

City of Coquitlam

Contract Documents 21-042

Coquitlam Crunch Parking Lot

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Contract No. 21-042

Coquitlam Crunch Parking Lot

Project Construction Documents

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2. Standard Documents - not supplied

- i) Available in the MMCD General Conditions, Specifications and Standard Detail Drawings.
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Invitation to Tenderers



INVITATION TO TENDER

DATE OF ISSUE: May 12, 2021

Tender No. 21-042

Coquitlam Crunch Parking Lot

The City of Coquitlam invites tenders for **Contract 21-042 – Coquitlam Crunch Parking Lot** generally consisting of the preparation of an existing aggregate gravel parking lot and access roadway for asphalt concrete paving as herein specified and as shown on the drawings. The Scope of Work consists of the following, but is not limited to:

- All site preparation, including site signage and secured construction safety/security fencing around the site perimeter as required.
- Installation, continuous monitoring and maintenance of all erosion and sediment control measures.
- All Traffic Control and Management, including vehicular and pedestrian.
- All temporary circulation control and signage to ensure public can move safely and freely around/through the work zone.
- All in-ground utilities including drainage infrastructure, and bollards.
- Coordinate with the City's Signage Sub-Contractor, their installation of electrical wiring (on the prepared road base) for an electronic parking sign advising patrons of parking stall availability, prior to the supply and installation of any asphalt paving.
- Re- grading and expansion of the existing aggregate gravel access roadway and parking lot and all remediation work where the proposed access roadway meets the existing City street.
- Asphalt concrete paving, including sub-base and base preparation, concrete curb, gutter and any remediation work where the proposed access road meets the existing City street.
- Pedestrian paths for enhanced connections to existing pathways.
- All pavement markings and street signage.
- All general landscape work including excavation, site preparation, tree protection, site grading, placement of growing medium, hydro seeding and permanent timber fencing.
- Complete site clean-up and remediation of all disturbed areas and existing structures.

NOTE

The Tenderer shall note that the work will being conducted within a BC Hydro Right-of-Way, and they will need to meet BC Hydro's terms and conditional requirements for safety, long term security and operation of the existing electrical system, as well as WorkSafe BC's Occupational Health and Safety Regulations (OHSR) form 30M33.

Tender Documents and Drawings are available for downloading from the City of Coquitlam website: <u>http://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 Wednesday, June 02 2021 ("Closing Date and Time")

Instructions for Tender Submission

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

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

Inquires

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

Email: bid@coquitlam.ca

<u>Addenda</u>

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

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

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

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

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

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

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

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

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

M. Pain Purchasing Manager

Instructions to Tenderers

TENDER 21-042 Coquitlam Crunch Parking Lot

INSTRUCTIONS TO TENDERERS

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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)

	Contract:	Coquitla	m Crun	nch Parking Lot
	Reference No.	21-042		
1.0	Introdu	ction	1.1	These Instructions apply to and govern the preparation of tenders for this <i>Contract</i> . The <i>Contract</i> is generally for the following work:
				Preparation of an existing aggregate gravel parking lot and access roadway for asphalt concrete paving, and other miscellaneous and incidental works as further described in the Contract Documents.
			1.2	All inquiries regarding this Tender are to be submitted in writing referencing the Tender Name and Number sent to:
				E-mail <u>bid@coquitlam.ca</u>
				All inquiries will be received a minimum of 3 full business days prior to Tender Closing Time.
				Inquiries received after that time may not receive a response.
2.0	Doc	Tender uments	2.1	The Tender Documents which a Tenderer should review to prepare a Tender consist of all of the <i>Contract Documents</i> listed in Schedule 1 entitled "Schedule of Contract Documents". Schedule 1 is attached to the Agreement which is included as part of the Tender Package. The <i>Contract Documents</i> include the drawings listed in Schedule 2 to the Agreement, entitled " List of <i>Contract Drawings</i> ".
			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 <i>Tender Closing</i> <i>Date</i> . All sections of this publication are by reference included in the <i>Contract Documents</i> .
			2.3	Any additional information made available to Tenderers prior to the Tender Closing Time by the Owner or representative of the Owner, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is

	CITY OF COQUITLAM Contract No. 21-042		
			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:
			<i>Tender Closing Time</i> : 2:00 p.m. local time <i>Tender Closing Date</i> : Wednesday, June 02 2021
			For the purpose of the Tender submission, digital copies of original documents and signatures sent electronically are accepted. Original documents are required upon request by the City.
	Instructions for Tender Submission	3. 2	Tender submissions are to be consolidated into one (1) PDF file and uploaded electronically through QFile, the City's file transfer service accessed at website: <u>http://qfile.coquitlam.ca/bid</u>
			 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 or Fax 604-927-3035.
		3.3	Tenders submitted shall be deemed to be received when displayed as a new email in the in-box of the above email address. The City will not be responsible for any delay or for any Tenders not received for any reason, including technological delays or issues by either party's network or email program, and the City will not be liable for any damages associated with Tenders not received.
		3.4	The City reserves the right to accept late Tenders to allow for technological delays. The City also reserves the right to accept Tenders received by fax (604- 927-3035) or email: <u>bid@coquitlam.ca</u>
			Please Note: Due to Covid-19 prevention measures, in-person tender submissions will not be accepted. It is also reasonable to consider that City staff may be given a work from home mandate. Under this scenario, Fax submissions may not be received. Be

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			advised that filing electronically through Qfile will be the most reliable method during these uncertain times.
		3.5	Tenders will not be opened in public. The unevaluated results will be forwarded to participants by email.
		3.6	Tender submissions are subject to the Freedom of Information and Protection of Privacy Act and contents may be disclosed if required to do so, pursuant to the Act.
4.0	Additional Instructions to Tenderers		Additional Instructions to Tenderers
	Obtaining Documents	4.1	 The following documents which are referred to and form part of the Contract Document package may be obtained as follows: Copies of the Master Municipal Construction Documents Volume II (2009), General Conditions, Specifications and Standard Detail Drawings are available separately from:
			Support Services Unlimited Suite 102 211 Columbia Street Vancouver BC V6A 2R5 Tel: 604-681-0295 Fax: 604-305-0424
			• City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2009 Edition.
			City of Coquitlam Engineering & Public Works Department 3000 Guildford Way Coquitlam, BC V3B 7N2 Tel: 604-927-3500 Fax: 604-927-3525
			Copies of the City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2009 Edition are available for viewing and downloading off the City of Coquitlam website: <u>Supplementary Specifications and Detailed Drawings to MMCD</u>
	Test Excavations	4.2	Prior to the excavation of test holes on road allowances or privately owned property the Tenderer shall obtain permission from the Municipality or Owner of the property and comply with their requirements for restoration of disturbed surfaces and utilities. Failure to comply with Municipal by-laws restricting this practice may result in prosecution of the offending party.
	Business License	4.3	The successful Tenderer shall provide evidence of a City of Coquitlam Business

		License or Tri-Cities Inter-Municipal Business License prior to commencement of work or supply of materials. For more information, contact Business License Division Ph: 604-927-3085 or apply online at website: <u>City of Coquitlam Business License</u>
No Claim	4.4	Except as expressly and specifically permitted in these Instructions to Tenderers, no Tenderer shall have any claim for any compensation of any kind whatsoever, as a result of participating in this Tender, including accepting a non-compliant bid and by submitting a Tender, each Tenderer shall be deemed to have agreed that it has no claim.
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	4.6	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	4.7	The City, prior to award of any Tender, may negotiate with the Tenderer presenting the lowest price compliant Tender, for changes in the Work, materials, specifications or conditions without having any duty or obligation to advise any other Tenderers or to allow them to modify their Tenders, and the City will have no liability to any Tenderer as a result of such negotiations or modifications.
Cancellation of Tender	4.8	The City reserves the right to cancel any request for Tender at any time without recourse by the Tenderer. The City has the right to not award this work for any reason including choosing to complete the work with the City's own forces.
Conflict of Interest	4.9	Tenderers shall disclose any actual or potential conflicts of interest and existing business relationships it may have with the City, their elected or appointed officials or employees.
Collusion	4.10	Tenderers will not discuss or communicate with one another in regards to the preparation of their Tenders. Each Tenderer will ensure that its participation in the Tender process and that of its team members is conducted without collusion or fraud. Failure to comply with this requirement may lead to disqualification without further notice or warning.

	CITY OF COQUITLAM Contract No. 21-042			
	Instruction to Tenderers – Part II		of the Publicati	ons to Tenderers – Part II Contained in the Edition on "Master Municipal Construction Documents ace with the following:
5.0	Tender Requirements	5.1		be on the Form of Tender as provided and be uthorized signatory(s) as follows:
			5.1.1	if the tenderer is a partnership or joint venture then the name of the partnership or joint venture should be included, and each partner or joint venture should sign personally; if a partner of joint venture is a corporation then such corporation should sign as indicated in paragraph 5.1.3 below; and
			5.1.2	if the tenderer is a corporation then the full name of the corporation should be included, together with the names and signatures of authorized signatories.
			5.1.3	For the purpose of the Tender submission, digital copies of original documents and electronic signatures are accepted. Original documents are required upon request by the City.
		5.2	A tender must I the form of:	be accompanied by tender security ("Bid Security") 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 o	d be competent and capable of performing the f work. Tenderer shall complete the following ts 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</i> <i>Schedule</i> ", generally in the form attached as Appendix 2 to the Form of Tender, and showing <i>Substantial 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> ;

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			5.3.4	Appendix 4 – a list of previous comparable work, including a brief description of that work, approximate contract value, and references (with phone numbers);
			5.3.5	Appendix 5 – a complete list of all subcontractors, if any, that the tenderer will use for the <i>Work</i> including full names.; and
			5.3.6	Appendix 7 – is provided for information only, to indicate the Contract Insurance is to be submitted by the successful Tenderer upon Notice of Award.
		5.4	written <i>Notice</i> items listed in F and Material Pa	tenderer will, within 15 <i>Days</i> of receipt of the <i>of Award</i> , be required to deliver to the <i>Owner</i> the FT5.1.1, including a Performance Bond and a Labour ayment Bond as described in FT5.1.1(a), failing isions of FT6.1 will apply.
6.0	Qualifications, Modifications, Alternative Tenders	6.1		contain qualifications, or omissions, so as to make nich other tenders difficult, may be rejected by the
		6.2	tender (" <i>Altern</i> designs or equi may be, <u>but an</u>	at the tenderer's election, submit an alternative ative Tender") which varies the materials, products, pment by the Owner as Approved Equals as the case <u>Alternative Tender must be in addition to, and not in</u> r a tender which conforms to the requirements of <u>ocuments.</u>
		6.3	Alternative Ten tender, submit Instructions to Owners in the p	<i>ative Tender</i> that the <i>Owner</i> may acc <i>ept</i> is an <i>der</i> submitted by that tenderer whose conforming ted as required by paragraph 6.2 of these Tenderers, would have been accepted by the preference to other conforming tenders, if no <i>ders</i> had been invited.
7.0	Approved Equals	7.1	the <i>Owner</i> to a (" <i>Approved Equ</i>	<i>Ider Closing Time and Date,</i> a tenderer may request pprove materials, products, or equipment <i>al</i> ") to be included in a tender in substitution for I in the Contract Documents.
		7.2	supported by a	r an <i>Approved Equal</i> must be in writing, and ppropriate supporting information, data, and documentation.
		7.3		ecides in its discretion to accept an <i>Approved Equal,</i> r will issue an addendum to all tenderers.
		7.4	The <i>Owner</i> is no an <i>Approved Eq</i>	ot obligated to review or accept an application for <i>ual</i> .

8.0	Inspection of the <i>Place of the</i> Work	8.1	All tenderers, either personally or through a representative, are responsible to examine the <i>Place of the Work</i> before submitting a tender. A tenderer has full responsibility to be familiar with and make allowance in the tender for all conditions at the <i>Place of the</i> <i>Work</i> that might affect the tender, including any information regarding subsurface soil conditions made available by the <i>Owner</i> , the location of the <i>Work</i> , local conditions, topographical soil conditions, weather and access. Unless otherwise specified in the <i>Contract Documents</i> , a tenderer is not required to do subsurface investigations. By submitting a tender, a tenderer represents that the tenderer has examined the <i>Place of the Work</i> , or specifically elected not to. No additional payments or time extensions shall be claimable or due because of difficulties relating to conditions at the <i>Place of the Work</i> which were reasonably foreseeable by a contractor qualified to undertake the <i>Work</i> .
		8.2	Tenderers are referred to GC 11.2.1 regarding Concealed or Unknown Conditions.
9.0	Interpretation of <i>Contract</i> <i>Documents</i>	9.1	If a tenderer is in doubt as to the correct meaning of any provision of the <i>Contract Documents</i> , 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 <i>Contract Documents</i> or its provisions, or any discrepancies between a provision of the <i>Contract Documents</i> and conditions at the <u>Place</u> <u>of 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 <i>Owner</i> considers it necessary, the <i>Owner</i> may issue written addenda to provide clarification (s) of the <i>Contract Documents</i> .
		9.4	No oral interpretation or representations from the <i>Owner</i> or any representative of the <i>Owner</i> will affect, alter, or amend any provision of the <i>Contract Documents</i> .
10.0	Prices	10.1	The Tendered Price will represent the entire cost excluding <i>GST</i> to the <i>Owner</i> of the complete <i>Work</i> based on the estimated quantities in the <i>Schedule of Quantities and Prices</i> 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 <i>Work</i> , including all items which, whole not specifically listed in the <i>Schedule of Quantities and Prices</i> , are included in the <i>Work</i> specifically or by necessary inference from the

Contract Documents;

				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;
				all overhead costs, including head office and on-site overhead costs, and all amounts for the <i>Contractor's</i> profit.
		10.2	compliance wi qualifications	prices and all subcontracts must allow for th all applicable laws regarding trade or other of employees performing the <i>Work</i> , and payment of ages for labour included in or required for the <i>Work</i> .
11.0	Taxes	11.1	kind payable w	prices shall cover all taxes and assessments of any vith respect to the <i>Work</i> , but shall not include <i>GST</i> . ted as a separate line item as required by GC 19.3.
12.0	Amendment of Tenders	12.1	delivered by Er of the Instruct <i>Closing Date al</i> received after	y amend or revoke a tender by giving written notice, nail or fax, to the office referred to in paragraph 3.4 ions to Tenderers at any time up until the <i>Tender</i> <i>nd Time</i> . An amendment or revocation that is the <i>Tender Closing Date and Time</i> shall not be d shall not affect a tender as submitted.
		12.2	signatory of th	t or revocation must be signed by an authorized e tenderer in the same manner as provided by of these Instructions to Tenderers.
		12.3	tenderer's <i>Ten</i> such that, in th	nt that expressly or by inference discloses the <i>der Price</i> or other material element of the tender ne opinion of the <i>Owner</i> , the confidentiality of the ched, will invalidate the entire tender.
		12.4	•	form of a tender amendment which tenderers may, juired to, use is as follows:
			"Contract:	
			Reference No.	(TITLE OF CONTRACT)
			TO:	(OWNER'S CONTRACT REFERENCE NO.)
				igned wish to amend our tender which we the above <i>Contract</i> by deleting the following

(TEDNERED PRICES AND/OR TENDER ITEMS IN THE TENDER THAT ARE TO BE AMENDED)

tendered prices or items from our tender:

and substituting the following revised tendered prices or items:

(REVISED TENDERED PRICES OR TENDER ITEMS)

			The extensions in our tender should be adjusted accordingly, and our <i>Tender Price</i> as set out in Appendix 1 of our submitted Form of Tender , and on the <i>Schedule of Quantities and Prices</i> , increased / decreased by \$, excluding GST. We have not included our revised <i>Tender Price</i> in order to preserve the confidentiality of our tender.
			Signed and delivered the day of, 20"
		12.5	If a tender amendment or revocation is sent by fax, the tenderer assumes the entire risk that equipment and staff at the office referred to in paragraph 3.4 of the Instructions to Tenderers will properly receive the fax containing the amendment or revocation before the <i>Tender Closing Date and Time</i> . The <i>Owner</i> assumes no risk or responsibility whatsoever that any fax will be received as required by paragraph 12.1 of these Instructions to Tenderers, and shall not be liable to any tenderer if for any reason a fax is not properly received.
13.0	Duration of Tenders	13.1	After the <i>Tender Closing Time</i> , a tender shall remain valid and revocable as set out in paragraph 5.1 of the Form of Tender.
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 IT5.3 including the proven experience of the tenderer, and any listed subcontractors, to do the <i>Work</i> .
			Tenders received will be evaluated to provide the City with greatest value based on quality, service, price and experience. Evaluation Criteria will include but is not limited to:
			 Ability to meet specifications and required completion date
			2. 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

- 5. Any other criteria, the City deems, at its sole discretion, necessary to evaluate Tenders
- 6. Lowest price will not necessarily be accepted.

The City may, in its absolute discretion, not award to a Tenderer if the Tenderer, or any officer or director of a corporate Tenderer, is or has been engaged, either directly or indirectly through another corporation or legal entity, in a legal action against the City and its elected and appointed officers and employees or any of them in relation to:

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

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

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

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

Where only one Tender is received the City may reject such and 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 he 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;
 - (ii) if the test extended total for the tender item exceeds 1% of the revised total *Tender Price*, including the test extended total, or if the revised total *Tender Price*, including the test extended total, alters the ranking of the tenderers according to the lowest *Tender Price*, then the omitted unit price for that tender item is deemed to materially affect the *Tender Price* relative to other tenders and the tender shall be rejected;
 - (iii) if the tender is not rejected under subparagraph (ii) of this IT 15.3 (c), then the unit price and the extended total for that tender item shall both be deemed to be, and the costs for that tender item shall be zero deemed to be included in other tender items prices;
- d) In no event shall page totals in the *Schedule of Quantities and Prices* or the total *Tender Price* be used to calculate missing extended totals or unit prices.
- 15.4 Upon receiving notification of being the successful Tenderer, the Tenderer shall submit a Pandemic Prevention Policy and Procedures (4P) document detailing occupational health and safety policies to prevent the spread of Covid-19 to the public, the Tenderer's employees, and sub-contractors during construction operations. The Owner reserves the right to require additions or changes to the 4P document prior to the execution of the Contract. After the Contract is in place, the Contractor will be expected to enforce the 4P document to the satisfaction of the Contract Administrator. If the Contract Administrator deems the 4P document is not being satisfactorily followed, the Contract

	CITY OF COQUITLAM Contract No. 21-042			
			Administrator may stop work at the sole expense of the Contractor until the Contractor's employees and sub-contractors have been provided proper training and orientation in regard to the 4P document.	
16.0	Subcontractors	16.1	The <i>Owner</i> reserves the right to object to any of the subcontractors listed in a tender. If the <i>Owner</i> objects to any of the subcontractor(s) then the <i>Owner</i> will permit a tenderer to, within 5 days, propose a substitute subcontractor(s) acceptable to the <i>Owner</i> provided that there is not resulting adjustment in the <i>Tender Price</i> or the completion date set out in paragraph 2.2 of the Form of Tender. A tenderer will not be required to make such substitution and, if the <i>Owner</i> objects to a listed <i>Subcontractor(s)</i> , the tenderer may, rather than propose a substitute subcontractor(s), consider its tender rejected by the <i>Owner</i> and by written notice withdraw it tender. The <i>Owner</i> shall, in the event, return the tenderer's bid security	
17.0	Optional Work	17.1	If the Schedule of Quantities and Prices includes any tender prices for Optional Work, as defined in GC 7.4.1, the tenderers must complete all the unit prices for such Optional Work. Such tender prices shall not include any general overhead costs, or other costs, or profit, not directly related to the Optional Work. Tenderers are directed to GC 9.4.2.	
		17.2	Notwithstanding that the <i>Owner</i> may elect not to proceed with the <i>Optional Work</i> , the tender prices for any <i>Optional Work</i> , including the extended totals for <i>Optional Work</i> unit prices, shall be included in the <i>Tender Price</i> for the purpose of any price comparisons between tenders.	

Form of Tender

File #: 03-1220-20/21-042/1 Doc #: 4070156.v2

Coouitlam

FORM OF TENDER Tender No. 21-042 Coquitlam Crunch Parking Lot

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) Wednesday, June 02 2021

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: bid@coquitlam.ca)

Tenderers are responsible to allow ample time to complete the Tender submission process. If assistance is required, phone 604-927-3037 or fax 604-927-3035.

May 2021

THE CITY OF COQUITLAM 3000 Guildford Way Coquitlam BC V3B 7N2

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

Contract Name: Coquitlam Crunch Parking Lot

Contract No. 21-042

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 **August 06, 2021**; 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 <u>60</u> 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 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 21.2.1.
 - 5.1.2 within **2** *Days* of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and
 - 5.1.3 sign the Contract Documents as required by GC 2.1.

6 WE AGREE:

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

then such failure or refusal will be deemed to be a refusal by us to enter into the Contract

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

- 6.1.3 the face value of the *Bid Security*; and
- 6.1.4 the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

7	OUR ADDRESS is as follows:
---	-----------------------------------

Phone:		
Fax:	-	
Email:		
Attention:	-	
This Tender is executed 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 21-042				
		Coquitlam Crunch Parking Lo	ot			
		SCHEDULE OF QUANTITIES AND P (see paragraph 5.3.1 of the Instruction to T		·s)		
		ender and Contract Prices shall NOT include GST. GST	will app	oly upoi		
	(Should there	be any discrepancy in the information provided, the C	ity's ori	ginal fil	e copy shall p	orevail)
ITEM NO.	MMCD Ref. / (Supp. Specs)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
1.00	DIV 01	GENERAL REQUIREMENTS				
	01 33 015	PROJECT RECORD DOCUMENTS				
1.01	(1.8.1)	Project Record Documentation	l.s.	1		
	01 45 00S	QUALITY CONTROL				
1.02	1.9	Quality Control Testing		Inci	dental to Contr	act
	01 55 005	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING				
1.03	(1.5.1)	Traffic Control and Management	l.s.	1		
	01 57 01S	ENVIRONMENTAL PROTECTION				
1.04	(1.6.1)	ESC Supply & Installation, Monitoring, Maintenance and Removal	l.s.	1		
	01 58 015	PROJECT IDENTIFICATION				
1.05	(1.3.1)	Construction Zone Information Signs	ea.	3		
2.00	DIV 02	EXISTING CONDITIONS				
	02 43 13	DEMOLITION AND STRUCTURE MOVING				
2.01	1.3.1	All miscellaneous removals as indicated on the Contract Drawings	l.s.	1		
3.00	DIV 03	CONCRETE				
	03 30 205	CONCRETE WALKS, CURBS AND GUTTERS				
3.01	(1.4.3)	Concrete Curb & Gutter - Wide Base – MMCD C5	l.m.	220		
3.02	(1.4.3)	Keyed-in Extruded Concrete Curb	l.m.	210		
4.00	DIV 12	FURNISHINGS				
	12 93 00	SITE FURNISHINGS				
4.01	1.4	Supply & Install Removable Bollards Model R-7901(powder coated black) c/w granular base, receiver & lid.	ea.	3		
5.00	DIV 31	EARTHWORKS				
	31 11 015	CLEARING AND GRUBBING				
5.01	(1.4.1)	Tree Removals, Clearing, Brushing and Grubbing	l.s.	1		
	31 24 135	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION				
5.02	(1.8.5)	Common Excavation - Off-site Disposal, includes Stripping & Topsoil Removal	cu.m.	1,290		
5.03	(1.8.5)	Common Excavation - On-site Re-use, includes stockpiling & Compaction	cu.m.	400		
5.04	(1.8.10)	Over Excavation - c/w imported 19mm Minus gravel (Provisional)	cu.m.	40		
5.05	(1.8.4)	Removal and Off Site Disposal of Existing Asphalt (all Depths)	sq.m.	150		

31 37 10	RIPRAP			
1.4	150mm Riprap	tonne	40	
DIV 32	ROAD AND SITE IMPROVEMENTS			
32 11 16.15	GRANULAR SUBBASE			
(1.4.3)	75mm Minus Granular Sub Base	tonne	2,620	
32 11 235	GRANULAR BASE			
(1.4.3)	19mm Minus Crushed Granular Base	tonne	770	
(1.4.3)	9mm Minus Crushed Granular Base	tonne	60	
32 12 165	HOT-MIX ASPHALT CONCRETE PAVING			
(1.5.1)	Asphaltic Concrete Paving - Upper Course #1 (75mm, 1 lift)	tonne	530	
(1.5.3)	Asphaltic Concrete Paving - Sidewalks - Upper Course #2 (50mm, 1 lift), c/w Granular Base	tonne	90	
32 17 235	PAINTED PAVEMENT MARKINGS			
(1.5.3)	Supply & Install Painted Pavement Markings	l.s.	1	
(1.5.4)	Remove and Reinstate existing Signage	l.s.	1	
(1.5.4)	Suppy and Install new Signage	l.s.	1	
32 31 13	CHAIN LINK FENCES AND GATES			
1.5.3	Timber Fencing	l.m.	520	
32 91 215	TOP SOIL AND FINISH GRADING			
(1.4.1)	Growing Medium	cu.m.	140	
32 92 19	HYDRAULIC SEEEDING			
1.8	Hydraulic Seeding, including establishment to Total Performance	sq.m.	2,380	
DIV 33	UTILITIES			
33 40 015	STORM SEWERS			
(1.6.5)	150mm PVC Catch Basin Leads	l.m.	23	
(1.6.5)	200mm PVC Catch Basin/Lawn Drain Leads	l.m.	26	
(1.6.2)	300mm PVC Culvert	l.m	42	
33 44 015	MANHOLES AND CATCHBASINS			
(1.5.2)	Top Inlet Catch Basin MMCD S11(excluding leads)	ea.	2	
(1.5.2)	Side Inlet Catch Basin - COQ-S11A(excluding leads)	ea.	1	
(1.5.2)	600mm Lawn Basin - MMCD S12, Type 2(excluding leads)	ea.	1	
(1.5.3)	1050 mm Concrete Storm Manhole (c/w base, frame, slab, cover. risers and adjustments)	ea.	1	
	,	l	I	
	Total Tendered Price (ex	xclude GS	5T): \$	
				rm of Tender Summary Page :
	1.4 DIV 32 32 11 16.15 (1.4.3) 32 11 235 (1.4.3) (1.4.3) 32 12 165 (1.5.1) (1.5.3) (1.5.3) (1.5.4) (1.5.4) (1.5.4) (1.5.4) (1.5.4) 32 31 13 1.5.3 32 91 215 (1.4.1) 32 92 19 1.8 DIV 33 33 40 015 (1.6.5) (1.6.5) (1.6.5) (1.6.2) 33 44 015 (1.5.2) (1.5.2) (1.5.2) (1.5.2)	1.4 150mm Riprap DV 32 ROAD AND SITE IMPROVEMENTS 32 11 16.15 GRANULAR SUBBASE (1.4.3) 75mm Minus Granular Sub Base 32 11 235 GRANULAR BASE (1.4.3) 19mm Minus Crushed Granular Base (1.4.3) 9mm Minus Crushed Granular Base 32 12 165 HOT-MIX ASPHALT CONCRETE PAVING (1.5.1) Asphaltic Concrete Paving - Upper Course #1 (75mm, 1 lift) (1.5.3) Asphaltic Concrete Paving - Sidewalks - Upper Course #2 (50mm, 1 lift), c/w Granular Base 32 17 235 PAINTED PAVEMENT MARKINGS (1.5.3) Supply & Install Painted Pavement Markings (1.5.4) Remove and Reinstate existing Signage (1.5.4) Suppy and Install new Signage (1.5.4) Suppy and Install new Signage (1.5.4) Suppy and Install new Signage (1.5.4) Growing Medium 32 91 215 TOP SOIL AND FINISH GRADING (1.4.1) Growing Medium 32 92 19 HYDRAULC SEEDING 1.8 Hydraulic Seeding, including establishment to Total Performance DIV 33 UTILITIES 33 40 015 STORM SEWERS	1.4 150mm Riprap tonne DV 32 ROAD AND SITE IMPROVEMENTS 32 11 16.15 GRANULAR SUBBASE (1.4.3) 75mm Minus Granular Sub Base tonne 32 11 235 GRANULAR BASE tonne (1.4.3) 9mm Minus Crushed Granular Base tonne (1.4.3) Asphaltic Concrete Paving - Sidewalks - Upper Course #1 (75mm, 1 lift) (1.5.1) Asphaltic Concrete Paving - Sidewalks - Upper Course #2 tonne (1.5.3) Supply & Install Painted Pavement Markings 1.s. (1.5.4) Remove and Reinstate existing Signage 1.s. (1.5.4) Suppy and Install new Signage 1.s. 1.5.3 Timber Fencing I.m. 3.2 32 13 CHAIN LINK FENCES AND GATES 1.s. 1.4.1) Growing Medium cu.m. 3.2 91 PHYDRAULC SEEDING 1.m. 1.4.5. 1.8	1.4 150mm Riprap tonne 40 DIV 32 ROAD AND SITE IMPROVEMENTS

APPENDIX 2 FORM OF TENDER

Contract 21-042 Coquitlam Crunch Parking Lot

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

INDICATE SCHEDULE WITH BAR CHART WITH CONSTRUCTION DURATIONS

		June				July			August			Sept					
CONSTRUCTION ACTIVITY		1	2	3	4	1	2	3	4	1	2						

Completion Date: Must be completed before: August 06, 2021

Proposed Disposal Site:

APPENDIX 3 FORM OF TENDER

Contract 21-042 Coquitlam Crunch Parking Lot

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 N0:	

PROJECT:	Dates:	
Work Description:		
Responsibility:		
Owner/Reference:	Phone NO:	

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

APPENDIX 4 FORM OF TENDER

Contract 21-042 Coquitlam Crunch Parking Lot

CONTRACTOR'S COMPARABLE WORK EXPERIENCE

(See paragraph 5.3.4 of the Instructions to Tenderers)

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

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

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

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

APPENDIX 5 FORM OF TENDER

Contract 21-042 Coquitlam Crunch Parking Lot

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:	

APPENDIX 6 FORM OF TENDER

Contract 21-042 Coquitlam Crunch Parking Lot

BID BOND

NO. _____

\$_____

KNOW ALL MEN BY THESE PRESENTS THAT

As Principal, hereinafter called the Principal, and

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

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

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

WHEREAS, the Principal has submitted a written Tender to the Obligee, dated the _____day of _____, 2021 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 _____ , 2021.

SIGNED, SEALED AND DELIVERED In the presence of:

PRINCIPAL

SURETY

APPENDIX 7 FORM OF TENDER

Contract 21-042 Coquitlam Crunch Parking Lot

CERTIFICATE OF COMPLIANCE for CONTRACT INSURANCE

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

Contract Number: 21-042

Contract Name: Coquitlam Crunch Parking Lot

Description of Work:

Contract 21-042 – Coquitlam Crunch Parking Lot generally consisting of the preparation of an existing aggregate gravel parking lot and access roadway for asphalt concrete paving as herein specified and as shown on the drawings. The Scope of Work consists of the following, but is not limited to:

- All site preparation, including site signage and secured construction safety/security fencing around the site perimeter as required.
- Installation, continuous monitoring and maintenance of all erosion and sediment control measures.
- All Traffic Control and Management, including vehicular and pedestrian.
- All temporary circulation control and signage to ensure public can move safely and freely around/through the work zone.
- All in-ground utilities including drainage infrastructure, and bollards.
- Coordinate with the City's Signage Sub-Contractor, their installation of electrical wiring (on the prepared road base) for an electronic parking sign advising patrons of parking stall availability, prior to the supply and installation of any asphalt paving.
- Re- grading and expansion of the existing aggregate gravel access roadway and parking lot and all remediation work where the proposed access roadway meets the existing City street.
- Asphalt concrete paving, including sub-base and base preparation, concrete curb, gutter and any remediation work where the proposed access road meets the existing City street.
- Pedestrian paths for enhanced connections to existing pathways.
- All pavement markings and street signage.
- All general landscape work including excavation, site preparation, tree protection, site grading, placement of growing medium, hydro seeding and permanent timber fencing.
- Complete site clean-up and remediation of all disturbed areas and existing structures.

and other miscellaneous and incidental works as further described in the Contract Documents.

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

Special Coverage Required:	YES	NO	Special Coverage Description

- () (x) Shoring and Underpinning Hazard
- () (x) Pile Driving and Vibrations
- (x) () Excavation Hazard
- () (x) Demolition
- () (x) Blasting

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

Name of Tenderer (printed)

Authorized Signature

Date



AGREEMENT

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 _____ 2021.

Contract: Coquitlam Crunch Parking Lot

Reference No. 21-042

BETWEEN:

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

(the "Owner")

AND:

(the "Contractor")

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

1 THE WORK - START/COMPLETION DATES

- 1.1 The *Contractor* will perform all *Work* and provide all labour, equipment and material and do all things strictly as required by the *Contract Documents*.
- 1.2 The Contractor will commence the Work in accordance with the Notice to Proceed. The Contractor will proceed with the Work diligently, will perform the Work generally in accordance with the construction schedules as required by the Contract Documents and will achieve Substantial Performance of the Work on or before **August 06, 2021,** subject to the provisions of the Contract Documents for adjustments to the Contract Time.
- 1.3 Time shall be the essence of the Contract.

AGT 2

2 CONTRACT DOCUMENTS

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

3 CONTRACT PRICE

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

4 PAYMENT

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

5 RIGHTS AND REMEDIES

- 5.1 The duties and obligations imposed by the *Contract Documents* and the rights and remedies available hereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.
- 5.2 Except as specifically set out in the *Contract Documents*, no action or failure to act by the *Owner*, *Contract Administrator* or *Contractor* shall constitute a waiver of any of the parties' rights or duties

afforded under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the *Contract*.

6 NOTICES

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

The Owner:

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

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

The Contractor:

Tel: Fax: Email: Attention:

The Contract Administrator:

ISL Engineering #503 4190 Lougheed Hwy Burnaby BC V5C 6A8

Tel: 604-629-2696 Fax: 604-629-2698 Email: cbruggeman@islengineering.com. Attention: Carl Bruggeman

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

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

7 GENERAL

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

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

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

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY AND POSITION - PRINT)

Owner:

The City of Coquitlam

(Director, Strategic and Capital Projects)

Representative as Per G.C. 17

(GM Parks, Recreation, Culture and Facilities)

Coquitlam Crunch Parking Lot

Reference No: 21-042

Schedule 1

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

Coquitlam Crunch Parking Lot

Reference No: 21-042

Schedule 2

LIST OF DRAWINGS AND APPENDICES

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

Bound in this Document: Appendix A: Traffic Management Detail Specifications

NOT Bound in this Document: Full Size Contract Drawings

TITLE	SHEET NUMBER	REVISION DATE	REVISION NUMBER
Coquitlam Crunch Parking Lot - Cover Page - ISL			
Coquitlam Crunch Parking Lot - Notes	01 of 10	2021-05-11	С
Coquitlam Crunch Parking Lot - Access Road Plan and Details	02 of 10	2021-05-11	С
Coquitlam Crunch Parking Lot - Access Road Profile	03 of 10	2021-05-11	С
Coquitlam Crunch Parking Lot - Crunch Parking Lot	04 of 10	2021-05-11	C
Coquitlam Crunch Parking Lot – Parking Lot Trail	05 of 10	2021-05-11	С
Coquitlam Crunch Parking Lot – ESC Plan and Notes	06 of 10	2021-05-11	А
Coquitlam Crunch Parking Lot – ESC Details	07 of 10	2021-05-11	А
Coquitlam Crunch Parking Lot – Gravel Trail Timber Fence	08 of 10	2021-05-11	С
Coquitlam Crunch Parking Lot – East Asphalt Pathway	09 of 10	2021-05-11	С
Coquitlam Crunch Parking Lot – West Asphalt Pathway	10 of 10	2021-05-11	С

Supplementary General 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 #: 03-1220-20/21-042/1 Doc #: 4070166.v1

SUPPLEMENTARY GENERAL CONDITIONS

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4.2	2 Safety	SGC 4
4.3	8 Protection of Work, Property and the Public	SGC 4
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These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009 File #: 03-1220-20/21-042/1 Doc #: 4070166.v1

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Prime Contractor Designation Letter...... SGC 20

Appendix IV

CITY OF COQUITLAM Contract No. 21-042		Supplementary General Conditions SGC-		SGC-3
1.0	DEFINITIONS			
1.1	Abnormal Weather	1.1.1	(Replace clause 1.1.1 as follows): "Abnormal Weather" means temperature, p other weather conditions in which the mon from the statistical average for that condition more than one standard deviation, calcula available from Environment Canada. Coquitla Rain Gauge will be used to compare the rain the available data from Environment Canada	thly average, differs on in that period by ated based on data m's Burke Mountain ifall summary versus
			City of Coquitlam Rainfall	
4.0	CONTRACTOR			
4.1	Control of the Work	4.1.1	(Add to clause 4.1.1 as follows): The Contractor is responsible for all sur construction of the Work to the design sp elevations as shown on the contract drawing site by the Contract Administrator.	pecifications and/or
		4.1.2	(Add to clause 4.1.2 as follows): The Contractor shall not deposit any mater sidewalk, boulevard or other property, wi Administrator's or the Owner's permission, n same to remain longer than necessary. A rubbish and other waste material shall be re so that the area of work is cleaned up and re condition as it was before the Contract start of the Contract Administrator's written requ which the Owner may carry out the work or h out by others and recover the costs from th deduct the cost from any monies due or that the Contractor.	ithout the Contract for shall he allow the all surplus spoil and moved from the site estored to as clean a fed, within four days uest to do so, failing ave the work carried e Contractor or may
		4.1.3	(Add new clause 4.1.3 as follows): Work can be performed during the normathours of 0700h to 1900h, unless spections of 0700h to 1900h, unless spectifications - Appendix A: Detail Specifications. Written permission Administrator will be required for any work outside of the normal working days of Mond	ified otherwise in Traffic Management from the Contract ks to be performed
			No Sunday work will be permitted, except in and then only with the written permission Administrator and to such extent as he deem	on of the Contract
			In case the Contractor decides to work o Statutory Holiday, he shall provide the Contr writing at least (4) days in advance of such h	act Administrator in

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

	COQUITLAM No. 21-042	Supple	mentary General Conditions SGC-
4.2	Safety	4.2.2	(Add new clause 4.2.2 as follows): In an emergency, gas pipeline rupture or leak, Contact FortisBC 24 Hour Emergency Line (1-800-663-9911) and Coquitlam Fin (911) immediately and then City Coquitlam Utility Control Centr (604-927-6287).
43	Protection of Work, Property and the Public	4.3.1	(Replace clause 4.3.1 as follows): In performing the Work the Contractor shall protect the Work and the Owner's property and other person's property from damage The Contractor shall at the Contractor's own expense make good any such damage which arises as the result of the Contractor operations. If the Contractor causes damage to private propert the Contactor must obtain a written release from the owner of the damaged property.
		4.3.5.1	<i>(Add clause 4.3.5.1 as follows):</i> The Contractor shall notify the Contract Administrate immediately if damage occurs to any City or third party utility o structure.
		4.3.7	(Add new clause 4.3.7 as follows): Any lands other than those upon which the work is to be performed, which may be required for temporary facilities storage purposes or access to the work site, other than those provided by the <i>Owner</i> , shall be provided by the <i>Contractor</i> at he own cost, with no liability to the <i>Owner</i> .
4.6 Construction Schedule	4.6.1	(Replace clause 4.6.1 as follows): The Contractor shall within the time set out in the Form of Tender prepare and submit to the Contract Administrator for his approv- a construction schedule (the Baseline Construction Schedule indicating the planned start and completion dates of major activities of the Work. The Baseline Construction Schedule sha be in more detail than the Preliminary Construction Schedule and shall indicate completion of the Work in compliance with an specified Milestone Dates, including Substantial Performance.	
		4.6.6	(Replace clause 4.6.6 as follows): The time for the performance of the Work shall commence on the date specified in the Notice to Proceed, or if not so specified, of the date the Notice to Proceed is issued. The Notice to Proceed will not be issued until the documentation required under paragraph 5.1.1 of the Form of Tender has been submitted and the construction schedule has been approved.
		4.6.8	(Add new clause 4.6.8 as follows): Any requests to lengthen the work schedule shall be made is writing by the Contractor within five working days of knowledg of the reason for the extension. The Contract Administrator w adjust the schedule at his discretion upon receipt of a writte request.
4.7	Superintendent	4.7.4	(Add new clause 4.7.4 as follows): The key personnel named in the Contractor's Tender response shall remain in these key positions throughout the project. In th

	COQUITLAM No. 21-042	Supple	mentary General Conditions SGC-5
contact			event that key personnel leave the Contractor's firm, or for any unknown reason are unable to continue fulfilling their role, the Contractor must propose a suitable replacement, and obtain written consent from the Owner. Acceptance of the proposed replacement is at the sole discretion of the Contract Administrator and the Owner.
4.8	Workers	4.8.2	(Add new clause 4.8.2 as follows): The Contractor shall, upon the request of the Contract Administrator, remove any person employed by him for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted himself improperly, and the Contractor shall not permit a person who has been removed to return to the Place of Work.
4.9	Materials	4.9.3	 (Add new clause 4.9.3 as follows): The Contractor shall, at his cost, a) Be responsible for storing all of the materials supplied for the Work either by himself or the Owner, until it has been incorporated into the completed Work; b) Store all materials in a manner which will prevent damage from the weather, dirt, foreign matter, vandalism and theft; c) Arrange for and/or verify the time of delivery of all materials to be supplied by himself or the Owner to ensure that delivery will coincide with his work schedules. d) Examine with the Contract Administrator the quantities and details of all materials supplied by the Owner at the time and place of delivery or those materials already at the Place of Work, and prepare and sign a Statement of Materials Acceptance, specifically noting and rejecting any defective material; e) Replace all materials supplied by himself or the Owner which are found to be stolen, missing or damaged while under his care; f) Replace all materials found to be defective in manufacture which have been supplied by himself.
4.11	Subcontractors	4.11.3	(Replace clause 4.11.3 as follows): The Contractor shall, upon notice of the Contract Administrator, remove any Subcontractor employed by him for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted himself improperly, and the Contractor shall not permit the Subcontractor who has been removed to return to the Place of Work. The removal of a Subcontractor under this clause shall not be considered a Change and the Contract Price and the Contract Time shall not be adjusted.
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

CITY OF COQUITLAM Contract No. 21-042		Supplementary General Conditions SGC-6	
Contract	NO. 21-042		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): Failure to follow DFO/FLNRO BMPs and the approved permit for Instream Works or as instructed by Contract Administrator will result in shut-down of the work. The Contractor must take all steps to mitigate impacts to aquatic resources, environment and habitats before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut- down.
4.14	Final Clean-up	4.14.1	(Replace clause 4.14.1 as follows): Prior to applying for Substantial Performance, the Contractor shall remove all surplus products, tools, construction machinery and equipment relating to the Work that is not required for the performance of the remaining Work. The Contractor shall also remove waste, debris and waste products other than caused by the Owner or Other Contractors, and leave the Place of Work clean and suitable for occupancy by the Owner unless otherwise specified in the Contract Documents or directed by the Contract Administrator.
4.16	Notice of Disruption	4.16.2	(Add new clause 4.16.2 as follows): Written notice must be provided to all properties which may be physically affected by the construction not less than one week and not more than two weeks prior to construction.
			Notify occupants directly affected by the work 48 hours in advance of commencement of construction. Cost of notifying area occupants of ensuing construction and delivery of the notices is incidental to the Contract.
7.0	CHANGES		
7.1	Changes	7.1.3	(Replace clause 7.1.3 as follows): Additional work that the Owner may wished performed that does not satisfy the requirements of subparagraphs (a) and (b) of GC 7.1.1 is extra work (Extra Work) and is not a Change. Pursuant to GC 8, Extra Work may be declined by the Contractor or may, upon agreement between the parties, be undertaken as Extra Work.
7.4	Optional Work	7.4.2	(Add new clause 7.4.2 as follows): If there are Optional items or Provisional items included in the Schedule of Quantities and Prices, those items shall be used only as directed and at the sole discretion of the Contract Administrator. These items will be paid at the contract unit price as part of regular progress payments. Only quantities used will be eligible for payment. No claim will be accepted for unused Optional or Provisional quantities. Clause 9.4 Quantity Variations will not be applicable for these items.

9.0	VALUATION OF CHANGES AND EXTRA WORK		
9.2	Valuation Method	9.2.4	(Replace clause 9.2.4 as follows): Once a quotation is accepted by the Contract Administrator, or other agreement reached between the Contract Administrator and the Contractor regarding adjustments to the Contract Price or Contract Time on account of a Change or Extra Work, the Contractor shall not be entitled to claim or receive additional payment, or adjustment to the Contract Time on account of a Change or Extra Work.
9.4	Quantity Variation	9.4.1	(Replace clause 9.4.1 as follows): If for any reason, including an addition or deletion under GC 7.1.1(1) or 7.1.1(2) respectively, the actual quantity of a unit price item varies by more than plus or minus the Variance Threshold Percentage from the estimated quantity for that unit price item listed in the Schedule of Quantities and Prices (the "Tender Quantity") or as otherwise agreed to pursuant to these Contract Documents, then either the Owner or the Contractor may by written notice request the other party to agree to a revised unit price, considering the change in quantities. A party shall make a request for a revised unit price as soon as reasonably possible after the party concerned becomes aware of the quantity variation.
		9.4.2	(<i>Replace clause 9.4.2 (2) as follows):</i> If there is an overrun in the estimated quantity GC 9.4.3(2) shall apply to the overrun.
10.0	FORCE ACCOUNTS		
10.1	Force Account Costs	10.1.1(1)	(Add to clause 10.1.1(1) as follows): Costs for the Contractor's Superintendent, Project Managers, Health and Safety Personnel, and Office/Administration Staff are not eligible for labour costs as those costs are considered incidental to the mark up owing for overhead and labour.
		10.1.1(4)	(Replace clause 10.1.1(4) as follows): Force Account Work performed by a subcontractor shall be paid for in the lesser of: (i) the amount provided by subparagraphs (1), (2) and (3) of this GC, plus a mark-up of 5%, or (ii) the actual amount the Contractor pays the subcontractor including a mark- up of 10% on such actual costs to cover all overhead and profit.
12.0	HAZARDOUS MATERIALS		
12.2	Discovery of Hazardous Materials	12.2.2	(Replace clause 12.2.2 as follows): If the Contract Administrator observes any materials at the Place of Work that the Contract Administrator knows or suspects may be Hazardous Materials, then the Contract Administrator shall immediately give written notice to the Contractor and the Contractor shall immediately stop the Work or portion of the Work as required by GC 12.2.1(1).

13.0	DELAYS		
13.1	Delay by Owner or Contract Administrator	13.1.2	 (Add new clause 13.1.2 as follows): The Owner may at any time suspend the work or any portion thereof provided he gives the Contractor five (5) days' written notice of delay. The Contractor shall resume work upon written notice from the Owner. The Contractor shall be entitled to: a) An extension of the Contract time equivalent to the length of suspension of work. b) Reimbursement by the Owner for directly related out-of-pocket additional costs, reasonably and necessarily
			incurred by the Contractor as a result of such suspension. No additional payment will be made to the Contractor for any loss of profits or overhead.
13.8	Direction to Stop or Delay	13.8.3	(Add new clause 13.8.3 as follows): The Contract Administrator may order the Contractor to stop work if at any time the Contract Administrator is of the opinion that there exists a danger to life or property.
13.9	Liquidated Damages for Late Completion	13.9.1	 (Replace clause 13.9.1 as follows): If the Contractor fails to meet the Milestone Date for Substantial Performance as set out in the Form of Tender, paragraph 2.2 as may be adjusted pursuant to the provisions of the Contract Documents, then the Owner may deduct from any monies owing to the Contractor for the Work: (1) An amount of \$1,000.00 for each calendar day the actual Substantial Performance is achieved after the Substantial Performance Milestone Date; plus (2) All direct out of pocket costs, such as costs for safety, security or equipment rental, reasonably incurred by the Owner as a direct result of such delay. If the monies owing to the Contractor are less than the total amount owing by the Contractor to the Owner under (1) and (2) then any shortfall shall immediately, upon written notice from the Owner, and upon Substantial Performance, be due and owing by the Contractor to the Owner.
18.0	PAYMENT		
18.1	Preparation of Payment Certificate	18.1.1	(Replace clause 18.1.1 as follows): The Contract Administrator shall prepare and issue a certificate for the period ending the last calendar day of the month.
18.4	Holdbacks	18.4.2	(Add to clause 18.4.2 as follows): At the sole discretion of the Contract Administrator, an amount equivalent to \$50,000 or 200% of a reasonable estimate, whichever is higher, may be held without interest until all deficiencies have been remedied and accepted by the Contract Administrator.
18.6	Substantial Performance	18.6.5	(Replace clause 18.6.5 as follows): The Owner may release any builders lien holdback on the <u>56th</u> <u>day</u> following the date of Substantial Performance, or other date

as required by law, but the Owner may hold back the amounts for any deficiencies or filed builders liens as provided in GC 18.4.2, 18.4.3 and 18.4.4.

18.6.6 (Replace clause 18.6.6 as follows):

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

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

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

21.0	WORKERS COMPENSATION REGULATIONS		
21.2	Contractor is "Prime Contractor"	21.2.1	(Add to clause 21.2.1 as follows): Prior to the issuance of the "Notice to Proceed" the Contractor must provide a signed "Prime Contractor Designation" form as provided in Appendix IV of these Supplementary General Conditions.
24.0	INSURANCE		(Replace section 24.0 as follows):
24.1	General	24.1.1	Importance of Prompt Attention to Insurance Requirements: The Contractor shall provide the Owner with satisfactory evidence that the insurance required to be provided under this GC is in full force and effect.

24.1.2 Acceptable Insurance Carriers:

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

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

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

24.1.4 **Delivery of Insurance Documents:**

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

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

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

24.2 24.2.1 **Required Insurance**

General

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

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

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

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

24.2.2 Public Liability Insurance:

(Other than Automobile Third Party Liability Insurance):

Evidence of Insurance:

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

Effective Dates and Terms:

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

Limits of Liability:

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

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

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

24.3 Physical Loss or 24.3.1 Damage With Respect to New Buildings under Construction and/or Major Additions to Existing Structures

Responsibility for Placing Insurance:

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

24.3.2 Insurance Coverage Required:

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

24.3.3 Responsibility of Contractor – Limitations of cover and deductibles:

The insurance provided by the City of Coquitlam as described herein will not provide the Contractor with full protection against any and all kinds of loss or damage which may arise out of the Contract. It is, therefore, the responsibility of the Contractor to fully understand the scope of the cover provided with particular attention to the exclusions, limitations of cover and deductible provisions contained in the Insuring Agreements of the policies and it is further the responsibility of the Contractor to take out at the Contractor's expense, whatever other additional insurance the Contractor may consider necessary or desirable for his protection subject as hereinafter provided. The Contractor shall act in the same manner on insurance made available through the City of Coquitlam as he would if he had arranged such insurance himself.

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

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

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

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

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

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

24.3.7 Liability of Contractor:

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

of this Contract with respect to the liability of the Contractor or otherwise.

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

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

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

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

24.3.10 **Further responsibility of Contractor:**

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

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

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

The Owner will not be responsible for securing or paying for insurance of any kind other than as specified in Section 24.3 of

CITY OF COQUITLAM Contract No. 21-042		Supplementary General Conditions SGC-14	
		these specifications nor will the Owner have any responsibility whatsoever for loss or damage from whatever cause occurring to property owned, leased, or otherwise in the possession of the Contractor, subcontractors or their employees including, without restricting the generality of the foregoing, machinery, equipment, tools, supplies, and clothing at the construction site or elsewhere including loss of use of same.	
Additional Insured	24.4.1	The Contractor shall ensure the following are named as "additional insured" on the liability policy for this contract:	
		The City of Coquitlam	
MAINTENANCE PERIOD		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 1 <i>1</i>	(Add new clause 25.1.4 as follows):	
Correction of Defects	23.1.4	The Owner is authorized to make repairs to defects or deficiencies if, ten days after giving written notice, the Contractor has failed to make or undertake with due diligence the required repairs. However, in the case of emergency where, in the opinion of the Owner, delay is not reasonable, repairs may be made without notice being sent to the Contractor. All expenses incurred by the Owner in connection with repairs made pursuant to GC 25 shall be paid by the Contractor or may be deducted from the Maintenance Security, or other holdbacks. The Contractor shall promptly pay any shortfall.	
CONTRACTOR PERFORMANCE EVALUATION	27.1	(Add new clause 27.1 as follows): After the completion of the Contract, the Contractor will be evaluated on their performance of the Work. The evaluation will provide percentage scores on the following categories:	
		 Contract Administration Construction Management Schedule Management Communications Resource Management and Contractor Performance Quality Management An evaluation summary report may be issued to the Contractor with scores for each of these categories. Upon request, the Contractor may attend a meeting with the City to discuss the evaluation. This internal evaluation may be reviewed for reference on subsequent tenders with the City. Evaluation scores can form part of the tender analysis and influence contract award decisions. 	
	NO. 21-042 Additional Insured MAINTENANCE PERIOD Correction of Defects CONTRACTOR PERFORMANCE	No. 21-042 Additional Insured 24.4.1 MAINTENANCE PERIOD 25.1.4 Correction of Defects 25.1.4	

Evaluation Scores in categories that are below 50% may result in a suspension of tendering privileges with the City.

APPENDIX I

PERFORMANCE BOND

NO._____\$____

KNOW ALL MEN BY THESE PRESENTS THAT

As Principal, hereinafter called the Principal, and

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

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

_____Dollars _____

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

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

day of______20____, for

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

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

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

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

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.

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

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

SIGNED, SEALED and DELIVERED In the presence of

PRINCIPAL

SURETY

APPENDIX II

	ERIAL PAYMENT BOND cts – Trustee Form)
NO	\$
	Bond in favour of the Obligee conditioned for the full and nce of the Contract.
KNOW ALL MEN BY	THESE PRESENTS THAT
As Principal, hereinafte	er called the Principal, and
	to the conditions hereinafter contained, held and firmly nd unto
	and benefit of the Claimants, their and each of their heirs, essors and assigns in the amount of
	Dollars ment of which sum well and truly to be made, the Principal dministrators, successors and assigns jointly and severally,
SIGNED AND SEALED thisday of	, 20
WHEREAS, the Principal has entered into a written contr , 20, for	ract with the Obligee dated theday of
which contract is by reference made a part hereof, and i	
NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION Claimants for all labour and material used or reasonably	required for use in the performance of the Contract, then

 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

this obligation shall be null and void; otherwise it shall remain in full force and effect, subject, however, to the

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

following conditions:

purchase price thereof shall only be a Claimant to the extent of the prevailing industrial rental value of such equipment for the period during which the equipment was used in the performance of the Contract. The prevailing industrial rental value of equipment shall be determined, insofar as it is practical to do so, in accordance with and in the manner provided for in the latest revised edition of the publication of the Canadian Construction Association entitled "Rental Rates on Contractors' Equipment" published prior to the period during which the equipment was used in the performance of the Contract.

- 2. The Principal and the Surety hereby jointly and severally agree with the Obligee as Trustee that every Claimant who has not been paid as provided for under the terms of his contract with the Principal before the expiration of a period of ninety (90) days after the date on which the last of such Claimant's work or labour was done or performed or materials were furnished by such Claimant, may as a beneficiary of the trust herein provided for, sue on this Bond, prosecute the suite to final judgment for such sum or sums as may be justly due to such Claimant under the terms of his said contract with the Principal and have execution thereon. Provided that the Obligee is not obliged to do or take any act, action or proceeding against the Surety on behalf of the Claimants or any of them to enforce the provisions of this Bond. If any act, action or proceeding is taken either in the name of the Obligee or by joining the Obligee as a party to such proceedings then such act, action or proceeding shall be taken on the understanding and basis that the Claimants or any of them who take such act, action or proceeding shall indemnify and save harmless the Obligee 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.

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

SIGNED, SEALED and DELIVERED In the presence of

PRINCIPAL

SURETY

APPENDIX III

CERTIFICATE OF INSURANCE

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

A.	This Certificate is issued to:	Named Insured and Mailing Address:		
	City of Coquitlam 3000 Guildford Way Coquitlam, BC V3B 7N2			
В.	CONTRACT NUMBER AND/OR NAME	Description of the Work:		
C.	INSURANCE POLICY			
	Name of Insurer:			
	Policy Number: Effective Date:	Liability Limit: Expiry Date:		
D.	INSURANCE COVERAGE COMMERCIAL GENERAL LIABILITY coverage is required to ir with the above-described project, including liability arising	nsure against liability from the activities arising out of operations or work in connection		
D.1		occurrence against bodily injury, personal injury and property damage.		
D.2		I volunteers are added as Additional Insureds, but only with respect to operations conducted		
D.3	This insurance shall be primary as regards the City of Co	quitlam, its employees, officers, agents and volunteers as Additional Insureds.		
D.4	Any deductible or reimbursement clause contained in t	he 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.		
210	YES NO Special Coverage Description			
	() (X) Shoring and Underpinning F	lazard		
	() (X) Pile Driving and Vibrations			
	(X) () Excavation Hazard			
	() (X) Demolition			
	() (X) Blasting			
D.7	() () PROFESSIONAL LIABILITY IN	SURANCE for Consultant Service Agreements		
		n for the duration of the <i>Services</i> as described in the Agreement, at its own cost, and from an insurer satisfactory to the City of Coquitlam.		
		y shall insure the <i>Consultant's</i> legal liability for errors, omissions and negligent acts,) per Claim and \$1,000,000.00 Aggregate.		
		Authorized Signature and Stamp		

Date

Name and Title

City' broker to return to City Representative

Department

Coouitlam

APPENDIX IV

PRIME CONTRACTOR DESIGNATION

Subject:Prime Contractor DesignationContract #:21-042Contract Name:Coquitlam Crunch Parking Lot (the "Project")

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

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

Prime Contractor Name & Address:

Prime Contractor Signature

Date

Print Name

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

Supplementary Contract Specifications

These Supplementary Contract Specifications must be read in conjunction with the Specifications contained in the Master Municipal Construction Documents, Volume II, Printed 2009 and the City of Coquitlam Supplementary Specifications and Detailed Drawings File #: 03-1220-20/21-042/1 Doc #: 4070164.v1

Supplementary Contract Specifications

to the MASTER MUNICIPAL SPECIFICATIONS Volume II – Platinum Book

Coquitlam Crunch Parking Lot

CONTRACT 21-042

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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 33 013 01 45 00S	Quality Control		
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01 57 015	Environmental Protection		
	Project Identification		
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12 93 00S	Site Furnishings		
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33 40 01S	Storm Sewers		
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Append Appendi	x A - Traffic Management Detail Specifications	TMP 1 to TMP8	

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 #: 03-1220-20/21-042/1 Doc #: 4070164.v1

1.00	CONTRACT SPECIFIC INSTRUCTIONS	
1.01	Schedule of Work	All work under this Contract is to be completed by the designated Substantial Performance Date as described in the Contract Documents. The Contractor must provide sufficient resources in a continuous effort and site presence to complete all the work within the allotted time. As set out in the MMCD the Contractor must provide updates to the construction schedule biweekly.
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	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 Connections / GFL Environmental (garbage/recycling pick-up) City Utilities Maintenance (or representatives)
1.05	Site Safety	The Contractor is responsible to ensure the construction site is safe at all times for workers, pedestrians, and vehicle traffic. During non-working hours, the Contractor must ensure that the site has all potentially hazardous areas appropriately identified and protected, and also must provide appropriate signage, lighting, and markings for the direction of vehicle and pedestrian traffic, all to ensure the safety of the public. Supply and use of this equipment is considered incidental to the contract. Manhole lids, valve boxes and other appurtenances within the roadway that may present a traffic hazard during construction must be clearly marked for traffic. 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.
1.06	Lane Closure Restrictions	Refer to: Appendix A: Traffic Management Detail Specifications.
		A Road and Sidewalk Closure Permit is required for each instance of closure and will be valid for a maximum period of one (1) week and, if still necessary, re-submittal of a Road and Sidewalk Closure Request is required.
		A copy of the approved Road and Sidewalk Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.
		The Contractor must take the above information into account in the preparation and submission of the Tender.
		Costs to complete the works taking the above restrictions into consideration shall be incidental to work described in other sections.
		Costs to complete the works taking the above restrictions into consideration shall be included in the prices bid in the Schedule of Quantities and Prices.
Th	ese Supplementary Contract Specificat	ions 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 #: 03-1220-20/21-042/1 Doc #: 4070164.v1

SUPPLEMENTARY SECTION CONTRACT			
IFICATIO	NS	SS S CONTRACT SPECIFIC NOTATIONS 202	
1.07	Survey Layout	Construction layout will be staked out by the Contractor as outlined in Supplementary General Conditions.	
1.08	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.	
1.09	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.	
1.10	Utility Adjustments - City Infrastructure and/or Other Agency Infrastructure	The Contractor is responsible for adjusting all utilities, belonging to Coquitlam and/or other agencies that are affected by the road works. All adjustments to utilities must be completed to the satisfaction of the utility owner. Utility adjustment will be considered incidental to the contract unless otherwise noted in the Contract Documents.	
		The Contractor should note that certain utility owners may decide to complete their own adjustments. The Contractor will be required to cooperate with any utility company providing their own adjustments.	
		The Contractor shall be responsible to contact the appropriate utility company with in minimum of seventy-two (72) hours of the work. No adjustment shall be made without the written approval of the utility company.	
		All manholes must be vertically adjusted a minimum of twenty-four (24) hours prior to paving	
		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 paid by the contractor.	
1.11	Accesses	The Contractor is responsible to maintain all business/residential vehicles 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.	
1.12	Verification of Dimensions and Quantities	Before proceeding with work the Contractor shall visit the site and check and verify dimensions and quantities. Report variations between drawings and site conditions to the Contract Administrator before proceeding with work. Payment for this work will be treated as incidental to payment for work described in other Sections.	

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 #: 03-1220-20/21-042/1 Doc #: 4070164.v1

PLEMENT/ TRACT	AK I	SECTION 00 72 43 SS	
SPECIFICATIONS		CONTRACT SPECIFIC NOTATIONS 202	
1.13	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.	
1.14	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.	
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, regardless of the condition of the catch basins prior to starting 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.	
2.03	Asphalt Milling Operations	Asphalt milling activities shall be done in such manner so as to cause the least disruption and inconvenience to traffic and area residents.	
		The Contractor will be required to provide a plan and schedule for milling sections and the subsequent paving activities and have that approved by the Contract Administrator. This schedule is to be updated as required and take into consideration weather conditions and weather forecasts to ensure work subsequent to milling can be completed in appropriate weather.	
		MILLING OF EXTENSIVE AREAS THAT CANNOT BE PAVED WITHIN 48 HOURS PERIOD (2 DAYS) WILL NOT BE PERMITTED.	
3.00	MANDATORY MEETINGS AND CONTRACTOR REPRESENTATIVES AND SUBCONTRACTORS		
3.01	Pre-Construction Meeting Requirements	After the Award of the Contract, the Contractor (Project Manager & Superintendent) will be required to attend a Pre-Construction Meeting with the Contract Administrator and provide all necessary information required by the Contract Administrator prior to provision of a Notice to Proceed. Items required to be provided at the meeting include:	
		 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. Description of investore 	
		 Proof of insurance Performance Bond and Labour and Materials Payment Bond 	

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 #: 03-1220-20/21-042/1 Doc #: 4070164.v1

PPLEMENTA NTRACT		SECTION	SS
CIFICATION	NS	CONTRACT SPECIFIC NOTATIONS	202
		 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 Table of Contents, and portion showing latest revision date. 	Page,
3.02	Contract Schedule, Contract Duration, and Charges	A detailed, realistic construction schedule for this project will be required to b presented at the pre-construction meeting. The schedule must show major components and durations.	e
		All work under this project is to be completed within the designated Contract as contained in the signed Contract Agreement, or as formally amended.	Duratior
3.03	Contract Superintendent and Subcontractors	In compliance with the MMCD General Conditions, Section 4.7, Superintender Contractor shall have a competent senior representative, (the "Superintender FULL TIME attendance at the Place of Work while work is being performed for duration of the contract.	nt") in
		This (FULL TIME) attendance is also required when work is being performed by Subcontractors.	ý
		Work done by Subcontractors is to be directed by the Superintendent and mo 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 o Subcontractors.	f
3.04	Mobilization and Demobilization	Payment for mobilization and demobilization of all equipment, labour and ma (both from the Contractor and all sub-contractors) shall be incidental.	terials

END OF SECTION

SUPPLEMENTARY CONTRACT SPECIFICATIONS		PROJ	ECT RECORD DOCUMENTS	SECTION 01 33 01S SS 6 2021
1.0	GENERAL			
1.3	Submission	Delete 1.3.2 and replace with the following	Submit one copy of an accurate project r form prior to applying for Substantial Per video report. Record documents to includ for Construction Drawings, new elevation, utilities, manhole rim, catchbasin rim, vau walkways/sidewalks, and any unknown/ne Legal holdbacks will not be released until been submitted and accepted by the Cont	rformance including any le changes in the Issued offsets & location of al ults, valve boxes, inverts w utilities found on site record documents have

END OF SECTION

1.1 Quality Control (QC) by Contract Administrator. 1.1 Quality Control (QC) by Contractor 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 Contractor 1.1 Quality Control (QC) by Contractor The MMCD (2009) definition of "Quality Control" is the process by which the Contractor the contract Documents. 1.1 Contractor 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 Contract to conduct adequate quality control testing during production and construction will negate the Contractor's ability to appeal the quality assurance test used for acceptance/rejection of the work. Under no circumstances will QC test results produced after completion of the Qualit 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 nonly the Contract Administrator o changes in writing may result in rejection of Work. 1.2 Inspection of Work, Quality Assurance, My material testing to Quality Assurance. Any changes in the Work with respect to the location, grade, or line shall be approved in advance by the Contract Administrator o changes in writing may result in rejection of Work.	SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 01 45 00S SS 7 QUALITY CONTROL 2021
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			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.

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 #: 03-1220-20/21-042/1 Doc #: 4070164.v1

SUPPLEMENTARY CONTRACT	SECTION 01 45 00S SS 8		
SPECIFICATIONS	QUALITY CONTROL 2021		
1.4 Survey Layout	The Contractor shall be responsible for all survey layouts.		
	The Contractor shall be responsible for the preservation of all layout stakes and marks. If at any time during the progress of the work any error shall appear or arise in the position, levels, dimensions or alignment of any part of the work, the Contractor shall stop work on his portion of the project and shall notify the Contract Administrator. The Contractor shall make all the necessary corrections required.		
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: Provide access to work to be inspected Facilitate inspections and tests 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. 		
	 6. Subgrade Preparation 6.1 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 for all work performed under this section will be incidental to payment for work		
Payment	described in other Sections. END OF SECTION		

	MENTARY		SECTION 01 55 00S	
CONTRA SPECIFI	ACT CATIONS	SS 9 TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING 2021		
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 1.08	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 both for vehicles and pedestrians to the satisfaction of the Contract Administrator. For this purpose, he shall construct and maintain suitable and safe platforms, approaches, structures, bridges, diversions or other works.	
			Where traffic must cross open trenches, the Contractor shall provide suitable bridges. Where trenches have been backfilled or where road improvements are incomplete the Contractor shall take any steps necessary to prevent potholes or other traffic hazards. Where the Contract Administrator so instructs or where Contract Specifications so require, the Contractor shall provide temporary asphalt patching of such hazards.	
		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.	

Delete 1.4.10.1.3 and replace with the following

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

END OF SECTION

1.0	GENERAL		
1.0.3	Erosion and Sediment Control Supervisor	Add 1.03	The Erosion and Sediment Control (ESC) Supervisor is the Qualified Professional who is experienced in implementing ESC Plans and who is responsible for the inspection and monitoring of ESC Facilities to ensure these are installed and maintained in accordance with the ESC Plan, and if necessary, are modified during construction to ensure compliance with the Stream and Drainage System Protection Bylaw No. 4403, 2013.
1.2	Temporary Erosion and Sediment Controls	Delete 1.2.1 and replace with the following	Properly drain all portions of the site. Protect the site and the watercourses to which it drains, directly or indirectly, against erosion and siltation in accordance with a Sediment Control Plan under the City of Coquitlam Stream and Drainage System Protection Bylaw No. 4403, 2013 during construction and until the maintenance period is completed. Ensure no silt, gravel, debris or other deleterious substance resulting from construction activity discharges into existing drainage systems or watercourses or onto highways or adjacent property. The <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.

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 01 57 01S SS 12
		ENVIRONMENTAL PROTECTION 202	
		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 equipment refueling or servicing shall be undertaken within a minimum of 15 meters of any water course or surface water drainage.
		Add 1.4.3.10	During all phases of the operation, the Contractor shall take precautions to abate nuisance caused by mud or dust by clean up, sweeping, sprinkling with water or dust control, or other means as necessary to accomplish results satisfactory to the Contract Administrator.
1.6	Measurement and Payment	Delete 1.6.1 and replace with the following	Payment for all work, unless included in the Schedule of Quantities and Prices, performed under this section will be incidental to payment for work described in other Sections.
		Add 1.6.2	Payment for the poly cover or temporary tarps over stock pile materials or exposed road subgrades shall be treated as incidental work.
1.8	Clean Up	Add 1.8.2	The work will include cleaning of all catch basins within the work area, or nearby location as affected by the Work, regardless of the condition of the catch basins prior to starting the Work and all manholes and/or sewers affected by work done under this contract. All cleaning is to be performed by vacuum truck to the satisfaction of the Contract Administrator and will include off-site disposal of waste material.
1.9	Archaeological / Historical Resources	Add 1.9	Immediately cease work and inform the <i>Contract Administrator</i> and the City, if any archaeological or historical resources are encountered during construction. Leave these resources in place and do not disturb them in any way.
			END OF SECTION

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 0 PROJECT IDENTIFICATION	
1.3	Measurement and Payment	Delete 1.3.1 and replace with the following	Payment for the installation of 1.2m x 1.2m static construction Information signs as shown in Appendix A – Traffic Management Detail Specifications - Clause 6.5 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.
		Add 1.3.2	Payment for changeable message signs (CMS) including supply, placement, communication management & removal as required for traffic & pedestrian safety will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices.
			When shown in the Schedule of Quantities and Prices, payment for CMS used for only a fraction of a month will be paid prorata.

CONTR			SECTION 03 30 20S SS 14
SPECIFI	CATIONS	CONCRETE WALKS, CURBS AND GUTTER 20	
1.4	Measurement and Payment	Delete 1.4.3 and replace with the following	Payment for machine placed or hand formed concrete curb and gutters, excluding granular subbase & base, includes supply and placing of the concrete curb and gutter, tie-ins, transitions, subgrade preparation, compaction, saw cutting, and will cover all straight and curve sections and will be made separately for each specified type.
			Payment for excavation and disposal of excavated material will be made under payment item, Common Excavation – offsite disposal, in the Schedule of Quantities and Price.
			Payment for granular subbase and granular base under curb and gutter will be made under payment items in Section 32 11 16.1S and 32 11 23S, Granular Subbase and Granular Base, respectively.
2.1 Materials	Materials	Delete 2.1.5.1 and	Hand-formed and hand-placed concrete:
		replace with the following	Slump: 80mm Air entrainment: 5 to 8%. Maximum aggregate size: 20mm. Minimum cement content: 335 kg/m3. Minimum 28 day compressive strength: 32 MPa.
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 frame and valve boxes, belonging to Coquitlam and/or other agencies tha are affected by the road works. All adjustments to utilities must b 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 cooperate with any utility company providing their own adjustments.
			The <i>Contractor</i> shall be responsible to contact the appropriate utilit 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 a maximum spacing of 9.0 m for sidewalks, 30.0 m of curb and gutter at each end of driveway crossing, at tangent point of circular work and on either side of catch basins.
			END OF SECTION

CONTR	EMENTARY RACT FICATIONS		SITE FURNISHINGS	SECTION 12 93 00S SS 15 2021
1.0	GENERAL	.1	<u>Section 12 93 00</u> refers to the labour, materials, and e supply and installation of materials specified herein. 1. Bollards	equipment necessary for the
1.1	Related Work	.1	Metal Fabrications	Section 05 50 00
		.2	Cast in Place Concrete	Section 03 30 00
1.2	Maintenance data	.1	Provide maintenance data for care and cleaning of site	e furnishings.
1.3	Quality Assurance	.1	A manufacturer's warranty is required for all pre-man specified in this section.	ufactured site furnishings
1.4	Measurement and Payment	.1	Payment for bollards will be on an Each basis. Payme installation of each Bollard type and concrete footing. considered incidental to the payment item.	
2.0	PRODUCTS			
2.1	Bollards	.1	Supplier: Reliance Foundry <u>www.reliance-foundry.com or approved equal.</u> Ph: 888-735-5680. Model: R-7901 (Removable Receiver with Lid) Material: Steel. Finish: Powdercoated. Colour: Black textured semi-gloss.	
3.0	EXECUTION	.1	All materials and/or components damaged or deterior storage will be rejected and shall be removed from th to the Owner.	
		.2	All materials and components will be subjected to ins Materials and/or components which do not meet the shall be rejected and be removed from the site at no	requirements stated herein
		.3	All materials and components shall be protected from the site.	n weather while in transit to
		.4	All materials and components shall be stored off the g protected from weather to prevent deterioration, dar structural or their essential properties.	, i i
		.5	The Contractor shall be responsible for protection and completed work and finishes from time of completion shall make good any damage to work caused during p period at no cost to the Owner.	n until acceptance of work and
		.6	Installation work shall be carried out in accordance wi shop drawings, and requirements stated herein and a specifications.	

SUPPLEMENTARY CONTRACT SPECIFICATIONS		CI	SECTION 31 11 0 SS CLEARING AND GRUBBING 20	
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Payment for all clearing and grubbing will be made at lump sum price and include removal and disposal of all branches, stumps, trees, debris, hedges, timbers, logs and vegetation to complete the work and as shown on the Contract Drawings or as directed by the Contract Administrator. Works include cutting of branches & falling of trees affected by Work to create the necessary clearance to accommodate the construction and intended function of the Work, and as shown on Contract Drawing.	
			Payment includes trimming of small branches from trees or hedges as required, branch cutting/pruning to have a clean cut flush to branch collar and use of an approved tree paint to repair damage to surviving vegetation where branches have been removed.	
			Existing grass and top soil removal will be paid under Common Excavation, less the portion under Grubbing as defined in Clause 1.2.	

SUPPLEMENTARY CONTRACT			SECTION 31 11 41S SS 17	
SPECIFIC	CATIONS	SHRUB AND TREE PRESERVATION 2021		
1.3	Measurement and Payment	Delete 1.3.1 and replace with the following	Payment for all work, unless included in the Schedule of Quantities and Prices, performed under this section will be incidental to payment for work described in other Sections.	
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			SEC	SECTION 31 22 01S SS 18 2021
1.4	Measurement and Payment	Delete 1.4 in its entirety and replace with the following	Payment for all work performed under this to payment for work described in othe otherwise in the Schedule of Quantities ar	er Sections unless shown

SUPPLEMENTARY CONTRACT SPECIFICATIONS		RESH/	APING GRANULAR ROADBEDS	SECTION 31 22 16S SS 19 2021
1.4	Measurement and Payment	Delete 1.4 in its entirety and replace with the following	Payment for all work performed under this S to payment for work described in other otherwise in the Schedule of Quantities and	Sections unless shown

SUPPLEMENTARY CONTRACT SPECIFICATIONS		EXCAVATING,	SECTION 31 23 01S SS 20 TRENCHING AND BACKFILLING 2021
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.
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 Administrator</i> 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 roac 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).

SUPPLE CONTR	MENTARY ACT			SE	CTION 31 24 13S SS 21	
SPECIFI	CATIONS	ROADWAY EXCAVA	ATION, EMBANKMENT AND COMPACTION 2021			
1.8	Measurement and Payment	Delete 1.8.4 and replace with the following	components included i shown on the Contract Administrator. No paym of these components excavation, and such res	item will only apply to n this item under a sepa Drawings or as directed nent will be made under th as part of the opera moval will be treated as co e at the respective unit	arate operation as by the Contractor is item for removal tion for common ommon excavation.	
			Schedule of Quantities equipment required to a	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 Quant 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 ume will be used to deterr volume per load shall be uck load quantity. The following the contract of the contract of the contract of the	excavation will be om measurements r in the areas of mediately prior to ed into work. ministrator that nine excavation determined using	
			Truck Type	Material Type	Volume (cu.m)	
			Tandem	ordinary material	7	
			Tandem	asphalt/concrete/pipe	4	
			Triaxle	ordinary material	8	
			Triaxle	asphalt/concrete/pipe	5	
			Tandem and Pony	ordinary material	11	
			Tandem and Pony	asphalt/concrete/pipe	7.5	
			Triaxle and Pony	ordinary material	13	
			Triaxle and Pony	asphalt/concrete/pipe	9	
			Tandem and Transfer	ordinary material	19	
			Tandem and Transfer	asphalt/concrete/pipe	13	
			common exca site. The slips the end of s quantities sub 5. Payment for o temporary st adjustment of	provide truck slips detaili avation, time loaded and are to be given to Contra- shift or Contract Admin osequently submitted. on site re-use includes exc ockpiling, placement, co f moisture content, spread where on site or within establish the roadway	location of dump ct Administrator by istrator can deny cavation, transport mpaction, boning ding and grading of the work zone, as	

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.

SUPPLEMENTARY CONTRACT				SECTION 31 24 13S SS 22
SPECIFICATIONS		ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION		2021
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 11 16.1S SS 23 GRANULAR SUBBASE 2021
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.
		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 13 – 1.8.5 Common Excavation.
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
			END OF SECTION

CONTRA	MENTARY ACT CATIONS		SECTION 32 11 23S SS 24 GRANULAR BASE 2021
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, shall be included in the unit price bid in the Schedule of Quantities and Prices.
		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 13 – 1.8.5 Common Excavation.
2.0	PRODUCTS		
2.1	Granular Base	Add 2.1.1.3	19 mm minus crushed gravel conforming to the gradation specifications for Collector/Arterial Roads under Section 31 05 17S – 2.10.3.
3.0	EXECUTION		
3.5	Proof Rolling	Delete 3.5.1 and replace with the following	For proof rolling, use fully loaded single axle, to 80 KN (18, 000 lb) minimum, dump truck.
		Add 3.5.7	Prior to paving with asphalt concrete, the base surface shall be checked by the <i>Contract Administrator</i> and the City, for deflections utilizing a Benkelman Beam, in order to insure that the final rebound requirements can be obtained with the asphalt pavement. In the event that such deflection is in excess of those required to produce the final standards, then the base shall be adequately strengthened by additional gravel or asphalt concrete to insure that final deflections as follows are not exceeded.
			The Benkelman spring rebound value of the completed pavement surface shall not at any point exceed 0.75 mm for arterial industrial roads and lanes, 1.15 mm for collector roads, and 1.5 mm for local roads and lanes as determined in the procedures outlined in the Transportation Association of Canada publication "Pavement Management Guide."

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

1.0	GENERAL		
1.4	Submission of Mix Design	Delete 1.4.1 and replace with the following	Submit asphalt concrete mix design, including RAP content and trial mix test results to Contract Administrator for review at least two weeks prior to commencing work.
1.5	Measurement and Payment	Delete 1.5.1 and replace with the following	Payment for asphaltic concrete paving includes all construction joint preparation, asphaltic surface milling to tie into existing asphalt, saw cutting, 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.
			For measurement and payment purposes, Contract Administrator may calculate payment on actual area paved to the thickness specified in in the Schedule of Quantities and Prices and as shown on the Contract Drawings.
		Delete 1.5.3 and replace with the following	Payment for asphaltic concrete sidewalks, pathways, driveways, and infill strips paving 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
2.0	PRODUCTS		compliance with the required design and compaction.
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.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		SECTION 32 12 16S SS 27 HOT-MIX ASPHALT CONCRETE PAVING 2021		
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.	
		Delete 2.2.3.2 Marshall Stability and replace with the following	Marshall Stability at 60°C for both lower and upper courses to be 10 KN min.	
3.0	EXECUTION			
3.3	Preparation	Delete 3.3.3 and replace with the following	The <i>Contractor</i> is responsible for adjusting all utility manhole frames and valve boxes, belonging to Coquitlam and/or other agencies that are affected by the road works. All adjustments to utilities must be completed to the satisfaction of the utility owner. Utility adjustment 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-four (24) hours prior to paving. The use of riser rings for adjusting manhole frames and value boxes will not be permitted.	
3.7	Joints	Delete 3.7.5 and replace with the following	Construct butt joints at locations as shown on the <i>Contract Drawing</i> and as directed in the field by the <i>Contract Administrator</i> and the City.	

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> . Thermoplastic markings may be specified as an <i>Option</i> on the Contract Drawings.
1.5	Measurement and Payment	Delete 1.5.2 and replace with the following	All permanent markings shall be painted, unless shown otherwise in the Schedule of Quantities and Prices, then it shall be thermoplastic manufactured by LAFRENTZ ROAD MARKINGS.
		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 PAINTED, OR 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, sign relocations, temporary removal, cleaning and re-installation of existing, and sign installations (complete).
			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. Installation of each new sign pole, cap, sleeve, galvanized steel bracket for no post barrier, as per MOT Drawing # SP635-3.8.3, includes all costs to supply all materials, labour and equipment and incidentals necessary to the sign structure as shown on the Contract Drawings and as directed by the Contract Administrator.
			3. The unit price payment is for each 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.
			4. Installation of each aluminum sign on a lamp standard pole or sign pole includes sign mount clamps and all costs to supply all materials, labour and equipment and incidentals necessary to install each sign as directed by the Contract Administrator.

- 2.0 PRODUCTS
- 2.1 Materials

Delete 2.1.1 and replace with the following All permanent markings shall be paint markings unless thermoplastic manufactured by LAFRENTZ Road Markings has been specified on the Contract Drawings

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 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.

Application

EXECUTION

3.0

3.3

Delete 3.3.3.3 and replace with the following

Thermoplastic material shall be heated in the melter to a temperature of 382 $^{\circ}\text{F}.$

SUPPLEMENTARY CONTRACT SPECIFICATIONS		CHAIN LINK FENCES AND GATES		SECTION 32 31 13S SS 30 2021	
1.0	1.0 GENERAL				
1.5 Measurement and Payment		.5	(Add Clause 1.5.5 as follows): Payment for fencing to be per lineal meter, com connections, footings, to be a consistent finish a fence includes and sanding and finishing works	as shown in the details. Ensure	
				END OF SEC	

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 unique to the supply, placement and finish grading of <i>Grow</i> <i>Medium</i> . This section must be referenced to and interpre simultaneously with all other sections pertinent to the <i>Wc</i> described herein.	<i>wing</i> eted
			For the purpose of this specification, the term "Growing Medium" shall mean a soil produced offsite by homogeneou blending of mineral particulates, micro-organisms and organ matter which provides suitable medium for supporting intended plant growth and the term "Topsoil" shall mean or site native or surface soil material which may be used as Growing Medium provided it meets standards set for impor material Growing Medium and can be modified to meet the requirements set out for specified Growing Medium.	anic on- rted
		Add 1.0.3	3 For the purpose of this specification, the term 'Soil-Test Laboratory' shall mean an independent laboratory, recogni by the landscape nursery industry, with the experience a capability to conduct the testing indicated and that special in types of tests to be performed.	ized and
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Payment includes supply and installation of growing media poulevard tree trench, bark mulch and imported top soil that is f from any noxious weeds, fungal growth, mushroom, and a contaminants, and as described in the Schedule of Quantities a Proces. Payment will be made separately and includes supply material, on-site handling, preparing the landscape area subgra placing, grading, raking, compacting top soil and application fertilizers. Payment for top soil will be for actual volume placed on at specified thickness.	free any and y of ade, n of
1.5	Inspection and Testing	Delete 1.5 and replace with the following	1 The Contractor is responsible for testing imported Growing Medium and all related cost incurred. Testing shall be carrie out by an approved Soil Testing Laboratory.	
			2 The sample analysis shall be of tests done on the proposed Growing Medium from samples taken at the supply source within a minimum of 14 days in advance of Growing Medium placement. Allow 7 days for soil testing by the laboratory for each sample. The sample shall be picked up by the Soil Test Laboratory from the supply source. The Growing Medium sample shall be a composite of at least three (3) samplings f the proposed source and shall be at least one (1) litre in volume.	im for sting
			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 sand, organic matter, fertilizers and lime to achieve adequar 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 the <i>Contract Administrator</i> and the City.	

	MENTARY ACT			SECTION 32 91 21S SS 32	
SPECIFICATIONS		TOP SC	TOP SOIL AND FINISH GRADING2021		
			.5	 All submitted soil analysis must be dated and include supplie name and phone number, project location and submitted to <i>Contract Administrator</i> and the City for approval prior to commencing work. Soil analysis shall include measurements of: Percent sand, fines, silt and clay Organic matter to 100% pH, acidifying additive required to achieve noted herein Water soluble salts Total carbon to nitrogen ration Total nitrogen and available levels of phosphorus, potassium, calcium & magnesium 	
			.6	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</i> <i>Medium</i> taken from material delivered to the site. Samples shall be taken form a minimum of three (3) random locations 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	
			.3	storage under roof or tarpaulins. 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>	
			.4	Medium and amendments may result in their rejection for un Store fertilizer and chemical amendments in the	
			.5	manufacturer's original containers. 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		throughout the mix.	
2.1	Materials		.1	Growing Medium Preparation .1 Shall be prepared from Compost Material with Sand a other Soil Amendments as required to meet to specifications herein.	
				.2 Ensure commercial processing and mixing of <i>Growi</i> <i>Medium</i> components are done thoroughly by mechanized screening process. Do not mix t	

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components by hand. Ensure the resulting product is a homogeneous mixture having the required properties 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 <u>Sand</u>: 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.

<u>Sieve Size (mm)</u>	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:
 - Organic Matter Content: 50 to 60 percent of dry weight containing no cedar, redwood, wood or bark.
 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

SUPPLEMENTARY CONTRACT	SECTION 32 91 21S SS 34		
SPECIFICATIONS	TOP SOIL AND FINISH GRADING		
	 .1 Content of wood residuals such as Fir or Hemloor sawdust present in the <i>Growing Medium</i> shall not cause the total carbon to total Nitrogen ration to exceed 40:1. .2 Cedar or redwood sawdust shall not be present in <i>Growing Medium</i>. 		
	 .4 <u>Manure</u> .1 Well-rotted, unleached, stable or cattle manur containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of 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 t 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 nitroger phosphorus, potassium, calcium, magnesium, boron, sodiur cation exchange capacity, carbon to nitrogen ratio. .1 Boron: not to exceed 1.0ppm .2 Sodium: Sodium absorption ratio(SAR) not to exceed 8.0 .3 Total Nitrogen: to be 0.2-0.4% by weight .4 Available Phosphorous: to be 50-100 ppm .5 Available Potassium: to be 50-70 ppm .6 Cation Exchange Capacity: to be 30 to 50 meq. .7 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 placemer to be done in such a manner that the minimum saturate hydraulic conductivity show on Table – 'Growing Mediuu Properties for Different Applications' (found herein thes specifications) is achieved and no standing water is visible 6 minutes after at least 10 minutes of moderate to heavy rain o 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 area indicated on drawings. .1 Organic Mulch: Apply 50 mm average thickness of organ mulch, and finish level with adjacent <i>Finish Grades</i>. Do no 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 othe extraneous matter, and free of weeds, seeds and spores. 		

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 (%)		tion (%)
	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

- Root Barrier: 400x610 mm linear root barrier, copolymer .1 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
 - Flow Rate 188 l/min/Metre as per ASTM D-4716 .2
 - .3 Approximate profile thickness of 10 mm.
 - Supplier of Drain Mat shall be as per the Coquitlam .4 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.

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.

SUPPLE CONTR/	MENTARY ACT		SECTION 3	2 91 21S SS 37
SPECIFICATIONS		ТОР	SOIL AND FINISH GRADING	2021
			.1 Supplier of Geotextile shall be as per the Coqu Approved Products List.	itlam
			.7 Ground dolomite limestone containing no less than total weight as calcium carbonate and magnesium of shall be used to control ph level. The degree of grin limestone shall allow 100% of the total weight to pa (2 mm) sieve, 90% to pass a #18 (1 mm) sieve and 2 a #40 (0.105 mm) sieve. Spread-easy fertilizer shall slow release fertilizer source of calcium and magne	carbonate d for the ass a #10 .0% to pas be used as
			 .8 Mixing of structural soil: Blend as per following ratios: .1 5 metric tones (MT) of aggregate .2 1 cubic meter of growing media .3 2 kg soil stabilizer 	
			.9 Moisten mixture with fine spray of clean potable w. mixing to activate soil stabilizer product. Do not over mixture in 300 mm lifts through entire area of struct mixture. Compact each lift to 95% MPD prior to pla next lift. Install filter fabric such to ensure a minimu overlap of all fabric seams and beyond edge of stru	er mix. Pla tural soil cement of im of 60 c
3.0	EXECUTION			
3.2	Preparation of Subgrade	Delete 3.2.4 and replace with the following	Remove debris, roots, branches, stones in excess of 50 mm and other deleterious materials, soil contaminated with ca chloride, toxic materials and petroleum products, and deb protrudes more than 25 mm above the surface. Dispose o removed material off site to approved offsite disposal area additional cost to the <i>Owner</i> .	lcium ris which f all
		Delete 3.2.5 and replace with the following	Course cultivate entire area which is to receive <i>Growing</i> depth of 250mm. Cross cultivate those areas where equ for hauling and spreading has compacted soil.	
		Add 3.2.6	Grade transitions shall be smooth and even and shal surrounding areas as determined by the <i>Contract Administi</i> City.	
		Add 3.2.7	Provide erosion-control measures to prevent erosion or c of soils and discharge of soil-bearing water runoff or airb adjacent properties and walkways.	
3.3	Processing Growing Medium	Add 3.3.4	 Growing Medium shall be imported and stockpiled on site approved by the Contract Administrator and the City. 1 Carry out stock piling operation such that the Growin structure is not compromised through compaction, wo other actions. 2 Stock piled Growing Medium shall be protected from and contaminants. 3 Growing Medium shall be free of subsoil, pests, root construction debris, undesirable grasses including cracouch grass, noxious or weeds and weed seeds or paforeign objects and toxic materials. Presence of thes contaminates shall be grounds for rejection of Growin and replacement at no cost to the Owner. 	ng Mediun vibration o n rain, dryi s, wood, abgrass or rts therec e

	MENTARY		SECTION 32 91 21S SS 38	
CONTRACT SPECIFICATIONS				
			SOIL AND FINISH GRADING 2021	
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 adequate moisture, in uniform lifts of 100 mm to 150 mm compacted to 80 MPE during dry weather, over dry, unfrozen <i>Sub Grade</i> where planting is indicated free of any standing water.	
		Delete 3.4.5 and replace with the following	Minimum depths after settlement and 80% compaction:.1Trees pits:900 mm.2Shrub beds:450 mm.3Ground cover areas:300 mm.4Lawn areas:300 mm.5Blvd. areas:150 mm	
		Add 3.4.6	Increase sand content to 90% in the planting soil below lawns where heavy wear by pedestrians or maintenance equipment is anticipated. Increase sand content in a 1.5m wide strip at the bottom of swales, banks or other wet areas and as directed by the Landscape Architect. On steep south or west facing banks, reduce sand content in lawns and planting beds to 50 - 60% for better moisture retention.	
3.5	Applying Fertilizers	Delete 3.5 and replace with the following	 Addition of amendment components shall be at the rates indicated in the <i>Growing Medium</i> analysis recommendations via the following methods: Lime: Applied with mechanical spreaders over entire planting areas and contained planters. Do not apply by hand. Mix thoroughly into the top 100 mm of <i>Growing Medium</i>. Do not allow lime to come into direct contact with nitrogen - phosphate - potash fertilizers. Fertilizer: Applied with mechanical spreaders over entire planting areas and contained planters. 	
3.6	Finish Grading	Delete 3.6.1 and replace with the following	Manually fine grade <i>Growing Medium</i> installation to contours and elevations shown on drawings or as directed by <i>Contract</i> <i>Administrator</i> and the City. Eliminate rough spots and low areas to ensure positive drainage.	
		Add 3.6.3	<i>Finish Grade</i> of <i>Growing Medium</i> shall be 25 mm from finished elevation of adjacent curb or planter wall unless otherwise noted on drawings.	
3.9	Clean-up	Delete 3.9 and add the following	.1 Ensure all paved areas, tops of planters, adjacent surfaces have been thoroughly cleaned. Ensure all discoloration of adjacen surfaces as a result of <i>Growing Medium</i> installation have been removed.	
			.2 Dispose of materials not required and repair any damage to adjacent surfaces (as determined by the <i>Contract Administrato</i> and the City) off site at no additional cost to the <i>Owner</i> .	
3.10	Weed Control	Add 3.10	.1 Ensure all weeds and weed roots that have germinated during the course of work of this section have been eliminated from Growing Medium.	
			.2 Provide the City Representative and Consultant with a written outline of weed removal methodology seven (7) days prior to starting weed removal operations.	
3.11	Structural Soil	Add 3.11	.1 Refer to 2.9 in this specification and as shown on the Contrac Drawings.	

SUPPLEMENTARY		SECTION 32 91 21S
CONTRACT		SS 39
SPECIFICATIONS	TOP SOIL AND FINISH GRADING	2021

			SECTION 33 40 01S
CONTRAC SPECIFIC/			STORM SEWERSSS 402021
1.6	Measurement and Payment	Delete 1.6.1 and replace with the following	Payment for storm sewer will be made at the unit price bid for storm sewer (regardless of depth) consistent with pipe materials, diameters and backfill requirements shown on the Contract Drawings and described under individual payment items in the Schedule of Quantities.
		Delete 1.6.2 and replace with the following	Payment for storm sewers includes trench excavation, dewatering, bypass pumping, on-site reuse of surplus/displaced material, removal and disposal of existing pipes, supply and installation of all pipe, wyes, cap, fittings and related materials, tie-ins to existing or new storm pipe or manhole other than noted in Clause 1.6.9, construction joints, bedding, import backfill, native backfill, , granular base, granular Subbase, cleaning and flushing, testing (if applicable), videoing and all other work and materials necessary to complete installation as shown on Contract Drawings and specified under this Section; and
			Measurement for storm sewer will be made horizontally from manhole centerline to manhole centerline over surface work has been completed.
			Native excavated material approved for re-use as trench backfill shall have all cobbles greater than 150 mm diameter removed and disposed off-site and shall be granular in nature and free from organic materials. Native excavated material shall not be used as trench backfill where moisture content does not permit compaction to specified density. Where native excavated material is unacceptable for use as trench backfill, imported trench backfill shall be supplied, placed, and compacted to specified density.
			Payment for concrete driveway and curb & gutter will be made under Section 03 30 20S.
			Payment includes by-pass pumping to include all pumps, labour and materials required to facilitate the work. Payment for the by-pass pumping will be incidental. Measurement for storm sewer will be made along the ground from the start of new pvc pipe to the terminus of the new pvc pipe.
		Delete 1.6.3 and replace with	Payment for new service connections includes 150mm SDR28 PVC pipe, shear band couplers, bends, increaser, pvc wye, stubs, caps, sanded stubs, manhole preparation, inserta tee, Le-Ron inspection chamber c/w locking collar and green lid and all related fittings and components specified and/or shown on Standard Detail Drawings. Payment includes all applicable service pipes, materials and work described in 1.6.2.
			Measurement for service connection will be for each complete service installed, including the inspection chamber, length of service pipe installed and length of riser.
		Add 1.6.3.1	Payment for storm service connection repair/replacement includes 150mm SDR28 PVC pipe, shear band couplers, bends, sanded stubs, inserta tee, increaser, stubs and all related fittings and components specified and/or shown on Standard Detail Drawings. Payment includes all applicable service pipes, materials and work described in 1.6.2 unless specified otherwise in the Schedule of Quantities and Prices.

SUPPLEMENTARY CONTRACT		SE	ECTION 33 40 01 SS 42
SPECIFICATIONS		STORM SEWERS	202:
		Measurement and payment for storm lead repain be made at the unit price bid per lineal meter of installed as measured along the ground from the of work done in Clause 1.6.4 to the terminus of t	service lead downstream en
	Delete 1.6.4 and replace with	The lump sum payment is to supply and install Le inspection chambers c/w locking collar & green li as per COQ-S7A, COQ-S8A and MMCD S9 at tendered price is to include all labour, shear ban SDR 28 pipe stubs and all related fittings and co and/or shown on Standard Detail Drawings and that may be required to complete the work as includes all applicable materials and work describ	d including the ri each location. d couplers, 2m F mponents specif all such other ite specified. Paym
		A City crew will be inspecting the service connect prior to the Contractor's installing the IC. The Co the City inspector once the section of the service for hand video. Payment includes assisting City cr the service connection. Based on the hand assessment or apparent condition of the pipe, re to be done under Clause 1.6.3.1. Repair/replace done as approved by Contract Administrator or C	ntractor shall no connection is rea ew in hand video video result, (pair/replacemen ement shall only
		NOTE: Depth specified on the utility connection IC is typically measured from the top of the clea	
		Brooks Boxes with a steel lid are to be provided for inspection chambers located in driveways as need Payment for the Brooks Boxes on a driveway will incidental.	essary.
		Payment includes support of poles if necessary and barrel preparation to accommodate the service c	
	Delete 1.6.5 and replace with the following	Payment for catchbasin or lawn basin leads in materials and work described in 1.6.2	clude all applica
		Measurement for catchbasin leads or lawn basin horizontally from mainline pipe to centreline of basin for each pipe size installed with no regards	catchbasin or la
	Delete 1.6.6 and replace with the following	Payment for french drain, dispersal trench, retentic applicable materials and work described in 1.6.2, pipe, excavation, removal and disposal of exca material, trench dam, clean out, perforated pipe, g in into catch basins/lawn basins and/ or storm sewe filter fabric surround and all other work incidental t as shown on the Contract Drawing and COQ-SW3 /	and will include avated or displa rowing medium, er, drain rock, fittir co complete the w
2.0 PRODUCTS		Pyment for catch basins and lawn basins will be ma 44 015 – Clause 1.5.2.	ade under Sectior
2.2 PVC Pipe, Mainline	Delete 2.2.1 pipe size	200 mm dia. – 375 mm dia. to ASTM D3034	
Smooth Wall	ranges and replace with the following	450 mm dia. – 1,200 mm dia. to ASTM F679	

SUPPLEI CONTRA	MENTARY ACT		SECTION 33 40 01S SS 42
SPECIFIC	CATIONS		STORM SEWERS 2021
2.6	Service Connections	Delete 2.6.1 and replace with the following	Storm service connections to be PVC DR 28 150 mm diameter minimum or as specified on <i>Contract Drawings</i> .
		Delete 2.6.8.1	
		Delete 2.6.8.2 and replace with the following	Connections to PVC pipe to be made with a performed wye fitting where mainline pipe is 300 mm diameter or smaller. For connections to PVC mainline pipe larger than 300 mm diameter an insertable tee for PVC pipe is permitted.
		Add 2.6.8.3	Insertable tee fitting shall have a rubber collar which inserts into the mainline pipe to form a tight seal and shall have stainless steel band to secure the tee insert. The tee insert shall be a standard bell end with depth control lugs. The joint shall provide a minimum seal of 90 kPa on concrete and polyethylene pipe, and 190 kPa on PVC pipe.
2.9	Granular Pipe Bedding and Surround Material	Delete 2.9.3	Pipe bedding shall be 19 mm clear crushed rock or as approved by the <i>Contract Administrator</i> and the City.
3.0	EXECUTION		
3.8	Connections to Existing Mainline Pipe	Delete 3.8.3 and replace with the following	For new connections to existing, smooth wall or profile, mainline sewers 300 mm and smaller, shall be made by removal of the section of the main and replacement with a preformed PVC wye fitting complete with stubs and double hub PVC couplings for PVC mains and approved shear band couplings for other mainline materials.
			For new connections to existing mainline greater than 300 mm, use of insertable tee will be permitted.
3.10	Service Connection Installation	Delete 3.10.3 replace with the following	Inspection chambers shall be provided on all storm service connections as per Standard Detail Drawing S7. If inspection chamber is located in driveway, lane, or paved surface, Series 37 Brooks concrete box with lid shall be installed as per Standard Detail Drawing S9.
3.12	Inspection and Testing		The contractor shall video inspect completed storm sewers under 900 mm in diameter and all service connections following completion of the installation. The video inspection report shall be in a form specified by the Contract Administrator and the City. Copies of the video DVD and written report shall be forwarded to the Contract Administrator and the City. Refer to Section 33 01 30.1 and 33 01 30.1S CCTV Inspection of Pipelines.
3.16	Permanent Capping of Service Connections	Add 3.16.1	Permanent capping of existing storm sewer connections to be completed as per Coquitlam Standard Detail Drawing COQ-S18.
		Add 3.16.2	A trenchless method of permanently capping a service may be required on an arterial road or on a road which has been paved within 5 years, as directed by the Manager.
			The trenchless technology used to cap the service must be approved by the Manager.
			END OF SECTION

ID CATCHBASINS 20
sphalt Concrete t Section 32 12 16
Cement Concrete Section 32 13 13
includes supply and installation of new n/lawnbasin as described in Schedule of Quantities an- luding catch basin base, concrete barrel, concrete riser, pv ub, donut ring, off-set sump, H20 rated concrete frame/lic me, top inlet and grate, aluminum trapping hood and a terial and equipment required to complete the work from invert to finishing level and as per Standard Detail Drawin bed in Schedule of Quantities and Prices. Payment include n, disposal of surplus excavated material, bas on, bedding, import backfill, catchbasin/lawnbasi on to accommodate catchbasin/lawnbasin connection on of all in-situ concrete work, all labor, materia and necessary work for installing the n/lawnbasin.
n/lawnbasin lead work will be made under Section 33 40 use 1.6.5.
nt of tops of existing units will be measured in unit as defined below and paid for under their respective Iten edule of Quantities.
ent will be made under these items for cleaning Valve onument Boxes, Manhole Frames & Covers and Lids o
is part of the operation for asphaltic concrete paving.
ent will be made for adjusting External Utilities Valve Boxes
nt Boxes, Gas valve boxes, Lawn Drains, Cleanouts and n Chambers, these adjustments will be treated as incidenta ess otherwise specified.
ples & valve boxes must be vertically adjusted a minimun rs prior to paving.
Manhole frames and lids adjustment and replacement will be defined as supplying and installing a new manhole frame and lid and setting to the finished grade Adjustments and replacements shall include jackhammering, removal and disposal of the existing frame and lid, replacement, removal of concrete bricks, addition or removal of precast concrete riser rings, cement mortar supply and installation of new manhole frame and lid se to final grade, temporary asphalt ramping and all othe incidental work. Manhole frames and lids adjustments ONLY is the re-use of existing frames and lids and all the necessary work a

	LEMENTARY TRACT		SECTION 33 44 01 SS 4
	FICATIONS	MA	ANHOLES AND CATCHBASINS 202
			 Water Valve Box replacements will be defined as supplying and installing a new Nelson Type Terminal City Water Valve Box frame & lid and setting to the finished grade. Replacements shall include jackhammering, removal and disposal of the existing frame and lid and all other incidental work. Adjustment of water valves on existing new watermain Catchbasins frame and lid replacement will be defined as setting as supplying and installing a new catchbasin frame & lid to 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.
			The use of Steel/Metal Casting Risers Rings will not be accepted to adjust manholes or water valves to the final asphalt elevation.
.0	PRODUCTS		
.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	
.0	EXECUTION		
.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.
.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, o 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 Detai Drawing S3. Maximum allowable inside ramp shall be 250 mm inver 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 o riser rings for adjusting manhole frames will not be permitted.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		Ν	ANHOLES AND CATCHBASINS	SECTION 33 44 01S SS 45 2021
3.5	Catchbasin Installation	Delete 3.5.1 and replace with the following	Install catchbasins as shown on Coquitlam Star COQ-S11A, COQ-S11B and Standard Detail Dra standards and installation procedures describ Section.	awing S11, to general

Appendix A Traffic Management Detail Specifications

Specifications Contract 21-042 Traffic Management TMF					
Cont	ract 21-042		Traffic Management TMP :		
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 work affecting traffic flow related to construction. A permit is required for each specific construction interference with traffic flow. The Road and Sidewalk Closure Permit Request form is attached as Appendix 1 to this document. A digital copy of the Road and Sidewalk Closure Permit form can be obtained for use during the contract from the City's website at: <u>Road and Sidewalk Closure Permit</u>		
			A Road and Sidewalk Closure Permit form application must be submitted to Cit Traffic Operation Division 5 working days prior to start of 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 (TMF 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 Identification of risks to traffic during the Work .2 Traffic Control Plans for individual stages of the construction .3 Incident Management Plan for the response to an unplanned event and recording of incident information. 		
		.3	Submission of the TMP is to be made to the <i>Contract Administrator</i> within five working days after the <i>Notice of Award</i> of the <i>Contract</i> , and must be approved the <i>Contract Administrator</i> prior to start of the <i>Work</i> .		
		.4	Review of the TMP will be performed by the Contract Administrator. Commen for revisions to the TMP will be returned to the <i>Traffic Manager</i> for implementations.		
		.5	The Contractor shall comply with all the requirements of applicable laws, rules, regulations, codes and orders of the municipal and other appropriate authoritic concerned with work on streets or highways and shall post proper notices and, signals, and provide necessary barriers, guards, lights, flagmen or watchmen as may be necessary for proper maintenance of traffic and protection of persons		

	ifications			
Cont	ract 21-042		Traffic Management	TMP 2
			and property from injury or damage. All costs involved in resp requirements will be deemed to be included in the Contract P	
		.6	The Contractor shall give due notice to local police and fire dep beginning construction and shall comply in all respects with th	
		.7	The Contractor, during the progress of the work, shall make add accommodate the normal traffic along streets and highways in adjacent to or crossing the work so as to cause the minimum of the general public.	nmediately
		.8	The Contractor is required to maintain local traffic and drivewa stages of construction. This includes maintaining a 1.5m widtl pathway through the construction site for pedestrians.	-
		.9	Where existing streets or roads are not available as detours, all permitted to pass through the work with as little inconvenienc possible unless otherwise provided or authorized. If half the st improvement, the other half shall be conditioned and maintai	ce and delay as treet only is unde
2.2	Incident Management and Reporting	.1	The Contractor shall facilitate incident response vehicles and s traffic safely and expeditiously through or around an incident assistance to emergency response personnel as required. An but is not limited to, motor vehicle accidents, emergency road vehicles, and debris on the road. The immediate response to by necessity make use of available devices and equipment.	on site and provid i incident includes I repairs, disabled
		.2	If an incident occurs on site, the Contractor will be required to the Contract Administrator documenting details of the incider location, date, time, action taken, duration and restoration of	nt including event
2.3	Traffic Control Plans	.1	The Contractor shall designate a qualified Traffic Control Supe works, per the requirements of WCB regulations Section 18. The designated Traffic Control Supervisor may be the same inc designated as the Traffic Manager, or may be a separate indiv the responsibilities of this function.	dividual that is
		.2	The Contractor shall prepare weekly the anticipated traffic con locations, and durations for the upcoming week.	ntrol activities,
		.3	 Permissible delays shall only be considered outside Peak Hour delays are categorized as follows: a) Minor Delays - Less than two (2) minutes in duration; for interruption due to construction activities. These del coordinated with available breaks in the traffic flow. b) Major Delays - Maximum ten (10) minutes in duration interruption of traffic for construction activities if traffic for construction activities if traffic flow. 	for occasional ays shall be ; for occasional
		.4	The Contractor is responsible for ensuring that the flow of training that the flow of training construction-related activities.	ffic is unimpeded
3.0	EXECUTION			
3.1	Traffic Control Plan	.1	A copy of the approved <u>current</u> Traffic Plan must be held on sit Superintendent as well as the person/company responsible fo implementation.	
		.2	Failure to produce a valid approved Traffic Plan on site, or having the Traffic Control Plan will result in immediate shut-down of Contractor will be required to safely restore facility conditions flow at their expense. The Contractor must take all steps to a	the work. The to allow traffic

	c Management Detail fications		_
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		Traffic Control Plan before work can re-start on site. No claim will be accep by the Owner for costs associated with this work shut-down.	oted
3.2	Road and Sidewalk Closure Permits	.1 The Contractor must have, on-site, a copy of an approved Road and Sidewal Closure Permit valid for the work being done. Failure to produce a valid Ro and Sidewalk Closure Permit on-site will result in shut-down of the work. F to comply on what is stated on the approved permit will result in shut-dow the work. The Contractor will be required to safely restore facility condition allow traffic flow at their expense. The Contractor must take all steps to ac a Road and Sidewalk Closure Permit before work can re-start on site. No cl will be accepted by the Owner for costs associated with this work shut-dow	bad Failur n of ns to cquir laim
3.3	Traffic Control Personnel & Equipment	.1 The Contractor shall supply all necessary traffic control devices required to perform traffic control services for the project. Signs and traffic control devices not applying to existing conditions shall be removed. Where operations are carried out in stages, only those traffic control devices that apply to the cur stage are to be left in place.	vices e
		.2 There must be sufficient Traffic Control Persons (TCPs) on site to appropria and safely direct traffic in all sections of the Work.	tely
3.4	Signage	Supply, installation, maintenance and removal of all works-related signs shall responsibility of the Contractor. The location and type of each sign shall be incon the approved Traffic Control Plan, for each stage of the works.	
		Traffic control signs and devices must be positioned and used as specified in the Control Plan and signs and devices must be located so as to allow traffic to mov through the work area in a controlled manner and, if necessary, to come to a con stop with due regard for the prevailing weather and road conditions. Signs shall be checked daily for legibility, damage, suitability and location. Sig delineators shall be cleaned as frequently as necessary to ensure full legibili reflectance.	e by itroll
3.5	Detours	Any proposed detours must be approved by the Contract Administrator and con- in accordance with the approved Traffic Plan and the Traffic Control Manual fo on Roadways.	
3.6	Abrupt Changes in Surface Elevations	The Contractor shall minimize any abrupt changes in roadway elevation left export traffic during both working and non-working hours.	osed
		A wedge of asphalt must be used as a transition to vertical differences in travelled and have a slope of 4:1 or less.	d are
3.7	Cyclist and Pedestrian Access	The Contractor shall make provision for pedestrians, wheel chairs and bicycles t safe access across the work zone at all times. If this cannot be readily accommon then acceptable detours and appropriate signs shall be provided.	
3.8	Temporary Pavement Markings	The Contractor shall be responsible for the application and removal of all tem pavement markings and reflective devices. All temporary markings must be removed after installation of permanent marki	
4.0	TRAFFIC RESTRICTIONS	. , C	5.
4.1	Road and Sidewalk Closure Permits	.1 Minimum of Single Lane Alternating Traffic must be accommodated at all ti If necessary and only at the discretion of the Contract Administrator, Local Only may also be approved.	

	ic Management Detail fications	
Contr	ract 21-042	Traffic Management TMP 2
		.2 A Road and Sidewalk Closure Permit is required for each instance of closure an will be valid for a maximum period of one (1) week and, if still necessary, resubmittal of a Road and Sidewalk Closure Request is required.
		A copy of the approved Road and Sidewalk Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.
		.3 Total Road Closure Is Not Permitted.
		.4 Detours will only be permitted as approved by the Contract Administrator and must have a complete Traffic Control Plan indicating detour route, signing, and duration. Detours will not be allowed without sufficient lead time for commercial and retail operation to react appropriately to detour information provided to them.
4.2	Lane Closure Restrictions	 .1 For each of the road sections affected: Road and Sidewalk Closures will be reviewed for appropriateness during the allowable hours of work. 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 safe 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 Some allowances may be made for paving operations, depending on a proposal acceptable to the Contract Administrator.
		 .3 Line Marking work may be performed at night, (21:00 to 05:00). No work is allowed on Sundays without specific written permission from Contra 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 ca be found under Residents, Transit & Transportation, Trucking Routes .
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	The City will not control or direct traffic control activities of the Contractor, but may require an immediate stop to any work where, in the sole opinion of the Contract Administrator, the provided traffic management plan is ineffective. Contractor is responsible for the costs associated with this work shut-down.

	ic Management Detail fications			
Cont	ract 21-042	Traffic Management	TMP 5	
6.4	Construction Activity and Signage	The Contractor will be responsible to place other construction information signs as required to inform the public of construction activities, and ensure safe travel through the work site.		
6.5	Construction Zone Information Signs	 The Contractor is required to provide, one week prior to start of wo duration of the Contract, stationary signs to inform traffic of existing conditions at the following locations: Exact locations to be determined on site by Contract Adm Ensure that signs and locations are addressed in the Traffic Manage signs are to be removed at the end of the construction period. 	g and anticipated inistrator	
		Construction Zone Information Signs to follow specifications belov	v :	
	<i>1</i> 5")	ngs (min. size, Black background RKING LOT Orange bac (reflective, grade sticke	diamond	

Black letterings (min. size:

White background

(reflective,

diamond grade

Black letterings (min. size,

IMPROVEMENT

.ANSDOWNE DR:

EXPECT DELAYS

1.2m

Contractor:

Contact No. : ____

Contact Person:

Spring – Summer 2021

1.2m

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

Black letterings

ontract 21-042			
		Traffic Manageme	nt TMP
		APPENDIX 1	
			City of Coquitlam
CoQuitlam	Ro	ad and Sidewa	lk Closure Permit Request
			Traffic Operations Division 3000 Guildford Way, Coquitlam BC V3B 7N2 Phone: 604-927-6250 Fax: 604-927-6255 Email: trafficoperations@coquitlam.ca
Submit to the Traffic Operati	ons Division a minimu	m of 5 business days prior	to the intended closure date.
Perm it Fee - \$75.00 (Effective 		ayment Methods – After re nailed to the applicant.	view, and if approved, payment options will be
Application Date:	Ci	ty Project Number (if appli	icable):21
Contact Information			
Company Name:			
Applicant Name:			
Name of Contractor doing wo	ork for Company/Appli	cant:	
24 Hour Emergency Phone: _		Email:	
Location, date and time, a	and traffic control pla	an information	
request approval to close (cl	heck all that apply): Dir	rection: 🗆 Northbound 🛛	Southbound 🗆 Eastbound 🗆 Westbound
🗆 Curb/Outside Lane 🛛 Ce	entre/Inside Lane 🛛 I	Right Turn Lane 🛛 Left T	urn Lane 🗆 Cycling Lane 🗆 Sidewalk
□ Single Lane Alternating Tra		0	, ,
· ·			
Road/Street Name:			
Location Description:			
Date & Time Information:	Dates:	Starting	Ending
	Hours:		
		Starting	Ending
Purpose:			

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

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

Traffic Management

Traffic Control Plan*:

(a) Traffic Management Manual for Work on Roadways Figure Number ______, or
(b) A Traffic Control Plan (attach separately) indicating signage, taper lengths, direction of traffic, work area, and north arrow

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

* Important Notice: All operations within the road right-of-way must comply with Worksafe BC regulations and BC Ministry of Transportation standards for work on roadways.

Application Checklist

Permit Fee

- Prime Contractor Designation Letter
- City of Coquitlam Certificate of Insurance
- Traffic Control Plan or Traffic Management Manual for Work on Roadways Figure Number
- Coast Mountain Bus Company (Phone: 778-593-5774 | Email: <u>special.events@coastmountainbus.com</u>) contacted regarding impact to bus routes and bus stops
- □ City of Coquitlam Environmental Services Group (Phone: 604-927-3500| Email: <u>wastereduction@coquitlam.ca</u> contacted regarding impact to garbage/recycling routes and pick up

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

Date

Applicant Signature

Office Use Only PERMIT STATUS						
D Permit Fee	Prime Contractor Letter	Certificate of Insurance				
Traffic Control Plan	□ Impact to bus service	Impact garbage and recycling collection				
Request is denied for the for	ollowing reason(s):					
Request is approved with t	he following change(s):					
Request is approved as submitted						

-	-

Traffic Technologist or Designate