Coouitlam

City of Coquitlam

Contract Documents 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation



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Contract No. 92344

Draycott, Haversley and Cornell Sidewalks and Cornell Pavement Rehabilitation

Project Construction Documents

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- ii) City of Coquitlam Supplementary Specifications for Contract Documents

Invitation to Tender



INVITATION TO TENDER

DATE OF ISSUE: May 15, 2025

We acknowledge with gratitude and respect that the name Coquitlam was derived from the həńqəmińəm word kʷikʷəʎəm (kwee-kwuh-tlum) meaning "Red Fish Up the River". The City is honoured to be located on the kʷikʷəʎəm (Kwikwetlem) traditional and ancestral lands, including those parts that were historically shared with the sqəćiy´a? təməxʷ (Katzie), and other Coast Salish Peoples.

Tender No. 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

The City of Coquitlam invites tenders for **Contract 92344 - Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation**, generally consisting of the following, but not limited to:

- Concrete sidewalk, driveway letdown, and driveways: Approx. 1650 sq.m;
- Concrete curb and gutter: Approx. 220 lin.m;
- Asphalt milling: Approx. 3100 sq.m;
- Asphalt paving: Approx. 600 tonnes;
- Other miscellaneous and incidental work as contained in the Contract Documents.

Tender Documents and Drawings are available for downloading from the City of Coquitlam website: <u>www.coquitlam.ca/BidOpportunities</u>

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

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

On or Before 2:00 pm local time June 5, 2025 ("Closing Date and Time")

<u>Addenda</u>

Tenderers are required to check the City's website for any updated information, issued before the Closing Date at: <u>www.coquitlam.ca/BidOpportunities</u>. Where in its sole discretion it considers it to be necessary or desirable, the City may issue Addenda to amend any portion of the Contract Documents.

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

The City does not retain a bidder's list or bidder's registry. Tenderers are encouraged to register as plan takers and may view the Tender Documents and Drawings by contacting the Vancouver Regional Construction Association (VRCA), website: <u>www.my.vrca.ca</u>, ph: 604-294-3766, or email at <u>vrca@vrca.ca</u>, quoting the Coquitlam Tender Reference Number.

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

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

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

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

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

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

Mark Pain Manager Procurement

Instructions to Tenderers

Tender 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

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INSTRUCTIONS TO TENDERERS

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

The City of Coquitlam

Contract: Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

Reference No. 92344

1.0 Introduction 1.1 These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work: • Concrete sidewalk, driveway letdown, and driveways: Approx. 1650 sq.m; Concrete curb and gutter: Approx. 220 lin.m; Asphalt milling: Approx. 3100 sq.m; Asphalt paving: Approx. 600 tonnes; Other miscellaneous and incidental work as contained in the Contract Documents. 1.2 All inquiries regarding this Tender are to be submitted in writing referencing the Tender Name and Number sent to: bid@coquitlam.ca E-mail The deadline for inquiries is 2:00 PM local time, Monday, June 2, 2025. INQUIRIES RECEIVED AFTER THIS DATE AND TIME MAY NOT RECEIVE A RESPONSE. 2.0 Tender 2.1 The Tender Documents which a Tenderer should review to prepare **Documents** a Tender consist of all of the *Contract Documents* listed in Schedule 1 entitled "Schedule of Contract Documents". Schedule 1 is attached to the Agreement which is included as part of the Tender Package. The *Contract Documents* include the drawings listed in Schedule 2 to the Agreement, entitled "List of Contract Drawings". 2.2 A portion of the Contract Documents are included by reference. Copies of these documents have not been included with the tender package. These documents are the 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.

		2.3	All sections of this publication are by reference included in the <i>Contract Documents</i> . 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 judgments about its reliability, accuracy, completeness and relevance to the <i>Contract</i> , and neither the Owner nor any representative of the Owner gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.
3.0	Submission of Tenders	3.1	Tenders must be submitted on the Tender Form provided, accompanied by a copy of the original 10% Bid Bond quoting the Tender Name and Number, and be uploaded to the City's file transfer website. Tenders must be received on or before: Tender Closing Time: 2:00 p.m. local time
			Tender Closing Date:June 5, 2025For the purpose of the Tender submission, digital copies of original documents and signatures sent electronically are accepted. Original documents are required upon request by the City.
	Instructions for Tender Submission	3.2	Tender submissions are to be consolidated into one (1) PDF file and uploaded electronically through QFile, the City's file transfer service accessed at website: <u>http://qfile.coquitlam.ca/bid</u>
			1. In the "Subject Field" enter: Tender Number and Name
			 Add consolidated Tender file in PDF format and Appendix 1 in XLS format, and Send (ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete and was sent to email: bid@coquitlam.ca)
			Tenderers are responsible to allow for ample time to complete the submission process. For assistance, phone 604-927-3037.
		3.3	Tenders submitted shall be deemed to be received when displayed as a new email in the in-box of the above email address. The City will not be responsible for any delay or for any Tenders not received for any reason, including technological delays or issues by either party's network or email program, and the City will not be liable for any damages associated with Tenders not received.

	3.4	The City reserves the right to accept late Tenders to allow for technological delays. The City also reserves the right to accept Tenders by email: bid@coquitlam.ca .			
		BIDS RECEIVED IN-PERSON, BY COURIER, OR BY FAX WILL NOT BE ACCEPTED.			
	3.5	Tenders will not be opened in public. The unevaluated results will be forwarded to participants by email.			
	3.6	Tender submissions are subject to the Freedom of Information and Protection of Privacy Act and contents may be disclosed if required to do so, pursuant to the Act.			
Additional Instructions to Tenderers	4.1	Additional Instructions to Tenderers			
Cornell Ave Requirements	4.2	The sidewalk construction and pavement rehabilitation on Cornell Avenue may not begin until the watermain construction is complete. The new watermain is currently being installed on Cornell Avenue and is expected to be completed by July 15, 2025.			
Obtaining Documents	4.3	 The following documents which are referred to and form part of the Contract Document package may be obtained as follows: Copies of the Master Municipal Construction Documents Volume II (2009), General Conditions, Specifications and Standard Detail Drawings are available separately from: Support Services Unlimited Suite 102 211 Columbia Street Vancouver, B.C. V6A 2R5 Tel: 604-681-0295 Fax: 604-305-0424 Copies of the City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2009 Edition are available for viewing and downloading off the City of Coquitlam website: Supplementary Specifications and Detailed Drawings to MMCD 			
Test Excavations	4.4	Prior to the excavation of test holes on road allowances or privately owned property the Tenderer shall obtain permission from the Municipality or Owner of the property and comply with their requirements for restoration of disturbed surfaces and utilities. Failure to comply with Municipal by-laws restricting this practice may result in prosecution of the offending party.			

Business License	4.5	The successful Tenderer shall provide evidence of a City of Coquitlam Business License or Tri-Cities Inter-Municipal Business License prior to commencement of work or supply of materials. For more information, contact Business License Division Ph: 604-927- 3085 or apply online at website: <u>City of Coquitlam Business License</u>
No Claim	4.6	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	4.5	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	4.7	The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. In its sole discretion, the City may reject or retain for its consideration, tenders which are nonconforming because they do not contain the content or form required by the instructions to tenderers or for failure to comply with the process for submission set out in these instructions to tenderers.
		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.
Negotiation	4.8	The City, prior to award of any Tender, may negotiate with the Tenderer presenting the lowest price compliant Tender, for changes in the Work, materials, specifications or conditions without having any duty or obligation to advise any other Tenderers or to allow them to modify their Tenders, and the City will have no liability to any Tenderer as a result of such negotiations or modifications.
Cancellation of Tender	4.9	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.
Conflict of Interest	4.10	Tenderers shall disclose any actual or potential conflicts of interest and existing business relationships it may have with the City, their elected or appointed officials or employees.
Collusion	4.11	Tenderers will not discuss or communicate with one another in regards to the preparation of their Tenders. Each Tenderer will ensure that its participation in the Tender process and that of its team members is conducted without collusion or fraud. Failure to comply with this requirement may lead to disqualification without further notice or warning.

	City of Coquitlam Contract 92344			IT 6
	Instruction to Tenderers – Part II	4.12	of the Publica	ctions to Tenderers – Part II Contained in the Edition tion "Master Municipal Construction Documents place with the following:
5.0	Tender Requirements	5.1		uld be on the Form of Tender as provided and be authorized signatory(s) as follows:
			5.1.1	if the tenderer is a partnership or joint venture then the name of the partnership or joint venturer should be included, and each partner or joint venturer should sign personally; if a partner of joint venture is a corporation then such corporation should sign as indicated in paragraph 5.1.3 below; and
			5.1.2	if the tenderer is a corporation then the full name of the corporation should be included, together with the names and signatures of authorized signatories.
			5.1.3	For the purpose of the Tender submission, digital copies of original documents and electronic signatures are accepted. Original documents are required upon request by the City.
		5.2	A tender mus the form of:	t be accompanied by tender security (" <i>Bid Security"</i>) in
			5.2.1	a copy (digital or Electronic copy is acceptable) of the original bid bond in an amount equal to 10% of the Tender Price, issued by a surety licensed to carry on the business of suretyship in British Columbia in a form reasonably satisfactory to the <i>Owner</i> ;
		5.3	various items	uld be competent and capable of performing the of work. Tenderer shall complete the following eets appended to the Form of Tender:
			5.3.1	Appendix 1 – the Schedule of Quantities and Prices;
			5.3.2	Appendix 2 – a " <i>Preliminary Construction Schedule</i> ", generally in the form attached as Appendix 2 to the Form of Tender, and showing <i>Substantial</i> <i>Performance</i> by the date or within the duration, shown in paragraph 2.2 of the Form of Tender.
			5.3.3	Appendix 3 – name and brief description of the previous experience of the <i>Superintendent</i> the tenderer will use for the <i>Work</i> ;
			5.3.4	Appendix 4 – a list of previous comparable work, including a brief description of that work,

Tenders

approximate contract value, and references (with phone numbers);

5.3.5 Appendix 5 – a complete list of all subcontractors, if any, that the tenderer will use for the *Work* including full names.; and

Appendix 7 – is provided for information only, to indicate the Contract Insurance is to be submitted by the successful Tenderer upon Notice of Award.

- 5.4 The successful tenderer will, within 15 *Days* of receipt of the written *Notice of Award*, be required to deliver to the *Owner* the items listed in FT 5.1.1, including a Performance Bond and a Labour and Material Payment Bond as described in FT 5.1.1(a), failing which the provisions of FT 6.1 will apply.
- 6.0Qualifications,
Modifications,6.1Tenders which contain qualifications, or omissions, so as to make
comparison which other tenders difficult, may be rejected by the
Owner.6.1Tenders which contain qualifications, or omissions, so as to make
comparison which other tenders difficult, may be rejected by the
Owner.
 - 6.2 A tenderer may, at the tenderer's election, submit an alternative tender (*"Alternative Tender"*) which varies the materials, products, designs or equipment by the *Owner as Approved Equals* as the case may be, <u>but an *Alternative Tender*</u> must be in addition to, and not in substitution for a tender which conforms to the requirements of the *Contract Documents*.
 - 6.3 The only *Alternative Tender* that the *Owner* may accept is an *Alternative Tender* submitted by that tenderer whose conforming tender, submitted as required by paragraph 6.2 of these Instructions to Tenderers, would have been accepted by the *Owners* in the preference to other conforming tenders, if no *Alternative Tenders* had been invited.
- 7.0Approved
Equals7.1Prior to the *Tender Closing Time and Date,* a tenderer may request
the *Owner* to approve materials, products, or equipment ("Approved
Equal") to be included in a tender in substitution for items indicated
in the Contract Documents.
 - 7.2 Applications for an *Approved Equal* must be in writing, and supported by appropriate supporting information, data, specifications, and documentation.
 - 7.3 If the *Owner* decides in its discretion to accept an *Approved Equal*, then the *Owner* will issue an addendum to all tenderers.
 - 7.4 The *Owner* is not obligated to review or accept an application for an *Approved Equal*.

8.0Inspection of
the Place of the
Work8.1All tenderers, either personally or through a representative, are
responsible to examine the Place of the Work before submitting a
tender. A tenderer has full responsibility to be familiar with and

make allowance in the tender for all conditions at the *Place of the Work* that might affect the tender, including any information regarding subsurface soil conditions made available by the *Owner*, the location of the *Work*, local conditions, topographical soil conditions, weather and access. Unless otherwise specified in the *Contract Documents*, a tenderer is not required to do subsurface investigations. By submitting a tender, a tenderer represents that the tenderer has examined the *Place of the Work*, or specifically elected not to. No additional payments or time extensions shall be claimable or due because of difficulties relating to conditions at the *Place of the Work* which were reasonably foreseeable by a contractor qualified to undertake the *Work*.

- 8.2 Tenderers are referred to GC 11.2.1 regarding **Concealed or Unknown Conditions.**
- 9.1 If a tenderer is in doubt as to the correct meaning of any provision of the *Contract Documents*, the tenderer may request clarification as instructed in paragraph 1.2 of the Instructions to Tenderers.
 - 9.2 If a tenderer discovers any contradictions or inconsistencies in the *Contract Documents* or its provisions, or any discrepancies between a provision of the *Contract Documents* and conditions at the <u>Place of</u> <u>the Work as</u> observed in an examination under paragraph 8 of the person named in paragraph 1.2 of the Instructions to Tenderers.
 - 9.3 If the *Owner* considers it necessary, the *Owner* may issue written addenda to provide clarification (s) of the *Contract Documents.*
 - 9.4 <u>No oral interpretation or representations from the *Owner* or any representative of the *Owner* will affect, alter, or amend any provision of the *Contract Documents*.</u>
- 10.1 The Tendered Price will represent the entire cost excluding *GST* to the *Owner* of the complete *Work* based on the estimated quantities in the *Schedule of Quantities and Prices* of the Form of Tender. Notwithstanding the generalities of the above, tenderers shall include in the tendered prices (including unit prices, lump sum prices, or other forms of pricing) sufficient amounts to cover:
 - 10.1.1 the costs of all labour, equipment and material included in or required for the *Work*, including all items which, whole not specifically listed in the *Schedule of Quantities and Prices*, are included in the *Work* specifically or by necessary inference from the *Contract Documents;*
 - 10.1.2 all assessments payable with respect to labour as required by any statutory scheme such as unemployment insurance, holiday pay, insurance, CPP and all employee benefits and the Workers Compensation Act;

9.0 Interpretation of Contract Documents

Prices

all overhead costs, including head office and on-site 10.1.3 overhead costs, and all amounts for the Contractor's profit. 10.2 The tendered prices and all subcontracts must allow for compliance with all applicable laws regarding trade or other gualifications of employees performing the Work, and payment of appropriate wages for labour included in or required for the Work. 11.0 Taxes 11.1 The tendered prices shall cover all taxes and assessments of any kind payable with respect to the *Work*, but shall not include *GST*. GST shall be listed as a separate line item as required by GC 19.3. 12.0 Amendment of 12.1 A tenderer may amend or revoke a tender by giving written notice, Tenders delivered by Email, to the office referred to in paragraph 3.4 of the Instructions to Tenderers at any time up until the Tender Closing Date and Time. An amendment or revocation that is received after the *Tender Closing Date and Time* shall not be considered and shall not affect a tender as submitted. 12.2 An amendment or revocation must be signed by an authorized signatory of the tenderer in the same manner as provided by paragraph 5.1 of these Instructions to Tenderers. 12.3 Any amendment that expressly or by inference discloses the tenderer's *Tender Price* or other material element of the tender such that, in the opinion of the *Owner*, the confidentiality of the tender is breached, will invalidate the entire tender. 12.4 An acceptable form of a tender amendment which tenderers may, but are not required to, use is as follows: "Contract: (TITLE OF CONTRACT) Reference No. (OWNER'S CONTRACT REFERENCE NO.) TO: (NAME OF OWNER) We the undersigned wish to amend our tender which we submitted for the above *Contract* by deleting the following tendered prices or items from our tender: (TEDNERED PRICES AND/OR TENDER ITEMS IN THE TENDER THAT ARE TO BE AMENDED) and substituting the following revised tendered prices or items:

(REVISED TENDERED PRICES OR TENDER ITEMS)

	City of Coquitlam Contract 92344		IT 10
			The extensions in our tender should be adjusted accordingly, and our Tender Price as set out in Appendix 1 of our submitted Form of Tender , and on the Schedule of Quantities and Prices , increased / decreased by \$, excluding GST. We have not included our revised Tender Price in order to preserve the confidentiality of our tender.
			Signed and delivered the day of, 20"
13.0	Duration of Tenders	13.1	After the <i>Tender Closing Time</i> , a tender shall remain valid and irrevocable as set out in paragraph 5.1 of the Form of Tender.
14.0	Qualifications of Tenderers	14.1	By submitting a tender, a tenderer is representing that it has the competence, qualifications and relevant experience required to do the <i>Work</i> .
15.0	Award	15.1	 In exercising its discretion, the <i>Owner</i> will have regard to the information provided in the Appendices to the Form of Tender as described under IT 5.3 including the proven experience of the tenderer, and any listed subcontractors, to do the <i>Work</i>. Tenders received will be evaluated to provide the City with greatest value based on quality, service, price and experience. Evaluation Criteria will include but is not limited to: Ability to meet specifications and required completion date Contractor's past experience, references, reputation and compliance to specifications Demonstrated successful experience on similar projects and specific equipment installation Price: purchase price, maintenance costs, availability of parts and service, warranty and compatibility with existing equipment and/or conditions Any other criteria, the City deems, at its sole discretion, necessary to evaluate Tenders; Lowest price will not necessarily be accepted.
			 The City may, in its absolute discretion, not award to a Tenderer if the Tenderer, or any officer or director of a corporate Tenderer, is or has been engaged, either directly or indirectly through another corporation or legal entity, in a legal action against the City and its elected and appointed officers and employees or any of them in relation to: a) any other contract or services; or b) any matter arising from the City's exercise of its powers, duties or functions under the <i>Local Government Act</i>, the <i>Community Charter</i> or any other enactments; within five years of this Tender Offer.

City of Coquitlam Contract 92344

For purposes of this section, the words "legal action" includes, without limitation, mediation, arbitration, hearing before an administrative tribunal or lawsuit filed in any court. Without limiting the City's sole discretion, in determining whether or not to award to a Tenderer pursuant to this clause, the City will consider such factors as whether the legal action is likely to affect the Tenderer's ability to work with the City and its employees, agents, consultants and representatives or any of them and whether the City's past experience with the Tenderer in the matter that resulted in the legal action indicates that the City is likely to incur increased staff and legal costs or either of them in the administration of this contract if it is awarded to the Tenderer. In the event that the lowest total Tender Price by two or more Tenderers is the same amount, the City will select a Tenderer with an overall satisfactory performance record in having completed work on previous relevant projects that are provided as references, and on City projects. Information obtained from references will not be disclosed or discussed with any Tenderer. If all references are equal, selection will be determined by a coin toss in a manner to be directed by the City.

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

- 15.2 The *Owner* will notify the successful tenderer in writing.
- 15.3 If there are any discrepancies in the *Schedule of Quantities and Prices* between the unit prices and the extended totals then the unit prices shall be deemed correct, and corresponding corrections shall be made to the extended totals. If a unit price or extended total has been omitted, the following shall apply:
 - a) If a unit price is given but the corresponding extended total has been omitted, then the extended total shall be calculated from unit price and the estimated quantity, and inserted as the extended total;
 - b) If an extended total is given but the corresponding unit price has been omitted, then the unit price shall be calculated from the extended total and estimated quantity, and inserted as the unit price;
 - c) If both the unit price and the corresponding extended total for a tender item have been omitted, then the following test shall be applied to determine whether the tender shall be rejected as incomplete:
 - the highest of the unit prices tendered by other tenderers for that tender item shall be used as the test unit price, and the corresponding test extended total shall be calculated from the test unit price and the estimated quantity;

16.0

		(ii)	if the test extended total for the tender item exceeds 1% of the revised total <i>Tender Price</i> , including the test extended total, or if the revised total <i>Tender Price</i> , including the test extended total, alters the ranking of the tenderers according to the lowest <i>Tender Price</i> , then the omitted unit price for that tender item is deemed to materially affect the <i>Tender Price</i> relative to other tenders and the tender shall be rejected;
		(iii)	if the tender is not rejected under subparagraph (ii) of this IT 15.3 (c), then the unit price and the extended total for that tender item shall both be deemed to be, and the costs for that tender item shall be zero deemed to be included in other tender items prices;
Optional Work		and Prices	nt shall page totals in the <i>Schedule of Quantities</i> or the total <i>Tender Price</i> be used to calculate xtended totals or unit prices.
Subcontractors	16.1	listed in a tender. subcontractor(s) to days, propose a so <i>Owner</i> provided to <i>Price</i> or the comp Tender. A tender and, if the <i>Owner</i> may, rather than tender rejected b	es the right to object to any of the subcontractors If the <i>Owner</i> objects to any of the then the <i>Owner</i> will permit a tenderer to, within 5 substitute subcontractor(s) acceptable to the hat there is not resulting adjustment in the <i>Tender</i> letion date set out in paragraph 2.2 of the Form of rer will not be required to make such substitution objects to a listed <i>Subcontractor(s)</i> , the tenderer propose a substitute subcontractor(s), consider its y the <i>Owner</i> and by written notice withdraw it <i>er</i> shall, in the event, return the tenderer's bid
Optional Work	17.1	Optional or Provis must complete al Work. Such tende	<i>Quantities and Prices</i> includes any tender prices for <i>ional Work</i> , as defined in GC 7.4.1, the tenderers I the unit prices for such <i>Optional or Provisional</i> r prices shall not include any general overhead sts, or profit, not directly related to the <i>Optional or</i>
	17.2	Optional or Provis Provisional Work, Provisional Work,	that the <i>Owner</i> may elect not to proceed with the <i>ional Work</i> , the tender prices for any <i>Optional or</i> including the extended totals for <i>Optional or</i> unit prices, shall be included in the <i>Tender Price</i> for by price comparisons between tenders.

Form of Tender



Form of Tender

Tender No. 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

Summary

Name of *Contractor*:

Tender Price (exclude GST): \$

(FROM APPENDIX 1 OF FORM OF TENDER)

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

On or before 2:00 pm (local time) <u>Thursday, June 5, 2025</u>

Instructions for Tender Submission

Tender submissions are to be consolidated into one (1) .pdf file and **uploaded electronically through QFile, the City's file transfer service accessed at website:** <u>qfile.coquitlam.ca/bid</u>

- 1. In the "Subject Field" enter: Tender Number and Name
- 2. Add consolidated Tender file in PDF format, and Appendix 1 in XLS format, and Send (ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete and was sent to the correct email address: <u>bid@coquitlam.ca</u>)

Tenderers are responsible to allow ample time to complete the Tender submission process. If assistance is required, phone 604-927-3037.

The City Of Coquitlam 3000 Guildford Way Coquitlam, B.C. V3B 7N2

June 2025

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

Contract Name: Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

Reference No.: 92344

TO OWNER:

1 WE, THE UNDERSIGNED:

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

(ADDENDA, IF ANY)

- 1.2 shall fully disclose any actual or potential conflicts of interest and existing business relationships we may have with the City, their elected or appointed officials or employees:
- 1.3 have full knowledge of the *Place of the Work*, and the *Work* required; and
- 1.4 have complied with the Instructions to Tenderers; and

2 ACCORDINGLY WE HEREBY OFFER:

- 2.1 to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*; and
- 2.2 to achieve *Substantial Performance* of the *Work* on or before **October 30, 2025**; and
- 2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of tender comparison, our offer is to complete the *Work* for the "*Tender Price*" as set out on Appendix 1 of this Form of Tender. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes *GST*.

3 WE CONFIRM:

- 3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.
- 3.2 that we understand and agree that the owner is in no way obliged to accept this Tender.

4 WE CONFIRM:

- 4.1 that the following Appendices are attached to and form a part of this tender:
 - 4.1.1 the Appendices as required by paragraph 5.3 of the Instructions to Tenderers - Part II; and
 - 4.1.2 the *Bid Security* as required by paragraph 5.2 of the Instructions to Tenderers -Part II.
 - 4.1.3 the Certificate of Compliance on the form provided in Appendix 7 of this Form of Tender.

5 WE AGREE:

- 5.1 that this tender will be irrevocable and open for acceptance by the *Owner* for a period of **60** calendar days from the day following the *Tender Closing Date and Time*, even if the tender of another Tenderer is accepted by the *Owner*. If within this period the *Owner* delivers a written notice ("*Notice of Award*") by which the *Owner* accepts our tender we will:
 - 5.1.1 within **15** *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:
 - a) a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the *Contract Price*, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*;
 - b) a "clearance letter" indicating that the Tenderer is in WCB compliance; and
 - c) a copy of the insurance policies as specified in SGC Section 24 indicating that all such insurance coverage is in place and;
 - d) a letter confirming the *Contractor* as "Prime Contractor" for the Contract as specified in SGC Section 21.2.1.
 - 5.1.2 within **2** *Days* of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and
 - 5.1.3 sign the Contract Documents as required by GC 2.1.

6 WE AGREE:

- 6.1 that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:
 - 6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or
 - 6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*,

<u>then such failure or refusal will be deemed to be a refusal by us to enter into the</u> <u>Contract</u> 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:
Email:
Attention:
This Tender is executed thisday of, 20
Contractor:
(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)
(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

8 WE CONFIRM:

- 8.1 our Goods and Services Tax (GST) registration status is as follows:
 - 8.1.1 for information purposes, our GST Registration Number is:

(GST REGISTRATION NUMBER)

or;

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

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

APPENDIX 1 FORM OF TENDER

Contract 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

SCHEDULE OF QUANTITIES AND PRICES

(see paragraph 5.3.1 of the Instruction to Tenderers) (All Tender and Contract Prices shall NOT include GST. GST will apply upon payment)

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

item NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
		Cornell Avenue				
1	01 55 00S	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING				
1.01	(1.5.1)	Traffic Control and Management		Incider	ntal to Contract	
2	01 57 015	ENVIRONMENTAL PROTECTION				
2.01	(1.6.1)	ESC supply & Installation, Maintenance and Removal		Incider	ntal to Contract	
3	01 58 015	PROJECT IDENTIFICATION			-	
3.01	(1.3.1)	1.2m x 1.2m Static Construction Zone Information Sign	each	2		
4	03 30 205	CONCRETE WALKS, CURBS AND GUTTERS	r		1	F
4.01	(1.4.3)	Concrete Curb and Gutter - MMCD C5 - c/w 100mm granular base	lin.m	125		
4.02	(1.4.5)	Concrete Sidewalk, Walkway Connectors, Driveways, and Wheelchair Letdowns - 100mm thick – Broom Finished c/w 100mm granular base; and as shown and described in the Contract Documents	sq.m	480		
4.03	(1.4.5)	Concrete Driveway Letdown and Sidewalk - 190mm thick - Broom Finished c/w 100mm granular base; and as shown and described in the Contract Documents	sq.m	350		
4.04	(1.4.5)	Concrete Exposed Aggregate Driveways and Walkways - complete with 100mm granular base	sq.m	20		
4.05	(1.4.10)	Tactile Strip - 24in x 60in - Access Tile, Yellow Colour, Removable Type	each	2		
5	31 11 01	CLEARING AND GRUBBING				
5.01	1.4.1	Tree/Hedge Trimming and Removal (including offsite disposal)	L.S.	1	L	
6	31 11 415	SHRUB AND TREE PRESERVATION				
6.01	(1.3.1)	Tree Protection (Including Tree Protection Fencing COQ-R26)	L.S.	1	<i>t</i>	4
6.02	(1.3.2)	Hydro Excavation	A	llowance	\$2,000.00	\$2,000.00
7	31 22 165	RESHAPING GRANULAR ROADBEDS		2.040		
7.01	(1.4.1)		sq.m	3,040		
8	31 24 135	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION Removal of Existing Concrete Curb and Gutter (includes saw-cutting, removal, and offsite		F	F	1
8.01	(1.8.4)	disposal) Removal of Existing Concrete and Asphalt Flat Works (includes saw-cutting, removal, and offsite	lin.m	40		
8.02	(1.8.4)	offsite disposal) Removal of Existing Concrete Monolithic Curbwalk (includes saw-cutting, removal, and offsite	sq.m	230		
8.03	(1.8.4)	disposal)	sq.m	135		
8.04	(1.8.4)	Remove Section of Allan Block Retaining Walls (includes removal and offsite disposal)	L.S.	1		
8.05	(1.8.5)	Common Excavation (includes offsite disposal)	cu.m	160		
8.06	(1.8.10)	Over Excavation (Includes offsite disposal) - Provisional	cu.m	20		
9	32 01 16.75	COLD MILLING			-	
9.01	(1.5.4)	Full-depth Milling (Up to 175mm)	sq.m	3,040	_	
10	32 11 235	GRANULAR BASE		1.050		
10.01	(1.4.3) 32 12 165	19mm Minus Granular Base (Variable Thickness) HOT-MIX ASPHALT CONCRETE PAVING	tonnes	1,050		
11 01	-		tonnor	560		
11.01	(1.5.1)	Asphaltic Concrete Paving - Upper Course #1 (75mm, 1 lift) Asphaltic Concrete Paving - Driveways and Walkways - Upper Course #2 (60mm, 1 lift), c/w	tonnes	560	+	
11.02	(1.5.3)	100mm Granular base	tonnes	20		
12	32 14 015	UNIT PAVING				
12.01	(1.6.1)	Remove, Level, and Re-Lay Existing Pavers (Driveway and Walkway Tie-Ins)	sq.m	70		
13	32 17 235	PAINTED PAVEMENT MARKINGS				
13.01	(1.5.3)	Permanent Thermoplastic Pavement Markings	L.S.	1		
13.02	(1.5.4.3)	Relocate Existing Pole and Signs	each	1		
14	32 91 215	TOPSOIL AND FINISH GRADING				
14.01	(1.4.1)	Imported Topsoil - 150mm Thick	cu.m	120		
15	32 92 235	SODDING				
15.01	(1.8.1)	Supply and Installation of Sod	sq.m	570	L	
16	32 93 015	PLANTING OF TREES, SHRUBS, AND GROUND COVERS				
16.01	(1.9.1)	Tree Planting, (c/w tree trench as per COQ-L2A)	each	2	L	
17	33 44 015	MANHOLES AND CATCHBASINS				
17.01	(1.5.3.1)	Manhole Adjustment Only - Provisional	each	5		
17.02	(1.5.3.3)	Water Valve Lid & Frame Replacement - Provisional	each	1		
17.03	(1.5.3.4)	Water Valve Adjustment Only - Provisional	each	4		
17.04	(1.5.3.6)	Catchbasin Adjustments Only - Provisional	each	2		

ITEM NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT	
		Draycott Street					
18	01 55 00S	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING					
18.01	(1.5.1)	Traffic Control and Management	Incidental to Contract				
19	01 57 015 (1.6.1)	ENVIRONMENTAL PROTECTION					
19.01 20	(1.6.1) 01 58 015	ESC supply & Installation, Maintenance and Removal PROJECT IDENTIFICATION		Incluen	tal to Contract		
20.01	(1.3.1)	1.2m x 1.2m Static Construction Zone Information Sign	each	2			
21	03 30 205	CONCRETE WALKS, CURBS AND GUTTERS		-			
21.01	(1.4.3)	Concrete Curb and Gutter - MMCD C5 - c/w 100mm granular base	lin.m	30			
21.02	(1.4.5)	Concrete Sidewalk, Walkway Connectors, Driveways, and Wheelchair Letdowns - 100mm thick – Broom Finished c/w 100mm granular base; and as shown and described in the Contract Documents	sq.m	190			
21.03	(1.4.5)	Concrete Driveway letdown and Sidewalk - 190mm thick - Broom Finished c/w 100mm granular base; and as shown and described in the Contract Documents	sq.m	270			
21.04	(1.4.10)	Tactile Strip - 24in x 60in - Access Tile, Yellow Colour, Removable Type	each	4			
22	31 11 01	CLEARING AND GRUBBING					
22.01	1.4.1	Tree/Hedge Trimming and Removal (including offsite disposal)	L.S.	1			
23	31 11 415	SHRUB AND TREE PRESERVATION	1.6				
23.01	(1.3.1)	Tree Protection (Including Tree Protection Fencing COQ-R26) ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION	L.S.	1	I		
24	31 24 135	REMOVED AND COMPACTION Removal of Existing Concrete Curb and Gutter (includes saw-cutting, removal, and offsite					
24.01	(1.8.4)	disposal)	lin.m	30			
24.02	(1.8.4)	Removal of Existing Concrete and Asphalt Flat Works (includes saw-cutting, removal, and offsite disposal)	sq.m	275			
24.03	(1.8.4)	Remove Section of Allan Block Retaining Walls (includes removal and offsite disposal)	L.S.	1			
24.04	(1.8.4)	Remove Wood Planter Box at 521 Draycott Street	L.S.	1			
24.05	(1.8.4)	Remove Planter between 503 and 507 Draycott Street	L.S.	1			
24.06	(1.8.5)	Common Excavation (includes offsite disposal)	cu.m	80			
25	32 12 165	HOT-MIX ASPHALT CONCRETE PAVING					
25.01	(1.5.3)	Asphaltic Concrete Paving - Driveways- Upper Course #2 (60mm, 1 lift), c/w 100mm Granular base	tonnes	15			
26	32 17 235	PAINTED PAVEMENT MARKINGS					
26.01	(1.5.3)	Permanent Thermoplastic Pavement Markings	L.S.	1			
26.02	(1.5.4.3)	Relocate Existing Pole and Signs TOPSOIL AND FINISH GRADING	each	1			
27 27.01	32 91 215 (1.4.1)	Imported Topsoil - 150mm thick	cu.m	50			
27:01	32 92 235	SODDING	cuin	50			
28.01	(1.8.1)	Supply and Installation of Sod	sq.m	230			
29	33 44 015	MANHOLES AND CATCHBASINS		•	•		
29.01	(1.5.3.1)	Manhole Adjustment Only - Provisional	each	2			
		Haversley Avenue					
30	01 55 005	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING					
30.01	(1.5.1)	Traffic Control and Management		Inciden	tal to Contract		
31 31.01	01 57 015 (1.6.1)	ENVIRONMENTAL PROTECTION ESC supply & Installation, Maintenance and Removal	1	Inciden	tal to Contract		
32	01 58 015	PROJECT IDENTIFICATION		incluen			
32.01	(1.3.1)	1.2m x 1.2m Static Construction Zone Information Sign	each	2			
33	03 30 205	CONCRETE WALKS, CURBS AND GUTTERS					
33.01	(1.4.3)	Concrete Curb and Gutter - MMCD C5 - c/w 100mm granular base	lin.m	60			
33.02	(1.4.5)	Concrete Sidewalk, Walkway Connectors, Driveways, and Wheelchair Letdowns - 100mm thick – Broom Finished c/w 100mm granular base; and as shown and described in the Contract Documents	sq.m	270			
33.03	(1.4.5)	Concrete Driveway letdown and Sidewalk - 190mm thick - Broom Finished c/w 100mm granular base; and as shown and described in the Contract Documents	sq.m	70			
33.04	(1.4.10)	Tactile Strip - 24in x 60in - Access Tile, Yellow Colour, Removable Type	each	4			
34	03 30 535	CAST-IN-PLACE CONCRETE	lin	-	1		
34.01 35	(1.5.3) 31 11 01	Concrete Stairs - Existing Walkway at 1734 Haversley Ave CLEARING AND GRUBBING	lin.m	1			
35.01	1.4.1	Tree/Hedge Trimming and Removal (including offsite disposal)	L.S.	1			
36	31 11 415	SHRUB AND TREE PRESERVATION					
36.01	(1.3.1)	Tree Protection (Including Tree Protection Fencing COQ-R26)	L.S.	1			
36.02	(1.3.2)	Hydro Excavation	A	llowance	\$2,000.00	\$2,000.00	
37	31 24 135	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION					
37.01	(1.8.4)	Removal of Existing Concrete Curb and Gutter (includes asphalt curb, saw-cutting, removal and offsite disposal)	lin.m	60			
37.02	(1.8.4)	Removal of Existing Concrete and Asphalt Flat Works (includes saw-cutting, removal and offsite disposal)	sq.m	42			
		Remove Wooden/Concrete Retaining Walls (includes saw-cutting, removal, and offsite		1	1		

ITEM NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
37.04	(1.8.4)	Remove Planter at 1750 Haversley Ave	L.S.	1		
37.05	(1.8.5)	Common Excavation (includes offsite disposal)	cu.m	60		
38	32 12 165	HOT-MIX ASPHALT CONCRETE PAVING				
38.01	(1.5.3)	Asphaltic Concrete Paving - Driveways- Upper Course #2 (60mm, 1 lift), c/w 100mm Granular base	tonnes	5		
39	32 14 015	UNIT PAVING				
39.01	(1.6.1)	Remove, Level, and Re-Lay Existing Pavers (Driveway and Walkway Tie-Ins)	sq.m	50		
40	32 17 235	PAINTED PAVEMENT MARKINGS				
40.01	(1.5.3)	Permanent Thermoplastic Pavement Markings	L.S.	1		
40.02	(1.5.4.3)	Relocate Existing Pole and Signs	each	1		
41	32 91 215	TOPSOIL AND FINISH GRADING				
41.01	(1.4.1)	Imported Topsoil - 150mm thick	cu.m	50		
42	32 92 235	SODDING				
42.01	(1.8.1)	Supply and Installation of Sod	sq.m	210		
43	33 44 015	MANHOLES AND CATCHBASINS				
43.01	(1.5.3.4)	Water Valve Adjustment Only - Provisional	each	2		
43.02	(1.5.3.6)	Catchbasin Adjustment Only - Provisional	each	1		

Total Tendered Price (exclude GST) \$_____

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

Name of Contractor:

FORM OF TENDER

Contract 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

<u>PRELIMINARY CONSTRUCTION SCHEDULE</u> (See paragraph 5.3.2 of the Instructions to Tenderers)

INDICATE SCHEDULE WITH BAR CHART WITH CONSTRUCTION DURATIONS

Construction Activity			July	/			Aug	jus	t	Se	epte	emb	er		Oc	tok	ber	
	1	2	3	4	5	1	2	3	4	1	2	3	4	1	2	3	4	5

Substantial Completion Date: October 30, 2025

Proposed Disposal Site: _____

FORM OF TENDER

Contract 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

EXPERIENCE OF SUPERINTENDENT

(See paragraph 5.3.3 of the Instructions to Tenderers)

Proposed Project Superintendent

List of Project Experience

PROJECT:	Dates:	
Work Description:		
Responsibility:		
Owner/Reference:	Phone No.:	

PROJECT:	Dates:	
Work Description:		
Responsibility:		
Owner/Reference:	Phone No.:	

PROJECT:	Dates:	
Work Description:		
Responsibility:		
Owner/Reference:	Phone No.:	

FORM OF TENDER

Contract 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

CONTRACTOR'S COMPARABLE WORK EXPERIENCE

(See paragraph 5.3.4 of the Instructions to Tenderers)

PROJECT:	VALUE (\$):	
OWNER:	Phone No.:	
Work Description:		

PROJECT:	VALUE (\$):	
OWNER:	Phone No.:	
Work Description:		

PROJECT:	VALUE (\$):	
OWNER:	Phone No.:	
Work Description:		

PROJECT:	VALUE (\$):	
OWNER:	Phone No.:	
Work Description:		

FORM OF TENDER

Contract 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

SUBCONTRACTORS

(See paragraph 5.3.5 of the Instructions to Tenderers)

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:	

NO. _____

APPENDIX 6

FORM OF TENDER

Contract 92344

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

Bid Bond

\$_____

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 ______, 2025, 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 , 2025.

SIGNED, SEALED AND DELIVERED In the presence of:

)
)
)
)

PRINCIPAL

SURETY

a Bona

FORM OF TENDER

Contract 92344 Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

CERTIFICATE OF COMPLIANCE for CONTRACT INSURANCE

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

Contract Number: 92344

Contract Name: Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

Description of Work:

- Concrete sidewalk, driveway letdown, and driveways: Approx. 1650 sq.m;
- Concrete curb and gutter: Approx. 220 lin.m;
- Asphalt milling: Approx. 3100 sq.m;
- Asphalt paving: Approx. 600 tonnes;
- Other miscellaneous and incidental work as contained in the Contract Documents.

Other miscellaneous and incidental work as contained in the Contract Documents

Commercial General Liability:	\$5,000,000 limit			
Special Coverage Required:	YESNOSpecial Coverage Description() (X) Shoring and Underpinning Hazard() (X) Pile Driving and Vibrations() (X) Excavation Hazard() (X) Demolition	d		
	() (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

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 _____ 2025.

Contract: Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

Reference No. 92344

BETWEEN:

The City of Coquitlam 3000 Guildford Way Coquitlam, B.C. V3B 7N2

(the "Owner")

AND:

(the "Contractor")

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

1 THE WORK - START/COMPLETION DATES

- 1.1 The *Contractor* will perform all *Work* and provide all labour, equipment and material and do all things strictly as required by the *Contract Documents*.
- 1.2 The *Contractor* will commence the *Work* in accordance with the *Notice to Proceed*. The *Contractor* will proceed with the *Work* diligently, will perform the *Work* generally in accordance with the construction schedules as required by the *Contract Documents* and will achieve *Substantial Performance* of the *Work* on or before **October 30, 2025**, subject to the provisions of the *Contract Documents* for adjustments to the *Contract Time*.
- 1.3 Time shall be the essence of the Contract.

2 CONTRACT DOCUMENTS

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

3 CONTRACT PRICE

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

4 PAYMENT

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

5 **RIGHTS AND REMEDIES**

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

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

6 NOTICES

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

The Owner:

The Contractor:

The City of Coquitlam 3000 Guildford Way Coquitlam, B.C. V3B 7N2

Tel: 604-927-3500

Tel: Email: Attention:

The Contract Administrator:

The City of Coquitlam 3000 Guildford Way Coquitlam, B.C. V3B 7N2

Tel: Email: Attention:

- 6.2 A communication or notice that is addressed as above shall be considered to have been received:
 - a) immediately upon delivery, if delivered by hand; or
 - b) immediately upon transmission if sent or received by email; or
 - 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*.

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:

The City of Coquitlam

(MANAGER, CAPITAL PROJECTS AND INSPECTIONS) Representative as Per G.C. 17

(SENIOR MANAGER, DESIGN AND CONSTRUCTION)

Draycott, Haversley and Cornell Sidewalks, and Cornell Pavement Rehabilitation

Reference No: 92344

<u>Schedule 1</u>

Schedule of Contract Documents

(INCLUDE IN LIST <u>ALL</u> 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.

<u>NOTE</u>: The documents noted with "*" are contained in the "Master Municipal Construction Documents – General Conditions, Specifications and Standard Detail Drawings", edition dated 2009. All sections of this publication are included in the *Contract Documents*.

- 1. Agreement, including all Schedules;
- 2. The following Addenda:
 - As issued
- 3. Supplementary General Conditions, if any;
- 4. General Conditions*;
- 5. Supplementary Specifications, if any;
- 6. Detail Specifications, if any;
- 7. Specifications*;
- 8. Supplementary Detail Drawings, if any;
- 9. Standard Detail Drawings*;
- 10. Executed Form of Tender, including all Appendices;
- 11. Drawings listed in Schedule 2 to the Agreement –"List of Drawings", if any;
- 12. Instructions to Tenderers;
- 13. COQUITLAM "Supplementary Specifications Master Municipal Construction Documents" March 2022

Reference No: 92344

<u>Schedule 2</u>

LIST OF DRAWINGS

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

Bound in this Document:

Appendix A: Traffic Management Plan

Appendix B: Standard Detail Drawings

Bound Separately: Contract Drawings

TITLE	SHEET NO.	REVISION NO.	DATE
COVER	-	-	-
GENERAL NOTES	1/10	С	2025/05/15
TYPICAL SECTIONS – CORNELL AVE	2/10	С	2025/05/15
TYPICAL SECTIONS – DRAYCOTT ST AND HAVERSLEY AVE	3/10	С	2025/05/15
SIDEWALK AND ROADWORKS – CORNELL AVE – STA 0+000 TO 0+150	4/10	С	2025/05/15
SIDEWALK AND ROADWORKS – CORNELL AVE – STA 0+150 TO 0+300	5/10	С	2025/05/15
SIDEWALK AND ROADWORKS – CORNELL AVE – STA 0+300 TO 0+430	6/10	С	2025/05/15
SIDEWALK CONSTRUCTION – DRAYCOTT ST – STA 0+000 TO 0+100	7/10	С	2025/05/15
SIDEWALK CONSTRUCTION – DRAYCOTT ST – STA 0+100 TO 0+210	8/10	С	2025/05/15
SIDEWALK CONSTRUCTION – HAVERSLEY AVE – STA 0+000 TO 0+090	9/10	С	2025/05/15
SIDEWALK CONSTRUCTION - HAVERSLEY AVE - STA 0+090 TO 0+200	10/10	C	2025/05/15

Supplementary General Conditions

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SUPPLEMENTARY GENERAL CONDITIONS

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4.2	Safety	
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1.0	DEFINITIONS		
1.1	Abnormal Weather	1.1.1	(Replace clause 1.1.1 as follows): Abnormal Weather" means temperature, precipitation, wind or other weather conditions in which the monthly average, differs from the statistical average for that condition in that period by more than one standard deviation, calculated based on data available from Environment Canada. Coquitlam's Burke Mountain Rain Gauge will be used to compare the rainfall summary versus the available data from Environment Canada. <u>City of Coquitlam Rainfall</u>
2.0	DOCUMENTS		
2.2	Interpretation	2.2.4 (1)	(Replace clause 2.2.4 (1) as follows): The Contract Documents shall govern and take precedence in the following order as listed in Schedule 1 of the Agreement, taking precedence over all Contract Documents.
4.0	CONTRACTOR		
4.1	Control of the Work	4.1.1	(Add to clause 4.1.1 as follows): The Contract Administrator is responsible for all survey layout for the construction of the Work to the design specifications and/or elevations as shown on the contract drawings or as amended on site by the Contract Administrator, unless otherwise described in the Contract Document.
		4.1.2	(Add to clause 4.1.2 as follows): The Contractor shall not deposit any material upon any street, sidewalk, boulevard or other property, without the Contract Administrator's or the Owner's permission, nor shall they allow the same to remain longer than necessary. All surplus spoil and rubbish and other waste material shall be removed from the site so that the area of work is cleaned up and restored to as clean a condition as it was before the Contract started, within four days of the Contract Administrator's written request to do so, failing which the Owner may carry out the work or have the work carried out by others and recover the costs from the Contractor or may deduct the cost from any monies due or that may become due to the Contractor.
		4.1.3	(Add new clause 4.1.3 as follows):

Work can be performed during the normal weekday working hours of 0700h to 1900h, unless specified

	COQUITLAM ct No. 92344	Suppleme	entary General Conditions	SGC-4
			otherwise in Supplementary Specifications Traffic Management Detail Specificat permission from the Contract Adminis required for any works to be performed normal working days of Monday to Friday.	tions. Written trator will be
			No Sunday work will be permitted, exc emergency and then only with the written pe Contract Administrator and to such exten necessary.	ermission of the
			In case the Contractor decides to work on a Statutory Holiday, they shall provide Administrator in writing at least (4) days in a holiday, stating those places where said conducted. In case the Contractor fails to g in advance of any Statutory Holiday, no v terms of the contract shall be done on such	the Contract advance of such work is to be give such notice work within the
			The cost of inspections on a Sunday or Holiday by City staff/s will be at Contract	-
4.2	Safety	4.2.2	(Add new clause 4.2.2 as follows): In an emergency, gas pipeline rupture o FortisBC's 24 Hour Emergency Line (1-800 Coquitlam Fire (911) immediately and then Cit Utility Control Centre (604-927-6287).	-663-9911) and
4.3 Protection of Work, Property and the Public	4.3.1	(<i>Replace clause 4.3.1 as follows</i>): In performing the Work, the Contractor sh Work and the Owner's property and other per from damage. The Contractor shall at the C expense make good any such damage white result of the Contractor's operations. If causes damage to private property, the C obtain a written release from the owner of property.	erson's property ontractor's own ch arises as the the Contractor Contactor must	
		4.3.5.1	<i>(Add clause 4.3.5.1 as follows):</i> The Contractor shall notify the Contract immediately if damage occurs to any City utility or structure.	
		4.3.7	(Add new clause 4.3.7 as follows): Any lands other than those upon which th performed, which may be required for temp storage purposes or access to the work so those provided by the <i>Owner</i> , shall be p	porary facilities, site, other than rovided by the

Contractor at their own cost, with no liability to the *Owner*.

4.6	Construction Schedule	4.6.1	(<i>Replace clause 4.6.1 as follows</i>): The Contractor shall within the time set out in the Form of Tender prepare and submit to the Contract Administrator for their approval a construction schedule (the Baseline Construction Schedule) indicating the planned start and completion dates of major activities of the Work. The Baseline Construction Schedule shall be in more detail than the Preliminary Construction Schedule and shall indicate completion of the Work in compliance with any specified Milestone Dates, including Substantial Performance.
		4.6.6	(<i>Replace clause 4.6.6 as follows</i>): The time for the performance of the Work shall commence on the date specified in the Notice to Proceed, or if not so specified, on the date the Notice to Proceed is issued. The Notice to Proceed will not be issued until the documentation required under paragraph 5.1.1 of the Form of Tender has been submitted and the construction schedule has been approved.
		4.6.8	(<i>Add new clause 4.6.8 as follows):</i> Construction on Cornell Avenue cannot begin until the watermain construction is complete. The new watermain is currently being installed on Cornell Avenue and is expected to be completed by July 15, 2025.
4.7	Superintendent	4.7.4	(Add new clause 4.7.4 as follows): The key personnel named in the Contractor's Tender response, shall remain in these key positions throughout the project. In the event that key personnel leave the Contractor's firm, or for any unknown reason are unable to continue fulfilling their role, the Contractor must propose a suitable replacement, and obtain written consent from the Owner. Acceptance of the proposed replacement is at the sole discretion of the Contract Administrator and the Owner.
4.8	Workers	4.8.2	(Add new clause 4.8.2 as follows): The Contractor shall, upon the request of the Contract Administrator, remove any person employed by them for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted themselves improperly, and the Contractor shall not permit a person who has been removed to return to the Place of Work.

4.9	Materials	4.9.3	 (Add new clause 4.9.3 as follows): The Contractor shall, at their cost, a) Be responsible for storing all of the materials supplied for the Work either by themselves 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 themselves or the Owner to ensure that delivery will coincide with their 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 found to be stolen, missing or damaged while under their care; f) Replace all materials found to be defective in manufacture which have been supplied by themselves.
4.11	Subcontractors	4.11.3	(<i>Replace clause 4.11.3 as follows</i>): The Contractor shall, upon notice of the Contract Administrator, remove any Subcontractor employed by them for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted themselves 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.
4.12	Test and Inspections	4.12.1	(Replace clause 4.12.1 as follows): The Contractor shall perform or cause to be performed all tests, inspections and approvals of the Work as described in the Contract Documents or a required by the Contract Administrator as part of Quality Control. The Contractor shall complete all the necessary testing at the frequencies described in the Contract Document unless otherwise approved by the Contract Administrator. Acceptable test and inspection results will not relieve the Contractor of its obligations under the Contract to correct defects or deficiencies in the Work.

4.12.11 (Add clause 4.12.11 as follows):

	COQUITLAM t No. 92344	Suppleme	entary General Conditions	SGC-7
			Failure to follow DFO/FLNRO BMPs and permit for Instream Works or as instructed Administrator will result in shut-down of t Contractor must take all steps to mitigat aquatic resources, environment and habitat can re-start on site. No claim will be accepted for costs associated with this work shut-dow	ed by Contract the work. The te impacts to ts before work d by the Owner
4.14	Final Clean-up	4.14.1	(Replace clause 4.14.1 as follows): Prior to applying for Substantial Perf Contractor shall remove all surplus pr construction machinery and equipment r Work that is not required for the perfor remaining Work. The Contractor shall also debris and waste products other than caused or Other Contractors, and leave the Place of V suitable for occupancy by the Owner un specified in the Contract Documents or d Contract Administrator.	oducts, tools, elating to the mance of the remove waste, d by the Owner Work clean and less otherwise
4.16	Notice of Disruption	4.16.2	(Add new clause 4.16.2 as follows): Written notice must be provided to all proper be physically affected by the construction no week and not more than two weeks prior to Notify occupants directly affected by the wo advance of commencement of construct notifying area occupants of ensuing cor delivery of the notices is incidental to the Co	ot less than one construction. Ork 48 hours in ion. Cost of nstruction and
7.0	CHANGES			
7.1	Changes	7.1.3	<i>(Replace clause 7.1.3 as follows):</i> Additional work that the Owner may wished does not satisfy the requirements of subpara (b) of GC 7.1.1 is extra work (Extra Work Change. Pursuant to GC 8, Extra Work may the Contractor or may, upon agreement parties, be undertaken as Extra Work.	agraphs (a) and) and is not a be declined by
7.4	Optional Work	7.4.2	(Add new clause 7.4.2 as follows): If there are Optional items or Provisional ite the Schedule of Quantities and Prices, those used only as directed and at the sole dis Contract Administrator through the issue Order. These items will be paid at the contra part of regular progress payments. Only of will be eligible for payment. No claim will be	items shall be scretion of the of a Change act unit price as quantities used

CITY OF COQUITLAM Contract No. 92344		Supplementary General Conditions SGC-		SGC-8
			unused Optional or Provisional quantities. Quantity Variations will not be applicable for t	
9.0	VALUATION OF CHANGES AND EXTRA WORK			
9.2	Valuation Method	9.2.4	(<i>Replace clause 9.2.4 as follows</i>): Once a quotation is accepted by the Contract A or other agreement reached between Administrator and the Contractor regarding a the Contract Price or Contract Time on accour or Extra Work, the Contractor shall not be en or receive additional payment, or adjust Contract Time on account of a Change or Extra	the Contrac djustments to nt of a Change titled to claim ment to the
9.4	Quantity Variation	9.4.1	(<i>Replace clause 9.4.1 as follows</i>): If for any reason, including an addition or deler 7.1.1(1) or 7.1.1(2) respectively, the actual qua price item varies by more than plus or minus Threshold Percentage from the estimated qu unit price item listed in the Schedule of Q Prices (the "Tender Quantity") or as otherw pursuant to these Contract Documents, th Owner or the Contractor may by written notice other party to agree to a revised unit price, co change in quantities. A party shall make a revised unit price as soon as reasonably post party concerned becomes aware of the quant	antity of a uni s the Variance antity for tha uantities and ise agreed to en either the ce request the onsidering the request for a sible after the
		9.4.2	(Delete clause 9.4.2 (2)	
10.0	FORCE ACCOUNTS			
10.1	Force Account Costs	10.1.1(1)	(Add to clause 10.1.1(1) as follows): Costs for the Contractor's Superintene Managers, Health and Safety Pers Office/Administration Staff are not eligible for as those costs are considered incidental to owing for overhead and labour.	onnel, and r labour cost
		10.1.1(4)	(<i>Replace clause 10.1.1(4) as follows):</i> Force Account Work performed by a subcontripaid for in the lesser of: (i) the amount subparagraphs (1), (2) and (3) of this GC, plus 5%, or (ii) the actual amount the Contract subcontractor including a mark-up of 10% of costs to cover all overhead and profit.	provided by a mark-up o tor pays the

	COQUITLAM t No. 92344	Suppleme	entary General Conditions	SGC-9
12.0	HAZARDOUS MATERIALS			
12.2	Discovery of Hazardous Materials	12.2.2	<i>(Replace clause 12.2.2 as follows):</i> If the Contract Administrator observes Place of Work that the Contract Adm suspects may be Hazardous Material Administrator shall immediately give Contractor and the Contractor shall in Work or portion of the Work as require	ninistrator knows or s, then the Contract written notice to the mmediately stop the
13.0	DELAYS			
13.1	Delay by Owner or Contract Administrator	13.1.2	(Add new clause 13.1.2 as follows): The Owner may at any time susper portion thereof provided they give th days' written notice of delay. The Con work upon written notice from the Ow shall be entitled to:	e Contractor five (5) tractor shall resume
			a) An extension of the Contract tin length of suspension of work.	ne equivalent to the
			 Reimbursement by the Owner for of-pocket additional costs, reason incurred by the Contractor as suspension. No additional paym the Contractor for any loss of pro- 	hably and necessarily s a result of such hent will be made to
13.3	Unavoidable Delay	13.3.1	<i>(Add to clause 13.3.1 as follows):</i> Beyond the reasonable control of includes pandemic or community outb	
13.8	Direction to Stop or Delay	13.8.3	<i>(Add new clause 13.8.3 as follows):</i> The Contract Administrator may orde stop work if at any time the Contract A opinion that there exists a danger to li	dministrator is of the
13.9	Liquidated Damages for Late Completion	13.9.1	 (Replace clause 13.9.1 as follows): If the Contractor fails to meet the Substantial Performance as set out in paragraph 2.2 as may be adjuste provisions of the Contract Documents, deduct from any monies owing to the Work: (1) An amount of \$1,000.00 for each actual Substantial Performance Substantial Performance Miles 	the Form of Tender, d pursuant to the then the Owner may e Contractor for the ach calendar day the is achieved after the

CITY OF COQUITLAM Contract No. 92344		Supplem	entary General Conditions	SGC-10
			(2) All direct out of pocket costs, safety, security or equipment incurred by the Owner as a di delay.	rental, reasonably
18.0	PAYMENT		If the monies owing to the Contractor ar amount owing by the Contractor to the C (2) then any shortfall shall immediately, from the Owner, and upon Substantial P and owing by the Contractor to the Owr	Owner under (1) and upon written notice erformance, be due
18.1	Preparation of Payment Certificate	18.1.1	<i>(Replace clause 18.1.1 as follows):</i> The Contract Administrator shall pre certificate for the period ending the last month.	•
18.4	Holdbacks	18.4.2	(Add to clause 18.4.2 as follows): At the sole discretion of the Contract amount equivalent to 10% of the contr 200% of a reasonable estimate, whicheve held without interest until all defici remedied and accepted by the Contract	act award value or er is higher, may be encies have been
18.6	Substantial Performance	18.6.5	<i>(Replace clause 18.6.5 as follows):</i> The Owner may release any builders lie <u>56th day</u> following the date of Substant other date as required by law, but the Ow the amounts for any deficiencies or file provided in GC 18.4.2, 18.4.3 and 18.4.4.	ial Performance, or wner may hold back ed builders liens as
		18.6.6	(Replace clause 18.6.6 as follows): The Contract Administrator, as defined by Payment Certifier responsible under Sect Lien Act for certifying Substantial Perform the Contractor, but not the Work of Sec Contractor shall cooperate with and a Administrator by providing information timely manner as the Contract Admin necessary to carry out the duties of the by the Contract.	ion 7 of the <i>Builders</i> <i>bance</i> of the <i>Work</i> of <i>ubcontractors</i> . The assist the <i>Contract</i> and assistance in a <i>nistrator</i> considers
			The <i>Contractor</i> shall be the <i>Payment C</i> under Section 7 of the <i>Builders Lien</i> <i>Substantial Performance</i> of the <i>Work</i> of <i>P</i> Prior to certifying completion for a <i>Contractor</i> shall consult the <i>Contract</i> obtain the <i>Contract Administrator's</i> comp of completion by the <i>Subcontract</i> deficiencies or defects in the <i>Subcontract</i>	Act for certifying each Subcontractor. Subcontractor, the Administrator and nents on the status or, including any

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.

- 19.0 TAXES, DUTIES AND GST
- **19.4 Tariffs or Duties** 19.4.1

Tariffs or Duties refer to taxes, levies, or charges imposed by any level of government (including foreign governments) on imported or domestic goods, materials, or equipment used in the performance of the Work. The Contract Price is based on the tariffs and duties in effect as of the date of the Tender Closing. If, after the Tender Closing Date, any new Tariffs or Duties are imposed, or existing rates are materially increased, and such changes directly and demonstrably affect the cost of materials or equipment required for the performance of the Work, the Contractor shall notify the Contract Administrator in writing within ten (10) Working Days of becoming aware of such change, providing supporting documentation, including but not limited to:

- (1) Affected materials
- (2) Quantity and cost impact
- (3) Evidence of original and new tariff rates
- (4) Reasonable efforts made to mitigate the cost impact (e.g., sourcing alternatives)
- 19.4.2 If the Contract Administrator is satisfied that the Contractor has incurred additional direct costs solely due to the change in Tariffs or Duties, the Owner will issue a Change Order to adjust the Contract Price accordingly. No adjustment shall be made for Tariffs or Duties that were publicly announced or reasonably foreseeable before the Tender Closing Date.
- 19.4.3 This clause does not apply to costs incurred due to delays caused by the Contractor's procurement or supply chain management. It also does not apply if the Contractor fails

	COQUITLAM t No. 92344	Supplemer	ntary General Conditions	SGC-12
			to take reasonable steps to mitigate the change.	e impact of the
		19.4.4	If the imposition of new Tariffs or unavoidable delays in material delivery, the request an extension of the Contract Time subject to approval by the Contract Admini	Contractor may under GC 13.3,
21.0	WORKERS COMPENSATION REGULATIONS			
21.2	Contractor is "Prime Contractor"	21.2.1	(Add to clause 21.2.1 as follows): Prior to the issuance of the "Notice to Contractor must provide a signed "Pr Designation" form as provided in Appen Supplementary General Conditions.	ime Contractor
24.0	INSURANCE		(Replace section 24.0 as follows):	
24.1	General	24.1.1	Importance of Prompt Attention to Insur Requirements: The Contractor shall provide the Owner wevidence that the insurance required to be this GC is in full force and effect.	vith satisfactory
		24.1.2	Acceptable Insurance Carriers: The insurer issuing any policy, or other dou evidence of insurance to the Contractor, sh licensed by the Superintendent of Insurance of British Columbia and registered with the Insurance for Canada in Ottawa, except Corporation of British Columbia, which is no condition.	all be an insurer e in the Province e Department of the Insurance
		24.1.3	Owner's Right to Change Terms: Notwithstanding anything contained in Documents, the Owner will have the rig change to the specified terms and condit insurance at the sole option of the Owner. will be notified in writing of any changes Owner and will provide a quotation for such	ht to request a ions respecting The Contractor required by the
		24.1.4	Delivery of Insurance Documents: All insurance policies or other accep documents shall be delivered to, and ac Owner before the Contract Documents are s shall be commenced by the Contractor or b	ccepted by, the signed. <u>No work</u>

CITY OF COQUITLAM Supple		entary General Conditions	SGC-13
Contract No. 92344			
		on the instructions of the Contractor Insurance Documents have been acce and the Contract Documents have bee Owner and the Contractor.	epted by the Owne
	24.1.5	Owner's Right to Insure: Should the Contractor for any reason specified requirements with respect to Owner will, at the Owner's option, purchase all or any part of such insu opinion of the Owner, may be requ specified insurance, and, in the ever	o the insurance, the have the right to rance which, in the ired to provide the

Owner will have the right to pay the premiums for such insurance and to withhold the amount of premiums so paid from any amount due and payable to the Contractor under the Contract.

24.2 Required Insurance

24.2.1 General

Damage to work (excluding Building Contracts where Section 24.3, Paragraph 24.3.1, Further Responsibilities of Contractor, applies).

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

Contractor's expense, except where such loss or damage was caused solely by an act of the Owner.

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

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

(Other than Automobile Third Party Liability Insurance):

Evidence of Insurance:

The Contractor shall deposit with the Owner, before the work commences, a Certificate of Insurance, signed by an

authorized representative of the insurer, such certificate to be as shown in Appendix III.

Effective Dates and Terms:

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

Limits of Liability:

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

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

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

24.3 Physical Loss or 24.3.1 **Responsibility for Placing Insurance:** Damage With The types of insurance required under this section will be **Respect to New** provided and maintained at the expense of the City of Coquitlam during the term of the Contract and will be as **Buildings under** Construction follows unless otherwise changed by specific endorsement and/or Maior to these Insurance Specifications. Additions to **Existing Structures**

24.3.2 **Insurance Coverage Required:**

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

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

The insurance provided by the City of Coquitlam as described herein will not provide the Contractor with full protection against any and all kinds of loss or damage which may arise out of the Contract. It is, therefore, the responsibility of the Contractor to fully understand the

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

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

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

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

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

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

The Contractor hereby releases the City of Coquitlam from any and all liability for damages to the extent that such damages are covered by the course of construction insurance referred to in Section 24.3 of these specifications.

24.3.7 Liability of Contractor:

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

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

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

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

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

24.3.10 **Further responsibility of Contractor:**

Other than with respect to loss or damage arising out of insured risks and herein before specified, the Contractor shall be responsible for all loss or damage whatsoever which may occur on or to the works completed or

otherwise, until such time as the entire works have been completed and the Notice of Acceptance has been issued by the Owner, except that loss or damage caused solely by an act of the Owner.

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

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

The Owner will not be responsible for securing or paying for insurance of any kind other than as specified in Section 24.3 of these specifications nor will the Owner have any responsibility whatsoever for loss or damage from whatever cause occurring to property owned, leased, or otherwise in the possession of the Contractor, subcontractors or their employees including, without restricting the generality of the foregoing, machinery, equipment, tools, supplies, and clothing at the construction site or elsewhere including loss of use of same.

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

The City of Coquitlam

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

25.0 MAINTENANCE PERIOD

25.1Correction of
Defects25.1.4(Add new clause 25.1.4 as follows):
The Owner is authorized to make repairs to defects or
deficiencies if, ten days after giving written notice, the
Contractor has failed to make or undertake with due

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

CITY OF COQUITLAM Contract No. 92344		Supplementary General Conditions SG		SGC-18
			Maintenance Security, or other holdbacks. shall promptly pay any shortfall.	The Contractor
27.0	CONTRACTOR PERFORMANCE EVALUATION	27.1	<i>(Add new clause 27.1 as follows):</i> After the completion of the Contract, the C evaluated on their performance of th evaluation will provide percentage scores categories:	ne Work. The
			1. Contract Administration	
			2. Construction Management	
			3. Schedule Management	
			4. Communications	
			5. Resource Management and Contract	or Performance
			6. Quality Management	
			An evaluation summary report may be issued with scores for each of these categories. L Contractor may attend a meeting with the C evaluation.	lpon request, the
			This internal evaluation may be reviewed subsequent tenders with the City. Evaluation part of the tender analysis and influence decisions. Evaluation Scores in categories that are belo in a suspension of tendering privileges with t	o scores can form contract award w 50% may result

APPENDIX I

PERFORMANCE BOND

NO._____

KNOW ALL MEN BY THESE PRESENTS THAT

\$

As Principal, hereinafter called the Principal, and

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

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

_____Dollars (\$)

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

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

day of______20___, for

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

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

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

- 1. Complete the Contract in accordance with its terms and conditions, or
- 2. Obtain a bid or bids for submission to Obligee for completing the Contract in accordance with its terms and conditions, and upon determination by Obligee and Surety of the lowest responsible bidder, arrange for a contract between such bidder and Obligee and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term 'balance of the contract price', as used in this paragraph, shall mean the total amount payable by Obligee to Principal under the Contract less the amount properly paid by Obligee to Principal.

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

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

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

IN TESTIMONY WHEREOF, the Principal has hereto set its hand and affixed its seal, and the Surety has caused these presents to be sealed with its corporate seal duly attested by the signature of its Attorney-in-fact, this _____day of ______20____.

SIGNED, SEALED and DELIVERED In the presence of

>)))

))

CITY OF COQUITLAM

Contract No. 92344

PRINCIPAL

SURETY

File #: 11-5330-20/92344/1 Doc #: 5500572.v1

APPENDIX II

LABOUR AND MATERIAL PAYMENT BOND

(Private Contracts – Trustee Form)

NO._____

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

KNOW ALL MEN BY THESE PRESENTS THAT

As Principal, hereinafter called the Principal, and

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

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

___Dollars

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

SIGNED AND SEALED this _____day of _____, 20___.

WHEREAS, the Principal has entered into a written contract with the Obligee dated the______ day of______, 20____, for

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

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

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

File #: 11-5330-20/92344/1 Doc #: 5500572.v1

- 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 equipment was used in the performance of the Contractors' Equipment" published prior to the period during which the equipment for the equipment was used in the performance of the Contractors' Equipment" published prior to the period during which the equipment was used in the performance of the Contractors' Equipment" published prior to the period during which the equipment was used in the performance of the 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

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.

This Certificate is issued to: Α. Named Insured and Mailing Address: **City of Coquitlam** 3000 Guildford Way Coquitlam, BC V3B 7N2 Β. CONTRACT NUMBER AND/OR NAME Description of the Work: C. **INSURANCE POLICY** Name of Insurer: Liability Limit: Policy Number: Effective Date: Expiry Date: D. **INSURANCE COVERAGE** COMMERCIAL GENERAL LIABILITY coverage is required to insure against liability from the activities arising out of operations or work in connection with the above-described project, including liability arising out of the use of City property. The minimum limit shall be \$5,000,000.00 inclusive per occurrence against bodily injury, personal injury and property damage. D.1 The City of Coquitlam, its employees, officers, agents and volunteers are added as Additional Insureds, but only with respect to D.2 operations conducted by or on behalf of the Named Insured in connection with the above-described project, operations or work. This insurance shall be primary as regards the City of Coquitlam, its employees, officers, agents and volunteers as Additional Insureds. D.3 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: YFS NO Special Coverage Description) (X) Shoring and Underpinning Hazard ((X) Pile Driving and Vibrations () (X) **Excavation Hazard**) (Demolition) (X) (() (X) Blasting Authorized Signature and Stamp Date Name and Title

City' broker to return to City Representative

Department

Coouitlam

APPENDIX IV

PRIME CONTRACTOR DESIGNATION

Owner:	CITY OF COQUITLAM
Contractor:	
Contract / Permit #:	92344
Project / Workplace:	Draycott, Haversley and Cornell Sidewalks, and
	Cornell Pavement Rehabilitation (the "Project")

By signing this Prime Contractor Designation form, the Contractor hereby:

- agrees to be, and accepts designation as, the "prime contractor" for the purposes of the Workers Compensation Act, R.S.B.C. 2019, c. 1 (the "Act") and the Occupational Health and Safety Regulation, B.C. Reg. 223/2022 (the "Regulation") in respect of the Project and Workplace noted above;
- 2. represents and warrants that the Contractor is qualified and capable to perform the duties of prime contractor and that the undersigned signatory has the authority to accept designation as prime contractor and to bind the Contractor;
- 3. accepts the duty and responsibility for ensuring the activities of employers, workers and other persons at the Workplace relating to occupational health and safety are coordinated and agrees to do everything that is reasonably practicable to establish and maintain a system or process that will ensure compliance with the Act and the Regulation in respect of the Workplace;
- 4. covenants and agrees to comply with the occupational health and safety provisions of the Act, the Regulation, any other applicable regulations under the Act, and any applicable orders;
- 5. acknowledges and agrees that the Owner has provided the Contractor the information known to the Owner that is necessary to identify and eliminate or control hazards to the health or safety of persons at the Workplace; and
- 6. agrees that the designation as prime contractor hereunder may not be assigned or revoked without the prior written consent of the Owner.

Prime Contractor Name:			
Prime Contractor			
Address:			

Date

Print Name

Prime Contractor Signature

Please return a signed copy of this designation to the City of Coquitlam, 3000 Guildford Way, Coquitlam, BC, V3B 7N2. If you have any questions, please contact the City of Coquitlam Health & Safety Manager at 604-927-3070.

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

File #: 11-5330-20/92344/1 Doc #: 5500572.v1

Supplementary Contract Specifications

These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings File #: 11-5330-20/92344/1 Doc #: 5498228.v1

Supplementary Contract Specifications

to the MASTER MUNICIPAL SPECIFICATIONS Volume II – Platinum Book

DRAYCOTT, HAVERSLEY AND CORNELL SIDEWALKS, AND CORNELL PAVEMENT REHABILITATION

CONTRACT 92344

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

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01 55 00S	Traffic Control, Vehicle Access and Parking		
01 57 01S	Environmental Protection		
01 58 01S	Project Identification		
03 30 205	Concrete Walks, Curbs and Gutters		
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31 11 41S	Shrub and Tree Preservation		
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These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings File #: 11-5330-20/92344/1 Doc #: 5498228.v1

1.00	CONTRACT SPECIFIC INSTRUCTIONS			
1.01	Schedule of Work	The sidewalk construction and pavement rehabilitation on Cornell Avenue may not begin until the watermain construction is complete. The new watermain is currently being installed on Cornell Avenue and is expected to be completed by July 15, 2025.		
4.00		The concrete sidewalk, curb and gutter, and driveway tie-ins must be completed on Cornell Avenue prior to final pavement rehabilitation.		
1.02	Coordination of Work	The Contractor shall be responsible to consult with all affected businesses, residents, transportation companies regarding delays, detours, and any other works affecting any transit service in the area, and will be responsible to coordinate the works with City crews and other contractors working in the area. If working area is to become a multiple-employer workplace as defined by WorkSafe BC, the Contractor shall remain the Prime Contractor.		
1.03	Outside Agency Approval	In accordance with the Contract Documents, the Contractor is responsible to consult with and obtain any approval required to meet and comply with all the conditions required from outside agency such as, but not limited to, BC One Call, Metro Vancouver, BC Hydro, Telus, Kinder Morgan, and Fortis BC in the area of the place of Work.		
1.04	Transmountain Pipeline Proximity	Sidewalk construction on Haversley Avenue is in the proximity of the Transmountain Pipeline, therefore a permit must be obtained prior to any work taking place in the area.		
1.05	Waste Collection Coordination	 Contractor is responsible to accommodate all waste collection vehicles and cart pick up schedules throughout construction. Collection schedule can be found in <u>https://www.coquitlam.ca/157/Collection-Calendar-Guidelines</u>. 		
		 If waste collection will be impacted the contractor is responsible to: Provide advanced notification to: The City's Solid Waste staff at 604-927-3500 or wastereduction@coquitlam.ca; and The City's Contract Administrator. Provide access for collection trucks to closed streets due to road work; or Move waste carts for collection: 		
		 3. Contractor's Request for Change in Collection Time (e.g. PM to AM): The Contractor must provide residents with as much notice as possible – minimum 5 working days. The contractor must follow all conditions of Clause 1.04 and is responsible to deal with any missed collections. For example, taking garbage to the United Boulevard Recycling and Waste Centre or covering the cost associated for any missed collection to be rescheduled. 		
		Questions: wastereduction@coquitlam.ca		
1.06	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 Collections (garbage/recycling pick-up) 		

• City Maintenance (or representatives)

These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings File #: 11-5330-20/92344/1 Doc #: 5498228.v1

• Other City Contractors

1.07	Site Safety	The Contractor is responsible to ensure the construction site is safe at all times for workers, pedestrians, cyclists, and vehicle traffic. During non-working hours, the Contractor must ensure that the site has all potentially hazardous areas appropriately identified and protected, and must provide appropriate signage, lighting, and markings for the direction of vehicle, cyclist, and pedestrian traffic, all to ensure the safety of the public. Supply and use of this equipment is considered incidental to the contract.	
		Manhole lids, valve boxes and other appurtenances within the roadway that may present a traffic hazard during construction must be clearly marked for traffic.	
		Manhole lids left raised in preparation for paving must have a rubberized protector ring painted with bright color for traffic safety. Supply and use of this equipment is considered incidental to the contract.	
1.08	Hours of Work	The Contractor shall refer to Appendix A: Traffic Management Detail Specifications.	
		The Contractor must take the above information into account in the preparation and submission of the Tender.	
1.09	Survey Layout	Construction layout will be staked out by the Contract Administrator as outlined in Supplementary General Conditions.	
1.10	Location of Existing Utilities	The contractor is responsible to verify the depth and location of all utilities (watermains, storm mains, sanitary mains & etc.), including outside agency utilities (i.e. Fortis BC Gas Mains & etc.) and service connections (water, storm & sanitary services at the mains & property lines) by hand digging or by Hydro-Vac in the presence of the Inspector.	
		Pre-locates must be completed as soon as possible after award of the contract so changes can be completed by the Engineer prior to site construction. Contact Metro Vancouver for location of their utilities and BC One for location of other outside agency utilities. The contactor will not receive any compensation or allowance for delays if work is halted due to utilities & services connections not located prior to commencing construction.	
		City of Coquitlam does not guarantee water, storm or sanitary services connections are perpendicular to the mains or property lines, the contractor will not receive any compensation for the time to locate these connections or for exposing hidden services at the property lines.	
		Payment for this work will be treated as incidental to payment for work described in other sections.	
1.11	Approved Materials	Refer to the City of Coquitlam website at <u>https://coquitlam.ca/263/Subdivisions</u> for the List of Approved Materials and Products which are to be incorporated.	
1.12	Manholes & Valves	Access to manholes and valves must be maintained at all time for city utilities crews and external utility companies. In case of an emergency the cost for exposing any buried manhole or valve covers during construction will be paid by the contractor.	
1.13	Verification of Dimensions and Quantities	Before proceeding with work the Contractor shall visit the site and check and verify dimensions and quantities. Report variations between drawings and site conditions to the Contract Administrator before proceeding with work. Payment for this work will be treated as incidental to payment for work described in other Sections.	

SUPPLEMENT	АКҮ	SECTION 00 72 435 SS 4
SPECIFICATIO	NS	CONTRACT SPECIFIC NOTATIONS 2025
1.14	Precautions	Protect areas under construction from damage caused by excessive erosion, flooding, heavy rains, etc. Repair or replace unprotected damaged areas as directed by the Contract Administrator at no cost to the Owner.
1.15	Work by Others	The Contractor is required to accommodate the City crews, Contractors, Developers and Utility companies in their scheduling and sequencing of work at no cost to the Owner.
1.16	FORTIS BC Emergency Protocol	In an emergency, gas pipeline rupture or leak, Contact Fortis BC 24 Hour Emergency Line (1-800-663-9911) & Fire Department (911) immediately and then City Coquitlam Utility Control Centre (604-927-6287)
2.00	CONSTRUCTION ACTIVITY	
2.01	Construction Materials in Sewer Manholes and Pipe	The Contractor is responsible to ensure that construction activities do not deposit construction materials (e.g. gravels) into the storm sewer or sanitary sewer manholes or pipe. The City has a video record of the pipe before construction. Prior to Substantial Performance, the City may again video inspect the lines to ensure no problems exist due to construction activities under this contract. If problems are encountered, the Contractor will be responsible for the cost of the video and all costs associated with the cleaning of the pipe.
2.02	Site Clean-up During Construction and End of Construction	The Contractor will be responsible for the complete clean-up of the work site during construction & at the end of construction and prior to the Substantial Performance review. This work is considered incidental to the Contract.
		The work will include cleaning of all catch basins periodically or as directed by the Contract Administrator within the Work area, or nearby location as affected by the Work. All cleaning is to be performed by vacuum truck to the satisfaction of the Contract Administrator and will include off-site disposal of waste material. Payment for this work will be treated as incidental to payment for work described in other Sections.
3.00	MANDATORY MEETINGS AND CONTRACTOR REPRESENTATIVES AND SUBCONTRACTORS	
3.01	Pre-Construction Meeting Requirements	 After the Award of the Contract, the Contractor (Project Manager & Superintendent) will be required to attend a Pre-Construction Meeting with the Contract Administrator and provide all necessary information required by the Contract Administrator prior to provision of a Notice to Proceed. Items required to be provided at the meeting include: A Detailed Construction Schedule showing the start date & completion date and the durations of major work components showing how all work will be completed within the Contract Duration. Proof of insurance Performance Bond and Labour and Materials Payment Bond WCB Clearance Letter and copy of Notice of Project City of Coquitlam Business License A copy of portions of your Health and Safety Plan including the Title Page, Table of Contents, and portion showing latest revision date.
3.02	Contract Superintendent and Subcontractors	In compliance with the MMCD General Conditions, Section 4.7, Superintendent, the Contractor shall have a competent senior representative, (the "Superintendent") in FULL TIME attendance at the Place of Work while work is being performed for the duration of the contract

duration of the contract.

CONTRACT SPECIFIC NOTATIONS

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

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

The Owner and Contract Administrator are not responsible for the direction of Subcontractors.

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

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

END OF SECTION

3.03 Changes of Contractor Representitives & Subcontractors

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 01 3	
1.0	GENERAL		
1.3	Submission	Delete 1.3.2 and replace with the following	Submit one copy of an accurate project record document in fina form prior to applying for Substantial Performance including an video report, test reports and Operation & Maintenance manua Record documents to include changes in the Issued for Constructio Drawings, new elevation, offsets & location of all utilities, manhol rim, catchbasin rim, vaults, valve boxes, invert walkways/sidewalks, and any unknown/new utilities found on site Legal holdbacks will not be released until complete recor documents, including reports and manuals, have been submitte and accepted by the Contract Administrator.
			Contractor to get sign off letter duly signed by the property owner when private side side is affected by the work. Properties to get th sign off letters will be at the sole discretion of the Contrac Administrator.
			Payment for all work performed under this section will be incidenta to work in other Sections, unless otherwise described in Schedul

of Quantities and Prices.

	EMENTARY	SECTION 01 45 00S		
CONTR SPECIF	ICATIONS	SS 7 QUALITY CONTROL 2025		
1.0	QUALITY	The Contractor shall provide a final product conforming to the Contract Documents and the intent of the work. The work is to be accurate to the dimensional and tolerance requirements of the contract.		
		Payment will be subject to adjustments based on quality assurance tests performed by the Contract Administrator.		
1.1	Quality Control (QC) by Contractor	The MMCD (2009) definition of "Quality Control" is the process by which the <i>Contractor</i> checks specific materials, products, and workmanship to ensure strict conformance with the Contract Documents.		
		The Contractor is fully responsible for quality control of the materials, production, and construction processes. Quality control tests shall be performed by the Contractor, at their own expense, to ensure that products meet the contract specifications.		
		Failure by the Contractor to conduct adequate quality control testing during production and construction will negate the Contractor's ability to appeal the quality assurance tests used for acceptance/rejection of the work.		
		Under no circumstances will QC test results produced after completion of the Quality Assurance (QA) results be considered for appeal purposes.		
		Any changes in the Work with respect to the location, grade, or line shall be approved in advance by the Contract Administrator. Failure to notify the Contract Administrator of changes in writing may result in rejection of Work.		
1.2	Inspection of Work, Quality Assurance, and Material Testing, by the	The MMCD (2009) definition of "Quality Assurance" means the process by which the <i>Owner</i> evaluates if the work is being constructed in accordance with the Contract Documents. This definition will be used for this contract		
	Owner	The <i>Contract Administrator</i> may provide construction review through spot inspections and spot materials testing for Quality Assurance.		
		Any materials testing results indicating a non-conformance to the Contract Documents will require construction corrective action by the Contractor. The Contractor shall have no claim for delays, interruptions, double-handling of materials, rejection of materials, or any other cause brought about it by such tests, including awaiting the outcome of such tests.		
		All subsequent testing to corrective action to verify conformance to the Contract Documents will be the full responsibility of the Contractor.		
		Inspection review by the Owner will not relieve the Contractor from providing a product that meets or exceeds the requirements of the Contract Documents.		
1.3	Inspection	Materials testing shall be as described in MMCD General Conditions, Section 4.12 with the following change:		
		Delete Section 4.12.2(a) and insert the following:		
		Where the MMCD specification clauses for Inspection and Testing indicate the Contract Administrator will arrange for all testing for work described in this section will be amended to read The Contractor will arrange for and pay for all testing for work described in this section. The testing shall take place at the following prescribed rates and as directed by the Contract Administrator. The Contract Administrator has the authority to call for testing, up to the rates and frequencies specified, at the Contractors cost.		
		All testing covered under this item shall be performed by a CCIL certified laboratory and technicians with copies of all test results to be sent directly to the Contract Administrator. Re-testing resulting from failed first tests shall be at the Contractors expense.		

	EMENTARY	SECTION 01 45 00S		
CONTE SPECIE	RACT FICATIONS	SS 8 QUALITY CONTROL 2025		
1.4	Survey Layout	All Survey Layout will be completed by the Contract Administrator in accordance with the Contract Drawings and Coordinate System set out within them. The Contractor will be provided digital AutoCAD files but shall be responsible to confirm elevations and tie in locations and report any discrepancies prior to construction.		
1.5	Testing	Contractor shall carry out inspection and testing (QC) to ensure compliance with Contract Documents. Contractor shall submit test results within one week of testing to the Contract Administrator.		
		The Contractor shall provide test results prior to the preparation of the payment certificate.		
1.6	Contractors Responsibilities	 Furnish labour and facilities to: 1. Provide access to work to be inspected 2. Facilitate inspections and tests 3. Make good work disturbed by inspection and tests 		
1.7	Access to Work	Allow inspection testing agencies access to Work.		
1.8	Tests	Test rates and frequencies (excluding failed tests), when not defined in the MMCD or Detail Specifications Sections shall be at the following frequencies:		
		 Trench Backfilling and Compaction 1.1 Compaction: 1 test / 10 lm / 300mm lift 1.2 Sieve: 1 test / placed material / 50 m³ 		
		 2. Granular Base 2.1 Compaction: 1 test/500m² / 100mm depth of granular base, min. 1 test if < 500m² 2.2 Sieve: 1 test / placed material / 250 TONNES 		
		 3. Granular Subbase 3.1 Compaction: 1 test/500m²/150mm depth of granular subbase, min. 1 test if <500m² 3.2 Sieve: 1 test / placed material / 250 TONNES 		
		 4. Embankment (Subgrade) 4.1 Compaction: 1 test/ 50m² / 0.15m depth of fill, min. 1 test if < 50m² 4.2 Sieve: 1 test / placed material / 100 TONNES 		
		 5. Asphalt 5.1 Marshall test: 1 test per 250 TONNES placed, per mix specified, min. 1 / day ASTM D1559, D3203, C117, C136 5.2 Superpave: 1 test per 250 TONNES placed, per mix specified, min. 1 / day CAI-SP2, ASTM D3203, C117, C136 5.3 Cores: 1 per 500 m²/lift 5.4 Continuous asphalt density testing during paving. 		
		 Subgrade Preparation Compaction & Moisture: 1 test / 500 m², min. 1 test if < 500m² 		
		7.Concrete Tests 7.1 Air, Slump & 1 Set Cylinders: 1 test / 10 m³, min. 1 set / day		
1.9	Measurement for Payment	Payment for all work performed under this section will be incidental to payment for work described in other Sections.		

	MENTARY		SECTION 01 55 00S	
CONTRA SPECIFI	ACT CATIONS	SS 9 TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING 2025		
1.0	GENERAL	Add 1.0.6	The <i>Contractor</i> is responsible for all temporary traffic control on the streets required for completion of the work. The <i>Contractor</i> will be responsible to provide a Traffic Management Plan (TMP) for approval (5) five working days prior to any lane closures taking place. TMP is to be prepared by a qualified professional to the satisfaction of the Contract Administrator.	
			The TMP shall outline the approach to traffic management, show recognition and minimization of risks indicates signing locations, identify Traffic Control Persons (TCP) stations, show lane shifting and proposed closures.	
			The Contractor is responsible to ensure and maintain all business/residential vehicles, cyclists, and pedestrian accesses open at all times. The contractor may provide temporary accesses if the affected owner agrees. All costs associated with temporary accesses will be at the contractor's expense.	
		Add 1.0.7	A Road and Sidewalk Closure Permit is required from Coquitlam for all work affecting pedestrian and traffic flow related to construction. A permit is required for each specific construction interference with pedestrian and traffic flow. The road and sidewalk closure permit form can be obtained for use from the City's website at <u>http://www.coquitlam.ca</u> . The Contractor must follow the approved TMP. Any changes to this TMP must be submitted to City's Traffic Operations for approval.	
		Add 1.0.8	Refer to Appendix A – Traffic Management Detail Specifications.	
1.4	Traffic Control	Delete 1.4.1 and replace with the following	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 for vehicles, cyclists, 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.	
		Add 1.4.9.3.1	The <i>Contractor</i> , as required by the <i>Contract Administrator</i> and the City, is to supply Construction Zone information signs (stationary), refer to MMCD 01 58 01 for the required identification signage.	
			The <i>Contractor</i> is responsible for the removal of the signs at the completion of the work.	

TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING

Delete 1.4.10.1.3 and replace with the following	When workers or equipment are employed over travelled way over brow of hills, around sharp curves or at other locations where oncoming traffic would not otherwise have adequate warning.
Delete 1.5.1 and replace with the following	Payment for all work, including the installation of temporary construction hoarding, includes supply, placement & removal and will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices.

END OF SECTION

1.0	GENERAL		
1.0.3	Erosion and Sediment Control Supervisor	Add 1.03	The Erosion and Sediment Control (ESC) Supervisor is the Qualified Professional who is experienced in implementing ESC Plans and who is responsible for the inspection and monitoring of ESC Facilities to ensure these are installed and maintained in accordance with the ESC Plan, and if necessary, are modified during construction to ensure compliance with the Stream and Drainage System Protection Bylaw No. 4403, 2013.
1.2	Temporary Erosion and Sediment Controls	Delete 1.2.1 and replace with the following	Properly drain all portions of the site. Protect the site and the watercourses to which it drains, directly or indirectly, against erosion and siltation in accordance with the City of Coquitlam Stream and Drainage System Protection Bylaw No. 4403, 2013 during construction. 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 <i>Contractor</i> 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 <i>Contract Administrator</i> and the City deems necessary.
		Delete 1.2.2.2 and replace with the following	Do not operate construction equipment in watercourses.
		Add 1.2.2.9	All work must be carried out during favorable and low water conditions.
		Add 1.2.2.10	Any fill used on this project shall be certified inert and from a source which is confirmed to be free of contaminants.
		Add 1.2.2.11	All work within a watercourse must be undertaken and completed in isolation of all flowing water to maintain downstream water quality and unrestricted flows.
1.4	Environmental Protection	Add 1.4.3.5	Immediately contain and clean up any leaks and spills of prohibited materials at the <i>Place of Work</i> .
		Add 1.4.3.6	Ensure that a well-stocked spill kit is on-site at all times and that the <i>Contractor</i> 's employees are familiar with appropriate spill response techniques.
		Add 1.4.3.7	Immediately notify the <i>Contract Administrator</i> and the City of any leaks or spills of prohibited materials that occur at the <i>Place of Work</i> .
		Add 1.4.3.8	Ensure that any fuel stored on-site is located at least 15 meters from the nearest stream, and is placed within a bermed and lined area, in order to prevent leaks or spills into the environment.
		Add 1.4.3.9	All equipment and machinery must be in good working condition (power washed), free of leaks or excess oil and grease. No

SUPPLEMENTARY CONTRACT SPECIFICATIONS		ENVI	SECTION 01 57 01S SS 12 ENVIRONMENTAL PROTECTION 2025	
			equipment refueling or servicing shall be undertaken within minimum of 15 meters of any water course or surface wate drainage.	
		Add 1.4.3.10	During all phases of the operation, the Contractor shall tak precautions to abate nuisance caused by mud or dust by clean up sweeping, sprinkling with water or dust control, or other means a necessary to accomplish results satisfactory to the Contrac Administrator.	
1.6	Measurement and Payment	Delete 1.6.1 and replace with the following	Payment for all work, unless included in the Schedule of Quantitie and Prices, performed under this section will be incidental t payment for work described in other Sections.	
		Add 1.6.2	Payment for the poly cover or temporary tarps over stock pil materials or exposed road subgrades shall be treated as incidenta work.	
1.8	Clean Up	Add 1.8.2	The work will include cleaning of all catch basins within the wor area, or nearby location as affected by the Work, and all manhole and/or sewers affected by work done under this contract. A cleaning is to be performed by vacuum truck to the satisfaction of the Contract Administrator and will include off-site disposal of wast material.	
1.9	Archaeological / Historical Resources	Add 1.9	Immediately cease work and inform the <i>Contract Administrator</i> an the City, if any archaeological or historical resources ar encountered during construction. Leave these resources in place an do not disturb them in any way.	

SUPPLEMENTARY CONTRACT				SECTION 01 58 01S SS 13
SPECI	FICATIONS	Р	ROJECT IDENTIFICATION	2025
1.3	Measurement and Payment	Delete 1.3.1 and replace with the following	Payment for the installation of 1.2m x 1.2 Information signs as shown in Appendix A Detail Specifications includes supply, plac will be incidental to payment for work de	 Traffic Management ement and removal and

unless shown otherwise in the Schedule of Quantities and Prices.

	MENTARY		SECTION 03 30 20S SS 14
CONTR/ SPECIFI	CATIONS	CONCRETE WALKS, CURBS AND GUTTERS	
1.4	Measurement and Payment	Delete 1.4.3 and replace with the following	Payment for machine placed or hand formed C5 wide base concrete curb includes supply and placing of the concrete curb and gutter, saw cutting, subgrade preparation, granular base, compaction, tie-ins, transitions, and will cover all straight and curve sections and will be made separately for each specified type.
			Payment for excavation and disposal of excavated material will be made under payment item, 31 24 135 – Roadway Excavation, Embankment & Compaction, in the Schedule of Quantities and Price.
			Slot paving will be incidental to payment for work described in other sections.
		Delete 1.4.5 and replace with the following	Payment for concrete sidewalks, walkway connectors, driveways, driveway letdowns, and wheelchair letdowns includes supply and installation, saw cutting, granular base, regrading of driveways and sidewalks for proper tie-in, field fit and adjustments and subgrade preparation, and will be made separately for each specified thickness and type of finish.
			Payment for excavation and disposal of excavated material will be made under payment item, 31 24 135 – Roadway Excavation, Embankment & Compaction, in the Schedule of Quantities and Price.
		Add 1.4.10	Payment for Detectable/Tactile Warning Surface Tile includes supply and placing of "Access Tile" or "Armor-Tile" (or approved equal Truncated Dome Detectable Warning Tactile Surface, replaceable cast in place - Yellow Color, and installation as per the Manufacturer's Specifications.
2.1	Materials	Delete 2.1.5.1 and	Hand-formed and hand-placed concrete:
		replace with the following	Slump: 80 mm
			Air entrainment: 5 to 8%. Maximum aggregate size: 20 mm. Minimum cement content: 335 kg/m3. Minimum 28 day compressive strength: 32 MPa.
		Add 2.1.7	Tactile warning surface tile shall be replaceable cast-in-place style Truncated domes shall be in square grid pattern with a 5 mm nominal raised height, base diameter of 23 mm and top diameter o 11.5 mm. Dome spacing range shall be between 40 mm – 60 mm.
			Color of the panel shall be Federal Yellow (Y) per US Federal Standard 595B Table IV, Color No. 335.
			Minimum size of the panel shall be 600 mm by 1200 mm.
3.0	EXECUTION		
3.5	Concrete Placement	Delete 3.5.9 and replace with the following	The <i>Contractor</i> is responsible for adjusting all utility manhole frames and valve boxes, belonging to Coquitlam and/or other agencies tha are affected by the road works. All adjustments to utilities must be completed to the satisfaction of the utility owner. Riser rings will no be accepted.
			The <i>Contractor</i> should note that certain utility owners may decide to complete their own adjustments. The <i>Contractor</i> will be required to

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 03 30 20S SS 15 CONCRETE WALKS, CURBS AND GUTTERS 2025	
			cooperate with any utility company providing their own adjustments.
			The <i>Contractor</i> shall be responsible to contact the appropriate utility company within a minimum of seventy-two (72) hours of the work. No adjustment shall be made without the written approval of the utility company. <u>All manholes must be vertically adjusted a minimum of twenty-four (24) hours prior to concrete placement.</u>
3.9	Expansion Joints	Delete 3.9.1 and replace with the following	Form transverse expansion joints at both ends of curb returns and at maximum spacing of 9.0 m for sidewalks, 30.0 m of curb and gutter, at each end of driveway crossing, at tangent point of circular work, and on either side of catch basins.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		CAST	SECTION 03 30 SS CAST-IN-PLACE CONCRETE 2	
1.5	Measurement and Payment	Add to 1.5.3 as follows	Reinforced cast-in-place stairs to be measured H landing at back of curb to front of sidewalk, and sidewalk to landing at PL. Landing without reinf poured separately from stairs' rise and run will Section 03 30 20S, Concrete Walks, Curbs and G	l/or from back of corced bars or be paid under
			Handrails (if required at the sole discretion of the Administrator) are to be paid under Force Accord	

	MENTARY		SECTION 31 11 41S
	CATIONS	SHRU	SS 17B AND TREE PRESERVATION2025
1.3	Measurement and Payment	Delete 1.3.1 and replace with the following	Payment for all tree protection includes supply, installation, removal and disposal of all materials and labour required to complete the work as per the arborist's recommendations.
		Add 1.3.2	Payment by allowance for Hydro Excavation around existing trees includes all labor, material, equipment, removal and disposal to complete the work as shown on the Contract Drawings or as directed by the Contract Administrator. Payment includes coordinating the work of all locations requiring hydro excavation to maximize the use of the hydro excavation machine and coordination with the Site Arborist.
			Payment shall be made for the actual cost on a Force Account basis as defined in GC 10.0.
2.0	PRODUCTS		
2.1	Materials	Add 2.1.10	Protective Fencing: Posts - Pressure treated wood 100 mm dia.; Post to be 1.8 m to 2.0m in height at 2.0 m O.C. Snow fence as per Coquitlam Approved Products List; Flagging Tape - 4" Orange glow - 'Tree Retention Area'.
2.0	EXECUTION		
3.1	Existing Trees	Add 3.1.7	The <i>Contractor</i> is responsible to minimize damage to all trees which are to remain.
		Add 3.1.8	The <i>Contractor</i> 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, the <i>Contract</i> <i>Administrator</i> and the City for tree damage where proper notification was not received from the <i>Contractor</i> . 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 Substantial Performance of the <i>Work</i> .
		Add 3.1.9	Place protective fencing/barricades as per Coquitlam Standard Detail Drawings COQ-R26, where identified on the Contract Drawings. <i>Contractor</i> shall maintain fence in good condition during construction.
		Add 3.1.10	When work is to be performed inside fenced areas, <i>Contractor</i> 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 the <i>Contract Administrator</i> and the City.
			.2 Selective pruning and tree removal at edges to create tidy and well-shaped forest edge.
			.3 Placing planting soil and planting of trees.
		Add 3.1.11	Do not park, service or fuel vehicles within the vegetation retention areas.
3.4	Pruning	Add 3.4.2	Do not cut roots or branches of retained trees without approval of the <i>Contract Administrator</i> and the City.

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SITE GRADING	SECTION 31 22 01S SS 18 2025
1.4	Measurement and Payment	Delete 1.4 and replace as follows	Payment for all work performed unde incidental to payment for work descr	

shown optherwise in the Schedule of Quantities and Prices.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		RESHA	SECTION 31 22 16S SS 19 PING GRANULAR ROADBEDS 2025
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Payment for reshaping existing roadbed includes all spreading and grading of materials, adjustment of moisture content, compaction, boning and disposal of excess material offsite to establish the road existing cross-sections.
		Delete 1.4.2 and replace with the following	Payment for additional granular base material required for reshaping described above will be made under Section 32 11 23S Granular Base.
		Delete 1.4.3 and replace with the following	Payment for excavation of unsuitable materials including disposal off-site prior to reshaping granular roadbed will be made under Section 31 24 13S – 1.8.10 Roadway Excavation, and Compaction.

	MENTARY		SECTION 31 23 01S
CONTRACT SPECIFICATIONS		EXCAVATING,	SS 20 TRENCHING, AND BACKFILLING 2025
1.0	GENERAL		
1.8	Limitations of Open Trench	1.8.1 Replace last sentence with the following	If circumstances do not permit complete backfilling of all trenches, and where permitted by the <i>Contract Administrator</i> and the City, adequately protect all open trenches or excavations with approved fencing or barricades and, where required, with flashing lights.
		Add 1.8.2	The use of road plates to cover excavations and restore travel lanes is not permitted in late Fall, Winter or if forecast indicates temperature equal or below 2 degrees Celsius, unless otherwise permitted by the Contract Administrator.
			Where construction necessitates the use of road plates, the Contractor is responsible for properly securing them (either pinned or recessed into the pavement) and feathered a minimum of 300mm with existing road asphalt on all four sides. The Contractor is responsible for repairing any pavement damage related to the plate installation.
1.10	Measurement and Payment	Add 1.10.9	Payment for supply, backfilling and compaction to 95% modified proctor density with 75mm minus granular subbase imported backfill. Payment to include removal and disposal of the unsuitable excavated native material. Measurement of volume placed is limited to the trench section only and the width of the measurement will not exceed the maximum trench width of 1.2 meters unless noted otherwise or as approved by Contract Administrator.
			Payment for import trench backfill will be made by measurement of volume confirmed by the tonne delivered to the Place of Work based on truck weigh slips. Weigh slips must be submitted to the Contract Administrator on a daily basis. Weigh slips which are not submitted daily will not be accepted for payment.
2.0	PRODUCTS		
2.2	Use of Specified Materials	Delete 2.2.1.2	Delete Pit Run Sand
		Delete 2.2.3.3	Delete Pit Run Sand
3.0	EXECUTION		
3.3	Excavation	Delete 3.3.1.2 and replace with the following	Connections to existing waterworks systems are to be made by the <i>Contractor</i> under the inspection / supervision of the <i>Contract</i> Administrator and the City.
3.6	Surface Restoration	Delete 3.6.2.4 and replace with the following	Restore lawns with approved topsoil and sod to match existing lawn.
		Delete 3.6.3.1 and replace with the following	Restore surface with a minimum 100 mm of 19 mm granular road base material.
		Delete 3.6.7.5 and replace with the following	Restore Pavement as detailed on Coquitlam Standard Detail Drawing COQ-G4. Temporary patch shall be a minimum thickness of 50 mm thickness. Permanent restoration to existing asphalt thickness (minimum of 75 mm) with a 35 mm key where existing thickness permits. A 50 mm key is required on Arterial and Collector

Roadways. Dry if necessary and paint clean, dry edge with asphalt emulsion (tack coat).

END OF SECTION

SUPPLEN CONTRA				SE	CTION 31 24 13S SS 22
SPECIFIC		ROADWAY EXCAVA	TION, EMBANKMENT AND	COMPACTION	2025
1.8	Measurement and Payment	Delete 1.8.4 and replace with the following	components included i shown on the Contract Administrator. No payn of these components	tem will only apply to n this item under a sep Drawings or as directed nent will be made under th as part of the opera moval will be treated as co	arate operation as by the Contractor iis item for remova tion for commor
			Schedule of Quantities equipment required to a	e at the respective unit and Prices and will inclu complete the work, includ of the contractor to loo	ide all labour, and ing offsite disposal
		Delete 1.8.5 and replace with the following	removal in so measured in o taken by the excavation for 2. Cross-sections and after strip excavation of 3. Where detern truck box volu quantities the	in the Schedule of Quan- quare meters, common cubic meters calculated fr e Contract Administrator r road widening areas. s will be taken after clea oping of existing topsoil in material to be incorporat nined by the Contract Adr me will be used to deterr volume per load shall be uck load quantity. The follo	excavation will be om measurements r in the areas or aring and grubbing nmediately prior to ed into work. ministrator that mine excavation determined using
			Truck Type	Material Type	Volume (cu.m)
			Tandem Tandem	ordinary material	7
			Triaxle	asphalt/concrete/pipe	4 8
				ordinary material	-
				1	
				1	
			Tandem and Transfer		19
			Tandem and Transfer	asphalt/concrete/pipe	13
			Tandem and Transfer 4. Contractor to common excasite. The slips	asphalt/concrete/pipe ordinary material asphalt/concrete/pipe ordinary material asphalt/concrete/pipe ordinary material asphalt/concrete/pipe provide truck slips detaili avation, time loaded and are to be given to Contra- shift or Contract Admin	13 ng location ty location of c ct Administrat

Payment will be made at the respective unit prices bid in the Schedule of Quantities and Prices and will include all labour, and equipment required to complete the work, including offsite disposal. It is the responsibility of the contractor to locate and verify all utilities.

CONTRA	MENTARY ACT CATIONS	ROADWAY EXCAVA	SECTION 31 24 13S SS 23 ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION 2025	
		Delete 1.8.10 and replace with the following	Payment for replacement of areas of unsuitable sub-grade revealed during compaction or as directed by the Contract Administrator will include excavation with off-site disposal, supply & compaction of crushed granular base material and all remedial work required to achieve a suitable subgrade. Payment with be based on the cubic metre volume removed.	
2.0	PRODUCTS			
2.2	Specified Materials	Delete 2.2.1.3	Pit Run Sand	
		Delete 2.2.1.4	River Sand	
		Delete 2.2.2		

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 32 0 COLD MILLING	
1.5	Measurement and Payment	Add 1.5.4	Payment for this item will be made for the depth specific Schedule of Quantities in the Form of Tender. Payment will for the removal of existing asphalt, granular and native within the roadway to the depth specified, as detaile Contract Documents, in order to complete the permanent p restoration.	be made materials d in the
			Payment will be made for each square metre of asphalt rem includes the off-site disposal of all milled material. Payment mobilization, demobilization, demonstration milling test sec cost of transport and disposal off-site, saw cutting, street s or cleaning to allow for the placement of required thic asphaltic concrete. Saw cutting and milled key at project I be incidental under payment item 32 12 16 – Hot Mix 2 Concrete Paving.	includes tion, the sweeping kness of imits wil
			MILLING OF EXTENSIVE AREAS THAT CANNOT BE PAVED W HOURS PERIOD (2 DAYS) WILL NOT BE PERMITTED.	ITHIN 48

No additional payment will be made for multiple passes or remobilization, as required, to mill to the depth(s) specified in the Schedule of Quantities in the Form of Tender.

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 32 11 16.1S SS 25 GRANULAR SUBBASE 2025
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Measurement for granular subbase of variable thickness will be for actual quantity placed based on weigh tickets provided to Contract Administrator as loads are delivered.
		Delete 1.4.2 and replace with the following	Measurement for granular subbase for each specified thickness will be for the actual area placed.
		Delete 1.4.3 and replace with the following	Payment for Subsection 1.4.1 & 1.4.2 above includes supply, placement and compaction of granular subbase material, adjustment of moisture content, and boning to establish the road cross-section, shall be included in the unit price bid in the Schedule of Quantities and Prices. Payment includes submission of tickets as loads are delivered. Tickets not submitted within 72 hours of load delivery to site will not be paid.
		Delete 1.4.4 and replace with the following	Payment for removal of unsuitable subgrade including disposal off- site prior to direct placement of granular subbase will be made under Section 31 24 13S – Roadway Excavation, Embankment and Compaction.
2.0	PRODUCTS		
2.1	Specified Materials	Delete	 2.1.1.1: Select Granular Subbase 2.1.1.2: 75 mm Pit Run Gravel 2.1.1.4: Pit Run Sand 2.1.1.5: Approved Native Material 2.1.1.7: River Sand

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 32 11 23S SS 26 GRANULAR BASE 2025
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	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.
		Delete 1.4.2 and replace with the following	Measurement for granular base for each specified thickness will be for the actual area placed.
		Delete 1.4.3 and replace with the following	Payment for Subsection 1.4.1 & 1.4.2 above includes supply, placement and compaction of granular base material, adjustment of moisture content, and boning to establish the road cross-section, factored into the unit price bid in the Schedule of Quantities and Prices. Payment includes submission of tickets as loads are delivered. Tickets not submitted within 72 hours of load delivery to site will not be paid.
		Delete 1.4.4 and replace with the following	Payment for removal of unsuitable subgrade including disposal off- site prior to direct placement of granular subbase will be made under Section 31 24 13S – Roadway Excavation, Embankment and Compaction.
2.0	PRODUCTS		
2.1	Granular Base	Add 2.1.1.3	25 mm minus crushed gravel conforming to the gradation specifications for Collector/Arterial Roads under Section 31 05 17S – 2.10.3.

SUPPLE CONTR/	MENTARY ACT		SECTION 32 12 16S SS 27
SPECIFICATIONS		HOT-MI	X ASPHALT CONCRETE PAVING 2025
1.0	GENERAL		
1.5	Measurement and Payment	Delete 1.5.1 and replace with the following	Payment for asphaltic concrete paving includes all construction joint preparation, asphaltic surface milling to tie into existing asphalt, saw cutting, base preparation, granular base, supply and placing of the asphaltic concrete, tack coat, 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 will be made at the respective unit prices bid in the Schedule of Quantities and Prices and incorporated into Work will be asphalt concrete actually 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 & Machinery to complete the Hot Mix Asphaltic Paving Work as shown on the Contract Drawings or as directed by the Contract Administrator.
		Delete 1.5.3 and replace with the following	Payment for asphaltic concrete sidewalks, pathways and driveways includes all construction joint preparation, saw cutting, supply and placing of the asphaltic concrete, tack coat, compaction and cleaning frames, covers and lids of castings affected, and 100mm granular base.
			Measurement for asphaltic concrete paving for the specified design mixes for will be made at the respective unit prices bid in the Schedule of Quantities and Prices and incorporated into Work will be asphalt concrete actually based on weigh tickets provided to the Contract Administrator as loads are delivered.
			Payment for this item includes all applicable materials and work described in 1.5.1. Work includes all necessary adjustments on site during construction to achieve proper tie-in to existing driveways as directed by Contract Administrator. Adjustments performed under this section shall be incidental to payment for work described in other Sections.
1.6	Inspection and Testing	Add 1.6.3	Test cores will be taken by the <i>Contract Administrator</i> in the areas of new paving and will include cores along construction joints to ensure compliance with the required design and compaction.
2.0	PRODUCTS		
2.1	Materials	Add 2.1.2.1	Usage of recycled asphalt shingles will not be permitted.
		Add 2.1.2.2	Usage of softening agents, rejuvenators, or recycling agents will not be permitted.
2.2	Mix Design	Delete 2.2.2 and replace with the following	Mix may contain up to a maximum of 15 % by mass of RAP for Upper Course Asphalt and 20 % by mass of RAP for Lower Course Asphalt without a special mix design. The <i>Contract Administrator</i> and the City may approve higher proportion of RAP if <i>Contractor</i> demonstrates ability to produce mix meeting requirements of the specification.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 32 12 16S SS 28 HOT-MIX ASPHALT CONCRETE PAVING 2025		
		Delete 2.2.3.2 Marshall Stability and replace with the following	Marshall Stability at 60°C for both lower and upper courses to be 10 KN min.	
3.0 EXECU	TION			
3.3 Prepar	ation	Delete 3.3.3 and replace with the following	The <i>Contractor</i> is responsible for adjusting all utility manhole frames and valve boxes, belonging to Coquitlam and/or other agencies tha are affected by the road works. All adjustments to utilities must be completed to the satisfaction of the utility owner. Utility adjustmen within the paved surface will be considered incidental to the <i>Work</i> unless otherwise noted in the <i>Contract Documents</i> .	
			The <i>Contractor</i> should note that certain utility owners may decide to complete their own adjustments. The <i>Contractor</i> will be required to cooperate with any utility company providing their own adjustments.	
			The <i>Contractor</i> shall be responsible to contact the appropriate utility company with in minimum of seventy-two (72) hours of the work No adjustment shall be made without the written approval of the utility company.	
			All manholes must be vertically adjusted a minimum of twenty-fou (24) hours prior to paving. The use of riser rings for adjusting manhole frames and value boxes will not be permitted.	
3.7 Joints		Delete 3.7.5 and replace with the following	Construct butt joints at locations as shown on the <i>Contract Drawing</i> and as directed in the field by the <i>Contract Administrator</i> and the City.	

ONTRACT			SS 2
PECIFICATIONS		UNIT PAVING	202
1.0 GENERAL			
1.1 Related Work	Add 1.1.7	Geosynthetics Section	on 31 32 19
1.6 Measurement and Payment	Delete 1.6.1 and replace with the following:	stock pilings off-site, exca base compaction, beddin	noval of bricks and temporarily storing / vation, granular base course, grading, g sand, returning stock-piled pavers to , polymeric sand, and tamping.
2.0 PRODUCTS			
2.1 Materials	Delete 2.1.4 and	Bedding sand shall confor	rm to the following gradation limits:
	replace with the	Sieve Size (mm)	Percent Passing (%)
	following	9.52	100
	5	4.75	95 - 100
		2.35	80 - 100
		1.18	50 - 85
		0.60	25 - 60
		0.30	10 - 30
		0.15	5-15
		0.075	0 - 10
		0.073	0-10
	Add 2.1.8	Paver type, size and colou Drawing. Paver thickness	ncrete interlocking paving units. ur, shall be as indicated on the <i>Contract</i> shall vary. All pavers used in driveways m thick. All pavers used for boulevard o minimum 60 mm thick.
	Add 2.1.9	Pigmentation of concrete the unit.	pavers shall be a solid colour througho
	Add 2.1.10	Normal weight aggregate	shall be used for the concrete mix.
	Add 2.1.11	-	t of at least 30% of 1 mm sand particles the requirements for bedding sand.
	Add 2.1.12	All concrete pavers shall I	be sealed.
3.0 EXECUTION			
3.2 Granular Subbase and Base	Add 3.2.5	Sand, when stock piled or	nsite, shall be protected against the rain
3.5 Unit Paving	Delete 3.5 and replace with the following	.1 Concrete pavers shall strapping or shrink w	be delivered and stored on-site in meta rrapped PVC.
		.2 Prior to installation or installed.	f concrete pavers all street signs shall be
		_	ave moisture content not less than 6% % prior to compaction.
		.4 All pavers shall be sea installation.	aled with a clear protective sealant afte
		.5 Sand bedding shall be	spread evenly over an area not greater

SUPPLEMENTARY		SECTION 32 14 015
CONTRACT SPECIFICATIONS		SS 30 UNIT PAVING 2025
		be protected against accidental pre-compaction and rain. This bedding shall have a minimum compacted thickness of 20 mm and a maximum compacted thickness of 40 mm, and shall be graded to meet crossfalls in boulevards, sidewalks and driveways.
		 .6 Concrete pavers shall be laid in a pattern as indicated on the <i>Contract Drawing</i>. .1 Joints between units shall not exceed 3 mm. .2 Full units shall be installed first and edge pieces fitted subsequently.
		.7 Edge restraint shall be as indicated on the Contract Drawing.
		.8 Gaps at junctions between concrete pavers and edge restrain shall be filled with purpose made or cut edge pieces. Paver shall be cut to fit other conditions. All pavers shall be cut with an approved paver guillotine or masonry cut-off saw to neath and accurately fit without damaged edges.
		.9 Pavers shall be vibrated to their final level by having not less than 3 passes of a vibrating plate compactor.
		.10 The compactor shall be a high frequency, low amplitude unit with plate size sufficient to cover a minimum 12 pavers.
		.11 After placement, jointing sand shall be spread over the pave surface and vibrated to completely fill all joints. Jointing sand shall be reinstalled after the first heavy rainstorm.
3.6 Acceptance	Add 3.6.2	All pavers must drain freely with no ponding of water.
	Add 3.6.3	Defective, chipped or poorly cut pavers shall be replaced.
	Add 3.6.4	Surfaces shall abut flush with adjacent materials. Surface of finished pavement shall be free from depressions exceeding 3 mr as measured with 3m straight edge.

SUPPLEMENTARY
CONTRACT
SPECIFICATIONS

1.0	GENERAL		
1.2	Scope	Delete 1.2.1 and replace with the following	Pavement Markings: Miscellaneous taped temporary and permanent pavement paint markings including pedestrian crosswalk, merge and diverge markings, stop lines, solid and broken line road lane markings including edge lines of merge and diverge markings, bike symbols, etc. to be provided as shown on the <i>Contract Drawing</i> .
1.5	Measurement and Payment	Delete 1.5.2 and replace with the following	All permanent markings shall be marked with thermoplastic road markings as specified under Section 32 17 23S, 2.1 Materials, unless shown otherwise in the Schedule of Quantities and Prices.
		Delete 1.5.3 and replace with the following	The lump sum payment for permanent thermoplastic pavement markings covers removal of existing markings, supplying all materials and completing all the permanent thermoplastic pavement markings necessary to provide markings as shown on the Contract Drawings.
			NOTE: PAYMENT FOR PERMANENT THERMPOPLASTIC PAVEMENT MARKINGS WILL NOT BE MADE UNTIL ALL TEMPORARY PAVEMENT MARKINGS AND REFLECTIVE DEVICES HAVE BEEN REMOVED.
		Delete 1.5.4 and replace with the following	Payment for signage includes all sign poles, bases, sleeves and sign installations. The City will supply signs to supplement existing signs as required. Payment includes all labor, materials and incidentals to complete the work.
			.1 Installation of each new sign pole, cap, sleeve and trapezoidal base includes all costs to supply all materials, labour and equipment and incidentals, as shown on Standard Detail Drawings SS-E11.1 & SS-E11.2, necessary to the install sign structure as shown on the Contract Drawings and as directed by the Contract Administrator.
			.2 The unit price payment is for each city supplied aluminum sign installed on a sign pole includes sign mount clamps & all costs to supply all materials, labour and equipment and incidentals necessary to install each sign as directed by the Contract Administrator.
			.3 The unit price payment for removal and relocation of existing poles and signs includes all material, labour and incidentals necessary to relocate the existing sign structure and/or sign as shown on the Contract Drawings and as directed by the Contract Administrator.
2.0	PRODUCTS		
2.1	Materials	Delete 2.1.1 and replace with the following	All permanent paint markings shall be marked with thermoplastic manufactured by LAFRENTZ, HITEX, or ENNIS-FLINT Road Markings.
		Delete 2.1.6 and replace with the following	Pavement Markings:
		Delete 2.1.7 and replace with the following	Thermoplastic material .1 Material composition shall be at the discretion of the manufacturer subject to the approval of the Contract

SUPPLEM CONTRAC SPECIFICA	т	DAINIT	FD ΡΔΥ	SECTION 32 17 23S SS 32 ZEMENT MARKINGS 2025
				Administrator and the City. Each formulation shall be identified by a code number.
			.2	No retained water when tested by ASTM D-570.
			.3	Specific gravity of the supplied product shall be within 3 % of that specified for the selected formulation.
			.4	Material shall not deteriorate upon contact with deicing chemicals, gasoline, diesel fuel or grease dropped by traffic.
			.5	Material shall not break down, deteriorate, scorch or discolour, if held within the application temperature range specified by the manufacturer for a period of four hours and it must be able to be reheated from room temperature to the application temperature four (4) times without showing any of these detrimental effects.
			.6	When applied at the temperature recommended by the manufacturer and at a film thickness of 2 to 4 mm, the material shall set solid and show no tracking under traffic after elapsed times as follows:
				.1 Two (2) minutes at an air temperature of 10° C, relative humidity less than 75 %, and road surface temperature from 10° C to 20° C.
				.2 Five (5) minutes at an air temperature of 32° C, relative humidity less than 75 %, and road surface temperature from 35° C to 50° C.
				.3 The drying time under conditions intermediate between the two air temperatures shall be interpolated using a straight line model.
			.7	The quantity, type, and gradation of the component reflecting glass spheres premixed in the thermoplastic material shall be at the discretion of the manufacturer, but shall provide retroreflection levels specified below.
3.0	EXECUTION			
3.3	Application	Add to 3.3.1.3	ona	nporary raised pavement markings (TRPMs) are to be provided all multi-lane roadways as directed by the <i>Contract Administrator</i> the City.
		Delete 3.3.3.3 and replace with the following		rmoplastic material shall be heated in the melter to a perature of 382 °F.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 32 91 215 SS 33 TOPSOIL AND FINISH GRADING 2025		
1.0	GENERAL			
1.0	General Requirements	Delete 1.0.1 and replace with the following	.1 Section 32 91 21 refers to those portions of the <i>Works</i> that are unique to the supply, placement and finish grading of <i>Growing Medium</i> . This section must be referenced to and interpreted simultaneously with all other sections pertinent to the <i>Works</i> described herein.	
			For the purpose of this specification, the term "Growing Medium" shall mean a soil produced offsite by homogeneous blending of mineral particulates, micro-organisms and organic matter which provides suitable medium for supporting intended plant growth and the term "Topsoil" shall mean on- site native or surface soil material which may be used as Growing Medium provided it meets standards set for imported material Growing Medium and can be modified to meet the requirements set out for specified Growing Medium.	
		Add 1.0.3	.3 For the purpose of this specification, the term 'Soil-Testing Laboratory' shall mean an independent laboratory, recognized by the landscape nursery industry, with the experience and capability to conduct the testing indicated and that specializes in types of tests to be performed.	
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Payment includes supply and installation of growing medium, boulevard tree trench, burk mulch and imported top soil that is free from any noxious weeds, fungal growth, mushroom, and any contaminants, and as described in the Schedule of Quantities and Prices. Payment will be made separately and includes supply of material, on-site handling, preparing the landscape area subgrade, placing, grading, raking, compacting top soil and application of fertilizers. Payment for top soil will be for actual volume placed onsite at specified thickness.	
1.5	Inspection and Testing	Delete 1.5 and replace with the following	.1 The <i>Contractor</i> is responsible for testing imported <i>Growing</i> <i>Medium</i> and all related cost incurred. Testing shall be carried out by an approved <i>Soil Testing Laboratory</i> .	
			.2 The sample analysis shall be of tests done on the proposed <i>Growing Medium</i> from samples taken at the supply source within a minimum of 14 days in advance of <i>Growing Medium</i> placement. Allow 7 days for soil testing by the laboratory for each sample. The sample shall be picked up by the <i>Soil Testing Laboratory</i> from the supply source. The <i>Growing Medium</i> sample shall be a composite of at least three (3) samplings for the proposed source and shall be at least one (1) litre in volume.	
			.3 Forward a copy of all test results directly to the <i>Contract</i> <i>Administrator</i> and the City for review. The analysis shall outline the testing laboratory's required amendments such as sand, organic matter, fertilizers and lime to achieve adequate growing conditions.	
			.4 The <i>Contractor</i> shall not deliver any <i>Growing Medium</i> to the site until the test results have been reviewed and approved by the <i>Contract Administrator</i> and the City.	
			.5 All submitted soil analysis must be dated and include supplier name and phone number, project location and submitted to	

	MENTARY			SECTION 32 91 21S SS 34
CONTRACT SPECIFICATIONS TOPS		TOPSO		D FINISH GRADING 2025
			.6	 Contract Administrator and the City for approval prior to commencing work. Soil analysis shall include measurements of: .1 Percent sand, fines, silt and clay .2 Organic matter to 100% .3 pH, acidifying additive required to achieve noted hereir .4 Water soluble salts .5 Total carbon to nitrogen ration .6 Total nitrogen and available levels of phosphorus, potassium, calcium & magnesium At the discretion of the <i>Contract Administrator</i> and the City submit up to two (2) additional samples, at intervals outlined by the <i>Contract Administrator</i> and the City, of <i>Growing Medium</i> taken from material delivered to the site. Samples
				shall be taken form a minimum of three (3) random location: and mixed to create a single uniform sample of testing. Resu of these tests shall be forwarded to the <i>Contract Administrat</i> and the City for review.
			.7	The <i>Contractor</i> is responsible for soil analysis and requirements for amendments to supply <i>Growing Medium</i> a specified. Failure to satisfy these contractual requirements could result in the <i>Contractor</i> being required to remove unacceptable <i>Growing Medium</i> at their expense.
			.8	Notify the Contract Administrator at least forty-eight (48) hours prior to Growing Medium placement for inspection.
			.9	Refer to General Conditions, Clause 4.12 Tests and Inspections.
1.6	Product Handling	Add 1.6	.1	All materials to be handled and adequately protected to prevent damage. Do not handle <i>Growing Medium</i> in an excessively wet, extremely dry, frozen condition or in any manner in which structure may be adversely affected. <i>Growing Medium</i> whose structure has been damaged by handling under these conditions shall be rejected and shall be replaced by the <i>Contractor</i> at their expense.
			.2	Stockpile materials in bulk form in paved areas or in pre- approved areas of the site. Provide additional protection of storage under roof or tarpaulins.
			.3	Take all precautions to prevent contamination of <i>Growing</i> <i>Medium</i> and amendments from windblown soil particles, weed seeds and from insects. Contamination of the <i>Growing</i> <i>Medium</i> and amendments may result in their rejection for us
			.4	Store fertilizer and chemical amendments in the manufacturer's original containers.
			.5	All <i>Growing Medium</i> shall be delivered to site <u>premixed</u> from recognized <i>Growing Medium</i> source ensuring consistency throughout the mix.
2.0	PRODUCTS	Delete 2.0 and replace with the following		
2.1	Materials	J	.1	 Growing Medium Preparation .1 Shall be prepared from Compost Material with Sand a other Soil Amendments as required to meet t specifications herein. .2 Ensure commercial processing and mixing of Growin Medium components are done thoroughly by mechanized screening process. Do not mix t components by hand. Ensure the resulting product is homogeneous mixture having the required propert

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TOPSOIL AND FINISH GRADING

throughout free of stones 25 mm or larger in any dimension, woody plant parts, toxic materials, foreign object and other extraneous materials harmful to plant growth. Provide composted soil free from crabgrass, couch grass, equisetum, convolvulus, or other noxious weeds or seed or parts thereof.

- .2 Inorganic Soil Amendments
 - .1 Sand: Imported pit sand or river pump sand, free of impurities, chemicals, horsetails, and other noxious weeds. The saturation extract electrical conductivity of salinity shall not be greater than 3.0 millimhos/cm at 25 degrees C.

Sieve Size (mm)	Percent passing (%)
4.75	95-100
0.50	0-40
0.050	0-5

- .2 <u>Fertilizers</u>: Uniform in composition, free flowing and dry, granular, pill form, or pelleted commercial product with 50% of total nitrogen (if applicable) derived from natural organic material in a slowly available form delivered in unopened water proof containers with the manufacturer's guaranteed N-P-K analysis, type and trade name attached to each container. The planting soil test results will specify a formulation and application rate to achieve the levels of nitrogen, phosphorous and potassium required. Fertilizer to meet the requirements of the Canada Fertilizer Act.
 - .1 Lime: ASTM C 602, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent and as follows:
 - .1 Class: Class T, with a minimum 99 percent passing through No. 8 (2.36 mm) sieve and a minimum 75 percent passing through No. 60 (0.25 mm) sieve.
 - .2 Provide lime in form of dolomitic limestone.
- .3 <u>Perlite:</u> Horticultural perlite, soil amendment grade.
- .3 Organic Soil Amendments
 - .1 <u>Compost:</u> Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 25 mm sieve; soluble salt content of 5 to 10 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings; and as follows:
 - .1 Organic Matter Content: 50 to 60 percent of dry weight containing no cedar, redwood, wood or bark.
 - .2 Colour: dark brown to black in colour.
 - .2 <u>Peat:</u>
 - .1 Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a waterabsorbing capacity of 1100 to 2000 percent.
 - .3 Wood Residual
 - .1 Content of wood residuals such as Fir or Hemlock sawdust present in the *Growing Medium* shall not

	MENTARY	SECTION 32 91 21S
CONTRA SPECIFIC	CATIONS	SS 36 TOPSOIL AND FINISH GRADING 2025
		cause the total carbon to total Nitrogen ration exceed 40:1. .2 Cedar or redwood sawdust shall not be present <i>Growing Medium</i> .
		 .4 <u>Manure</u> .1 Well-rotted, unleached, stable or cattle manu containing not more than 25 percent by volume straw, sawdust, or other bedding materials; free toxic substances, stones, sticks, soil, weed seed, an material harmful to plant growth and free from sa or other harmful chemicals, such as any used artificially hasten decomposition. .2 All particles in manure to pass a 6.35 mmm sieve. .3 Salt content shall give a reading of less than 0.5 millimhos/cm at 25 degrees C.
2.2	Nutrient Requirements	 Nutrient requirements shall meet the BCSLA/BCNTA Landscap Standard <i>Growing Medium</i> requirements for nitroge phosphorus, potassium, calcium, magnesium, boron, sodiu cation exchange capacity, carbon to nitrogen ratio. Boron: not to exceed 1.0ppm Sodium: Sodium absorption ratio(SAR) not to exceed 8.0 Total Nitrogen: to be 0.2-0.4% by weight Available Phosphorous: to be 50-100 ppm Available Potassium: to be 50-70 ppm Cation Exchange Capacity: to be 30 to 50 meq. Carbon to nitrogen ratio: Maximum 40:1.
2.3	Salinity	.1 The electrical conductivity of the liquid taken from the soil p evaluation shall not exceed 3.0 millimhos/cm at 25 degrees before additions of fertilizers and/or liming agents.
2.4	Drainage Rate	.1 Percolation shall be such that mixing, handling and placeme to be done in such a manner that the minimum saturate hydraulic conductivity show on Table – 'Growing Mediu Properties for Different Applications' (found herein the specifications) is achieved and no standing water is visible (minutes after at least 10 minutes of moderate to heavy rain irrigation.
2.5	Growing Medium Source	 .1 Import planting medium or manufactured planting medium from off-site sources. Do not obtain from agricultural land, bogs or marshes. .2 Supplier of Growing Medium shall be as per the Coquitlam Approved Products List.
2.6	Bark Mulch	 .1 Mulch backfilled surfaces of planting beds and other are indicated on drawings. .1 Organic Mulch: Apply 50 mm average thickness of organ mulch, and finish level with adjacent <i>Finish Grades</i>. Do n place mulch against plant stems.
		 .2 Supplier of Bark Mulch shall be as per the Coquitlam Approve Products List. .3 Dark brown in colour and free of all soil, stones, roots or oth
		extraneous matter, and free of weeds, seeds and spores.

SUPPLEMENTARY CONTRACT SPECIFICATIONS

TOPSOIL AND FINISH GRADING

2.7	Growing Medium Properties for Different Applications	Properties	Low Traffic Lawn Areas, Trees and Large Shrubs	High Traffic Lawn Areas	Planting Areas, Planters Shrubs & Groundcover
		Texture: Particle size classes by Canadian System of Soil Classification	Percent of Dry Weight Mineral Fraction (%)		ction (%)
	Gravel (greater than 2 mm less than 75 mm)	0-10	0	0	
		Sand (greater than 0.05 mm and less than 2 mm)	50-70	80-90	50-70
		Silt (larger than 0.002 mm and less than 0.5 mm)	10-30	5-20	10-30
		Clay (less than 0.002 mm)	7-20	2-5	7-20
		Organic Content Percent of Dry Weight	5-10	3-5	25-30
		Drainage Minimum saturated hydraulic conductivity (cm/hr) in place	2.0	7.0	2.0
		Acidity (pH)	6.0-6.5	6.0-6.5	5.0-6.0

2.8 Miscellaneous Products

- .1 Root Barrier: 400x610 mm linear root barrier, copolymer polypropylene, 50% recycled plastic, black in colour. Supplier of Root Barrier shall be as per the Coquitlam Approved Products List.
- .2 Construction Adhesive shall be as per the Coquitlam Approved Products List.
- .3 Drain Mat: Light duty, uv stable, impermeable cuspated core bonded to a layer of non-woven filter fabric with the following minimum properties:
 - .1 Compressive Strength -718 kN/m2 as per ASTM D-1621
 - .2 Flow Rate 188 l/min/Metre as per ASTM D-4716
 - .3 Approximate profile thickness of 10 mm.
 - .4 Supplier of Drain Mat shall be as per the Coquitlam Approved Products List.
- .4 Filter Fabric: Install root barriers in accordance with manufacturer's reviewed installation instructions where indicated on reviewed drawings with vertical root directing ribs facing inwards towards trees or plants; connect panels together as required.
 - 1. Supplier of Filter Fabric shall be as per the Coquitlam Approved Products List.
- .5 Drain Rock: Shall consist of clean round stone or crushed rock. Acceptable material includes 19 mm drain rock or torpedo gravel conforming to the following gradations.

TOPSOIL AND FINISH GRADING

Percent Passing					
Sieve Designation	Coarse	Fine (Torpedo gravel)			
25 mm	100				
19 mm	0-100				
9.5 mm	0-5	100			
4.75 mm	0	50-100			
2.36 mm		10-35			
1.18 mm		5-15			
0.60 mm		0-8			
0.30 mm		0-5			
0.15 mm		0-2			

2.9 Structural Soil

- .1 Soil stabilizer shall be friable, containing a minimum of 4% and maximum of 6% organic matter by dry weight, free from stones and debris over 30 mm. Acidity (ph.) shall be in the range 5.5-7.5. Carbon to nitrogen ratio shall not exceed 40:1, and salinity shall not exceed 3.0 milliohms at 25 deg C. Gravel greater than 2 mm shall not exceed 10% of total weight.
- .2 Supplier of Structural Soil shall be as per the Coquitlam Approved Products List.
- .3 *Growing Medium* to be a gap-graded mixture.

4	Texture of Growing Media mixture	Percentage of
	Gravel: greater than 2 mm-less than 75 mm	0%
	Sand: greater than 0.0 5mm-less than 2 mm	max 60%
	Silt: greater than 0.002-less than 0.0 5mm	max 35%
	Clay: less than 0.002mm	max 15%
	Clay and silt combined	max 40%
	Acidity (pH)	6.0-7.0
	Drainage: minimum saturated hydraulic Conductivity (cm/hr) in place	3.0
	Salinity: saturated extract conductivity	
	shall not exceed at 25 degC	3.0 milliohms/cm
	Organic content: percent of dry weight	8-12%

5 Stone ballast: Clean inert stone of high angularity is preferred over washed gravel. Stone dimension aspect ratio should be 1:1:1 with a maximum 2:1:1 length: width: depth. Single size stone, 60 mm-75 mm clear sieve designation: Blasted Quarry Rock. Aggregate to be used for structural soil shall be free of any foreign elements or material.

.6 Structural Geotextile

Shall be installed as a structural filter layer directly above the compacted structural soil mixture. Do not install fabric until adequate compaction of the structural soil mixture has been confirmed. Filter fabric shall be selected and deigned to withstand wear and tear during construction without deterioration of its strength and filtering properties.

.1 Supplier of Geotextile shall be as per the Coquitlam Approved Products List.

.4

SUPPLEI CONTRA	MENTARY ACT		SECTION 32 91 2 SS	21S 5 39
SPECIFICATIONS		ТОР	SOIL AND FINISH GRADING 20	2025
			.7 Ground dolomite limestone containing no less than 85% total weight as calcium carbonate and magnesium carbon shall be used to control ph level. The degree of grind for f limestone shall allow 100% of the total weight to pass a #18 (1 mm) sieve and 20% to a #40 (0.105 mm) sieve. Spread-easy fertilizer shall be use slow release fertilizer source of calcium and magnesium.	nate the #10 pass
			 .8 Mixing of structural soil: Blend as per following ratios: .1 5 metric tonnes (MT) of aggregate .2 1 cubic meter of growing media .3 2 kg soil stabilizer 	
			.9 Moisten mixture with fine spray of clean potable water w mixing to activate soil stabilizer product. Do not over mix mixture in 300 mm lifts through entire area of structural mixture. Compact each lift to 95% MPD prior to placement next lift. Install filter fabric such to ensure a minimum of overlap of all fabric seams and beyond edge of structural	k. Pla soil nt of 60 ci
3.0	EXECUTION		, , ,	
	Preparation of Subgrade	Delete 3.2.4 and replace with the following	Remove debris, roots, branches, stones in excess of 50 mm diam and other deleterious materials, soil contaminated with calcium chloride, toxic materials and petroleum products, and debris wh protrudes more than 25 mm above the surface. Dispose of all removed material off site to approved offsite disposal area at no additional cost to the <i>Owner</i> .	iich
		Delete 3.2.5 and replace with the following	Course cultivate entire area which is to receive <i>Growing Med</i> depth of 250mm. Cross cultivate those areas where equipmer for hauling and spreading has compacted soil.	
		Add 3.2.6	Grade transitions shall be smooth and even and shall blen surrounding areas as determined by the <i>Contract Administrator</i> a City.	
		Add 3.2.7	Provide erosion-control measures to prevent erosion or displace of soils and discharge of soil-bearing water runoff or airborne adjacent properties and walkways.	
3.3	Processing Growing Medium	Add 3.3.4	 Growing Medium shall be imported and stockpiled on site in a locapproved by the Contract Administrator and the City. 1 Carry out stock piling operation such that the Growing Mestructure is not compromised through compaction, vibratio other actions. 2 Stock piled Growing Medium shall be protected from rain, and contaminants. 3 Growing Medium shall be free of subsoil, pests, roots, woo construction debris, undesirable grasses including crabgracouch grass, noxious or weeds and weed seeds or parts th foreign objects and toxic materials. Presence of these contaminates shall be grounds for rejection of Growing Mean and replacement at no cost to the Owner. 	dium on oi dryin od, ss or ereoi
3.4	Placing Growing Medium	Delete 3.4.2 and replace with the following	Place <i>Growing Medium</i> to the required finished grades with ade moisture, in uniform lifts of 100 mm to 150 mm compacted to 8 during dry weather, over dry, unfrozen <i>Sub Grade</i> where plantin indicated free of any standing water.	0 M

SUPPLEI CONTRA	MENTARY ICT				SECTION 32 91 21S SS 40
SPECIFICATIONS		TOPSOIL AND FINISH GRADING			
		Delete 3.4.5 and replace with the following	Min .1 .2 .3 .4 .5	imum depths after settlem Trees pits: Shrub beds: Ground cover areas: Lawn areas: Blvd. areas:	nent and 80% compaction: 900mm 450mm 300mm 300mm 150mm
		Add 3.4.6	heav Incre banl On s	vy wear by pedestrians or i ease sand content in a 1.5 ks or other wet areas and a steep south or west facing	in the planting soil below lawns where maintenance equipment is anticipated m wide strip at the bottom of swales, as directed by the Landscape Architect banks, reduce sand content in lawns for better moisture retention.
3.5	Applying Fertilizers	Delete 3.5 and replace with the following	.1	 indicated in the Growing the following methods: .1 Lime: Applied with a planting areas and a .1 Do not apply b .2 Mix thoroughly Medium. .3 Do not allow linitrogen - phose .2 Fertilizer: Applied with a planting areas and a 	•
3.6	Finish Grading	Delete 3.6.1 and replace with the following	elev <i>Adn</i>	ations shown on drawings	Medium installation to contours and or as directed by Contract iminate rough spots and low areas to
		Add 3.6.3	elev	÷	um shall be 25 mm from finished blanter wall unless otherwise noted on
3.9	Clean-up	Delete 3.9 and add the following	.1	been thoroughly cleane	tops of planters, adjacent surfaces ha ed. Ensure all discoloration of adjace Growing Medium installation have be
			.2	adjacent surfaces (as de	ot required and repair any damage termined by the <i>Contract Administra</i> to additional cost to the <i>Owner</i> .
3.10	Weed Control	Add 3.10	.1		ed roots that have germinated during t ction have been eliminated from Growi
			.2		entative and Consultant with a writt al methodology seven (7) days prior perations.
3.11	Structural Soil	Add 3.11	.1	Refer to 2.9 in this spec Drawings.	cification and as shown on the Contra

END OF SECTION

SUPPLEI	MENTARY		SECTION 32 92 23S SS 41			
	CATIONS		SODDING			
1.0	GENERAL	Delete 1.0.2 and replace with the following	This section is based on the "British C and the B.C. Nursery Trades Associatio set a level of quality which is equalled o documents.	n. This standard is intended t		
1.4	Handling and Storage	Delete 1.4.3 and replace with the following	Schedule sod deliveries such that so twenty-four (24) hours of being lifted fr			
		Delete 1.4.4 and replace with the following	Sod shall be neatly stacked or rolled at and unloaded on sturdy pallets which a			
1.5	Drainage Control	Delete 1.5.1 and replace with the following	Provide for proper water managemen work of this section. Water manage erosion control measures, temporary w as their adequate maintenance to ensu become laden with soil, growing medius and cleaned prior to discharge from <i>Pla</i>	ment shall include silt trap: vater collection ditches, as we re that storm water which ma m or hydraulic seed is detaine		
1.6	Samples	Add 1.6.2	Submit one (1) square meter of sod to t the City for review. Ensure sample is co base soil type, seed mix percentage.			
		Add 1.6.3	Contract Administrator and the City approval prior to installation. The samp form the standard by which the project	ole accepted by the review wi		
		Add 1.6.4	Should the <i>Contractor</i> require the solution during the construction a written require <i>Contract Administrator</i> and the City 48 shall be followed up by submission sample and include the name of sod the percentage for <i>Contract Administrator</i> and delivery.	uest must be provided to th hours in advance. The reques of proposed sod substitutio farm, base soil type, seed m		
1.8	Measurement and Payment	Delete 1.8.1 and replace with the following	Payment for nursery sod includes supp on the Contract Drawings or as directed and grass maintenance to meet Con Payment includes protection from d creature.	l by the Contract Administrato ditions of Total Performance		
2.0	PRODUCTS					
2.1	Sod	Delete 2.1.1 and replace with the following	Sod to be approved by the <i>Contract Ad</i> , be nursery grown, true to type, confo Sod Growers' Association and their Nur be quality, cultured turf grass grown fr Department of Agriculture, free of dise debris.	rming to standards of nurser sery Sod Specifications. Sod t rom seed approved by Canad		
		Add 2.1.1.1	Nursery sod: .1 Shall be No. 1 Premium grad grass indicated on the supplie .2 Sod shall be 'non-netted'			
		Add 2.1.1.2	Table Guideline of Approved Sod Mix R	atios		
			Supreme Soil Base Sod			
			(Elka II) Perennial Ryegrass	40%		
			(Shamrock) Kentucky Bluegrass	30%		
			(Cindy) Chewing Red Fescue	30%		

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SUPPLEMENTARY
CONTRACT
SPECIFICATIONS

CATIONS		SODDING	SS 42 2025
		Seed Rate: 50g per square metre	
	Add 2.1.8		
Water	Delete 2.2.1 and replace with the following	Contractor to ensure adequate water is available to r	naintain seede
Fertilizer	Add 2.3.2		
Wooden Pegs	Add 2.4	.1 Wooden Pegs shall be 19 mm x 19 mm x 150 grade or better Hem/fir.	mm long No.
Binder Twine	Add 2.5	.1 Binder Twine shall be hemp based multiple stra	nd string.
Flagging Tape	Add 2.6	made of non-woven cellulosic material, and r	
EXECUTION		approved equivalent.	
Finish Grade Preparation	Delete 3.1.2 and replace with the following	review and direct minor adjustments and refinements prior to the <i>Contractor</i> proceeding. Review includes medium depth and condition of finished surface. Sul <i>Contract Administrator</i> and the City review the <i>Con</i>	of finish grade grades, growin osequent to th tractor shall re
	Delete 3.1.5 and replace with the following	Drawings. Ensure that all low spots, humps and in	regularities ar
Sodding	Delete 3.2 and replace with the following		
		, , , ,	ther to prever
		.3 Handle sod carefully to minimize tearing and dro	opping of soil.
		 and paving and top surfaces of curbs otherwise on <i>Contract Drawing</i>. Ensure th width between the new sod and any adj Small cut pieces from a full roll will not be a .2 Stagger joints and ensure that sod sectic closely together without overlapping or between sections. .3 Cut out irregular or thin sections with a shared. 4 Cut sod to fit tight around landscape elemeters. 	unless show ere is a full ro oining surface accepted. ons are butte r leaving gap rp knife. ents.
	Water Fertilizer Wooden Pegs Binder Twine Flagging Tape EXECUTION Finish Grade Preparation	Add 2.1.8WaterDelete 2.2.1 and replace with the followingFertilizerAdd 2.3.2Wooden PegsAdd 2.4Binder TwineAdd 2.5Flagging TapeAdd 2.6EXECUTIONDelete 3.1.2 and replace with the followingFinish Grade PreparationDelete 3.1.2 and replace with the followingSoddingDelete 3.2 and replace	Seed Rate: S0g per square metre Add 2.1.8 All sod shall be completely free of invasive and/or no weeds, grasses including but not limited to poa annua detrimental nematodes and detrimental insects. Water Delete 2.2.1 and replace with the following Potable, free of impurities that would inhibit see Contractor to ensure adequate water is available to to areas during germination and in a vigorously growin until Total Performance of work of this sector. Fertilizer Add 2.3.2 Fertilizer shall be complete synthetic slow release fer application shall be as required by the growing m report. Wooden Pegs Add 2.4 .1 Wooden Pegs shall be 19 mm x 19 mm x 150 grade or better Hem/fir. Binder Twine Add 2.5 .1 Binder Twine shall be hemp based multiple strat medium de for on-woven cellulosic material, and r approved equivalent. Fiasging Tape Add 2.6 .1 Flagging Tape shall be 30 mm wide, biodegrada made of non-woven cellulosic material, and r approved equivalent. Finish Grade Preparation Delete 3.1.2 and replace with the following Prior to the placement of sod Contract Administrator or grade, add growing medium and make adjustments Contract Administrator and the City. Fine grade growing medium and make adjustments Contract Administrator and the City. Sodding Delete 3.2 and replace with the following .1 Sod shall not be placed during hot dry sumr freezing temperatures, or over frozen growing an 2.

SUPPLEMENTARY CONTRACT			SECTION 32 92 23S SS 43
SPECIFICATIONS		SO	DDDING 2025
			 1 Lay sod with the length of each sod section parallel to slop- taking extra care to ensure that sod sections are butt tigh and each sod section is set in a staggered formation. 2 On slopes exceeding 3:1 gradient ensure sod is secured with wooden pegs at intervals of not more that 450 mm along the center of each section. Ensure wooden pegs are driven flush with the sod. 3 Prior to acceptance of sod areas that have been secured with wooden pegs either remove the wooden pegs or drive each wooden peg at least 50 mm below finished grade. 4 Where required, place erosion control mesh or netting and secure with stakes or staples sunk firmly into ground to minimum depth of 150 mm at maximum intervals of meters along pitch of slope. Place stakes or staple horizontally across slope at intervals equal to width of mesl or netting minus 150 mm and drive flush with top of sod.
		.6	Use a light roller to ensure that there is full, close contac between sod and growing medium. Use of a heavy roller to correct irregularities in grade is not permitted.
		.7	Ensure all sodded areas are watered immediately afte installation. Verify that water applied to has penetrated through sod into top 100 mm of growing medium. Continue watering operations as needed to ensure that adequate moisture conten is maintain to encourage deep root growth and healthy vigorous leaf growth.
		.8	Protect newly placed sod from heavy foot traffic during installation and until acceptance by the <i>Contract Administrato</i> and the City. Protection shall include but is not limited to placement of wood planks or plywood of sufficient thickness to bear the imposed weight and prevent damage to sod o displacement and/or compaction of sod/growing medium.
		.9	Sod that has been damaged by construction operation construction / site personnel or construction traffic shall be replaced at no cost to the <i>Owner</i> . Replacement shall include removal of growing medium, regarding of sub grade, replacing growing medium and sod as required.
		.10	Water sod area immediately with sufficient amounts to saturate sod and upper 100 mm of growing medium. Do not allow the soc to dry out so that the joints become visible.
3.4 Grass Maintenance	Delete 3.4 and replace with the following	.1	Maintenance of sodded areas shall begin immediately after sodded operation and shall continue until all deficiencies noted in the <i>Substantial Performance</i> review have been rectified to the satisfaction of the <i>Contract Administrator</i> and the City and conditions for <i>Total Performance</i> have been achieved. The <i>Contractor</i> is to notify the <i>Contract Administrator</i> and the City in writing forty eight hours (48) prior to stopping maintenance operations.
		.2	 Sod Cutting: After the 'first' cut of sodded lawn areas cutting operations shall be carried out on a weekly (seven day) basi until <i>Total Performance</i> by <i>Contract Administrator</i> and the City .1 First cut of sodded lawn areas shall occur when a uniform grass height of 75 mm has been attained. First cut shall be to a height of 65 mm.

SUPPLEMENTARY CONTRACT		SECTION 32 92 23S SS 44
SPECIFICATIONS		SODDING 2025
		 .2 Continue regular weekly cutting at a height of 65 mm un <i>Total Performance</i>. .3 Cutting operations shall be such that each cut is at rig angles to the previous cut. .4 <i>Contractor</i> to remove grass clippings after each cut ar dispose of offsite. .5 Roll when required to remove any minor depressions of irregularities. .6 Immediately repair seeded areas that show deterioration or bare spots. Top-dress all areas showing shrinkage due lack of watering and seed with seed mix that matches th original seed mix.
		.3 Fertilizer analysis shall conform to recommendations provide with growing medium analysis. Application of fertilizer sha follow manufacturers' recommendations noting that aft October 1 lawn areas shall not be fertilized until April 15th of th following spring.
		.4 Sodded lawn areas shall be kept free of invasive and/or noxion broadleaf weeds, grasses including but not limited to poa annu disease, fungi, detrimental nematodes and detrimental insects
		.5 All maintenance equipment and practices are to conform to th BC Landscape Standard Level 2 'Groomed'.
		.6 Protect all sodded areas against trespassing and from damage all times clearly marked, staked, string and flagging tape.
		 .1 Perimeter Protection: Where directed by the <i>Contra Administrator</i> and the City, sodded areas shall a surrounded by a 900 mm high barrier made up of th following components: Wood posts placed at 1.8 meters on centre. Wood Posts to be driven to a depth of 300mm. String two (2) strands of hemp based binder twine (equal product) between posts. Insure one full wra of twine around each post. Tie 300 mm strands of 'red' flagging tape at 450 m intervals along the entire length of both strands twine. Maintain perimeter protection until <i>Tot Performance</i> issued. Upon acceptance by <i>Contra Administrator</i> and the City, remove perimeter femand dispose of off site.
3.5 Condition for Total Performance	Delete 3.5.1 and replace with the following	 Conditions for <i>Total Performance</i> of Sodded areas: .1 Sodded areas exhibit fully established root systems. .2 No seams are visible between sod sections. .3 Sod areas are smooth and evenly graded. No depressions, fo marks or vehicle tracks. .4 Sod is free of bare and dead spots and does not have an broadleaf weeds, noxious grasses including but not limited poa annua. .5 No surface growing medium is visible when grass has been c to height of 65 mm. .6 Sodded areas have been cut a minimum of two (2) times, seven (7) day intervals. .7 Sodded areas are a uniform green colour with no discoloure sections or patches.

SUPPLEMENTARY CONTRACT			SECTION 32 92 23S SS 45
SPECIFI	CATIONS		SODDING 2025
			.8 Sodded areas exhibit a thick, dense, uniform and healthy appearance.
		Add 3.5.2	Lawns sodded after September 30 th will be not be reviewed for <i>Total Performance</i> until April 30 th the next year.
3.6	Guarantee / Maintenance	Delete 3.6.1 and replace with the following	The <i>Contractor</i> hereby guarantees that the sod will remain free of weeds and defects for a period of one (1) year from the date of <i>Substantial Performance</i> . The <i>Contractor</i> shall make all corrections, adjustments and replacements required as a result of failure of all products in this section. During the <i>Maintenance Period</i> , the <i>Contractor</i> will replace sodded areas, determined by <i>Contract Administrator</i> and the City, to be dead or failing at the end of the <i>Maintenance Period</i> . Replacements to be made at next appropriate season and, conditions of guarantee will apply to all replacement seeding for one full growing season.
		Delete 3.6.2 and replace with the following	The Owner reserves the right to extend the <i>Contractor</i> 's <i>Maintenance Period</i> and responsibilities for one (1) additional year if, at end of the initial guarantee period, the development and growth of the sod is not sufficient to ensure future survival.

END OF SECTION

SUPPLEMENTARY CONTRACT			SECTION 32 93 01S
		PLANTING OF TRE	SS 46 ES, SHRUBS, AND GROUND COVERS 2025
1.0	GENERAL	Delete 1.0.1 and replace with the following	Section 32 93 01 refers to those portions of the Work that are unique to the sourcing, supplying, placing and maintaining the plant materia indicated on the <i>Contract Drawing</i> and the Plant List(s). This section must be referenced to and interpreted simultaneously with all othe sections pertinent to the Work described herein.
1.2 References	References	Delete 1.2.2 and replace with the following	Canadian Nursery & Landscape Association (CNLA) Standard for Nursery Stock (current edition).
		Add 1.2.4	The British Columbia Landscape & Nursery Association (BCLNA).
		Add 1.2.5	ANSI A-300 Tree Pruning Guidelines
	Source Quality Control	Delete 1.3 and replace with the following	.1 Seven (7) days prior to the <i>Contract Administrator</i> and the Cit review of plant material at source the <i>Contractor</i> shall confirm in writing availability of plant material noted on plant list.
			.2 Plant material will be supplied from nurseries who are certified by the Clean Plants program, Canadian Nursery Certification Institute (CNCI), current certification standard <u>http://cleanplants.ca/</u> . The certification shall include but is no limited to the requirements of the current active module(s), e.g P. Ramorum module. The certification must extend to all fields and allied nursery operations where plant material is sourced Only nurseries, fields and allied nursery operations that are certified will be permitted to supply plant material for this project.
			 .1 Prior to the review of plant material by the <i>Contract Administrator</i> and the City the <i>Contractor</i> shall submi written documentation with CNCI certification stamp stating that the nursery has undergone all components of certification program and has been audited to verify that a components are properly implemented. .2 The documentation submitted shall include but is no limited to the nurseries CNCI Clean Plants certification number.
			 .3 Plant Material Review at the source nursery. .1 Contractor shall request for review of the plant material a source nursery to be a minimum of seven (7) days prior to scheduled review. .2 Shipping of plant material to the Place of Work shall no proceed until Contract Administrator has reviewed the plant material at the source nursery. .3 Contract Administrator and the City shall make one (1) visi to source nursery for review of plant material for entire project. .4 All plant material, including substitutions shall be gathered at one location for review. .5 Contractor shall accompany Contract Administrator during plant material review at the source nursery.
			 .4 Plant Material Review at the <i>Place of Work</i> .1 All plant material shall be reviewed at the <i>Place of Work</i> b the <i>Contract Administrator</i> and the City prior to planting. .2 Plant material that is rejected by the <i>Contract</i> <i>Administrator</i> shall be immediately removed from the <i>Place</i> of Work and replaced at the <i>Contractor</i>'s expense.

SUPPLEMENTARY CONTRACT SPECIFICATIONS PLANTING OF TREE			SECTION	32 93 01S SS 47	
		PLANTING OF TREES, SHRUBS, AND GROUND COVERS			2025
			.5	 Imported Plant Material .1 Plant material imported from out of provin country shall be accompanied with necessa provincial permits and import licenses. .2 The <i>Contractor</i> shall conform to all federal laws and regulations with regard to horticultr of domestic and imported plant material. 	ry federal an and provinc
			.6	 Condition of Plant Material .1 Plant rootballs and containers shall be <u>com</u> <u>noxious weeds and volunteer plants</u> including Morning Glory. .2 Plant materials grown or supplied in <u>Fabric on to acceptable</u>. 	g Horsetail aı
			.7	All materials and execution to conform to the late the BCNTA Guide Specifications for Nursery Stock BCNTA Guide Specifications for Landscape Constr	and the
	Submittals and Scheduling	Delete 1.4 and replace with the following	.1	Submit inspection certificates as required by shipment of plant material.	law for ea
			.2	Contractor shall provide in writing to the Contract and the City a minimum of seven (7) days prior to a material at the source nursery a plant list c quantity, botanical name, common name and specified.	review of pla onfirming tl
			.3	 Substitutions .1 Contractor shall provide in writing to Administrator and the City a minimum of s prior to review of plant material at the sourc of proposed substitutions for review. .2 Plant substitutions shall be of similar genus a of equal or greater size as those originally spesshall contain the following information: .1 Botanical name, common name of the s .2 Botanical name, common name of substitute plant .3 Pot size and plant size in the nursery 	seven (7) da e nursery a li nd species ar ecified. The li specified plar
			.4	Planting Schedule .1 Contractor shall provide in writing to Administrator and the City upon award of the detailed Planting Schedule outlining dates a planting operations.	the <i>Contract</i>
				.2 Revisions to the Planting Schedule as a resu any kind shall be submitted to the <i>Contract</i> and the City in a timely manner prior to the st	Administrat
				 operations. 3 Schedule all planting to ensure optimum protection, grading, growing medium placen seeding, or sodding operations as outli Specifications. Organize scheduling to ensu duration of on-site storage of plant mate movement and compaction of growing prompt mulching and watering operation. Work schedule with schedule of other trades 	nent, plantin ned in the re a minimu rial, minimu medium, ar ns. Coordina
				 Work schedule with schedule of other trades .4 Coordinate and schedule plating such that occurs to plant material before and after particular, meet requirements of living plant 	at no dama placement.

SUPPLEMENTARY CONTRACT				SEC	TION 32 93 01S SS 48
	CATIONS	PLANTING OF TREES, SHRUBS, AND GROUND COVERS			
			.5	 Product Data .1 Contractor to submit a one (1) litre sam Mulch to the Contract Administrator and prior to delivery. .2 Contractor to submit a one (1) litre sam Growing Medium to the Contract Adm City for review prior to delivery. .3 Contractor to submit three (3) copies of manufacturer product data and specific Administrator and the City review. .4 Contractor to submit three (3) copies manufacturer product data and specific Administrator and the City review. .5 Contractor to submit three (3) copies assembly including clamps, collar, guyin wire tighteners manufacturer pr specifications for Contract Administrator 	d the City for revie ple of the Prepar <i>ministrator</i> and t f the anti-desicca cation for <i>Contro</i> es of the fertiliz cation for <i>Contro</i> ies of the Guyi g wire, anchors a oduct data a
	Handling and Storage	Delete 1.5 and replace with the following	.1	Coordinate shipping of plant material and ex pits to ensure minimum time lapse between on site planting.	
			.2	Ensure branches of trees and shrubs are bo confined mass during handling and transpor	-
			.3	Do not bind planting stock with rope or wire bark, break or damage branches or damage t the plant.	
			.4	Protect plant material against abrasion, extreme temperature change during transit.	
			.5	Cover plant foliage and branches with tarpa of moisture during transit.	ulin to prevent lo
			.6	Fully support root ball of large trees during a	II lifting operatio
			.7	Do not lift trees or shrub by the trunk or material to be moved by lifting the root ball	
			.8	Remove broken and damaged roots with cle pruning shears.	an cuts using sha
			.9	 Temporary Storage/ Heel-In of Plant Materia .1 Temporarily store trees, shrubs and r material that cannot be planted immed Acceptable heel-in material include medium or sawdust. .2 Ensure temporary storage/heel-in ar protected from the wind. .3 Provide sufficient water at regular i health of plant material in the tempor area. .4 Plant material that has not been proper storage/heel-in area and illustrates sign stress will be rejected by the <i>Contract</i> the City. Rejected plant material shall <i>Contractor</i>. 	niscellaneous pla iately by heeling- approved growi ea is shaded a ntervals to ensu- rary storage/heel ly maintained in t is of degradation t Administrator a

	MENTARY		SECTION 32 93 01S		
CONTRACT SPECIFICATIONS		SS 49 PLANTING OF TREES, SHRUBS, AND GROUND COVERS 2025			
1.9	Measurement and Payment	Delete 1.9.1 and replace with the following	Payment for trees will be for each tree of size & species specified. Payment for shrubs, grass, perennials, plugs and ground cover will be for each size & species specified. The unit price includes all preparatory work, supply and planting of the trees, support stakes, Treegator, shrubs, bark mulch and as shown on Contract Drawing, and other incidental specified under this Section including watering and maintenance to meet Conditions of Total Performance.		
		Add 1.9.3	Payment for 400mm deep Root Barrier includes supply of all materials, labour, and equipment required to complete installations.		
1.11	Substitutions	Add 1.11	.1 If it is impossible to obtain the particular plant material listed on the Landscape Drawing, the <i>Contractor</i> may be permitted to suggest substitutions with types and variations possessing the same characteristics. The <i>Contractor</i> must request any substitutions of trees in writing at least one (1) month and shrubs and groundcover at least one (1) month prior to planting. Substitutions must be approved by the <i>Contract Administrator</i> and the City.		
1.12	Plant Material Supply and Search Area	Add 1.12	.1 Before substitutions of plant material are proposed, documented proof that materials are not available through search on the west coast of Canada and United States must be provided. Area of supply shall include, but not be limited to, all of Western North America.		
1.13	Plant Material Identification	Add 1.13	.1 Plant materials that has been located by the <i>Contract</i> <i>Administrator</i> and the City and tagged for the project is to have the identification tags removed only after inspection and instruction by the <i>Contract Administrator</i> and the City after delivery to the <i>Place of Work</i> .		
1.14	Plant Material Replacement	Add 1.14	 The <i>Contractor</i> shall remove from the <i>Place of Work</i> and immediately replace any plant material that has been determined by the <i>Contract Administrator</i> and the City to have died or failed to grow in a satisfactory manner during the guarantee or maintenance period. The <i>Contractor</i> shall extend the guarantee on this replacement plant material for one (1) year from the date of replacement. 		
			.3 The <i>Contractor</i> shall continue such replacement and guarantee of plant material until the <i>Contract Administrator</i> and the City has determined that the <i>Conditions for Total Performance</i> have been met.		
			.4 All required replacements shall be plants of the same size and species as specified on the plant list and shall be supplied and planted in accordance with the drawings, specifications and change orders thereto.		
			.5 The cost of replacements resulting from theft, accidental damage, vandalism, carelessness, neglect on the part of others, shall be borne by the <i>Contractor</i> until the date of <i>Substantial Performance</i> .		
2.0	PRODUCTS				
2.1	Plant Material	Delete 2.1 and replace with the following	 .1 Plant Material Size .1 Overall plant spread to be measured when branches are in their natural position. .2 Height and spread dimensions refer to main body of plant and not from branch tip to branch tip. 		

SUPPLEMENTARY CONTRACT	SECTION 32 93 01S SS 50
SPECIFICATIONS	PLANTING OF TREES, SHRUBS, AND GROUND COVERS 2025
	.2 Grade of plant material to be No. 1 grade or better.
	 .3 Plant material obtained from areas with milder climat conditions from those of the <i>Place of Work</i> is acceptabl provided: .1 Plant material is moved to the <i>Place of Work</i> prior to th breaking of buds at their original climatic zone. .2 Plant material is heeled-in at a protected area until th climatic conditions are suitable for planting.
	.4 Plant materials shall have structurally sound, strong fibrous ro system free of disease, insects, defects or injuries. All plant typical of their species or variety, have a normal habit of grow and shall be first quality, sound, healthy, vigorous, we branched, and densely foliated, free of disease, insect pest eggs or larvae.
	 .5 Root Pruning at Source Nursery .1 Plant material shall have been root pruned on a regulabasis at the source nursery. .2 Plant material shall be root pruned at least one growin season prior to delivery. .3 Large trees shall be half root pruned during each of two successive growing seasons. The second root pruning shall have carried out a minimum of one growing season prior to delivery.
	 .6 Shade, Ornamental and Evergreen Trees: Trees shall have straight trunks and a well-formed brances system which is characteristic of the species Trees shall exhibit clear signs of vigorous growth. Trees shall have good twig extension growth, brances spacing and trunk taper. Tree foliage shall be evenly distributed on upper 2/3 of the tree. Trees shall not have upright branches other than leaders. Trees shall have spreading branches with a single trunk are a single leader and, unless otherwise noted on plans plant list. Tree trunks and branches shall not have any mechanic damage. Trees shall be in good health with no presence of insects
	disease. .9 Trees shall not have been 'headed back'.
	 .10 Tree root balls shall be solid, kept moist at all times and/protected from drying. .11 Trees shall not exhibit symptoms of root circling or girdling
	 .7 Container Grown Plant Material: .1 Root ball to container relationship shall be of sufficie ratio to ensure room for healthy, vigorous ro development. .2 Plant material shall have been container grown for minimum of one (1) growing season but not longer that two (2) growing seasons. .3 The plant root systems that do not have the ability to "holl growing medium when removed from the container will l rejected.
	.4 Root bound plant material will be rejected.
	8 Palled and Burlanned Plant Material:

.8 Balled and Burlapped Plant Material:

	MENTARY		SECTION 32 93 01S
CONTRA SPECIFIC	ATIONS	PLANTING OF TR	SS 51 SEES, SHRUBS, AND GROUND COVERS 2025
			 Coniferous and broadleafed evergreens over 2.4-metershall be dug with firm soil root ball. Deciduous trees in excess of 3.0-meter height shall be owith firm soil root ball. Root ball diameter shall be a minimum of 230 mm (for e 25 mm caliper size. Secure root-balls with burlap, heavy twine and rope. Large tree root balls shall be double layer burlap wrapp Burlap to be secured with drum laces made up of 10 m (minimum) diameter rope.
			 .9 Tree Spade Dug Plant Material Plant material shall be dug with mechanized hydra spade or clamshell type digging equipment. Root ball diameter shall be a minimum of 230 mm for e 25 mm caliper size. Wire basket shall be lined with burlap. Root ball shall laced and tied to wire basket with heavy rope. Ensure trunk of tree is not damaged by wire basket, ties rope.
2.2	Water	Delete 2.2.1 and replace with the following	Potable and free of minerals and impurities which are detrimental plant growth.
2.3	Fertilizer	Add 2.3.2	Fertilizer shall be prolonged-release fertilizer tablets containing minimum of 20% nitrogen, 10% phosphoric acid, and 5% potash (10-5) as per Approved Products List. Store in weatherproof stor- space.
2.4	Mulch	Delete 2.4.1 and replace with the following	Composed mulch shall be 9 mm black/brown in colour with no ce or redwood bark or wood material as per Approved Products List.
2.5	Stakes	Delete 2.5.1 and replace with the following	Stakes shall be pressure treated Hem/Fir, 75 mm dia. round, 2500 r long. Stake fasteners shall be hot dipped galvanized or stainless ste
2.8	Guying Wire	Delete 2.8.1 and replace with the following	Guying wire shall be direct burial or screw type disc guy anchor a guy system as per Approved Products List.
2.11	Anti-Desiccant	Delete 2.11.1 and replace with the following	Anti-Desiccant shall be wax-like emulsion, as per Approved Produ List, that will provide a transpiration reducing film over the pl surface.
2.12	Flagging Tape	Delete 2.12.1 and replace with the following	Flagging tape shall be 30mm wide 'Red' PVC flagging tape as Approved Products List.
2.13	Tree Trunk Protection	Add 2.13	.1 Tree trunk protections shall be extrusion mold proce polyethylene with UV protectors as per Approved Products L
2.14	Burlap	Add 2.14	.1 Burlap shall be untreated, free from toxic contaminants and sufficient strength to hold the rootball in a compact, stable m that does not move relative to the main stem(s) of the tree shrub.
2.15	Wire Baskets	Add 2.15	.1 Wire baskets shall be non-galvanized metal basket designed a manufactured for the purpose of tree moving. Basket shall

	MENTARY			SECTION 32 93 01S SS 52
	CATIONS	PLANTING OF TREE	ES, SH	RUBS, AND GROUND COVERS 2025
				shaped to ensure that the root ball will allow a stable plant condition in accordance with standards noted.
2.16	Tree Ties	Add 2.16	.1	Tree ties shall be Flat woven polypropylene material. 20 r wide, 544 Kg, break strength. extrusion mold proce polyethylene with UV protectors as per Approved Products L
3.0	EXECUTION			
3.1	Pre-Planting Operations	Delete 3.1 and replace with the following	.1	Place stakes on site to identify location trees, shrubs and pl beds in accordance to the Landscape Plans.
			.2	Contract Administrator and the City to review all tree location and plant bed layout prior to start of plant bed preparation a planting operation.
			.3	Anti-desiccants shall be applied only as directed by the <i>Contr</i> <i>Administrator</i> and the City. Application of anti-desiccant shall in accordance with manufacturer's instructions.
			.4	Coordinate planting operations with other trades and proj schedule.
			.5	All planting operations shall be done in a timely manner accordance to the Planting Schedule.
			.6	Planting Schedule shall be updated as required by the <i>Contrac</i> to coincide with status of site and coordination with ot trades. Provide the <i>Contract Administrator</i> and the City w updates to the schedule as required throughout the plant process.
3.2	Subgrade Preparation	Delete 3.2 and replace with the following	.1	The <i>Contractor</i> is responsible for confirming the location a extent of existing utilities prior to the start of all plant operations. All attempts should be made to ensure that uti services are maintained to all on and off site parties through the entire planting operation.
			2.	 Tree Pits .1 Tree Pit Depth 900 mm minimum. .2 Width of tree pit shall be a minimum of 450 mm to 600 m greater than diameter of the root ball. .3 Prior to the placement of growing medium scarify the side and bottom of tree pits created with a tree spade eliminate glazed surface.
			.3	 Ensure tree pits dug in heavy or compacted soils exhibit a ability to drain freely by filling each tree pit with a minimum 20 litres of water. Water should freely drain through subwithin ten (10) minutes. .1 Notify <i>Contract Administrator</i> and the City if tree pits in a soil condition do not drain freely or if tree pit fills wiground water. .2 There shall be no standing water in the bottom of tree at time of planting.
			.4	Protect bottom of tree pit(s) against freezing.
			.5	Ensure tree pits and plant beds are kept well drained and free contaminants and construction debris.
			.6	Planting Areas shall be excavated to the following depths:

CONTRA	MENTARY ACT CATIONS		C CLU	SECTION 32 93 01S SS 53 RUBS, AND GROUND COVERS 2025
SPECIFIC	LATIONS	PLANTING OF TREE	23, SH	KUBS, AND GROUND COVERS 2025
				 .1 Shrub beds, perennials, ornamental grasses shall be 450 mm. .2 Ground covers and annual flowers shall be 300 mm. .3 Trees shall be 900 mm.
3.3	Planting	Delete 3.3 and replace with the following	.1	Planting operations shall be carried out under conditions that are conducive to healthy, vigorous growth of plant material.
			.2	Plant material shall be planted vertical, straight and plumb locations staked in field and or noted on landscape plans.
			.3	Ensure orientation of plant material will give best appearance relation to views from adjacent buildings, roads, walks or us areas.
			.4	Ensure planting depth of root ball is equal to the depth of roo ball originally established in the nursery. The top of root ba shall be level with adjacent growing medium.
			.5	Ball and Burlap Plant Material: After plant has been lowered in plant bed or tree pit cut away all root ball ties from around trun Loosen burlap from around trunk and cut away minimum to 1/3 without disturbing root ball.
			.6	Container Grown Plant Material: Remove entire contain (including biodegradable containers) without disturbing ro- ball. Score root ball vertically at six (6) locations evenly space around entire root ball to minimize girdling of roots.
			.7	Tree Spade Dug Root Balls: Cut wire basket around entitiperimeter of root ball. Bend down top 2/3 of wire bask without disturbing root ball. Cut away all root ball ties fro around trunk. Loosen burlap from around trunk and cut awa minimum top 1/3 without disturbing root ball.
			.8	Backfill planting areas in 150 mm lifts to 2/3 of the dep tamping each lift of growing medium around root system eliminate air voids. Do not use frozen or saturated growin medium for backfill operation.
			.9	Prior to placing remaining growing medium, thoroughly wat planting areas, fill tree pits with water. Complete backf operation only after water has completely penetrated in growing medium.
			.10	Build 100 mm high by 150 mm wide (4" high by 6" wide) sauce around outer edge of tree pit to assist with maintenance watering.
			.11	Tree Stabilization
				 Guy or stake trees as directed by <i>Contract Administrate</i> and the City. Ensure guy pins and stakes are not placed through the roo ball. Trees that have had root balls penetrated by guy pins an stakes will be rejected. Tie one (1) to two (2) flagging tape flags to all guy wires a a height that is clearly visible.
			.12	 Place tree trunk protection around base of tree trunk as permanufacturer instructions. .1 Trees 100mm caliper or less shall have one protector. D not interlock ends of tree protector.

SUPPLE CONTR/	MENTARY ACT					SECTION 32 93 01S SS 54
	CATIONS	PLANTING OF TRE	ES, SH	RUBS, AND GROUND CO	VERS	2025
						shall have a minimum o interlock outside ends
			.13	Fertilize as per recomme planting tablets at the fo Spread the tablets in eac	llowing rates in _l	prepared planting hole
				<u>Plant/Container</u> <u>Size</u>	Table Size	Tablets per Plant
			.1	Trees	21g	1 per every 1.25mn of trunk caliper
			.2	#15/ 45 cm tub	21g	3
			.3	, #7/ 35 cm tub	21g	3
			.4	#5/ 30 cm pot	21g	2
			.5	#3/ 27 cm pot	21g	2
			.6	#2/ 21 cm pot	21g	1
			.7	#1/ 15 cm pot	21g	1
3.4	Tree Support	Delete 3.4 and replace with the following	.1	Guy and stake all tree material not guyed or s damaged.	-	
			.2	Drive one (1) stake per ti of 750 – 1000 mm, in su or root ball.		-
			.3	Fasten tree to the crotc the ground with galvaniz		
			.4	Trees to stand plumb up	on completion o	of this operation.
3.6	Pruning	Delete 3.6 and replace with the following	.1	All pruning cuts shall be blade pruning tools de operations. Anvil-type pruning operations.	signed and ma	nufactured for prunir
			.2	Prune trees and shrubs Contract Administrator a		
			.3	Prune each tree and s character of the plant particular requirement general shall be heavie plants. Remove all soft badly bruised branches	and in a man in the landsca r on collected wood sucker g	ner appropriate to i pe design. Pruning than on nursery-grow rowth and all broken o
			.4	Employ clean sharp tool branch collar.	s and make cut	s without damaging th
			.5	Do not damage the lead had the main leader or le be rejected and replace <i>Owner</i> .	ead branches da	amaged or removed w
			.6	Do not remove minor ty branches.	wig branches al	ong the main structur
3.7	Mulching	Delete 3.7 and replace	1.	Prior to the application of	of composted m	ulch;
		with the following		and adjacent growi	ng medium.	eed roots from root bal nd debris from plantir

	MENTARY			SECTION 32 93	
CONTR/ SPECIFI	ACT CATIONS	PLANTING OF TREE	ES, SH		SS 55 2025
			-,-		
				 .3 All fine grading shall be completed, the growing shall be loose and friable. .4 The <i>Contract Administrator</i> and the City has review planting areas. 	
			.2	Spread composted mulch to minimum depth of 50 mm	
				 Ensure finish composted mulch layer is a mini 12 mm below adjacent hard landscape surfaces an Ensure mulch is kept 125 mm away from tree trunk mm away from stems of shrubs. 	nd edge
3.8	Clean-up	Delete 3.8 and replace with the following	.1	Growing medium spilled onto pavement and growing stains on pavement or adjacent hard surfaces shall be up immediately.	
			.2	Remove from the site all pots, cans, surplus materials, a debris resulting from planting operations.	nd oth
			.3	Ensure complete removal of planting tags, labels, st other materials prior to substantial completion.	rings,
			.4	Neatly dress and finish all planting areas and flush all w paved areas clean to the satisfaction of the Consult <i>Owner</i> .	
3.9	Maintenance	Delete 3.9 and replace with the following	.1	Maintenance of plants shall begin immediately after operation and shall continue in an uninterrupted fashion deficiencies noted in the <i>Substantial Performance</i> revi been rectified and the <i>Contract Administrator</i> and the provided to the <i>Contractor</i> written confirmation of the <i>Total Performance</i> .	n until iew ha City h
			.2	If for any reason the <i>Contractor</i> elects, on his own wit written consent of the <i>Contract Administrator</i> and the suspend maintenance operations, the <i>Contractor</i> shall the <i>Contract Administrator</i> and the City written notice action. Any damages or requirement for the replace plant material that as a result of the suspension of mair operations shall be the borne by the <i>Contractor</i> at no co <i>Owner</i> .	e City I provie of su ement ntenan
			.3	Maintenance of plant material includes but is not lin watering at intervals sufficient to maintain healthy, growth, weeding of plant beds and tree pits, cultiv growing medium, pruning, treatment of insects, molds, disease to the Level 2 "Groomed' as per the BCNLA La Standard, Current Edition or as directed by consultant.	vigoro /ating , fungi
			.4	Plant material shall be deep watered at least once per d temperatures exceed 25 degrees Celsius.	ay wh
			.5	Water sufficiently to maintain soil moisture condit optimum establishment, growth and health of plant without causing erosion.	
			.6	Supply equipment such as pumps, portable sprinklers tank trucks, hose and sprinklers required for operations. Water trucks, if used for watering operatio service the site from adjacent roads until irrigation s operational.	wateri ons, mu

CONTRA	MENTARY ICT CATIONS	SECTION 32 93 01S SS 56 PLANTING OF TREES, SHRUBS, AND GROUND COVERS 2025				
			.7	<i>Contractor</i> to ensure adequate moisture in plant root zone prior to winter freeze-up.		
			.8	Reset all plants that have settled to plant depths approved by the <i>Contract Administrator</i> and the City prior to the placement of composted mulch.		
			.9	Ensure tree guards, stakes, flagging tape on tree guy wire and tree ties are kept secure, taught and in proper repair.		
3.10	Conditions for Total Performance	Delete 3.10 and and replace with the following	.1	 Conditions for <i>Total Performance</i>: 1 Substantial Performance shall have been granted by the <i>Contract Administrator</i> and the City and, Final Inspection at the end of the guarantee/warranty period. 2 All plant material is healthy; exhibiting signs of vigorous growth and meets the requirements of this specification. 3 Plant material installed less than ninety (90) days prior to frost will be accepted in following spring, thirty (30) days after start of growing season provided that final acceptance conditions are fulfilled. 4 Unless otherwise indicated in the <i>Contract Drawing</i> the original shape and form of the plant as reviewed by the <i>Contract Administrator</i> and the City has been maintained leaders are in tact, there are no wounds or abrasions or trunks or branches. 5 Mulch has been maintained to specified depths. 6 All planting areas continue to be free draining with no signs of standing water. 7 All plant beds are completely free of weeds and noxious grasses. 		
			.2	The <i>Contractor</i> shall continue to maintain the work of this section until the <i>Contract Administrator</i> and the City provides written confirmation that <i>Total Performance</i> conditions have		

been met.

END OF SECTION

CON	PLEMENTARY ITRACT CIFICATIONS	Ν	IANHOLES AND CATCHBASINS	SECTION 33 44 01S SS 57 2025
1.0	GENERAL			
1.1	Related Work	Add 1.1.6	Hot Mix Asphalt Concrete Pavement	Section 32 12 16
		Add 1.1.7	Portland Cement Concrete Paving	Section 32 13 13
1.5	Measurement and Payment	Delete 1.5.2 and replace with the following	for installing the catchbasin.	f Quantities and Prices and as g COQ-S11A. Prices include all required to complete the work level. Payment includes xcavated material, base ckfill, catchbasin preparation to
		Delete 1.5.3 and replace with the following	Adjustment of tops of existing	; units will be measured in units paid for under their respective Item
			junctions and manholes, monu drains, cleanouts, inspection cl	justing external utility valve boxes/ ment boxes, gas valve boxes, lawn nambers and water meters, these incidental work unless otherwise
			.1 Unit price adjustments to exis replacement, removal or additio cement mortar and resetting of t finished grade.	n of approved concrete riser rings,
			.2 Unit price for manhole lid and jackhammering, cement mortar, frame and lid and supply and ins and lid to finished grade. Work a Administrator.	removal and disposal of existing tallation of a new manhole frame
			installing a new Nelson Type Te and lid. Replacements include	ts will be defined as supplying and rminal City Water Valve Box frame the removal and disposal of the er incidental work. Work as directed
				x adjustments will include resetting the existing valve box and frame and r incidental work as required.
				oks box on an existing inspection , labour, equipment, and other
				te replacement will be defined as new catchbasin frame & lid to

			SECTION 33 44 015
	TRACT IFICATIONS	MA	ANHOLES AND CATCHBASINS 202
			the correct elevation. Adjustments shall include jackhammering, removal of the existing grating and frame and all other incidental work. Payment includes excavation, disposal, removal of concrete bricks, removal or addition of precast concrete riser rings, cement mortar, disposal of surplus excavated material, cast-in-place concrete, pipes, fittings and related materials together with all labour, materials and equipment required. Catch basin lead work is considered to be incidental to payment for catch basin lead work described in other sections
			Adjustment ONLY will be defined as re-using the frames, lids, grates, or valve boxes to complete the Work as described above.
2.0	PRODUCTS		
2.1	Materials	Add 2.1.7.3	Any frame and cover assembly creating a point load on the concrete riser rings will not be permitted.
		Delete 2.1.12 and replace with the following	Catchbasin lids manufactured to ASTM C478M
		Delete 2.1.16.2	
		Delete 2.1.17	
8.0	EXECUTION		
8.1	Excavation and Backfill	Add 3.1.2	For manholes, when base gravels are complete, excavate for grade rings and manhole frame assembly. Do not disturb the compacted road base beyond the excavation requirement.
8.3	Manhole Installation	Delete 3.3.12.2 and replace with the following	Allowable products are precast concrete risers and cast-in-place form system. Individual riser heights shall be 50mm, 75mm, or 100mm.
		Delete 3.3.12.5 and replace with the following	Proper layer of grout between the spacers, covering the entire surface of the rings, should be utilized.
		Delete 3.3.15 and replace with the following	Install drop structures as shown on the contract drawings to Coquitlam Standard Detail Drawing COQ-S4 and Standard Detail Drawing S3. Maximum allowable inside ramp shall be 250 mm invert to invert.
		Delete 3.3.17 and replace with the following	Ensure frames conform to design contour of pavement or existing surface. Manhole lids left raised in preparation for overlay paving shall have a rubberized protector ring or asphalt ramp. The use of riser rings for adjusting manhole frames will not be permitted.
8.5	Catchbasin Installation	Delete 3.5.1 and replace with the following	Install catchbasins as shown on Coquitlam Standard Detail Drawings COQ-S11A, COQ-S11B and Standard Detail Drawing S11, to general standards and installation procedures described under 3.3 of this Section.

END OF SECTION

Appendix A -Traffic Management Detail Specifications

Detai	c Management I Specifications		
contr	ract No. 92344		TRAFFIC MANAGEMENT TMP 1
1.0	GENERAL	.1	This Traffic Management detail specification refers to the Contractor's specific plans to identify project traffic risks affecting the <i>Work</i> , provide Traffic Control Plans, and to implement the traffic control for the safe passage of vehicles and pedestrian through the work zone.
1.1	Related Works	.1	Traffic Control, Vehicle Access and Parking MMCD Section 01 55 00S.
1.2	References	.1	WorkSafe BC, Occupational Health and Safety (OHS) Regulation, Section 18 – Traffic Control.
		.2	B.C. Ministry of Transportation (MOT) Traffic Control Manual for Work on Roadways
1.3	Project Requirements	.1	A Road and Sidewalk Closure Permit is required by Coquitlam for all wo affecting traffic flow related to construction. A permit is required for each specific construction interference with traffic flow. The Road and Sidewalk Closure Permit Request form is attached as Appendix 1 to this document. A digital copy of the Road and Sidewalk Closure Permit forr can be obtained for use during the contract from the City's website at: <u>Road and Sidewalk Closure Permit</u>
		.2	A Road and Sidewalk Closure Permit form application must be submitte to City's Traffic Operation Division ten (10) working days prior to start o work.
1.4	Measurement and Payment	.1	For this Contract, payment for all work performed under this section, unless included in the Schedule of Quantities and Prices shall be treated as incidental work, including a Traffic Management Plan (TMP), Traffic Control Persons (TMP), traffic markings & all temporary traffic signs, devices as required for traffic & pedestrian safety; and all other items described in the Section 01 55 00S.
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 Category identification through risks and project category assessment as per MOTI Traffic Management Manual for Work of Roadways; 2 Traffic Control Plans for individual stages of the construction; 3 Incident Management Plan for the response to an unplanned event and recording of incident information; 4 Category 3 TMP must be signed and sealed by a qualified Professional Engineer.
		.3	Submission of the TMP is to be made to the <i>Contract Administrator</i> within five (5) working days after the <i>Notice of Award</i> of the <i>Contract</i> ,

	Specifications act No. 92344		TRAFFIC MANAGEMENT	TMP 2
Contra	act NO. 92544			
			and must be approved by the <i>Contract Administrator</i> prior <i>Nork</i> .	to start of th
		(Review of the TMP will be performed by the Contract Adm Comments for revisions to the TMP will be returned to the Manager for implementations.	
		r 3 9 8 7 1	The Contractor shall comply with all the requirements of a rules, regulations, codes and orders of the municipal and c appropriate authorities concerned with work on streets or shall post proper notices and/or signals, and provide neces guards, lights, flagmen or watchmen as may be necessary maintenance of traffic and protection of persons and prop njury or damage. All costs involved in respect to the above will be deemed to be included in the Contract Price.	other highways an ssary barriers for proper erty from
		F	The Contractor shall give due notice to local police and fire prior to beginning construction and shall comply in all resp requirements.	
		F	The Contractor, during the progress of the work, shall mak provision to accommodate the normal traffic along streets mmediately adjacent to or crossing the work so as to caus minimum of inconvenience to the general public.	and highway
		(The Contractor is required to maintain local traffic and driv during all stages of construction. This includes maintaining walkway or pathway through the construction site for ped	g a 1.5m widt
		ŝ	Where existing streets or roads are not available as detour shall be permitted to pass through the work with as little in and delay as possible unless otherwise provided or author street only is under improvement, the other half shall be o and maintained as detour.	nconvenience ized. If half th
2.2	Incident Management and Reporting	r S T T	The Contractor shall facilitate incident response vehicles a move traffic safely and expeditiously through or around ar site and provide assistance to emergency response person required. An incident includes, but is not limited to, moto accidents, emergency road repairs, disabled vehicles, and road. The immediate response to an emergency shall by n use of available devices and equipment.	n incident on nel as or vehicle debris on the
		r i	f an incident occurs on site, the Contractor will be require report to the Contract Administrator documenting details ncluding event, location, date, time, action taken, duratio restoration of site.	of the incide
2.3	Traffic Control Plans	t T t	The Contractor shall designate a qualified Traffic Control S the works, per the requirements of WCB regulations Section The designated Traffic Control Supervisor may be the same that is designated as the Traffic Manager, or may be a sepa ndividual qualified for the responsibilities of this function.	on 18. e individual arate
			The Contractor shall prepare weekly the anticipated traffic activities, locations, and durations for the upcoming week.	

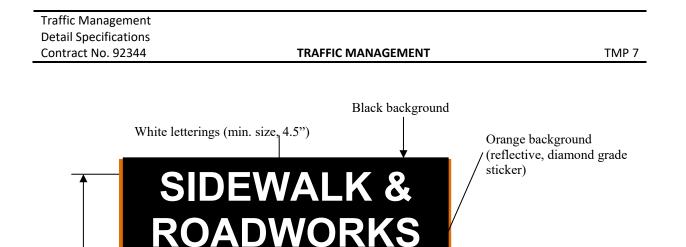
	c Management I Specifications	
Contr	act No. 92344	TRAFFIC MANAGEMENT TMF
		 .3 Permissible delays shall only be considered outside Peak Hours. Permissible delays are categorized as follows: a) Minor Delays - Less than two (2) minutes in duration; for occasional interruption due to construction activities. 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 <u>current</u> Traffic Plan must be held on site by bo the Site Superintendent as well as the person/company responsible fo the traffic control implementation.
		.2 Failure to produce a valid approved Traffic Plan on site, or having wor not follow the Traffic Control Plan will result in immediate shut-down the work. The Contractor will be required to safely restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire an approved Traffic Control Plan before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.
3.2	Road and Sidewalk Closure Permits	.1 The Contractor must have, on-site, a copy of an approved Road and Sidewalk Closure Permit valid for the work being done. Failure to produce a valid Road and Sidewalk Closure Permit on-site will result in shut-down of the work. Failure to comply on what is stated on the approved permit will result in shut-down of the work. The Contractor be required to safely restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire a Road a Sidewalk Closure Permit before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down
3.3	Traffic Control Personnel & Equipment	.1 The Contractor shall supply all necessary traffic control devices requir 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 shal the responsibility of the Contractor. The location and type of each sign shall 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 the Traffic Control Plan and signs and devices must be located so as to allo traffic to move by or through the work area in a controlled manner and, if

Detail	c Management Specifications		
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		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. Si and delineators shall be cleaned as frequently as necessary to ensure full legibility and reflectance.	igns
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 Cont 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 bicycl to have safe access across the work zone at all times. If this cannot be readi accommodated, then acceptable detours and appropriate signs shall be provided.	
3.8	Good Neighbor Practice	The Contractor, crew and subcontractors, shall not park their private vehicle the same street they will be working on. Contractor is responsible to find alternative parking accommodation to minimize any inconvenience to the residents.	\$S O
3.9	Temporary Pavement Markings	The Contractor shall be responsible for the application and removal of all temporary pavement markings and reflective devices. All temporary markings must be removed after installation of permanent markings.	
4.0	TRAFFIC RESTRICTIONS		
4.1	Road and Sidewalk Closure Permits	.1 Minimum of Single Lane Alternating Traffic must be accommodated a times. If necessary and only at the discretion of the Contract Administrator, Local Traffic Only may also be approved at one block a time.	
		.2 A Road and Sidewalk Closure Permit is required for each instance of closure and will be valid for a maximum period of one (1) week and, i still necessary, re-submittal of a Road and Sidewalk Closure Request required.	
		A copy of the approved Road and Sidewalk Closure Permit must be he on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.	əld
		.3 Total Road Closure Is Not Permitted.	

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Contr	all INU. 92344		
		.4	Detours will only be permitted as approved by the Contract Administrator and must have a complete Traffic Control Plan indicating detour route, signing, and duration. Detours will not be allowed without sufficient lead time for commercial and retail operation to react appropriately to detour information provided to them.
4.2	Lane Closure Restrictions	.1	 For each of the road sections affected: Road and Sidewalk Closures will be reviewed for appropriateness during the allowable hours of work. Access to properties to be maintained Sufficient Traffic Control Persons are required for each Road and Sidewalk Closure (or any work activities), including side street intersections, to safely guide traffic through the work site.
5.0	HOURS OF WORK		
5.1	Allowable Hours of Work	.1	The hours of work shall be from 0700 h to 1900 h inclusive Monday to Friday and 0900 h to 1800 h inclusive Saturdays, unless noted otherwise.
		.2	Line Marking work may be performed at night, (21:00 to 05:00). No work is allowed on Sundays without specific written permission from Contract Administrator.
6.0	CONSTRUCTION OPERATIONS		
6.1	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 <u>www.coquitlam.ca</u> and can be found under Residents Services, Roads & Transportation, Transportation Options, Trucks & Goods .
6.2	Road Specific Considerations	.1	The Contractor shall ensure safe passage of all pedestrians and all types of vehicles. The Traffic Management Plan must accommodate businesses, school, residences and pedestrian during construction activities.
			All City Traffic Counts are available on the City's web site at: Coquitlam Traffic Data
6.3	Work Stoppage Due to Traffic	but of t ine	e City will not control or direct traffic control activities of the Contractor, t may require an immediate stop to any work where, in the sole opinion the Contract Administrator, the provided traffic management plan is effective. Contractor is responsible for the costs associated with this work ut-down.
6.4	Construction Activity and Signage	sig	e Contractor will be responsible to place other construction information ns as required to inform the public of construction activities, and ensure a travel through the work site.

Traffic Management			
Detail Specifications			
Contract No. 92344	TRAFFIC MANAGEMENT TMP 6		
6.5 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:		
	<u>Cornell Avenue:</u> - Eastbound, SE corner of Schoolhouse St and Cornell Ave Westbound, NW corner of Poirier St and Cornell Ave		
	<u>Draycott Street:</u> - Northbound, NE corner of Draycott St and Austin Ave - Southbound, SW corner of Draycott St and King Albert Ave		
	Haversley Avenue: - Eastbound, SE corner of Haversley Ave and Poirier St - Westbound, NW corner of Haversley Ave and Laurentian St		
	(exact locations to be determined on site by Contract Administrator)		
	Ensure that signs and locations are addressed in the Traffic Management Plan. All signs are to be removed at the end of the construction period.		
	Construction Zone Information Signs to follow specifications below (change name of street as required):		

-



CORNELL AVE

1.2m

SUMMER - FALL 2025

EXPECT DELAYS

1.2m

Contractor:

Contact No. :

Contact Person:

Black letterings (min. size: 3")

Black letterings (min. size, 3.5")

White background (reflective, diamond

Black letterings

grade sticker)

Traffic Manag Detail Specific Contract No. 9	ations	TMP 8
	White letterings (min. size, 4.5") Black background SIDEWALK Slack backgroun	
	Black letterings	

1.2m

Contract 92344 TRAFFIC MANAGEMENT TMI APPENDIX 1 City of Coquitlam Road and Sidewalk Closure Permit Request Trafic and Street Use Management Section 3000 Guildford Way, Coquitlam BC V3B 7N2 Phone: (04-927-0250) Email: StreetPermits@icoquitlam.ca Initial Permit: \$150 Renewal Permit; \$75 Application Date: City Project or Film Permit Number (if applicable): 92.344 • An Initial Permit is required for all new applications and when the location, type of work, or the type of traffic controls change from what was approved for the Initial Permit. The application needs to be received a minimum of 10 business days prior to the intended dosure date. • A Renewal Permit extends the rights and privileges of the approved Initial Permit and is required when the timeled extension date. • Perelepment Site Address (if applicable):	Traffic Management Detail Specifications Contract 92344		AFNIT	TN 4 Г
Constitution Road and Sidewalk Closure Permit Request Traffic and Street Use Management Section 3000 Guildford Way, Coquitam BC V3B 7N2 Phone: <u>604-927.6250</u> Email: <u>StreetPermitsWord</u>	20111 act 92544			TIVIF
Control of the second s		APPENDIX 1	City of Coquitia	am
Traffic and Street Use Management Section 3000 Guildford Way, Coquidam BC V3B 7N2 Phone: <u>504-927-6250</u> Email: <u>StreetPermits@coquidam.ca</u> Paplication Date: City Project or Film Permit Number (if applicable): 92344 • An Initial Permit is required for all new applications and when the location, type of work, or the type of traffic controls change from what was approved for the Initial Permit. The application needs to be received a minimum of 10 business days prior to the intended dosure date. • A Renewal Permit extends the rights and privileges of the approved Initial Permit and is required when the timeline needs to be extended. The application must be received a minimum of 5 business days prior to the intended extends the rights and privileges of the approved Initial Permit and is required when the timeline needs to be extended. The application must be received a minimum of 5 business days prior to the intended extends the rights and privileges of the approved Initial Permit and is required when the timeline needs to be extended. The application must be received a minimum of 5 business days prior to the intended extension date. Development Site Address (if applicable):	C		Road and Sidewa	alk
Traffic and Street Use Management Section 3000 Guildford Way, Coquitlam BC V38 7N2 Phone: <u>504-927-6250</u> Email: <u>StreetPermits@coquitlam.ca</u> Application Date:	Coquitlam	(Closure Permit Reque	est
3000 Guildford Way, Coquitam BC V38 7N2 Phone: <u>504-927-6250</u> Email: <u>StreetPermits@coquitan.ca</u> Application Date: City Project or Film Permit Number (if applicable):92344 4 An Initial Permit is required for all new applications and when the location, type of work, or the type of traffic controls change from what was approved for the Initial Permit. The application needs to be received a minimum of 10 business days prior to the intended dosure date. 5 A Renewal Permit extends the rights and privileges of the approved Initial Permit and is required when the timeline needs to be extended. The application must be received a minimum of 5 business days prior to the intended extension date. 5 Development Site Address (if applicable):	\sim		•	
Initial Permit: \$150			3000 Guildford Way, Coquitlam BC V3B	3 7N2
Application Date:	Initial Permit: \$150 🗆 🛛 Renewal Permit: \$75 🗆		6250 Email: <u>StreetPermits@coquitla</u>	<u>m.ca</u>
An Initial Permit is required for all new applications and when the location, type of work, or the type of traffic controls change from what was approved for the Initial Permit. The application needs to be received a minimum of 10 business days prior to the intended closure date. A Renewal Permit extends the rights and privileges of the approved Initial Permit and is required when the timeline needs to be extended. The application must be received a minimum of 5 business days prior to the intended detension date. Development Site Address (if applicable):			92344	L
Work location (street name, block number, to/from, at, etc.) Contact Information Applicant Company Name: Applicant (person completing application form) Name:	 An Initial Permit is required for all new app traffic controls change from what was appr minimum of 10 business days prior to the i A Renewal Permit extends the rights and put timeline needs to be extended. The applica 	lications and when th roved for the Initial Pe ntended closure date rivileges of the approv	e location, type of work, or the type of ermit. The application needs to be receiv ved Initial Permit and is required when	ved a the
Contact Information Applicant Company Name: Applicant (person completing application form) Name:	Development Site Address (if applicable):			
Applicant Company Name:	Work location (street name, block number, to/fro	om, at, etc.)		
Applicant (person completing application form) Name:	Contact Information			
Name:	Applicant Company Name:			
Phone: Email: Applicant's Signature:				
Applicant's Signature:				
Company Name (Prime Contractor):				
Site Superintendent Name:Title:				
Name:				
Phone: Mobile: Email: Permit Information Start Date: End Date: Output Day(s) and Time(s): Monday Tuesday Wednesday Thursday Friday From: 00:00 To: 00:00 Baturday From: 00:00 To: 00:00 Sunday From: 00:00 To: 00:00 0	•	Title:		
Start Date:	Phone: Mobile:	E	mail:	
Day(s) and Time(s): Monday Tuesday Wednesday Thursday Friday From: 00:00 To: 00:00 Saturday From: 00:00 To: 00:00 Sunday From: 00:00 To: 00:00 Specific Lanes: Curb Inside/Centre Lane Left Turn Lane Right Turn Lane Parking Lane All Lanes Sidewalk/MUP Bicycle Lane Direction: Northbound Southbound Westbound Eastbound Purpose of Work: Concrete Pour Utility Installation Curb Installation Other This permit is related to: City Design and Construction City Parks External Environmental Development External/Utilities City Contact (if applicable):	Permit Information			
Day(s) and Time(s): Monday Tuesday Wednesday Thursday Friday From: 00:00 To: 00:00 Saturday From: 00:00 To: 00:00 Sunday From: 00:00 To: 00:00 Specific Lanes: Curb Inside/Centre Lane Left Turn Lane Right Turn Lane Parking Lane All Lanes Sidewalk/MUP Bicycle Lane Direction: Northbound Southbound Westbound Eastbound Purpose of Work: Concrete Pour Utility Installation Curb Installation Other This permit is related to: City Design and Construction City Parks External Environmental Development External/Utilities External Environmental	Start Date: End Date:			
□ All Lanes □ Sidewalk/MUP □ Bicycle Lane Direction: □ Northbound □ Southbound □ Westbound □ Eastbound Purpose of Work: □ Concrete Pour □ Utility Installation □ Curb Installation □ Other This permit is related to: □ City Design and Construction □ City Parks □ External Environmental □ Development □ External/Utilities City Contact (if applicable):	Day(s) and Time(s): 🗆 Monday 🗖 Tuesday 🗖 W	Vednesday 🗖 Thursd		
Purpose of Work: Concrete Pour Utility Installation Curb Installation Other This permit is related to: City Design and Construction City Parks External Environmental Development External/Utilities City Contact (if applicable):	Specific Lanes: Curb Inside/Centre Lane	Left Turn Lane	-	
This permit is related to: □ City Design and Construction □ City Parks □ External Environmental □ Development □ External/Utilities City Contact (if applicable):	Direction: 🗆 Northbound 🛛 Southbound 🗖 V	Westbound 🛛 Eastb	ound	
Development External/Utilities City Contact (if applicable):	Purpose of Work: 🗆 Concrete Pour 🛛 🗆 Utility Ins	stallation 🛛 Curb In	stallation 🛛 Other	
	This permit is related to: 🗆 City Design and Com	struction City Par	rks 🛛 External Environmental	
Office Use Only	Development Development E	xternal/Utilities		
	•			

Approved by

Date

These supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents (Platinum), Volume II, 2009.

TRAFFIC MANAGEMENT

TMP 10

Application Checklist



The following information must be provided. Incomplete applications will not be reviewed.

1. Traffic Management Plan (TMP); OR

Traffic Management Manual for Work on Roadways Figure Number: _____

2. D Project Category Determination (per 2020 Traffic Manual for Work or Roadways).

Initial Project Category Assessment

Project Risk Analysis

□ Category 1 □ Category 2 □ Category 3

3. D Prime Contractor Designation Letter

4. City of Coquitlam Certificate of Insurance

5. D Notification Letter and Map (required for all full road closures). A Notification Letter must be provided to all affected residents and businesses.

□ Yes □ No □ Not Applicable

6. Traffic Control Persons (flag persons) required? All operations within the road right-of-way must comply with WorkSafe BC regulations and BC Ministry of Transportation standards for work on roadways.

□ Yes □ No If yes, how many?

- 7. D Bus routes/stops impacted? Applicant is to contact Coast Mountain Bus Company (with a minimum of 3 days' notice) <u>Temporary Transit Changes Request Form</u>. General information can be found by visiting <u>Temporary Transit Changes</u>.
- 8. City of Coquitlam Solid Waste has been contacted? Coquitlam Environmental Services contacted regarding impact to garbage/recycling routes and pick up Phone: <u>604-927-4300</u> Email: <u>wastereduction@coquitlam.ca</u>

□Yes □No

Are operations impacted?
 Yes
 No

If Yes:

- a plan to ensure continuous collection has been provided: □ Yes □ No
- Day(s) of the week impacted:
- Time(s) of the day impacted: □ a.m. □ p.m.
- Pedestrian / Bike Lanes impacted? Please describe sidewalks and/or bicycle facilities that will be impacted by the proposed work.

10. Is the work on, or will it impact a road along our Major Road Network?

□Yes □No

Additional information

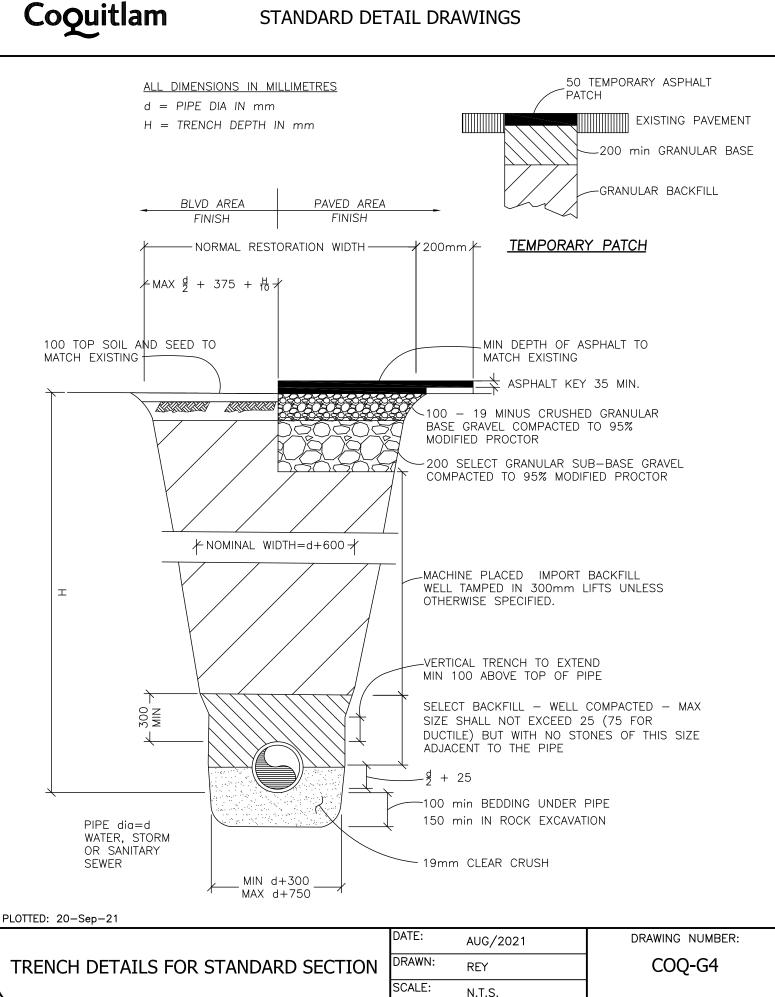
- Only vehicles actively engaged in the performance of cleaning, clearing, maintenance, repair, construction or
 other work are permitted within work zones. Vehicles being used by Superintendents, Traffic Control Persons,
 and other construction personnel that are not actively engaged in work described above are not permitted
 within the work zone and are not permitted parking /stopping prohibitions.
- Closures of sidewalks, cycling facilities, lanes, and full road closures are only permitted during the time periods indicated on the approved permit. Traffic controls are not permitted outside of these approved permit hours.

These supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents (Platinum), Volume II, 2009.

File #: 11-5330-20/92344/1 Doc #: 5500588.v1

Appendix B -Additional Information





AI 1

STANDARD DETAIL DRAWINGS

