4.20	1.8.14	Tie-in Existing 300mm & Cap 150mm W/M on Ebert Ave (West)	l.s.	1		
4.21	1.8.15	Valve Box Removal & Restoration	each	4		
Transfer TOTAL amount to Page FT.1 - Summary *(exclude HST)*					TOTAL	

Appendix 2

Contract 89012A
Ebert Ave. & Robinson St. Watermain Replacements

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

INDICATE SCHEDULE WITH BAR CHART WITH CONSTRUCTION DURATIONS

THIS IS A MANDATORY PART OF THE TENDER SUBMISSION

Duration in Weeks

ACTIVITY	1	2	3	4	5	6				
Investigation/Survey										
Ebert Section:										
Main Pipe										
Services/Hydrants										
Tie-ins/Transfers										
Robinson Section:										
Main Pipe										
Services/Hydrants										
Tie-ins/Transfers										
Restoration										

Completion Date**:** **Within 30 working days from "Notice to Proceed"**

Proposed Disposal Site:_____

Appendix 3

Contract 89012A
Ebert Ave. & Robinson St. Watermain Replacements

EXPERIENCE OF SUPERINTENDENT

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

Proposed Project Superintendent _____

List of Project Experience

PROJECT:		**Dates:**	
Work Description:			
Responsibility:			
Owner/Reference:		**Phone N0:**	

PROJECT:		**Dates:**	
Work Description:			
Responsibility:			
Owner/Reference:		**Phone N0:**	

PROJECT:		**Dates:**	
Work Description:			
Responsibility:			
Owner/Reference:		**Phone N0:**	

Appendix 4

Contract 89012A
Ebert Ave. & Robinson St. Watermain Replacements

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

PROJECT:		**VALUE ($):**	
OWNER:		**Phone Number:**	
Work Description:			

PROJECT:		**VALUE ($):**	
OWNER:		**Phone Number:**	
Work Description:			

PROJECT:		**VALUE ($):**	
OWNER:		**Phone Number:**	
Work Description:			

PROJECT:		**VALUE ($):**	
OWNER:		**Phone Number:**	
Work Description:			

Appendix 5

Contract 89012A
Ebert Ave. & Robinson St. Watermain Replacements

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

Trade:		**Tender Item:**	
Work Description:			
Subcontractor:		**Phone No:**	

Trade:		**Tender Item:**	
Work Description:			
Subcontractor:		**Phone No:**	

Trade:		**Tender Item:**	
Work Description:			
Subcontractor:		**Phone No:**	

Trade:		**Tender Item:**	
Work Description:			
Subcontractor:		**Phone No:**	

Trade:		**Tender Item:**	
Work Description:			
Subcontractor:		**Phone No:**	

Appendix 6

BID BOND

NO. _____ $ _____

KNOW ALL MEN BY THESE PRESENTS THAT

_____
As Principal, hereinafter called the Principal, and

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

_____
As Obligee, hereinafter called the Obligee, in the amount of

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

WHEREAS, the Principal has submitted a written Tender to the Obligee, dated the _____day of _____, 20___ for Contract _____.

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

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

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

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

SIGNED, SEALED AND DELIVERED
In the presence of:

	)	_____
	)	PRINCIPAL
	)	
	)	_____
_____	)	SURETY

Appendix 7

CERTIFICATE OF COMPLIANCE for CONTRACT INSURANCE

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

Contract Number: **89012A**

Contract Name: **Ebert Ave. & Robinson St. Watermain Replacements**

Description of Work:

- Supply & Installation of approximately 285 meters of 300mm diameter DI pipe, 15 meters of 150mm diameter DI pipe, Service Connections, Hydrants, and Tie-ins;
- All Asphalt, concrete, and boulevard restoration works;
- Other miscellaneous and incidental works as contained in the Contract Documents.

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

Special Coverage Required:

YES	NO	Special Coverage Description
( )	(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 _____ 2012.

Contract: **Ebert Ave & Robinson St Watermain Replacements**
Reference No. **89012A**

BETWEEN:

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

(the "*Owner*")

AND:

_____
_____
_____

(the "*Contractor*")

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

1 THE WORK - START/COMPLETION DATES

1.1 The *Contractor* will perform all *Work* and provide all labour, equipment and material and do all things strictly as required by the *Contract Documents*.

1.2 The *Contractor* will commence the *Work* in accordance with the *Notice to Proceed*. The *Contractor* will proceed with the *Work* diligently, will perform the *Work* generally in accordance with the construction schedules as required by the *Contract Documents* and will achieve *Substantial Performance* of the *Work* within **Thirty (30) working days of the Notice to Proceed**, subject to the provisions of the *Contract Documents* for adjustments to the *Contract Time*.

1.3 Time shall be of the essence of the *Contract*.

2 CONTRACT DOCUMENTS

2.1 The "*Contract Documents*" consist of the documents listed or referred to in Schedule 1, entitled "Schedule of Contract Documents", and Schedule 2, entitled “List of Drawings” which are attached and form a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the *Contract Documents*. All of the *Contract Documents* shall constitute the entire *Contract* between the *Owner* and the *Contractor*.

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

3 CONTRACT PRICE

3.1 The price for the *Work* ("*Contract Price*") shall be the sum in Canadian dollars of the following:

a) the product of the actual quantities of the items of *Work* listed in the *Schedule of Quantities and Prices* which are incorporated into or made necessary by the *Work* and the unit prices listed in the *Schedule of Quantities and Prices*; plus

b) all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus

c) any adjustments, including any payments owing on account of *Changes* and agreed to *Extra Work*, approved in accordance with the provisions of the *Contract Documents*.

3.2 The *Contract Price* shall be the entire compensation owing to the *Contractor* for the *Work* and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the *Work*.

4 PAYMENT

4.1 Subject to applicable legislation and the provisions of the *Contract Documents*, the *Owner* shall make payments to the *Contractor*.

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

5 RIGHTS AND REMEDIES

5.1 The duties and obligations imposed by the *Contract Documents* and the rights and remedies available hereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

5.2 Except as specifically set out in the *Contract Documents*, no action or failure to act by the *Owner*, *Contract Administrator* or *Contractor* shall constitute a waiver of any of the parties' rights or duties afforded under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the *Contract*.

6 NOTICES

6.1 Communications among the *Owner*, the *Contract Administrator* and the *Contractor*, including all written notices required by the *Contract Documents*, may be delivered by 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, BC V3B 7N2

Tel: 604-927-3500
Fax: 604-927-3525

The *Contractor*:

_____
_____

Tel: _____
Fax: _____
EMAIL: _____

Attention: _____

The *Contract Administrator*:

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

Tel:
Fax:
EMAIL:
Attention:

6.2 A communication or notice that is addressed as above shall be considered to have been received:

a) immediately upon delivery, if delivered by hand; or
b) immediately upon transmission if sent or received by fax; or
c) after 5 days from date of posting if sent by registered mail.

6.3 The *Owner* or the *Contractor* may, at any time, change its address for notice by giving written notice to the other at the address then applicable. Similarly if the *Contract Administrator* changes its address for notice then the *Owner* will give or cause to be given written notice to the *Contractor*.

6.4 The sender of a notice by email or fax assumes all risk that the email or fax will be received properly, and the provisions of paragraph 12.5 of the Instructions to Tenderers Part II apply to the sender.

7 GENERAL

7.1 This *Contract* shall be construed according to the laws of British Columbia.

7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.

7.3 The headings included in the *Contract Documents* are for convenience only and do not form part of this *Contract* and will not be used to interpret, define or limit the scope or intent of this *Contract* or any of the provisions of the *Contract Documents*.

7.4 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.

7.5 This agreement shall enure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

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

Contractor:

_____
(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

_____
(AUTHORIZED SIGNATORY)

_____
(AUTHORIZED SIGNATORY AND POSITION - PRINT)

Owner:

City of Coquitlam
_____
(FULL LEGAL NAME OF OWNER)

_____
(MAYOR)

_____
(MUNICIPAL CLERK)

Schedule 1

Schedule of Contract Documents

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

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

NOTE: The documents noted with "*" are contained in the "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings", edition dated 2000. All sections of this publication are included in the *Contract Documents*.

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

13. City of Coquitlam Supplementary Specifications for Contract Documents.

Schedule 2

LIST OF DRAWINGS

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

Bound in this Document:

TITLE	DRAWING NO.	DATE
WATER SERVICE CONNECTIONS	W2b_a	FEB 22/99
TRENCH DETAILS FOR STANDARD SECTION	COQ-G4	Jun 12/02

Bound Separately:

TITLE "EBERT AVENUE" – Watermain Upgrades	Drawing Number	Sheet Number	REVISION DATE	Rev. No.
General Notes, Key Plan and Drawing Index	C01	1 of 4	Feb 27/12	3
Ebert Ave. Watermain STA 0+110 to STA 0+300	W01	2 of 4	Feb 27/12	3
Robinson St. Watermain STA 1+000 to STA 1+110	W02	3 of 4	Feb 27/12	3
Watermain Details	D01	4 of 4	Feb 27/12	3

Supplementary General Conditions

SUPPLEMENTARY GENERAL CONDITIONS

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

SUPPLEMENTARY GENERAL CONDITIONS

CONTRACT ADMINISTRATOR	**3**	
Appointment	3.1.3	***(Add new clause 3.1.3 as follows):*** The Contractor shall promptly and efficiently comply with any reasonable instruction issued by the Contract Administrator.
Inspection and Site Inspector	3.4 3.4.9	***(Add new clause 3.4.9 as follows):*** The *Contractor* will be required to work with the City's Project Inspector with respect to line & grade of pathway, curbing, and pavement rehabilitation including base gravel grading to ensure final surface drainage. If at any time during the progress of the work any error shall appear or arise in the position, levels, dimensions or alignment of any part of the work, the *Contractor* shall stop work on his portion of the project and notify the *Contract Administrator* who will within a reasonable time verify the same. If the *Contractor* proceeds with the work after a discrepancy is discovered, he does so at his own risk. The *Contractor* shall make allowances in his work schedule for delays of this nature and shall not claim or be paid for related stand-by or shut-down time.
CONTRACTOR	**4**	
Control of the Work	4.1 4.1.2	***(Add to clause 4.1.2 as follows):*** During all phases of the operation the Contractor shall take precautions to abate nuisance caused by mud or dust by clean-up, sweeping, sprinkling with water, or other means as necessary to accomplish results satisfactory to the Contract Administrator. The Contractor shall take care to prevent spillage on streets over which hauling is done and the Contractor shall immediately clean up any such spillage or debris deposited on streets due to his operations. The Contractor shall not deposit any material upon any street, sidewalk, boulevard or other property, without the Contract Administrator's or the Owner's permission, nor shall he allow the same to remain longer than necessary. All surplus spoil and rubbish and other waste material shall be removed from the site so that the area of work is cleaned up and restored to as clean a condition as it was before the Contract started, within four days of the Contract Administrator's written request to do so, failing which the Owner may carry out the work or have the work carried out by others and recover the costs from the Contractor or may deduct the cost from any monies due or that may become due to the Contractor.

Hours of Work 4.1.3 ***(Add new Clause 4.1.3 as follows):***

The hours of work for this project are detailed in the **Supplementary Specifications – Section 01000S**

Traffic Control Management 4.1.4 ***(Add new clause 4.1.4 as follows):***

a) Refer to **Supplementary Specifications – Appendix A** for project specific Traffic Control Management.

b) The Contractor shall comply with the requirements of the appropriate authority 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.

c) 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.

d) 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.

e) 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.

f) 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. If half the street only is under improvement, the other half shall be conditioned and maintained as detour.

g) The cost of this work shall be included in and incidental to the lump sum prices bid in the "Schedule of Quantities and Prices". No additional payment shall be made for this work.

Safety 4.2 ***(Add new clause 4.2.2 as follows):***

4.2.2 For the purposes of Occupational Health and Safety, the *Contractor* is the "Prime Contractor" as detailed in the Worker's Compensation Act, Section 119. The *Contractor* shall have and maintain an Occupational Health and Safety Program that meets the requirements of the WCB and the WCB OH&S Regulations.

Protection of Work, Property and the Public

4.3 ***(Add new clause 4.3.7 as follows):***

4.3.7 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* with no liability to the *Owner*.

4.3.8 ***(Add new clause 4.3.8 as follows):***

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

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

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

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

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

The Contractor shall not deposit any material upon any street, sidewalk, boulevard or other property, without the Contract Administrator's or the Owner's permission, nor shall he allow the same to remain longer than necessary. All surplus spoil and rubbish and other waste material shall be removed from the site so that the area of work is cleaned up and restored to as clean a condition as it was before the Contract started, within four days of the Contract Administrator's written request to do so, failing which the Owner may carry out the work or have the work carried out by others and recover the costs from the Contractor or may deduct the cost from any monies due or that may become due to the Contractor.

Construction Schedule

4.6 ***(Replace Clause 4.6.1 as follows):***

4.6.1 The Contractor shall within the time set out in the Form of Tender prepare and submit to the Contract Administrator for his approval a construction schedule (the Construction Schedule) indicating the planned start and completion dates of major activities of the Work. The 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 construction schedule has been approved.

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

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

Materials 4.9
4.9.3 ***(Add new clause 4.9.3 as follows):***
The Contractor shall

a) Be responsible for storing all of the materials supplied for the Work either by himself or the Owner, until it has been incorporated into the completed Work;

b) Store all materials in a manner which will prevent damage from the weather, dirt, foreign matter, vandalism and theft;

c) Arrange for and/or verify the time of delivery of all materials to be supplied by himself or the Owner to ensure that delivery will coincide with his work schedules.

d) Examine with the Contract Administrator the quantities and details of all materials supplied by the Owner at the time and place of delivery or those materials already at the Place of Work, and prepare and sign a Statement of Materials Acceptance, specifically noting and rejecting any defective material;

e) Replace all materials supplied by himself or the Owner which are found to be stolen, missing or damaged while under his care;

f) Assume responsibility, upon signing of the Contract, for all materials supplied by the Owner and already at the Place of Work.

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

Subcontractors	4.11 4.11.3	***(Delete clause 4.11.3 and replace with:)*** The Contractor shall, upon notice of the Contract Administrator, remove any Subcontractor employed by him for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted himself improperly, and the Contractor shall not permit the Subcontractor who has been removed to return to the Place of Work. The removal of a Subcontractor under this clause shall not be considered a Change and the Contract Price and the Contract Time shall not be adjusted.
Inspections	4.12 4.12.2	***(Delete clause 4.12.2(a) and replace with):*** The Contractor is to perform or arrange for the test, inspection, or approval; and
	4.12.8	***(Add Clause 4.12.8 as follows):*** The Contractor shall give the Contract Administrator two full working days' notice to arrange and witness any testing required by the Contract.
Final Clean-up	4.14 4.14.3	***(Add new Clause 4.14.3 as follows):*** All existing catchbasins, manholes and/or sewers affected by work done under this Contract must be cleaned to the satisfaction of the Contract Administrator.
Notice of Disruption	4.16 4.16.2	***(Add new Clause 4.16.2 as follows):*** Written notice must be provided to all properties which may be physically affected by the construction not less than one week and not more than two weeks prior to construction. Notify occupants directly affected by the work 48 hours in advance of commencement of construction. Cost of notifying area occupants of ensuing construction and delivery of the notices is incidental to the Contract. Cost of obtaining releases from area occupants affected by construction is incidental to the Contract.
OTHER CONTRACTORS	**6**	
Coordination and Connection	6.2 6.2.1	***(Delete clause 6.2.1and replace with:)*** The Contractor shall, in accordance with usual construction practice, coordinate the Work with the Other Work and connect to Other Work as specified or shown in the Contract Documents. The Contractor shall not be entitled to additional payment or an extension of contract time for delays where connections to works were specified in the Contract.
CHANGES	7	
Optional Work	7.4 7.4.2	***(Add new clause 7.4.2 as follows):*** All items included in the Schedule of Quantities and Prices indicated as optional (Optional) shall be used only as directed and at the sole discretion of the Contract Administrator. All or any portion of these

sums shall revert to the City and shall be deducted from the Contract Price before final payment is made.

Items in the Schedule of Quantities and Prices with the unit of Provisional Sum (indicated by provisional) shall be used only as directed and at the sole discretion of the Contract Administrator. All or any of the unused portions of these sums shall revert to the City and shall be deducted from the Contract Price before final payment is made.

VALUATION OF CHANGES AND EXTRA WORK 9

Valuation Method 9.2.4 ***(Replace Clause 9.2.4 as follows):***
Once a quotation is accepted by the Contract Administrator, or other agreement reached between the Contract Administrator and the Contractor regarding adjustments to the Contract Price or Contract Time on account of a Change or Extra Work, the Contractor shall not be entitled to claim or receive additional payment, or adjustment to the Contract Time on account of a Change or Extra Work.

CONCEALED OR UNKNOWN CONDITIONS 11

Confirmation of Existing Utility Information 11.4 ***(Add new clause 11.4 as follows):***
Further to the requirements of the General Conditions, the Contractor shall expose and locate all existing utilities to be crossed prior to construction. Information shown on drawings is derived from existing record drawings and no responsibility is implied or assumed by the City or Consultants who prepared the designs as to the location, accuracy or omissions.

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

DELAYS **13**

Delay by Owner or Contract Administrator 13.1.2 ***(Add new Clause 13.1.2 as follows):***
The Owner may at any time suspend the work or any portion thereof provided he gives the Contractor five (5) days' written notice of delay. The Contractor shall resume work upon written notice from the Owner, The Contractor shall be entitled to:

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

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

Direction to Stop or Delay 13.7.3 ***(Add new Clause 13.7.3 as follows):***
The Contract Administrator may order the Contractor to stop work if at any time the Contract Administrator is of the opinion that there exists a danger to life or property.

Liquidated Damages for Late Completion 13.8.1 ***(Delete Clause 13.8.1(a) and replace with):***
a) as a genuine pre-estimate of the *Owner's* increased costs for the *Contract Administrator* and the *Owner's* own staff caused by such delay an amount of $500.00 per day or pro rata portion for each calendar day that actual *Substantial Performance* is achieved after the *Substantial Performance Milestone Date*; plus

PAYMENT **18**

Preparation of Payment Certificate 18.1.1 ***(Delete 18.1.1 and replace as follows):***
The Contract Administrator shall prepare and issue a certificate for the period ending the last calendar day of the month.

Substantial Performance 18.6.5 ***(Delete Clause 18.6.5 and replace as follows):***
The Owner will release any builders lien holdback on the 56th day following the date of Substantial Performance, or other date as required by law, but the Owner may hold back the amounts for any deficiencies or filed builders liens as provided in GC 18.4.2, GC 18.4.3 and 18.4.4.

18.6.6 ***(Replace Clause 18.6.6 as follows):***
The *Contract Administrator*, as defined herein, shall be the *Payment Certifier* responsible under Section 7 of the *Builders Lien Act* for certifying *Substantial Performance* of the *Work* of the *Contractor*, but not the *Work* of *Subcontractors*. The *Contractor* shall cooperate with and assist the *Contract Administrator* by providing information and assistance in as timely manner as the *Contract Administrator* considers necessary to carry out the duties of the *Payment Certifier* for the *Contract*.

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

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

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

Environmental Laws 20.4.2 ***(Add new Clause 20.4.2 as follows):***

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

- All work must be undertaken and completed in such a manner as to prevent the release of silt, sediment or sediment-laden water, raw concrete, concrete leachate, or other deleterious substance into the water courses (including, but not limited to the watercourse at Hyde Creek);
- Silt fences must be erected and maintained around all construction areas;
- All work must be undertaken and completed in isolation of all flowing water to maintain downstream water quality, and unrestricted flows;
- The guidelines for sediment and erosion control outlined in the jointly published BC Environment/Fisheries and Oceans Canada document "Land Development Guidelines For the Protection of Aquatic Habitat" must be adhered to;
- All work must be carried out during favorable and low water conditions;
- All equipment and machinery must be in good working condition (power washed), free of leaks or excess oil and grease. No equipment refuelling or servicing shall be undertaken within a minimum of 30 metres of any water course or surface water drainage;
- A spill containment kit must be readily accessible on site**. Any spill of reportable quantities must be immediately reported to the Provincial Emergency Program's 24 hour phone line at 1-800-663-3456**;
- Machinery must not enter the watercourses;
- Any fill used on this project shall be certified inert and from a source which is confirmed to be free of contaminants;

WORKERS COMPENSATION REGULATIONS **21**

Workers Compensation Regulations 21.4 ***(Add new clause 21.4 as follows):***

All works shall be in strict compliance with WCB Industrial and Safety Regulations Section 24 when working near or under any overhead power lines.

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

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

Introduction 24.1 Importance of Prompt Attention to Insurance and Bond Requirements:

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

24.1.2 Format of the Supplementary General Conditions:

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

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

General 24.2 **Supplementary General Conditions Forming Part of the Contract:**

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

24.2.2 **Acceptable Insurance Carriers:**

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

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

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

24.2.4 **Delivery of Insurance Documents:**

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

24.2.5 **Owner's Right to Insure:**

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

Procedure Respecting Tendering

24.3 **Security Deposit:**

24.3.1

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

24.3.2 **Certificate of Compliance:**

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

Procedure Respecting Contract Insurance and Bonding

24.4 **General Conditions:**

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

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

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

Indemnity

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

24.4.2 **Bonds:**

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

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

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

24.4.3 **Public Liability Insurance**
(Other than Automobile Third Party Liability Insurance):

Evidence of Insurance

The Contractor shall deposit with the Owner, before the work commences, a Certificate of Insurance, signed by an authorized representative of the insurer and such certificate to be as shown in Appendix III.

Effective Dates and Terms:

The effective date of the Certificate of Insurance shall be the date of the execution of the Contract Agreement and the term of this policy shall be from such effective date until a date not less than twelve (12) months after the date of completion of all work under the Contract.

Limits of Liability:

For bodily injury and for property damage shall be inclusive limits not less than $5,000,000.

24.4.4 **Public Liability Insurance (Automobile):**

The Contractor shall deposit with the Owner before the work commences a Certificate of Insurance with respect to owned automobiles on ICBC Form No. APV 47 entitled "Confirmation of Insurance Coverage" and with respect to Non-Owned Automobiles including hired automobiles and Contractual Liability on ICBC non-owned automobile policy Form APV 29 (if non-owned automobile coverage is not included under the comprehensive general liability coverage) each signed by an authorized representative of the Insurance Corporation of British Columbia.

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

24.5 **Responsibility for Placing Insurance:**

24.5.1 The types of insurance required under this section will be provided and maintained at the expense of the City of Coquitlam during the term of the Contract and will be as follows unless otherwise changed by specific endorsement to these Insurance Specifications.

24.5.2 **Insurance Coverage Required:**

Builders Risk Completed Value "All Risks" Course of Construction Insurance. This policy will be written in the names of the City of Coquitlam and the Contractor with loss payable as their respective interests may appear.

24.5.3 **Responsibility of Contractor – Limitations of cover and deductibles:**

The insurance provided by the City of Coquitlam as described herein will not provide the Contractor with full protection against any and all kinds of loss or damage which may arise out of the Contract. It is, therefore, the responsibility of the Contractor to fully understand the scope of the cover provided with particular attention to the exclusions, limitations of cover and deductible provisions contained in the Insuring Agreements of the policies and it is further the responsibility of the Contractor to take

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

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

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

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

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

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

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

24.5.7 **Liability of Contractor:**

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

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

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

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

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

24.5.10 **Further responsibility of Contractor:**

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

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

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

The Owner will not be responsible for securing or paying for insurance of any kind other than as specified in Section 24.5 of these specifications nor will the Owner have any responsibility whatsoever for loss or damage from whatever cause occurring to property owned, leased, or otherwise in the possession of the Contractor, subcontractors or their employees including, without restricting the generality of the foregoing, machinery, equipment, tools, supplies, and clothing at the construction site or elsewhere including loss of use of same.

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

- The City of Coquitlam

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

MAINTENANCE PERIOD **25**

Correction of Defects 25.1 ***(Add new Clause 25.1.4 as follows):***

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

TERMINATION FOR REASONS OTHER THAN DEFAULT **27** ***(Add new Section 27 as follows):***

27.1 Notwithstanding any other provision of the contract, the Owner may at any time, upon giving thirty (30) days written notice to the Contractor, terminate the Contract.

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

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

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

APPENDIX I

PERFORMANCE BOND

No. _____ $_____

KNOW ALL MEN BY THESE PRESENTS THAT

_____
As Principal, hereinafter called the Principal, and

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

_____
As Obligee, hereinafter called the Obligee, in the amount of

_____Dollars
($)

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

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

day of 2012 , 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 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 2012.

SIGNED, SEALED AND DELIVERED)
in the presence of:)
)
)
)
)
)
)
)

_____
PRINCIPAL

_____
SURETY

_____

APPENDIX II

LABOUR AND MATERIAL PAYMENT BOND
(Private Contracts - Trustee Form)

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

KNOW ALL MEN BY THESE PRESENTS THAT

_____
As Principal, hereinafter called the Principal, and

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

_____
As Trustee, hereinafter called the Obligee, for the use and benefit of the Claimants, their and each of their heirs, executors, administrators, successors and assigns in the amount of
_____Dollars
($) lawful money of Canada, for the payment of which sum well and truly to be made, the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns jointly and severally, firmly by these presents.

SIGNED AND SEALED this day of 2012.

WHEREAS, the Principal has entered into a written contract with the Obligee dated the
day of 2012, for
_____
_____

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

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

1. A Claimant for the purpose of this Bond, is defined as one having a direct contract with the Principal for labour, material, or both, used or reasonably required for use in the performance of the Contract, labour and material being construed to include the part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment directly applicable to the Contract provided that a person, firm or corporation who rents equipment to the Principal to be used in the performance of the Contract under a contract which provides that all or any part of the rent is to be applied towards the purchase price thereof shall only be a Claimant to the extent of the prevailing industrial rental value of such equipment for the period during which the equipment was used in the performance of the Contract. The prevailing industrial rental value of equipment shall be determined, insofar as it is practical to do so, in accordance with and in the manner provided for in the latest revised edition of the publication of the Canadian Construction Association entitled "Rental Rates on Contractors' Equipment" published prior to the period during which the equipment was used in the performance of the Contract.

2. The Principal and the Surety hereby jointly and severally agree with the Obligee as Trustee that every Claimant who has not been paid as provided for under the terms of his contract with the Principal before the expiration of a period of ninety (90) days after the date on which the last of such Claimant's work or labour was done or performed or materials were furnished by such Claimant, may as a beneficiary of the trust herein provided for, sue on this Bond, prosecute the suite to final judgment for such sum or sums as may be justly due to such Claimant under the terms of his said contract with the Principal and have execution thereon. Provided that the Obligee is not obliged to do or take any act, action or 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 Obligee or by joining the Obligee 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 Obligee against all costs, charges and expense or liabilities incurred thereon and any loss or damage resulting to the Obligee 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 Obligee 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 Obligee, stating with substantial accuracy the amount claimed. Such notice shall be served by mailing the same by registered mail to the Principal, Surety and Obligee 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

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: Named Insured and Mailing Address:

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

B. CONTRACT NUMBER AND/OR NAME Description of the Work:

C. INSURANCE POLICY

(a) Name of Insurer:
Policy Number: Liability Limit:
Effective Date: Expiry Date:

D. INSURANCE COVERAGE

(b) **COMMERCIAL GENERAL LIABILITY** coverage is required to insure against liability from the activities arising out of operations or work in connection with the above-described project, including liability arising out of the use of City property.

D.1 The minimum limit shall be $5,000,000.00 inclusive per occurrence against bodily injury, personal injury and property damage.

D.2 The City of Coquitlam, its employees, officers, agents and volunteers are added as Additional Insureds, but only with respect to operations conducted by or on behalf of the Named Insured in connection with the above-described project, operations or work.

D.3 This insurance shall be primary as regards the City of Coquitlam, its employees, officers, agents and volunteers as Additional Insureds.

D.4 Any deductible or reimbursement clause contained in the policy shall not apply to the City of Coquitlam and shall be the sole responsibility of the Named Insured.

D.5 The insurance shall include the following coverages:

D.5.1 Cross Liability Clause
D.5.2 Non-Owned Automobile Liability
D.5.3 Unlicensed Automobile Liability
D.5.4 Blanket Contractual Liability
D.5.5 Broad Form Property Damage Liability
D.5.6 Owner's & Contractor's Protective Liability
D.5.7 Products & Completed Operations Liability

D.6 Indicate provision of special coverage for this project as required by the City:

YES	NO	Special Coverage Description
( )	( )	Shoring and Underpinning Hazard
( )	( )	Pile Driving and Vibrations
( )	( )	Excavation Hazard
( )	( )	Demolition
( )	( )	Blasting

D.7 ( ) ( ) **PROFESSIONAL LIABILITY INSURANCE for Consultant Service Agreements**

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

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

Authorized Signature and Stamp

Date Name and Title

City' broker to return to City Representative Department

APPENDIX IV

PRIME CONTRACTOR DESIGNATION

Coq. File: 11-5330-20/89012/1

To: **City of Coquitlam**
Subject: **Prime Contractor Designation**
Contract: **89012A**
Project: **Ebert Ave. & Robinson St. Watermain Replacements**

With respect to workplace safety for this *Contract,* we, as *Contractor,* are the prime contractor for the construction site and as such take on the responsibility of coordinating workplace safety as detailed in Section 118 of the Workers' Compensation Act.

Contractor Name & Address:

_____

_____

_____

_____

_____ _____
Authorized Signature *Date*

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

Supplementary Specifications

SUPPLEMENTARY
SPECIFICATIONS INDEX ..... SS 1

DIVISION 1 – GENERAL REQUIREMENTS

01000S Contract Specific Instructions and Notations ..... SS 2 to SS3
01561S Environmental Protection ..... SS 4
01570S Traffic Regulation ..... SS 5
01721S Project Record Documents ..... SS 6

DIVISION 2 - SITE WORK

02104S Shrub and Tree Preservation ..... SS 7
02111S Clearing and Grubbing SS8
02223S Excavating, Trenching and Backfilling ..... SS 9
02233S Granular Base SS10
02234S Granular Subbase ..... SS 11
02512S Hot-Mix Asphalt Concrete Paving ..... SS 12
02523S Concrete Walks, Curbs & Gutter ..... SS 13
02666S Waterworks ..... SS 14 to SS 18
02721S Storm Sewer ..... SS 19
02725S Manholes and Catchbasins ..... SS 20
02921S Topsoil and Finish Grading ..... SS 21
02938S Sodding ..... SS 22

1.00 Contract Specific Instructions

1.01 Coordination with Others

Major Roads & Community Corridor Roads are bus routes; therefore the Contractor shall be responsible to consult with the Coast Mountain Bus Company regarding delays, detours, temporary bus stop closures and any other works affecting the transit service in the area. All water main or water service shut-offs must be coordinated with those affected at lease 48 hrs prior to shut-off.

1.02 Outside Agency Approval

In accordance with the Contract Documents, the Contractor is responsible to consult with and/or obtain any approvals required from any outside agency such as BC Hydro, Telus, Kinder Morgan, and Terasen Gas in the area of the place of Work.

The contractor is responsible to verify the depth of all outside agency utilities by hand digging or by Hydro-Vac in the presence of the utility Inspector

1.03 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
- Waste Management (garbage pick-up)
- City Utilities Maintenance (or representatives)

1.04 Lane Closure Restrictions

The following lane closure restrictions shall apply:

Minimum of a single lane of traffic shall be maintained at all times for Local Traffic only.

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 unit prices bid in the Schedule of Quantities and Prices.

1.05 Hours of Work

The hours of work shall be :

Monday to Friday: 0700 hours to 1900 hours inclusive
Saturday: 0900 hours to 1800 hours inclusive

Written permission from the Contract Administrator will be required for any works to be performed on a Sunday.

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.

1.06 Utility Adjustments - City Infrastructure and for Other Agencies

The Contractor is responsible for adjusting all utilities, belonging to Coquitlam and other agencies, that are affected by the roadworks. All adjustments to utilities must be completed to the satisfaction of the utility owner.

The Contractor should note that certain utility owners may decide to complete their own adjustments. If the owner decides to complete their own adjustments, the Contractor will not be compensated for these utility 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.

<u>All manholes must be vertically adjusted a minimum of twenty four (24) hours prior to paving</u>

1.07 Completion Date

The *Contractor* will achieve ***Substantial Performance* of the *Work* within thirty (30) working days of the Notice to Proceed,** subject to the provisions of the C*ontract Documents* for adjustments to the *Contract Time*. Should *Substantial Performance* not be achieved by this milestone date (Late completion), liquidated damages will be accessed at the amount as stated in section 13.8.1(a) of Supplementary General Conditions.

1.08 Survey Layout

The Contractor is responsible to provide all survey layout for construction to ensure the construction meets the design specifications and/or elevations as shown on the Contract Drawings or as amended on-site by the Contract Administrator.

1.09 Schedule of Work

All work under this project is to be completed within the designated Contract Duration. The Contractor must provide sufficient resources in a continuous effort and presence to complete all the work within the allotted time.

1.10 Site Safety

The Contractor is responsible to ensure the construction site is safe at all times for workers, pedestrians, and vehicle traffic. During non-working hours, the Contractor must ensure that the site has all potentially hazardous areas appropriately identified and protected, and also must provide appropriate signage, lighting, and markings for the direction of vehicle and pedestrian traffic, all to ensure the safety of the public.

1.11 Order of Construction

The contractor will be required to conduct the work in the order listed below, unless otherwise approved by Contract Administrator in advance:

1. Ebert water main replacement
2. Robinson water main replacement

1.12 Asphalt Pavement Restoration

The contractor will be required to backfill all trenches (in paved areas) with native backfill or import trench backfill where native backfill is not suitable (or as directed by the Contract Administrator) and place a hot mix asphalt patch ,as per Contract Drawing Details, immediately upon completion and compaction of the pipe trench.

1.13 Pre-locate Existing Utilities & Service Connections

The contractor is responsible to pre-locate and verify the depths of all existing utilities & services to be crossed, by hand digging or by Hydro-Vac, prior to commencing construction.

Information shown on drawings is derived from existing record drawings and no responsibility is implied or assumed by the City or Consultants who prepared the designs as to the location, accuracy or omissions.

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

Payment for pre-locating all utilities shall be incidental to this contract and shall include all equipment, labour & materials to complete the works.

2.0 Quality of Work

2.1 Quality

The Contractor shall provide a final product conforming in quality and accuracy of detail to the dimensional and tolerance requirements of the contract. Where no tolerances are specified in the Contract Documents, the standard of workmanship shall be in accordance with current, normally accepted good practice.

Payment for works may be subject to adjustments based on quality assurance tests performed by the Contract Administrator

2.2 Quality Control & Testing

The Contractor is fully responsible for quality control of the production and construction processes. Quality control tests shall be performed by the Contractor to ensure that the product meets the contract specifications.

For the purposes of this contract, this includes but is not limited to, trench compaction tests at a frequency rate of 1 test/ 30 lm / 0.5 m depth of trench or portion thereof.

Any non-conformance to the specifications is to be reported by the Contractor to the Contract Administrator immediately with a proposed corrective action.

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.

Failure by the Contractor to conduct adequate quality control testing during 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

2.3 Quality Assurance

The Contract Administrator will be responsible for Quality Assurance (QA) and work acceptance. The purpose of the QA activities is to assure that specifications are being met and to ensure that payment is made only for acceptable works in place.

The Contract Administrator shall monitor the Contractor's operations and product to ensure that the project Work is completed to the required specifications.

END OF SECTION

01561 Environmental Protection

1.3 Drainage

1.3 ***(Replace Clause 1.3 as follows):***

"1.3 Drainage, Erosion and Sediment Control"

"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. 3447, 2001 during construction and until the maintenance period is completed (see below). 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 deems necessary.
Follow all Federal and Provincial regulations and guidelines respecting protection of fish, fish habitat, and watercourses.

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

1.6 Pollution Control

1.6 ***(Add New Clauses as follows):***

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

1.7 Measurement for Payment

1.7 ***(Replace Clause 1.7 as follows):***

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

1.9 Archaeological/Historical Resources

1.9 *(Add New Clause 1.9.1 as follows):*

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

END OF SECTION

1.0 GENERAL

1.0.5 ***(Add clause 1.0.5 as follows):***
The contractor is responsible for all temporary traffic control on the streets within this contract. The contractor will be responsible to provide a traffic management plan for approval (5) five working days prior to any lane closures taking place. The plan will be adjusted and negotiated with all concerned parties.

1.5 Measurement for Payment

(Replace Clause 1.5 as follows):
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

1.3 Submission

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

END OF SECTION

1.3	**Measurement for Payment**	1.3	***(Replace Clause 1.3 as follows):*** Payment for all work performed under this section will be incidental to payment for work described in other Sections.
2.1	**Materials**	2.1.10	***(Add New Clause 2.1.10 as follows):*** Protective Fencing: Posts - Pressure treated wood 100 mm dia.; Post to be 1.8m to 2.0m in height at 2.0m O.C. Snowfence - Dupont L-70 or approved equivalent; Flagging Tape - 4" Orange glow - 'Tree Retention Area'.
3.0	**Execution**	3.0.1	***(Add New Clause 3.0.1 as follows):*** The Contractor is responsible to minimize damage to all trees which are to remain.
		3.0.2	***(Add New Clause 3.0.2 as follows):*** The Contractor will be responsible for all claims and costs including the cost of examination by an Arborist, repair, removal and replacement of trees, as required by the Arborist and the Contract Administrator for tree damage where proper notification was not received from the Contractor. Damage will be assessed based on the International Society of Arboriculture Guidelines. The term shall be for a period of one year following the date of Total Performance of the contract work.
3.1	**Existing Trees**	3.1.7	***(Add New Clause 3.1.7 as follows):*** Place protective fencing/barricades as detailed on Standard Drawing COQ-R23 and COQ-R24. Contractor shall maintain fence in good condition during construction.
		3.1.8	***(Add New Clause 3.1.8 as follows):*** When work is to be performed inside fenced areas, Contractor shall take care to avoid damage to existing vegetation. Work to be done inside areas of existing vegetation to be retained includes: .1 Removal of isolated trees as directed by Contract Administrator. .2 Selective pruning and tree removal at edges to create tidy and well shaped forest edge. .3 Placing planting soil and planting of trees.
		3.1.9	***(Add New Clause 3.1.9 as follows):*** Do not park, service or fuel vehicles within the vegetation retention areas.
3.4	**Pruning**	3.4.2	***(Add New Clause 3.4.2 as follows):*** Do not cut roots or branches of retained trees without approval of Contract Administrator.

END OF SECTION

1.4 Measurement and Payment

1.4.2 ***(Replace Clause 1.4.2 as follows):***

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

END OF SECTION

1.3	**Definition**	1.3.2	***(add to Clause 1.3.2):*** "asphaltic concrete"
3.6	**Surface Restoration**	3.6.2.4	***(Delete Clause 3.6.2.4 and replace as follows):*** Restore lawns with approved topsoil and sod to match existing lawn.
		3.6.3.1	***(Delete Clause 3.6.3.1 and replace as follows):*** Restore surface with minimum 100mm of 19mm granular road base material.
		3.6.7.5	***(Delete Clause 3.6.7.5 and replace as follows):*** Restore pavement as detailed within this Contract. Permanent pavement patch should be to a minimum thickness of 75mm.
1.10	**Measurement for Payment**	1.10.3	***(Replace Clause 1.10.3 as follows):*** Payment for over excavation including supply, placement and compaction of 75mm minus import granular 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.
		1.10.9	***(Add Clause 1.10.9 as follows):*** Payment for supply, backfilling and compaction to 95% modified proctor density with imported backfill (granular subbase to Section 02234). Payment to include removal and disposal of the unsuitable excavated native material. Measurement of volume placed is limited to the trench section only and the width of the measurement will not exceed the maximum trench width as defined in the contract documents unless noted otherwise and the depth of the measurement will be for the portion above the pipe zone and below the subbase. Payment for import trench backfill will be made 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.

END OF SECTION

1.4	1.1MEASUREMENT AND PAYMENT	1.4	***(Delete Clause 1.4 and replace as follows):*** .1 Measurement for granular base of variable thickness will be for actual quantity placed based on weigh tickets provided to Contract Administrator as loads are delivered. .2 Measurement for granular base for each specified thickness will be for the actual area placed. .3 Payment for Subsection 1 & 2 above includes supply, placement and compaction of granular base material, adjustment of moisture content, and boning to establish the road cross-section, shall be incidental to payments for work described in other Sections. .4 Payment for removal of unsuitable subgrade including disposal off-site prior to direct placement of granular base shall be incidental to payments for work described in other Sections.

END OF SECTION

1.4	1.2MEASUREMENT AND PAYMENT	1.4	***(Delete Clause 1.4 and replace as follows):*** .1 Measurement for granular base of variable thickness will be for actual quantity placed based on weigh tickets provided to Contract Administrator as loads are delivered. .2 Measurement for granular base for each specified thickness will be for the actual area placed. .3 Payment for Subsection 1 & 2 above includes supply, placement and compaction of granular base material, adjustment of moisture content, and boning to establish the road cross-section, shall be incidental to payments for work described in other Sections.. .4 Payment for removal of unsuitable subgrade including disposal off-site prior to direct placement of granular base shall be incidental to payments for work described in other Sections..
2.1	**Specified Materials**	2.1.1.1	***(Delete Clause 2.1.1.1):*** Select granular subbase
		2.1.1.2	***(Delete Clause 2.1.1.2):*** 75mm pit run gravel
		2.1.1.4	***(Delete Clause 2.1.1.4):*** pit run sand
		2.1.1.5	***(Delete Clause 2.1.1.5):*** approved native material

END OF SECTION

1.1	**Related Work**	1.1	***Add new clause to 1.1:*** ".6 Roadway Excavation, Embankment & Compaction .....Section 02224" ".7 Manholes and Catch Basins.....Section 02725"
1.5	**Measurement and Payment**	1.5.1	***(Delete Clause 1.5.1 and replace as follows):*** Payment for asphaltic concrete paving includes all construction joint preparation, asphaltic surface milling to tie into existing asphalt, supply and placing of the asphaltic concrete, compaction and cleaning frames, covers and lids of castings affected and taped temporary pavement markings Measurement for asphaltic concrete paving for the specified design mixes for lower and upper courses shall be for asphalt concrete actually incorporated into the work based on weigh tickets provided to the Contract Administrator as loads are delivered. 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 and Machinery to complete the Hot Mix Asphaltic Paving around Utility Poles, Slot Paving and etc. as shown on the Contract Drawings or as directed by the Contract Administrator.
1.6	**Inspection and Testing**	1.6.2	***Add Clause 1.6.2 as follows:*** Test cores will 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 density and compaction.
2.2	**Mix Design**	2.2.3.2	Change Marshall Stability for both lower and upper course to "10 kN min".
3.7	**Joints**		***Delete Clause 3.7.5 and add):*** "Construct butt joints as directed in the field by the Contract Administrator."

END OF SECTION

3.9 Expansion Joints

3.9.1 ***(Delete Clause 3.9.1 and replace as follows):***
Form transverse expansion joints at both ends of curb returns and at a maximum spacing of 9m for sidewalks, 9m for curb and gutter, at each end of driveway crossings and at tangent points on circular work.

3.9.4 ***(Delete Clause 3.9.4 and replace as follows):***
Bond break compound may be used in lieu of expansion joint between sidewalk and back of abutting utility strip or sidewalk infill.

END OF SECTION

1.8 Measurement for Payment

1.8.1 ***(Add to Clause 1.8.1 as follows):***
Refer to Coquitlam Supplementary Detail Drawings where applicable.

1.8.2 ***(Delete Clause 1.8.2 and replace as follows):***
Payment for watermain will include location and exposure of existing utilities, support of utility poles and adjacent piping, removal & reinstatement of catch basins, sawcutting or grinding of asphalt and disposal off-site, saw cutting and disposal of concrete (sidewalks, curb and gutters, driveways, etc.), trench excavation, dewatering, disposal of unacceptable excavated material, bedding, supply and installation of pipe, bolts, gaskets, thrust blocks, couplings (Robar 1506), restraints and tie rods, approved native excavated backfill material compacted in place, cleaning, pressure and leakage testing, flushing, disinfection where required, granular sub-base, granular base, temporary asphalt patch, all surface restoration as specified under Section 02223 – Sub-section 3.6, and all other work and materials necessary to complete installation as shown on Contract Drawings and specified under this Section

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

Native excavated material approved for re-use as trench backfill shall have all cobbles greater than 150 mm diameter removed and disposed off-site and shall be granular in nature and free from organic materials. Native excavated material shall not be used as trench backfill where moisture content does not permit compaction to specified density. Where native excavated material is unacceptable for use as trench backfill, imported trench backfill shall be supplied, placed, and compacted to specified density. Payment for imported trench backfill will be made under Section 02223 – Sub-section 1.10.9.

1.8.3 ***(Delete Clause 1.8.3 and replace as follows):***
Payment for inline gate valves or butterfly valves including valve boxes; and for fittings (crosses, tees, bends, reducers, blind flanges, caps and etc) will be made for items identified on Contract Drawings and installed as part of watermain as described under 1.8.2 in this Section.

Measurement will be for each respective item installed without deduction of length of valves and fittings from length of pipe measured for payment under 1.8.1 and 1.8.2 in this Section.

No payment will be made under this item for capping an existing main as part of the operation for watermain tie ins.

1.8.4.1 ***(Delete Clause 1.8.4 and replace as follows):***
Payment for removal of the existing hydrant includes excavation, removal of the hydrant body, barrel, boot, upper operating rod, valve box, cover and riser pipe, capping of the lead and all surface restoration as indicated in the requirements in 1.8.2 of this Section and all other incidental work necessary. Deliver the old hydrant to the City of Coquitlam.

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

1.8.4.2 ***(Add Clause 1.8.4.2 as follows):***
Payment for new hydrants installed on the new Main includes the hydrant body, c/w Storz "quick connect" pump nozzle, lateral connections from mainline tee off watermain to hydrants, all new pipes, integral isolation gate valve, valve box & cover, valve stem riser pipe, bends, couplings (Robar 1506), any necessary pipe extensions to achieve the required hydrant height, concrete thrust block, tie rods, bedding material, testing and disinfection, surface restoration as indicated in the

requirements in 1.8.2 of this Section and all other incidental work as shown on Standard Detail Drawing W3 & W4. (Mainline tee and mainline valve payment under separate section).

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

1.8.4.3 ***(Add Clause 1.8.4.3 as follows):***
Payment for connecting existing hydrant to new Main shall include all new pipes, isolation gate valve, valve box and cover, bends, couplings (Robar 1506), any necessary pipe extensions, concrete thrust block, tie rods, bedding material, testing and disinfection, all removals and surface restoration and all other incidental work necessary to reconnect the existing fire hydrant. (Mainline tee payment under separate section).

Payment for this item includes the installation of a Storz "quick connect" pump nozzle on the existing hydrant.

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

1.8.5.1 ***(Delete Clause 1.8.5. and replace as follows):***
Payment for 19mm service connection includes, removal and disposal of concrete meter box, curb stop, piping and meter (where applicable), supply and installation of mainline double strap saddles, corporation stops, reconnecting to the existing main using a MacDonald 6130 compression coupling (where specified) or connecting to a new main, service pipes and all related fittings and appurtenances specified and/or shown on City of Coquitlam Standard Drawing W2b_a or Standard Detailed Drawing W2b (except where noted) and reconnecting to the existing service at or near property line or as shown on the Contract Drawings including any fittings and repair couplings. Payment also includes all applicable work described in 1.8.2.

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

Measurement and payment for curb stops with Nelson Box and Risers will be made at the unit price bid for each box assembly installed.

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

1.8.5.2 ***(Add Clause 1.8.5.2 as follows):***
Payment to transfer existing services to a new main includes locating and cutting the existing service supply and installation of mainline double strap saddles, corporation stops, service pipes, fittings and repair couplings, at locations shown on the Contract Drawings. Payment also includes all applicable work described in 1.8.2.

Measurement and payment for reconnecting existing service connections will be made at the unit price bid for each existing service reconnected the new water main.

1.8.6.3 ***(Add Clause 1.8.6.3 as follows):***
Payment for the installation of an Air Valve assembly and chamber on a new main includes all materials, works and appurtenances as shown on City of Coquitlam Contract Drawings, "Air Release Valve" detail, sheet 4 of 4.
Payment includes all applicable work described in 1.8.2

Measurement and payment will be made at the lump sum price bid for each air valve assembly and chamber installed.

Payment for test points is considered to be incidental to payment for work described herein.

1.8.12 ***(Delete Clause 1.8.12 and replace as follows):***
Payment for under pressure branching (Wet Tap) includes branch saddle with integral isolation valve, special under pressure branching equipment, supply and install all pipe make up pieces, couplings (Robar 1506) caps, restraints, tie-rods, and bolts as detailed on the Contract Drawings, cutting and disposal of the existing mains, permanent capping, removal of any decommissioned valves boxes, temporary fittings to provide service changeovers and coordinating all tie-in works with City Staff. Payment will be made on a per Lump Sum basis for each tie-in. Payment for fittings such as tees, line valves, bends and reducers will be made under 1.8.3.

1.8.14 ***(Delete Clause 1.8.14 and replace as follows):***
Payment for all tie-ins to existing watermains will include all pipe materials, fittings, test points, thrust blocks, excavation to expose the existing main to confirm location, grade, size, material & condition and prepare the existing watermains, couplers (Robar 1506), caps, restraints, tie-rods, and bolts as detailed on the Contract Drawings, cutting and disposal of the existing mains, permanent capping, temporary fittings to provide service changeovers and coordinating all tie-in works with City Staff. Payment will be made on a per Lump Sum basis for each tie-in.

1.8.15 ***(Add Clause 1.8.15 as follows):***
Payment for decommissioning valves includes valve box removal, backfilling riser pipe per contract drawings, compacting base, boulevard restoration, or saw cutting and restoring surface with full depth asphalt patch. (100mm).

Measurement and payment for this item will be made at the unit price bid for each valve box removed.

2.2 Mainline Pipe, Joints And Fittings

2.2.1.1 ***(Replace Clause 2.2.1.1 as follows):***
Pipe: to AWWA C151, and shall meet the following Pressure Class or Thickness Class:
- 100mm – 350mm – Thickness Class 50
- 400mm & greater – PC 350

2.3 Valves and Valve Boxes

2.3.1.3 ***(Replace Clause 2.3.1.3 as follows):***
Valves 400 mm and larger to be butterfly valves.

2.3.4 ***(Replace Clause 2.3.4 as follows):***
Blowdown or Blow-Off Valves: 50 mm to 300 mm as specified for mainline gate valves.

2.3.6.1.1 ***(Delete Clause 2.3.6.1.1 and 2.3.6.1.2 and replace as follows):***
2.3.6.1.2 Circular type valve box shall be Nelson Style.

2.3.7.1 ***(Delete Clause 2.3.7.1 and 2.3.7.2 and replace as follows):***
2.3.7.2 Service valve boxes shall be as shown in Standard Detail drawing W2b. The circular type valve box shall be Nelson Type.

2.3.7.3 ***(Delete Clause 2.3.7.3 and replace as follows):***
Curb stop valve boxes (300 mm from property line) alternative on 19 mm dia. to 38 mm dia. services without operating rods to be assembled as specified for Mainline Valve Boxes - 2.3.6.1.2 and 2.3.6.2. and shown on Standard Detail Drawing W2b.

		2.3.7.5	***(Delete Clause 2.3.7.5 and replace as follows):*** Corporation stop valve boxes (at mainline tees or tappings) on services 50mm diameter and larger as specified for Mainline Valve Boxes per City of Coquitlam Standard Drawing COQ-W2E and COQ-W2F.
2.5	**Service Connections, Pipes, Joints and Fittings**	2.5.1	***(Delete Clause 2.5.1 and replace as follows):*** Pipe diameter 19 mm to 75 mm to be Type K annealed copper to ASTM B88M.
2.6	**Hydrants**	2.6.6.3	***(Delete Clause 2.6.6.3 and replace as follows):*** Pump nozzle shall be Terminal City STORZ "quick connect" Adapter
2.8	**Granular Pipe Bedding and Surround Material**	2.8.3	***(Add Clause 2.8.3 as follows):*** Shall conform to Type 2 gradation.
3.6	**Pipe Installation**	3.6.11	***(Add Clause 3.6.11 as follows):*** When the water main crosses a storm or sanitary sewer, the water main shall be installed a minimum 0.5 m clear above the sewer. Where this is not possible, the water main shall have a minimum 0.3 m clearance under the sewer with all joints within a 3.0 m horizontal distance from the sewer wrapped with heat shrink plastic or packed and wrapped with petrolatum tape in accordance to the following standards: - ANSI/AWWA C214 (factory applied) - ANSI/AWWA C209 (field applied) - ANSI/AWWA C217-90 (petrolatum tape) - All materials used are to have zero health hazard Installation shall be in accordance with the requirements of the Regional Health Engineer under the Health Act.
		3.6.12	***(Add Clause 3.6.12 as follows):*** Prior to construction, the contractor shall locate and expose all utilities crossing the proposed water main, water services, tie in locations and any other proposed works.
3.10	**Service Connection Installation**	3.10.14	***(Add Clause 3.10.14 and replace as follows):*** Water service connections (19mm) must be installed as one continuous length of pipe.
3.12	**Hydrants**	3.12.1	***(Delete Clause 3.12.1 and replace as follows):*** Install hydrant assemblies at locations shown in the Contract Drawing Booklet. Standard off-set from property line shall be 1.0 metres or as directed by the Contract Administrator.
3.23	**Connections to Existing Mains**	3.23.1	***(Delete Clause 3.23.1 and replace as follows):*** Connections to existing waterworks systems will be made by the Contractor under the supervision of the Contract Administrator. Make all necessary arrangements with the Contract Administrator to schedule work to prevent construction delays.
		3.23.2	***(Add Clause 3.23.2 as follows):*** Provide written notification to all affected residents a minimum **48** hours prior to service interruption.
		3.23.3	***(Add Clause 3.23.3 as follows):*** Arrange shutdown of the existing valves by the City. Contractor shall not operate any valves without prior approval of the Contract Administrator.
		3.23.4	***(Add Clause 3.23.4 as follows):***

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

3.23.5 ***(Add Clause 3.23.5 as follows):***
Fittings used for tie ins should be cleaned of all foreign material and sprayed with a 1% hypochlorite solution prior to assembly. Disinfect all pipes and fittings installed at the connection.

3.23.6 ***(Add Clause 3.23.6 as follows):***
Contractor shall be responsible for the costs for the City to flush and purge all air from existing mains and services in the area affected by the service interruption.

3.23.7 ***(Add Clause 3.23.7 as follows):***
Procedure for Watermain Tie-ins Coliform Bacterial Testing

_Procedures for Bateriological Tests shall be as described in AWWA C651-99.

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

All samples shall be taken by the City Water Utility.

All valve operation shall be handled by the City Water crews.

The Contractor shall provide sampling points, one every 366m plus the end of each main segment. The Contractor shall provide all labour to temporarily connect and disconnect the new main in order to properly acquire test samples.

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

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

The Engineering inspector shall review with the Water Superintendant and the Contractor sampling locations and appurtenances.

The Engineering Inspector shall check and record chlorine residual prior to final flushing.

After final flushing the City Water crew will collect two sets of samples 24 hours apart. Samples will be taken from the City supply and at least every 366m of the new main as well as the terminus and all branches.

Test results will be delivered to the Water Foreman who will provide a copy of the Engineering Inspector.

The Water Superintendant will judge the adequacy of the test results and issue an authorization to connect.

City Water crews will provide shutdown and flushing as required.

END OF SECTION

1.6	**Measurement and Payment**	1.6.3	***(Delete Clause 1.6.3 and replace as follows):*** Payment for service connection includes tee to main line and all related fittings and components specified and/or shown on Standard Detail Drawing S8 and City of Coquitlam Contract Drawing W07. Payment includes all applicable materials and work described in 1.6.2. Measurement and payment for this service tie-in will be on a lump sum basis.
2.4	**Spiral Rib Pipe-Steel**	1.4	This section shall only apply where Spiral Rib Pipe-Steel is specified in the contract plans and specifications.
2.5	**Service Connections**	2.5.1	Replace 100mm diameter with 150 minimum diameter.
		2.5.8	***(Delete Clause 2.5.8 and replace as follows):*** Connections to ribbed PVC pipe to be made with a manufactured wye fitting where wye locations are known in advance. For connections to ribbed PVC mainline pipe larger than 450 mm an insertable tee for ribbed PVC pipe is permitted for connections more than two sizes smaller than mainline pipe. When an insertable tee is used, hole cut into mainline pipe to cut as few ribs as possible.
		2.5.11	***(Add Clause 2.5.11 as follows):*** .11 Insertable tee fitting shall have a rubber collar which inserts into the mainline pipe to form a tight seal and shall have stainless steel band to secure the tee insert. The tee insert shall be a standard bell end with depth control lugs.
		2.5.12	***(Add Clause 2.5.12 as follows):*** .12 Rubber couplings for gravity sewers shall have stainless steel shear bands along the body of coupling.
2.7	**Granular Pipe Bedding and Surround Material**	2.7.3	***(Add Clause 2.7.3 as follows):*** .3 Pipe bedding shall be 19 mm clear crushed rock or as approved by the Contract Administrator. Surround material above the springline within the pipe zone may be Type 2.
3.6	**Pipe Installation**	3.6.14	***(Add Clause 3.6.14 as follows):*** Test pipe in accordance with Section 02731 Clause 3.12.
3.8	**Connections to Existing Mainline Pipes**	3.8.5	***(Add Clause 3.8.5 as follows):*** Connections to existing mainlines 450 mm and smaller shall be made by removal of the section of the main and replacement with a manufactured PVC wye complete with stubs and double hub PVC couplings for PVC mains and approved shear band couplings for other mainline materials. Connections to existing concrete mainline and mainlines larger than 450 mm shall be made in accordance with this section and will be made using a core cutter. The contractor shall video inspect all connections to existing mains following completion of installation
3.10	**Service Connection Installation**	3.10.1	Install service connections to 3.6 and as shown on Standard Detail Drawing S8.
		3.10.5	***(Add Clause 3.10.5 as follows):*** Inspection chambers shall be provided on all storm service connections as per Standard Detail drawing S7

END OF SECTION

2.1	**Materials**	2.1.11	***(Delete Clause 2.1.11 and replace as follows):*** Catchbasin leads to be minimum 150 mm diameter PVC DR28. Catchbasin leads larger than 150 to be as specified for mainline.
3.3	**Manhole Installation**	3.3.15	***(Replace Clause 3.3.15 as follows):*** Install drop structures where required to Supplementary Detail Drawings Coq S4 and Standard Detail Drawings S3. Maximum allowable inside ramp shall be 250mm invert to invert.
3.5	**Catch basin Installation**		***(Delete Clause 3.5.1 and replace as follows):*** Install catchbasins as shown on Supplementary Detail Drawing Coq S11A, Coq S11B and Standard Detail Drawing S11, to standards and installation procedures described on 3.3.

END OF SECTION

1.1	**Related Work**	1.1.6	***(Add Clause 1.1.6 as follows):*** Shrubs & Tree Preservation Section 02104
1.3	**Source Quality Control**	1.3.2	***(Delete Clause 1.3.6 as follows):*** The Owner is responsible for the cost of initial testing of the planting soil. The Contractor shall submit the soil test results to the Contract Administrator for approval of the proposed material prior to placing of the planting soil on site. The test results shall determine soil amendment requirements. Testing shall be carried out by independent laboratory specializing in soil analysis.
2.1	**General**		***(Add Clause 2.1.2 as follows):*** All materials and execution shall conform to the latest edition of the BCSLA\BCNTA British Columbia Landscape Standard following standards or as otherwise specified herein .
3.4	**Placing Growing Medium**	3.4.6	***(Add Clause 3.4.6 as follows):*** Scarify soil, feather grades and remove noxious weeds from the edge of tree preservation areas.

END OF SECTION

3.2	**Sodding**	3.2.5	***(Delete Clause 3.2.5 and replace as follows):*** Lay sod smooth and flush with adjoining grass areas and paving and top surface of curbs unless shown otherwise on Contract Drawings. Ensure there is a full roll width between the new sod and adjoining surfaces. Small cut pieces from a full roll will not be accepted.
		3.2.12	***(Delete Clause 3.2.12 and replace as follows):*** Water sod area immediately with sufficient amounts to saturate sod and upper 100 mm of growing medium. Do not allow the sod to dry out so that the joints become visible.
3.5	**Conditions of Total Performance**	3.5.1.8	***(Add Clause 3.5.1.8 as follows):*** The prime consideration for acceptance of work of this section shall be the establishment of a dense, uniform cover of growth over 100% of all seeded areas.

END OF SECTION

Appendix A

Traffic Management Detail Specifications

1.0 GENERAL

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

1.1 Related Works

.1 Traffic Regulation MMCD Section 01570

1.2 References

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

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

1.3 Project Requirements

.1 A Lane 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 Lane Closure Permit form is attached as **Appendix 1** to this document. A digital copy of the Lane Closure Permit form can be obtained from the City for use during the contract.

A Lane Closure Permit form application must be submitted to City's Traffic Operation Division, five (5) working days prior to start of work.

1.4 Measurement and Payment

.1 All work associated with Traffic Management Plan (TMP) and Traffic Control are incidental to the Contract.

2.0 PRODUCTS

2.1 Traffic Management Plan

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

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

- .1 Identification of risks to traffic during the Work;
- .2 Traffic Control Plans for individual stages or sections of the construction;
- .3 Incident Management Plan for the response to an unplanned event and recording of incident information.

.3 Submission of the TMP is to be made to the *Contract Administrator* within five (5) days of the *Notice of Award* of the *Contract*, and must be approved by the *Contract Administrator*

prior to start of the *Work*.

.4 Review of the TMP will be performed by the Contract Administrator. Comments for revisions to the TMP will be returned to the *Traffic Manager* for implementations.

.5 The Contractor shall comply with all the requirements of applicable laws, rules, regulations, codes and orders of the municipal and other appropriate authorities concerned with work on streets or highways and shall post proper notices and/or signals, and provide necessary barriers, guards, lights, flagmen or watchmen as may be necessary for proper maintenance of traffic and protection of persons and property from injury or damage. All costs involved in respect to the above requirements will be deemed to be included in the Contract Price.

.6 The Contractor shall give due notice to local police and fire departments prior to beginning construction and shall comply in all respects with their requirements.

.7 The Contractor, during the progress of the work, shall make adequate provision to accommodate the normal traffic along streets and highways immediately adjacent to or crossing the work so as to cause the minimum of inconvenience to the general public.

.8 The Contractor is required to maintain local traffic and driveway access during all stages of construction. This includes maintaining a 1.5m width walkway or pathway through the construction site for pedestrians.

.9 Where existing streets or roads are not available as detours, all traffic shall be permitted to pass through the work with as little inconvenience and delay as possible unless otherwise provided or authorized by the Contract Administrator. If half the street only is under improvement, the other half shall be conditioned and maintained as detour.

2.2 Incident Management and Reporting

.1 The Contractor shall facilitate incident response vehicles and staff and move traffic safely and expeditiously through or around an incident on site and provide assistance to emergency response personnel as required. An incident includes, but is not limited to, motor vehicle accidents, emergency road repairs, disabled vehicles, and debris on the road. The immediate response to an emergency shall by necessity make use of available devices and equipment.

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

2.3 Traffic Control Plans

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

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

.2 The Contractor shall prepare weekly the anticipated traffic control activities, locations, and durations for the upcoming week.

.3 Permissible delays shall only be considered outside Peak Hours. Permissible delays are categorized as follows:

a) Minor Delays - Less than two (2) minutes in duration; for occasional interruption due to construction activities. These delays shall be coordinated with available breaks in the traffic flow.
b) Major Delays - Maximum ten (10) minutes in duration; for occasional interruption of traffic for construction activities if traffic volumes permit.

.4 The Contractor is responsible for ensuring that the flow of traffic is unimpeded by construction-related activities.

3.0 EXECUTION

3.1 Traffic Control Plan

.1 A copy of the approved current Traffic Plan must be held on site by both the Site Superintendent as well as the person/company responsible for the traffic control implementation.

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

3.2 Lane Closure Permits

.1 The Contractor must have, on-site, a copy of an approved Lane Closure Permit valid for the work being done. Failure to produce a valid Lane 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 Lane 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

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

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

The Contractor shall minimize any abrupt changes in roadway elevation left exposed to traffic during both working and non-working hours.

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.

3.7 Cyclist and Pedestrian Access

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.

3.8 Temporary Pavement Markings

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

4.0 TRAFFIC RESTRICTIONS

4.1 Lane Closure Permits

.1 One lane of traffic must be maintained at all times during any allowed lane closure times.

.2 A lane 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 Lane Closure Request is required.

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

.3 Total Road Closure Is Not Permitted

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

4.2 Lane Closure and Time of Day Restrictions

.1 There are no specific "Time of Day" restrictions for lane closures on this project. Refer to Lane Closure Permits (section 4.1).

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 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

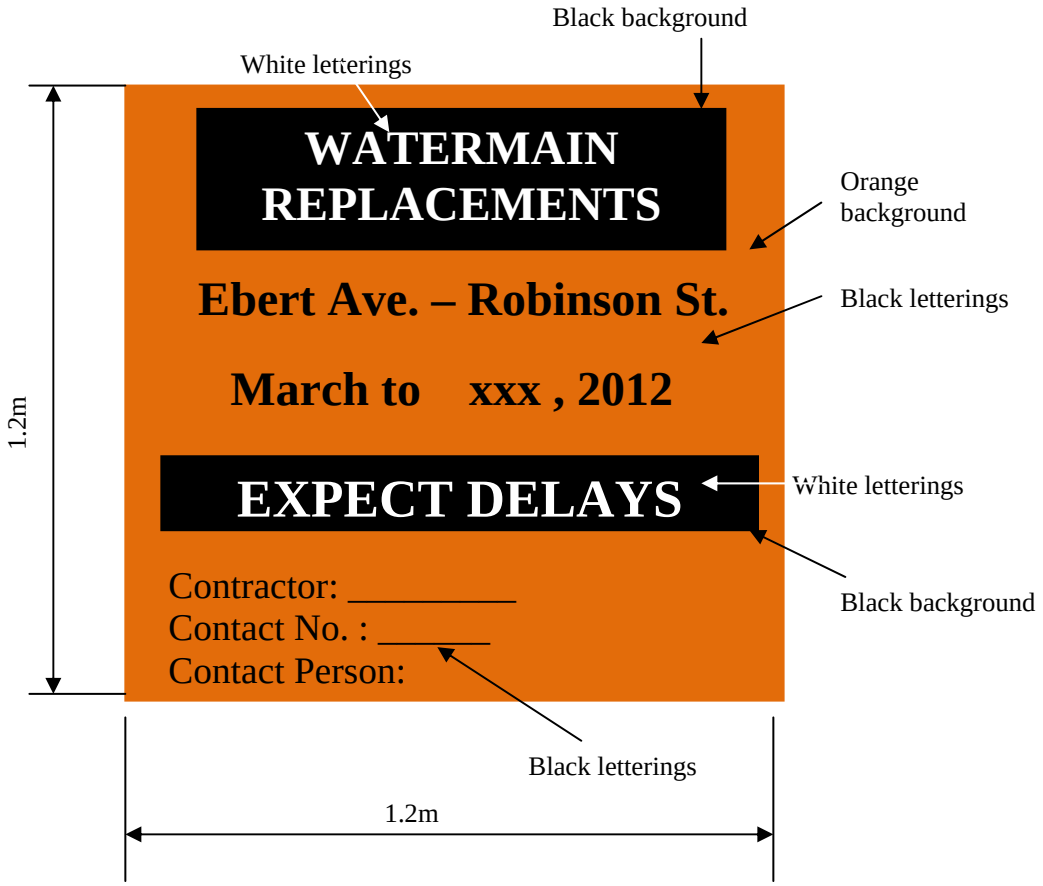
The City will not control or direct traffic control activities of the Contractor, but may require an immediate stop to any work where, in the sole opinion of the Contract Administrator, the provided traffic management plan is ineffective.

5.4 Construction Zone Information Signs

The Contractor is required to provide, one week prior to start of work and for the duration of the Contract, stationary signs to inform traffic of existing and anticipated conditions at the following locations:

.1 Whiting Way – South of Webster (facing northbound traffic);
.2 Whiting Way – South of Foster (facing southbound traffic);
.3 Ebert Ave – East of 555 Ebert Ave (facing westbound traffic);
.4 Ebert Ave – Near 704 Ebert Ave (facing eastbound traffic);
.5 Foster Ave – Near 708 Foster Ave (facing eastbound traffic);
.6 Foster Ave – Near 805 Foster Ave (facing westbound traffic)
.7 Robinson St – Near 670 Robinson St (facing southbound traffic);
.8 Robinson St – Near 620 Robinson St (facing northbound traffic);

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.
Construction Zone Information Signs to follow specifications below:



5.6 Changeable Message Sign (CMS)

The following locations will require Changeable Message Signs (CMS) for the duration of the project:

"Not Required on this project"

These signs are required to be in service at least 5 **normal work days prior to construction start** to provide advance warning to motorists.

End

APPENDIX 1

Lane Closure Request – Highways, Arterial/Collector Roads

NOTE: THIS FORM MUST BE SUBMITTED FIVE (5) WEEKDAYS PRIOR TO THE INTENDED CLOSURE

Date: _____

Company: _____ Contact Person: _____

Phone: _____ Fax: _____

Fax Completed Form To:

Traffic Operations Division
500 Mariner Way, Coquitlam, BC V3K 7B6
Phone: 604-927-6250 Fax: 604-927-6255
E-mail: trafficoperations@coquitlam.ca

I request approval to close the (circle direction): Northbound / Southbound / Eastbound / Westbound

☐ right turn lane ☐ curb/outside lane ☐ middle lane ☐ center/inside lane ☐ left turn lane ☐ all lanes

Road Name: _____

Location (Describe): _____

Date & Time: _____

Purpose: _____

In the above noted direction, the road is 1 2 3 lanes wide and 0 1 2 traffic lanes will be kept open. (Circle appropriate numbers.)

TRAFFIC CONTROL PLAN*: (a) Traffic Control Manual for Work on Roadways Figure No. _____or
(b) A sketch indicating signage, taper lengths, direction of traffic, work area, and north arrow.

ATTACH SEPARATE SHEET/S WITH SKETCH

Traffic control persons (flag persons) on duty? (circle Y or N) 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 area traffic control. No part of this permit shall be considered authorization or approval to violate the minimum requirements of Worksafe BC and the BC Ministry of Transportation regulations and guidelines. Further information and manuals are available at http://www.th.gov.bc.ca/trafficcontrol/home.htm**

PERMIT STATUS – (This section to be completed by City of Coquitlam)

☐ **Your request is denied** ☐ **Your request is approved with the following changes.**_____

_____

_____

☐ **Your request is approved as submitted.**

ENGINEERING CUSTOMER SERVICE (604-927-3500) MUST BE CONTACTED AS FOLLOWS:

- 24 HOURS PRIOR TO A LANE CLOSURE
- UPON REMOVAL OF THE CLOSURE

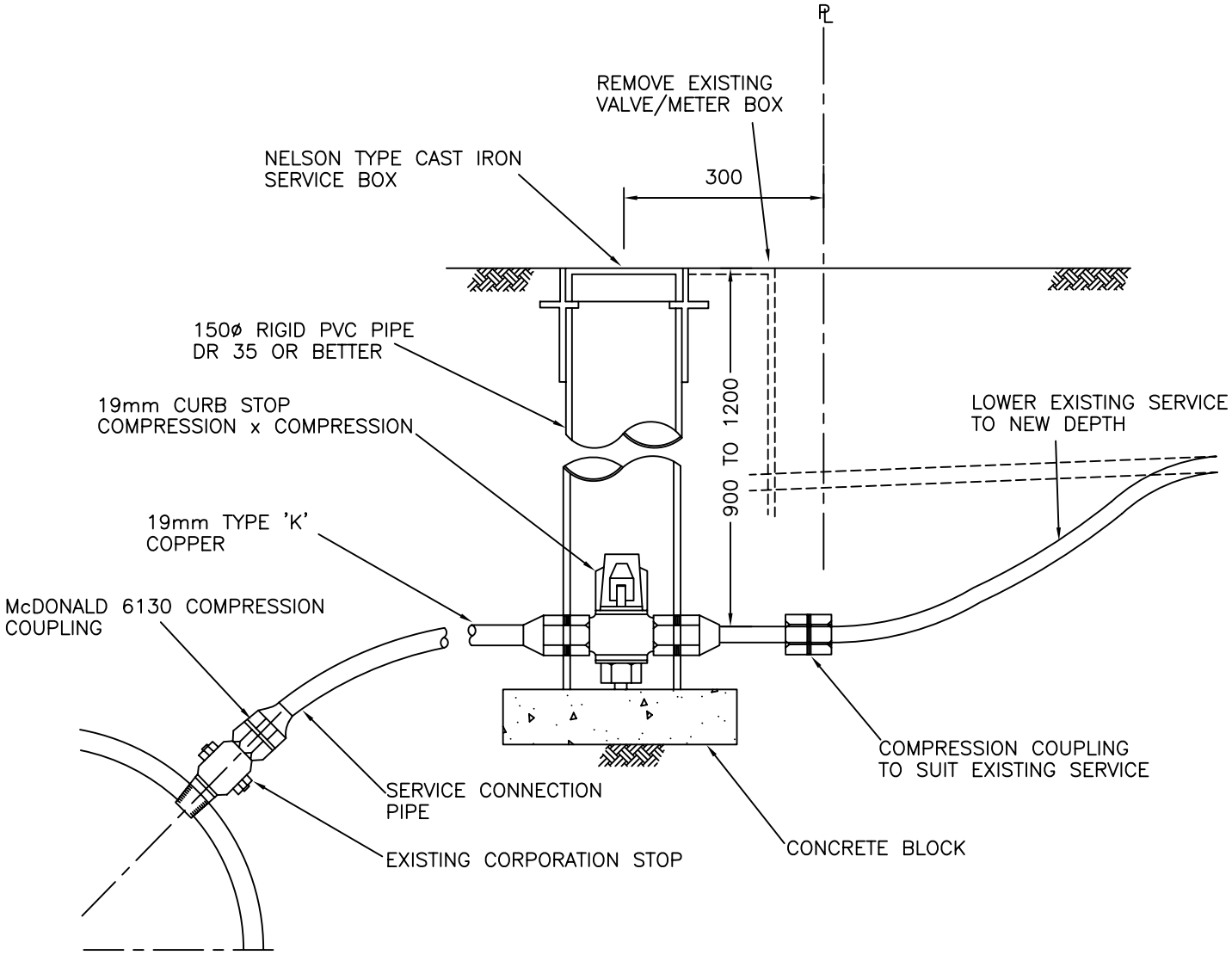
_____ _____
Date Traffic Technologist or Designate

Coquitlam

Doc# 46262
File #: 11-5460-04/000/2002-1 Doc #: 46262.v6

Appendix B

City of Coquitlam - Detailed Drawings to MMCD 2000 Edition



NOTE:

1. THIS DETAIL FOR SERVICES 19 TO 38mm ONLY.
2. INSTALL SERVICE PIPE WITH "GOOSE NECK" IN HORIZONTAL POSITION.
3. REFER TO CONTRACT DRAWINGS AND SECTION 02666 FOR DETAILED SPECIFICATIONS.

Coquitlam Water Utility

WATER SERVICE CONNECTION

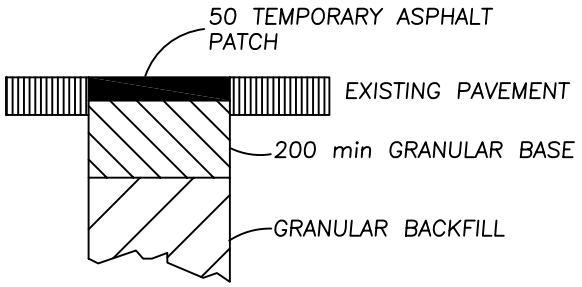
REVISIONS			No.	DATE:	CKD.	APP.
DESIGNED BY: MC	DRAWN BY: A.S.K.	CHECKED BY:	APPROVED BY:			
SCALE: N.T.S.	DATE: 22/02/99		DRAWING NO.: W2b_a			

FILE:

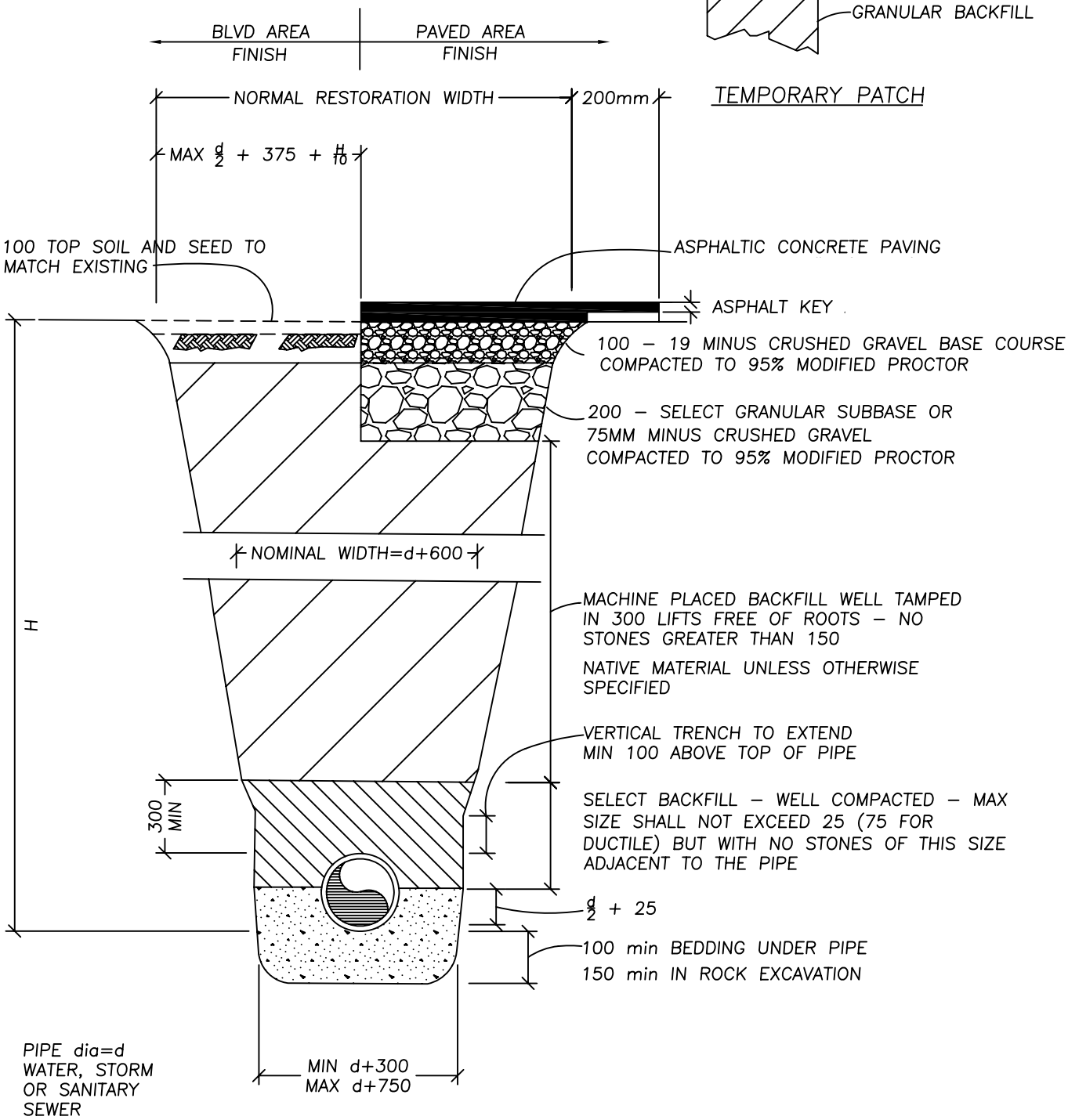
ALL DIMENSIONS IN MILLIMETRES

d = PIPE DIA IN mm

H = TRENCH DEPTH IN mm



TEMPORARY PATCH



City of Coquitlam

TRENCH DETAILS FOR STANDARD SECTION

REVISIONS			No.	DATE:	CKD.	APP.
DESIGNED BY:	DRAWN BY: A.S.K.	CHECKED BY:	APPROVED BY:		
SCALE: N.T.S.	DATE: JUN 12/02		DRAWING NO.: COQ–G4		

FILE: