



Request for Proposals
For
MARINE DRIVE HUMP
RETAINING WALL STABILIZATION
Construction Contract

Request for Proposals No.: WR20-007

Issued: February 3, 2020

Submission Deadline: February 28, 2020 2:00pm local time

Location: City of White Rock
Engineering and Municipal Operations Department
877 Keil Street, White Rock, BC V4B 4V6

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PART 1 – REQUEST FOR PROPOSALS AND SUBMISSION INSTRUCTIONS

1.1 Request for Proposals

This Request for Proposals (the “**RFP**”) by the City of White Rock (the “**City**”) is to prospective Proponents (“**Proponents**”) to submit Proposals for the Marine Drive Hump Retaining Wall Stabilization Construction Contract, as further described in the work specifications in Appendix C (the “**Work**”). This work is intended to provide long-term support to two sections of Marine Drive to meet City of White Rock requirements, which includes steel pipe pile installation, reinforced concrete grade beam construction, road subgrade and structure rehabilitation, sidewalk with curb reinstatement and associated works. The two sections of Marine Drive being stabilized are referred to as West Stabilization Area and the East Stabilization Area. The West Stabilization Area work limits will be an approximately 50 m long section of road from 15245 to 15259 Marine Drive. The West Stabilization work limits will be an approximately 70 m long section of road from 15345 to 15377 Marine Drive.

It is important to note that the lowest or any Proponents will not necessarily be accepted, and the City will not be responsible for any cost incurred by the Proponents in preparing the RFP. The City of White Rock reserves the right to reject any or all Proponents, and to waive informalities in any or all Proponents.

1.1.1 Definitions

In this RFP, the following definitions apply:

- .1 “**Bid Bond**” means the security to accompany the Proposal as required by Section 1.6.8 of this RFP;
- .2 “**Closing**” means the Submission Deadline;
- .3 “**Contract**” means the contract described in Section 1.3 of this RFP;
- .4 “**Contractor**” means the successful Proponent who enters into a Contract with the City;
- .5 “**Proponent**” means a proponent submitting a Proposal;
- .6 “**Proposal**” means a Proposal submitted in response to the RFP in accordance with Section 1.6 of this RFP;
- .7 “**Proposal Price**” means the total monetary sum identified by the Proponent the Submission Form;
- .8 “**RFP**” means this Request for Proposals;
- .9 “**RFP Contact**” means the person identified in Section 1.2 of this RFP or their successor;
- .10 “**RFP Documents**” means this RFP and all appendices and addenda;
- .11 “**Submission Deadline**” has the meaning described in Section 1.5 of this RFP;

- .12 “**Submission Form**” means the Submission Form described in Section 1.6.1 of this RFP;
- .13 “**Work**” means the Marine Drive stabilization work and specifications described in Appendix C of this RFP.

1.1.2 RFP Documents and Due Diligence

- .1 RFP Documents are made available only for the purpose of obtaining Proposals for this RFP. Their use does not confer a license or grant for other purposes.
- .2 Upon receipt of RFP Documents, verify that documents include all pages and attachments indicated by the Table of Contents. Notify RFP Contact should the documents be incomplete.
- .3 The Proponent is required to satisfy itself by personal examination of the place of the Work and of the RFP Documents as to the provisions of the Contract, and to fully inform itself prior to submitting a Proposal regarding the conditions and limitations under which the Work is to be performed, the conditions which may be encountered, the materials that the Contractor will be required to supply, and other materials which are required in carrying out the Contract to a satisfactory conclusion. No claims will be entertained based on any assertion by the Proponent that the Proponent was not aware of the provisions or conditions intended to be covered by the Contract.

1.1.3 Resolution of Discrepancies and Ambiguities

- .1 If a Proponent finds discrepancies in, or omissions from the RFP Documents, or if a Proponent is in doubt as to their meaning, the Proponent should contact the RFP Contact immediately in writing. Should addenda to the RFP Documents be required for any reason, it is the City’s intention not to issue addenda during a period three days prior to the Submission Deadline. All addenda become part of the Contract. Proponents should include adjustment costs in the Proposal Price.
- .2 Requests for clarification must be in writing and received by the RFP Contact six (6) business days before the date of Closing.
- .3 No oral interpretations will be effective to modify the provisions of the Proposal or Contract.

1.2 RFP Contact

For the purposes of this RFP process, the City’s contact person (the “**RFP Contact**”) will be:

Cory Schentag, EIT – Staff Geotechnical Engineer, GeoWest Engineering Ltd.
E-Mail: cschentag@geowestengineering.com

Proponents and their representatives are not permitted to contact any employees, officers, agents, elected or appointed officials or other representatives of the City, other than the RFP Contact, concerning matters regarding this RFP. Failure to adhere to this rule may result in the disqualification of the Proponent and the rejection of the Proponent’s Proposal.

1.3 Type of Contract for Work

The successful Proponent will be required to enter into a CCDC 4 – 2011 Unit Price Contract with the City for the provision of the Work which shall include the supplementary terms and conditions detailed in Appendix A to this RFP along with all addenda (the “**Contract**”). It is the City’s intention to enter into the Contract with only one (1) legal entity. The term of the Contract is anticipated to be for a period of approximately four (4) months commencing on or about March 6, 2020, with substantial completion on or before June 12, 2020 and total completion of the work on or before June 30, 2020.

1.4 Type of Specifications

Design and construction specifications for the work are provided in GeoWest Engineering Ltd. Design Drawings (Issued for Tender– Rev 1 – Jan 31, 2020) as listed in Appendix C. The Design Drawings reference specifications from the Master Municipal Construction Documents (“MMCD”) Platinum Edition, printed 2009. Copies of MMCD Specifications and Standard Details Drawings which are contained in the publication, have not been included with the Tender package. The MMCD (Platinum Edition printed 2009) can be purchased from Support Service Unlimited, Suite 302, 1107 Homer Street, Vancouver, BC V6B 2Y1, telephone: 604-681-0295.

Work specifications that are supplementary to MMCD specifications for this project refer to Appendix C.

1.5 RFP Timetable

The timetable for this RFP consists of the following events, dates and times.

Issue Date of RFP	February 3, 2020
Mandatory RFP Presentation and Site Visit	February 14, 2020
Deadline for Questions	February 20, 2020
Deadline for Issuing Addenda	February 25, 2020
Submission Deadline	February 28, 2020
Anticipated Execution Date for Contract	March 6, 2020
End Date of Irrevocability Period for Proposals	April 28, 2020
Target Substantial Completion Date	June 12, 2020
Target Total Completion Date	June 30, 2020

The RFP timetable is tentative only and may be changed by the City at any time.

1.5.1 Mandatory RFP Presentation and Site Visit

All Proponents will be required to attend the mandatory RFP presentation and site visit. Interested Proponents must meet at the Operations Meeting Room located at 877 Keil Street, White Rock, British Columbia on February 14th, 2020 at 1:00 PM local time. Each Proponent is permitted to have a maximum of two (2) representatives attend at the RFP presentation and site visit.

1.6 Submission of Proposals

Proposals submitted in response to this RFP must be in accordance with this section.

1.6.1 Proposals to be submitted in Prescribed Form

- .1 Proposals must be submitted in the Submission Form attached as Appendix B along with all schedules consisting of:

Schedule A: Proponent's Experience, Reputation and Qualifications

Schedule B: Proponent's Work Plan and Methodology

Schedule C: Proponent's Work Schedule

Schedule D: Proponent's Pricing for Work

Schedule E: Proponent's Pricing for Additions and Deletions

(the "Proposal").

Other than inserting the information requested on the mandatory Submission Form set out in this RFP, a Proponent may not make any changes to any of the forms. Any Proposal containing any such changes, whether on the face of the form or elsewhere in the Proposal, may be disqualified.

- .2 Proposals shall be typewritten or made in ink. Penciled entries or changes will not be considered.
- .3 Proposals shall be in Canadian dollars and shall include all labour, material, freight, customs, and excise duties, and all applicable municipal, provincial and federal taxes, except GST, in effect on the date of Closing. The cost of bonding should be listed as an individual item and included in the Proposal Price.
- .4 Proposals shall be for the entire Work described in this RFP, including inspection and testing by qualified independent agencies as specified.
- .5 Proposals shall be firm for the duration of the Contract, and be unaffected by escalations in costs of wages and materials.
- .6 Proposals shall be executed under seal by the hands of the Proponent's duly authorized officers. The City may require proof of authority to execute the Proposal, in the form of a certified copy of a resolution naming the person or persons in question as authorized to sign the Proposal for and on behalf of the corporation or partnership.
- .7 The successful Proponent must obtain all necessary permits and the cost of permits shall be to the Contractor's account.
- .8 The successful Proponent is required to obtain a City of White Rock business license prior to commencement of Work.

1.6.2 Proposals to be Submitted at Prescribed Location

Proposals must be submitted at:

City of White Rock
Engineering and Municipal Operations Department
877 Keil Street
White Rock, British Columbia, V4B 4V6
Attention: Rosaline Choy, Manager of Engineering

1.6.3 Proposals to be Submitted on Time

Proposals must be submitted at the location set out above on or before the Submission Deadline. Proposals submitted after the Submission Deadline will be rejected. Onus and responsibility rest solely with the Proponent to deliver its Proposal to the exact location (including floor, if applicable) indicated in this RFP on or before the Submission Deadline. The City does not accept any responsibility for Proposals delivered to any other location by the Proponent or its delivery agents. Proponents are advised to make submissions well before the Submission Deadline. Proponents making submissions near the Submission Deadline do so at their own risk.

Proponents are advised to allow at least 48 hours to ensure Proposals are delivered on time. The City assumes no responsibility for any failure by a Proponent to submit a Proposal in accordance with this RFP.

1.6.4 Proposals to be Submitted in Prescribed Format

Proponents must submit three (3) hard copies and one (1) electronic copy consisting of a single PDF file on USB, enclosed in a sealed package. If there is a conflict or inconsistency between the hard copy and the electronic copy of the Proposal, the hard copy of the Proposal will prevail. Proposals should be prominently marked with the RFP title and number (see RFP cover page), with the full legal name and return address of the Proponent.

1.6.5 Amendment of Proposals

Proponents may amend their Proposals prior to the Submission Deadline by submitting the amendment in a sealed package prominently marked with the RFP title and number and the full legal name and return address of the Proponent to the location set out above. Any amendment should clearly indicate which part of the Proposal the amendment is intended to amend or replace. Amended Proposals should also be submitted in the number and format described in section 1.6.4 above.

1.6.6 Withdrawal of Proposals

Proponents may withdraw their Proposals prior to the Submission Deadline. To withdraw a Proposal, a notice of withdrawal must be sent to the RFP Contact prior to the Submission Deadline and must be signed by an authorized representative of the Proponent. The City is under no obligation to return withdrawn Proposals.

1.6.7 Proposals Irrevocable after Submission Deadline

Proposals shall be irrevocable for a period of 60 days running from the moment that the Submission Deadline passes.

1.6.8 Bonding Requirements for Proposals

- .1 Each Proposal shall be accompanied by security in the form of a Bid Bond in the amount of 10% of the Proposal Price, made payable to the City. The Bid Bond shall be with a Surety company licensed to transact business in the Province of British Columbia.
- .2 Submit with the Bid Bond a Consent of Surety stating that the surety company providing the Bid Bond is willing to supply the Performance Bond and Labour and Materials Payment Bond required.
- .3 The Bid Bond will be returned after delivery to the City of the required Performance Bond and Labour and Materials Payment Bond by the accepted Proponent.
- .4 The security of unsuccessful Proponents will be returned without interest within 90 days from the date of Closing.
- .5 If any Proponent withdraws its Proposal after the Closing time on the stipulated date and before or after receiving notification that its Proposal has been accepted by the City or if the accepted Proponent fails to execute the Contract or to Issue provide the bonds required herein when called upon to do so, its security shall be forfeited, without recourse and without limiting the City's other legal rights and remedies against that Proponent.

1.6.9 Bonding Requirements for Successful Proponent

The accepted Proponent shall furnish a Performance Bond and Labour and Materials Payment Bond in accordance with the following:

- .1 The accepted Proponent shall provide a Performance Bond and a Labour and Material Payment Bond each in the amount of 50% of the Contract Price.
- .2 These bonds must be provided within ten (10) days of Contract award and must be maintained in good standing until the fulfillment of the Contract including the requirements of the warranty as provided for in GC 24 - Warranty and the payment of all obligations arising under the Contract. Should the accepted Proponent fail to provide these required bonds the Bid Bond may be forfeited.
- .3 All such bonds shall be issued on a form approved by the Insurance Bureau of Canada and issued by a duly licensed Surety authorized to transact business in the province or territory of the Place of the Work and shall be maintained in good standing until the fulfillment of the Contract.
- .4 The costs attributed to providing such bonds shall be included in the Bid Price.
- .5 The obligee on the bonds shall be the City of White Rock.

1.6.10 Alternative Products or Materials

If, for any reason, the Proponent should propose to use alternative products or materials which, in the Proponent's opinion, would improve the Work or reduce the cost of the Work, the Proponent shall:

- .1 Base a first Proposal on the exact requirements of the Proposal Documents;
- .2 Submit a second Proposal describing in full detail the different products or materials the Proponent is proposing and the reasons for the proposed substitution;
- .3 The second Proposal shall provide sufficient information to enable the Owner to determine acceptability of the proposed substitution(s) and include complete information, including the dollar amount of additions to or reductions from the Proposal Price, of required revisions to other Work to accommodate each substitution. A later claim by the Proponent for an addition to the Contract Price because of changes in the Work necessitated by use of alternative or substitute Products will not be considered.

The Owner may accept or reject any such proposal, without explanation.

1.7 Proposal Openings

1.7.1 Private Opening of Proposals

Proposals will be opened in private after the Closing.

1.7.2 Disqualification of Proposals

- .1 Proposals which are incomplete, conditional, illegible or obscure, or that contain additions not called for, reservations, erasures, alterations or irregularities of any kind, may be rejected.
- .2 Proposals not accompanied by a completed Submission Form, Bid Bond, Bid Deposit and Consent of Surety as specified herein may be rejected.
- .3 Proposals may be rejected if the pricing for Work appears to be so unbalanced that it may adversely affect the interest of the City.
- .4 Proposals may be rejected if they are based on an unreasonable period of time for the completion of the Work.

[END OF PART 1]

PART 2 – EVALUATION AND AWARD

2.1 Evaluation Criteria

The evaluation of Proposals will be undertaken on behalf of the City by an evaluation team. The evaluation team may consult with others, including City staff members, third-party contractors and references, as the evaluation team may in its discretion decide is required.

The evaluation team will compare and evaluate all Proposals to determine each Proponent's strength and ability to provide the goods or services in order to determine the Proposal which is most advantageous to the City, using the following criteria:

- (a) Experience, Reputation and Qualifications;
- (b) Work Plan and Methodology;
- (c) Work Schedule; and
- (d) Pricing for Work.

The evaluation team will not be limited to the criteria referred to above, and may consider other criteria that the team identifies as relevant during the evaluation process. All criteria considered by the evaluation team will be applied evenly and fairly to all Proposals. The evaluation team may apply the evaluation criteria on a comparative basis, evaluating the Proposals by comparing one Proponent's Proposal to another Proponent's Proposal.

With respect to financial criteria, Proposals will be evaluated on the basis of which Proposal will provide the best overall value to the City.

2.1.1 Clarifications and Additional Information

The evaluation team may, at its discretion, request clarifications or additional information from a Proponent with respect to any Proposal, and the evaluation team may make such requests to only selected Proponents. The evaluation team may consider such clarifications or additional information in evaluating a Proposal.

2.1.2 Appearance Before Evaluation Team to Provide Clarifications

The evaluation team may, at its discretion, invite some or all of the Proponents to appear before the evaluation team to provide clarifications of their Proposals. In such event, the evaluation team will be entitled to consider the answers received in evaluating Proposals.

2.1.3 No Disclosure of Evaluations

No totals, weights, prices, scores or other evaluation information or data will be provided to any Proponent.

2.1.4 Representations of Proponents

By submitting a Proposal, a Proponent is representing that it has the qualifications, experience, knowledge, skills and abilities necessary for the fulfillment of the Contract, and that all components, labour, materials and equipment required to undertake the Work or to provide the goods or services

have been identified in the Proposal or will be provided by the Proponent and are included in Proposal price.

2.1.5 Completeness of Proposal

Proponents will be deemed to have carefully examined this RFP, including all attached schedules and appendices and any addenda, prior to preparing and submitting a Proposal with respect to any and all facts which may influence a Proposal.

2.1.6 Lowest Proposal Price Not Determinant

Without limiting its rights under this RFP and for greater certainty, the lowest Proposal Price or any Proposal will not necessarily be accepted. Because maintaining schedule for this project is critical, a Proponent's demonstrated capabilities in executing the Work may be of greater importance to the City than the Proposal Price. The City reserves the right to reject any or all Proposals or to accept any Proposal should it be deemed in the interest of the City to do so.

2.2 Notice to Proponent and Execution of Contract

Notice of selection by the City to the selected Proponent shall be in writing. Upon notification, the City and the Proponent will execute the Contract in the form set out in Section 1.3 of this RFP in accordance with the terms of this RFP.

2.3 Failure to Enter into Contract

If a selected Proponent fails to execute the Contract or satisfy any applicable conditions within ten (10) days of notice of selection, the City may, without incurring any liability and without limiting its other legal rights and remedies against the selected Proponent, withdraw the selection of that Proponent and proceed with the selection of another Proponent.

[END OF PART 2]

PART 3 – TERMS AND CONDITIONS OF THE RFP PROCESS

3.1 General Information and Instructions

3.1.1 RFP Incorporated into Proposal

All of the provisions of this RFP are deemed to be accepted by each Proponent and incorporated into each Proponent's Proposal. A Proponent who submits conditions, options, variations or contingent statements to the terms as set out in this RFP, including the supplementary conditions of the Contract in Appendix A, either as part of its Proposal or after receiving notice of selection, may be disqualified. If a Proponent is not disqualified despite such changes or qualifications, the provisions of this RFP, including the supplementary conditions of the Contract set out in Appendix A, will prevail over any such changes or qualifications in the Proposal.

3.1.2 Proponents to Follow Instructions

Proponents should structure their Proposals in accordance with the instructions in this RFP. Where information is requested in this RFP, any response made in a Proposal should reference the applicable section numbers of this RFP.

3.1.3 Proposals in English

All Proposals are to be in English only.

3.1.4 No Incorporation by Reference

The entire content of the Proponent's Proposal should be submitted in a fixed form, and the content of websites or other external documents referred to in the Proponent's Proposal but not attached will not be considered to form part of its Proposal.

3.1.5 References and Past Performance

In the evaluation process, the City may include information provided by the Proponent's references and may also consider the Proponent's past performance or conduct on previous contracts with the City or other institutions.

3.1.6 Information in RFP Only an Estimate

The City and its advisers make no representation, warranty or guarantee as to the accuracy of the information contained in this RFP or issued by way of addenda. Any quantities shown or data contained in this RFP or provided by way of addenda are estimates only, and are for the sole purpose of indicating to Proponents the general scale and scope of the Work. It is the Proponent's responsibility to obtain all the information necessary to prepare a Proposal in response to this RFP.

3.1.7 Proponents to Bear Their Own Costs

The Proponent will bear all costs associated with or incurred in the preparation and presentation of its Proposal, including, if applicable, costs incurred for interviews or demonstrations.

3.1.8 Proposal to be Retained by the City

The City will not return the Proposal, or any accompanying documentation submitted by a Proponent.

3.1.9 Exclusivity of Contract

The Contract will not be an exclusive contract for the provision of the described Work. The City may contract with others for goods and services the same as or similar to the Work or may obtain such goods and services internally.

3.1.10 Sub-Contracting

Proponents may use sub-contractors for the Work, subject to the following:

- (a) Use of a sub-contractor (who should be clearly identified in the Proposal) is acceptable. This may include a joint submission by two (2) Proponents that are not affiliated and have no formal corporate links; however, in such case, one of these Proponents should be prepared to take overall responsibility for successful performance of the Contract and this should be clearly defined in the Proposal.
- (b) Sub-contracting to any firm or individual whose current or past corporate or other interests may, in the City's opinion, give rise to a conflict of interest in connection with this RFP will not be permitted. This includes, but is not limited to, any firm or individual involved in the preparation of this RFP.
- (c) Where applicable, the names of approved sub-contractors listed in the Proposal will be included in the Contract. No additional sub-contractors will be added, nor other changes made to this list in the Contract, without the written consent of the City.

3.1.11 Contract Subject to Applicable Permits and Licences

Neither acceptance of a Proposal nor execution of a Contract will constitute approval by the City of any activity or development contemplated in any Proposal that requires any approval, permit or license pursuant to any federal, provincial, regional district or municipal statute, regulation or by-law.

3.2 Communication After Issuance of RFP

3.2.1 Proponents to Review RFP

Proponents shall promptly examine all of the RFP Documents and

- (a) shall report any errors, omissions or ambiguities; and
- (b) may direct questions or seek additional information

in writing by email to the RFP Contact on or before the Deadline for Questions. All questions or comments submitted by Proponents by email to the RFP Contact shall be deemed to be received once the email has entered into the RFP Contact's email inbox. No such communications are to be directed to anyone other than the RFP Contact, and the City shall not be responsible for any information provided by or obtained from any source other than the RFP Contact. The City is under no obligation

to provide additional information. It is the responsibility of the Proponent to seek clarification from the RFP Contact on any matter it considers to be unclear. The City shall not be responsible for any misunderstanding on the part of the Proponent concerning this RFP or its process.

3.2.2 All New Information to Proponents by Way of Addenda

This RFP may be amended only by addendum in accordance with this section. If the City, for any reason, determines that it is necessary to provide additional information relating to this RFP, such information will be communicated to all Proponents by addenda. Should the City issue an addendum, it will be posted only on the BCBid website. Each addendum forms an integral part of this RFP and may contain important information, including significant changes to this RFP. Proponents are responsible for obtaining all addenda issued by the City. In the Submission Form (Appendix B), Proponents should confirm their receipt of all addenda by setting out the number of each addendum in the space provided.

3.2.3 Post-Deadline Addenda and Extension of Submission Deadline

If the City determines that it is necessary to issue an addendum after the Deadline for Issuing Addenda, the City may extend the Submission Deadline for a reasonable period of time.

3.2.4 Verify, Clarify and Supplement

When evaluating Proposals, the City may request further information from the Proponent or third parties in order to verify, clarify or supplement the information provided in the Proponent's Proposal. The response received by the City shall, if accepted by the City, form an integral part of the Proponent's Proposal.

3.3 Notification and Debriefing

3.3.1 Notification of Successful Proponent and Execution of Contract

- .1 The successful Proponent shall be notified by the City of its successful Proposal and upon notification, will be required to execute the Contract and provide a Performance Bond and Labour and Materials Payment Bond within ten (10) days of notification in accordance with the requirements of this RFP and the Contract Documents.
- .2 The successful Proponent shall provide confirmation of insurance from an approved company stating that the Proponent is insured as required by the General and Supplementary Conditions.

3.3.2 Notification to Other Proponents

Once the Contract is executed by the City and a Proponent, the other Proponents shall be notified by public posting, in the same manner that this RFP was originally posted, of the outcome of the procurement process on the BCBid website.

3.3.3 Debriefing

Proponents may request a debriefing after receipt of a notification of the outcome of the procurement process. All requests must be in writing to the RFP Contact and must be made within thirty (30) days of such notification.

3.3.4 Procurement Protest Procedure

If a Proponent wishes to challenge the RFP process, it should provide written notice to the RFP Contact in accordance with the City's procurement protest procedures and any applicable trade agreement or other applicable Proposal protest procedures. The notice must provide a detailed explanation of the Proponent's concerns with the procurement process or its outcome.

3.4 Conflict of Interest and Prohibited Conduct

3.4.1 Conflict of Interest

For the purposes of this RFP, a conflict of interest ("Conflict of Interest") includes, but is not limited to, any situation or circumstance where:

- (a) in relation to the RFP process, the Proponent has an unfair advantage or engages in conduct, directly or indirectly, that may give it an unfair advantage, including but not limited to (i) having, or having access to, confidential information of the City in the preparation of its Proposal that is not available to other Proponents, (ii) communicating with any person with a view to influencing preferred treatment in the RFP process (including but not limited to the lobbying of decision makers involved in the RFP process), or (iii) engaging in conduct that compromises, or could be seen to compromise, the integrity of the open and competitive RFP process or render that process non-competitive or unfair; or
- (b) in relation to the performance of its contractual obligations contemplated under a contract for the Work, the Proponent's other commitments, relationships or financial interests (i) could, or could be seen to, exercise an improper influence over the objective, unbiased and impartial exercise of its independent judgement, or (ii) could, or could be seen to, compromise, impair or be incompatible with the effective performance of its contractual obligations.

3.4.2 Disqualification for Conflict of Interest

The City may disqualify a Proponent for any conduct, situation or circumstances, determined by the City, in its sole and absolute discretion, to constitute a Conflict of Interest as defined above.

3.4.3 Disqualification for Prohibited Conduct

The City may disqualify a Proponent, rescind a notification of selection or terminate a contract subsequently entered into if the City determines that the Proponent has engaged in any conduct prohibited by this RFP.

3.4.4 Prohibited Proponent Communications

Proponents must not engage in any communications that could constitute a Conflict of Interest and should take note of the Conflict of Interest declaration set out in the Submission Form (Appendix B).

3.4.5 Proponent Not to Communicate with Media

Proponents must not at any time directly or indirectly communicate with the media in relation to this RFP or any Contract or other agreement entered into pursuant to this RFP without first obtaining the written permission of the RFP Contact.

3.4.6 No Lobbying

Proponents must not, in relation to this RFP or the evaluation and selection process, engage directly or indirectly in any form of political or other lobbying whatsoever to influence the selection of the successful Proponent(s).

3.4.7 Illegal or Unethical Conduct

Proponents must not engage in any illegal business practices, including activities such as bid-rigging, price-fixing, bribery, fraud, coercion or collusion. Proponents must not engage in any unethical conduct, including lobbying, as described above, or other inappropriate communications; offering gifts to any elected officials, employees, officers, agents, elected or appointed officials or other representatives of the City; deceitfulness; submitting Proposals containing misrepresentations or other misleading or inaccurate information; or any other conduct that compromises or may be seen to compromise the competitive process provided for in this RFP.

3.4.8 Past Performance or Past Conduct

The City may prohibit a supplier from participating in a procurement process based on past performance, previous or current legal proceedings against the City, or based on inappropriate conduct in a prior procurement process, including but not limited to the following:

- (a) illegal or unethical conduct as described above;
- (b) the refusal of the supplier to honour submitted pricing or other commitments; or
- (c) any conduct, situation or circumstance determined by the City, in its sole and absolute discretion,

to have constituted a Conflict of Interest.

3.5 Confidential Information

3.5.1 Confidential Information of the City

All information provided by or obtained from the City in any form in connection with this RFP either before or after the issuance of this RFP

- (a) is the sole property of the City and must be treated as confidential;
- (b) is not to be used for any purpose other than replying to this RFP and the performance of the Contract;
- (c) must not be disclosed without prior written authorization from the City; and

- (d) must be returned by the Proponent to the City immediately upon the request of the City.

3.5.2 Confidential Information of Proponent

A Proponent should identify any information in its Proposal or any accompanying documentation supplied in confidence for which confidentiality is to be maintained by the City. The confidentiality of such information will be maintained by the City, except as otherwise required by law or by order of a court or tribunal. Proponents are advised that their Proposals will, as necessary, be disclosed, on a confidential basis, to advisers retained by the City to advise or assist with the RFP process, including the evaluation of Proposals. If a Proponent has any questions about the collection and use of personal information pursuant to this RFP, questions are to be submitted to the RFP Contact.

3.6 Reserved Rights and Limitation of Liability

3.6.1 Reserved Rights of the City

The City reserves the right to:

- (a) make public the names of any or all Proponents;
- (b) make changes, including substantial changes, to this RFP provided that those changes are issued by way of addendum in the manner set out in this RFP;
- (c) request written clarification or the submission of supplementary written information in relation to the clarification request from any Proponent and incorporate a Proponent's response to that request for clarification into the Proponent's Proposal;
- (d) assess a Proponent's Proposal on the basis of: (i) a financial analysis determining the actual cost of the Proposal when considering factors including quality, service, price and transition costs arising from the replacement of existing goods, services, practices, methodologies and infrastructure (howsoever originally established); and (ii) in addition to any other evaluation criteria or considerations set out in this RFP, consider any other relevant information that arises during this RFP process;
- (e) waive formalities and accept Proposals that substantially comply with the requirements of this RFP;
- (f) verify with any Proponent or with a third party any information set out in a Proposal;
- (g) check references other than those provided by any Proponent;
- (h) disqualify a Proponent, rescind a notice of selection or terminate a contract subsequently entered into if the Proponent has engaged in any conduct that breaches the process rules or otherwise compromises or may be seen to compromise the competitive process;
- (i) select a Proponent that the City considers provides the best value to the City and other than the Proponent whose Proposal reflects the lowest cost to the City;
- (j) cancel this RFP process at any stage in whole or in part at any time for any reason; or reject any or all Proposals;

- (k) issue another request for Proposals for the same or similar Work or on the same or different terms, sole source the Contract to anyone, or do nothing further, without liability to any Proponent or non-Proponent;
- (l) enter into discussion with one or more of the Proponents without such discussions in any way creating a binding contract between the City and any such Proponent;
- (m) negotiate changes to the scope of Work with any one or more Proponents without having any duty or obligation to advise any or all other Proponents;
- (n) change the date to accept a Proposal; or
- (o) accept any Proposal in whole or in part.

and these reserved rights are in addition to any other express rights or any other rights that may be implied in the circumstances.

3.6.2 Limitation of Liability

By submitting a Proposal, each Proponent agrees that

- (a) neither the City nor any of its employees, officers, agents, elected or appointed officials, advisors or representatives will be liable, under any circumstances, for any claim arising out of this RFP process including but not limited to costs of preparation of the Proposal, loss of profits, loss of opportunity or for any other claim; and
- (b) the Proponent waives any right to or claim for any compensation of any kind whatsoever, including claims for costs of preparation of the Proposal, loss of profit or loss of opportunity by reason of the City's decision not to accept the Proposal submitted by the Proponent, to enter into the Contract or another agreement with any other Proponent or to cancel this procurement process, and the Proponent shall be deemed to have agreed to waive such right or claim.

3.6.3 Contract subject to Financing, Council Approval and Applicable Enactments

Award of the Contract is subject to available financing by the City, the approval of the City's municipal council and the City's compliance with all applicable enactments.

3.7 Governing Law and Interpretation

These Terms and Conditions of the RFP Process in this Part 3:

- (a) are intended to be interpreted broadly and independently (with no particular provision intended to limit the scope of any other provision);
- (b) are non-exhaustive and shall not be construed as intending to limit the pre-existing rights of the City; and
- (c) are to be governed by and construed in accordance with the bylaws of the City, the laws of the province of British Columbia and the federal laws of Canada applicable therein.

[END OF PART 3]

APPENDIX A – SUPPLEMENTARY CONDITIONS OF THE CONTRACT

SUPPLEMENTARY GENERAL CONDITIONS OF THE UNIT PRICE CONTRACT

CCDC 4 - 2011

For this Contract, the Owner will use the Canadian Construction Documents Committee, Standard Construction Document CCDC 4 Unit Price Contract – 2011 for the duration of this Contract with amendments as noted in the sections below.

These Supplementary Conditions presuppose the use of the CCDC 4 Unit Price Contract – 2011. These “Supplementary Conditions” void, supersede or amend the applicable provisions of the standard form CCDC 4 Unit Price Contract – 2011 “Agreement”, “Definitions” and “General Conditions”, as the case may be, as hereinafter provided.

ARTICLE A-3 CONTRACT DOCUMENTS

Add article A-3.2 to provide as follows:

“3.2 The *Contractor* acknowledges that it has reviewed and satisfied itself as to the *Contract Documents*, including without limitation, the plans, specifications and other materials referred to in this Article, and all other materials it desires, prior to execution of this *Contract*.”

ARTICLE A-5 PAYMENT

Revise the article A-5.3.1 to provide as follows:

“5.3.1 Should either party fail to make payments as they become due under the terms of the *Contract* or in an award by arbitration or court, interest at the following rates on such unpaid amounts shall also become due and payable until payment:

- (1) 0% per annum above the prime rate for the first 60 days.
- (2) 0% per annum above the prime rate after the first 60 days.

Such interest shall be compounded on a monthly basis. The prime rate shall be the rate of interest quoted by Bank of Canada for prime business loans as it may change from time to time.”

Retitle Article A-7 as follows:

ARTICLE A-7 ADDITIONAL PROVISIONS

Add the following articles 7.3, 7.4 and 7.5 to Article A-7

“7.3 The Contractor acknowledges that the Owner, in the preparation of the Contract Documents, supply of oral or written information to *Tenderers*, review of *Tenders* or the carrying out of the *Owner's* responsibilities under the *Contract* does not owe a duty of care to the *Contractor* and the *Contractor* waives for itself and its successors the right to sue the *Owner* in tort for any loss, including economic loss, damage, cost or expense arising from or connected with any error, omission or misrepresentation occurring in the preparation of the *Contract Documents*, supply of oral or written

information to *Tenderers*, review of tenders or the carrying out of the *Owner's* responsibilities under the *Contract*.”

“7.4 All time limits stated in this *Contract* are of the essence of the *Contract*.”

“7.5 All time limits stated in this *Contract* are of the essence of the *Contract*.”

DEFINITIONS

The following definitions are amended:

1. Consultant

Add the following sentence:

“The words “Engineer”, “Contract Administrator” or “Consultant” wherever used in the *Contract Documents* shall be regarded as synonymous.”

2. Contractor

Add the following sentence:

“For the purpose of the *Contract*, the words “*Contractor*” and “*General Contractor*” shall be regarded as synonymous.”

3. Subcontractor

Delete and replace with the following:

“A *Subcontractor* is a person, firm or corporation, which has been approved by the *Owner*, undertaking the execution of a part of the *Work* by virtue of an agreement with the *Contractor*.”

The following definitions are added to the Agreement

4. Builders Lien Act

Builders Lien Act means the *Builders Lien Act*, S.B.C. 1997, c45, as amended, and all regulations thereto, and any successor legislation in the Province of British Columbia in relation to builders liens.

5. Certificate of Completion

A *Certificate of Completion* is a certificate of completion as defined in the *Builders Lien Act*.

6. Engineer's Representative

The *Engineer's Representative* means any person authorized from time to time by the *Engineer* to perform the duties of the *Engineer* whose authority shall be notified in writing to the Contractor by the *Engineer*.

7. Final Acceptance

Final Acceptance means the *Work* has successfully passed all inspections and testing requirements at the end of the warranty period.

8. RFP

RFP means the Request for Proposals issued by the Owner for the Project dated February 3, 2020.

9. Substantial Performance of the Work

For the purpose of this Agreement, “**Substantial Performance of the Work**” will be determined based on the following formula:

The combined value of deficiencies (x3) plus the value of incomplete Works is less than the sum of the following, in reference to the total cost of the Works:

- (i) 3% of the first \$500,000.00;
- (ii) 2% of the next \$500,000.00; and
- (iii) 1% of the remaining cost.

GENERAL CONDITIONS OF THE UNIT PRICE CONTRACT

GC 1.1 CONTRACT DOCUMENTS

Add new paragraph 1.1.11 as follows:

“1.1.11 The table of contents and the headings of all the articles, paragraphs, parts and sections of any of the *Contract Documents* are provided for convenience of reference only and shall not affect the construction or interpretation of the *Contract Documents*.”

GC 2.4 DEFECTIVE WORK

Amend paragraph 2.4.1 by adding “, at the *Contractor’s* expense,” after “*Contract Documents*”.

GC 3.4 DOCUMENT REVIEW

Add new paragraph 3.4.2 as follows:

“3.4.2 Notwithstanding the foregoing, inconsistencies and omissions shall not include lack of reference on the *Drawings* or in the *Specifications* to labour and/or *Products* that are required or normally recognized within respective trade practices as being necessary for the complete execution of the *Work*.”

GC 4.2 CONTINGENCY ALLOWANCE

Delete paragraph 4.2 in its entirety.

GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER

Delete paragraph 5.1 in its entirety.

GC 5.2 APPLICATIONS FOR PROGRESS PAYMENT

Add paragraph 5.2.8 as follows:

“5.2.8 Before any payment is made by the *Owner* to the *Contractor*, the *Consultant* or the *Owner* may by written notice require that the *Contractor* furnish such further detailed information as the *Consultant* or the *Owner* may determine is necessary to establish compliance by the *Contractor* with the *Contract Documents*.”

GC 5.3 PROGRESS PAYMENT

Amend paragraph 5.3.1.2 to provide as follows:

“5.3.1.2 the *Consultant* will issue to the *Owner* and copy to the *Contractor*, no later than 30 calendar days after the receipt of the application for payment, a certificate for payment in the amount applied for, or in such other amount as the *Consultant* determines to be properly due. If the *Consultant* amends the application, the *Consultant* will promptly advise the *Contractor* in writing giving reasons for the amendment,”

Amend paragraph 5.3.1.3 to provide as follows:

“5.3.1.3 the *Owner* shall make payment to the *Contractor* on account as provided in Article A-5 of the Agreement - PAYMENT on or before 30 calendar days after the later of:
- receipt from the *Consultant* of the certificate of payment, or
- the last day of the monthly payment period for which the application for payment is made.”

Add paragraph 5.3.3 as follows:

“5.3.3 Notwithstanding any other provision of this *Agreement*, the *Owner* shall not be obligated to make any payment on account of the *Contract Price* under this GC 5.3 PROGRESS PAYMENT if following payment, the balance of the *Contract Price* would be less than the potential reduction in the *Contract Price* under GC 13.1 LIQUIDATED DAMAGES.”

GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK

5.4.1 Delete “if permitted by the lien legislation applicable to the *Place of the Work*” on the first two lines.

Add at the end of paragraph 5.4.1:

“The *Contractor* shall submit the following documents with its request for review by the *Consultant* to establish *Substantial Performance of the Work*. These requirements do not limit the *Contractor*’s obligations for *Substantial Performance* noted elsewhere in the *Contract*. A deficiency holdback will be retained for three (3) times the estimated value of correcting or supplying the following items until they are all submitted, reviewed and accepted by the *Consultant*:

- .1 The list of all deficient and incomplete items of *Work* including the estimated value of each item;
- .2 Complete reports including a balancing report for the mechanical system and certification by all testing, cleaning or inspection authorities or associations as specified in the *Contract Documents*;
- .3 A complete demonstration of all mechanical and electrical systems and electrically-operated devices to the *Owner's* operating and maintenance staff and any training required by the specifications, to the *Owner's* satisfaction;
- .4 All maintenance manuals, operating instructions, maintenance and operating tools, replacement parts or materials and warranties as specified in the *Contract Documents*;
- .5 A complete set of marked up construction *Drawings* and other data in the form specified in the *Contract Documents*, or as required by the *Consultant*, for the production of as built *Drawings* to show all significant changes to the *Work* made during construction;
- .6 Current certification by the *Workers' Compensation Board* that the *Contractor* and all *Subcontractors* are in good standing;
- .7 A statement that all claims and demands for extra work or otherwise, under or in connection with the *Contract*, have been presented to the *Consultant* and that the *Contractor* expressly releases the *Owner* from all claims and demands except those made in writing prior to that date and still unsettled;
- .8 A statutory declaration in accordance with paragraph 5.2.8 of these Supplementary Conditions of the *Contract*;
- .9 All keys required for the entire *Project*.

The requirement to provide documents and other items listed in sub-paragraphs .1 through .9 does not limit the *Contractor's* obligations for *Substantial Performance of the Work* noted elsewhere in the *Contract*. A deficiency holdback will be retained for documents and other items not submitted and an estimated value is to be submitted for review and acceptance by the *Consultant*.

GC 5.5 PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF THE WORK

Add the following as GC 5.5.6 and 5.6.7:

- “5.5.6 At the time of *Substantial Performance of the Work*, the *Owner* may retain a deficiency holdback established by the *Consultant* based upon three times the estimated value of the outstanding items to be completed or corrected. The amount will be released by the *Owner* in one lump sum only upon correction of all deficiencies.
- 5.6.7 In addition to the deficiency holdback, the *Owner* may retain additional holdbacks as specified in the *Contract Documents* to be retained until receipt of items specified, such as close-out documentation, as-built documentation and *Owner's* manuals.”

GC 6.2 CHANGE ORDER

Add paragraph 6.2.4 to provide as follows:

- “6.2.4 The allowance for overhead and profit charged by the *Contractor* and *Subcontractors* shall be as follows:
- .1 Cost of materials and labour plus 10% mark-up by the *Contractor* for changes in the *Work* performed by the *Contractor*;
 - .2 Cost of labour and materials plus 10% mark-up by the *Contractor* on changes in the *Work* performed by the *Subcontractors*;
 - .3 Cost of labour and materials plus 10% mark-up by the *Subcontractors* for changes in the *Work* performed by the *Subcontractors*; and
 - .4 The overhead and profit for changes in the *Work* shall include supervision, administrative costs, small tools, miscellaneous materials, layout, additional bonding costs, and recording of the changes on the record drawings.”

GC 6.5 DELAYS

Add the following new paragraphs:

- “6.5.6 If the *Contractor's* operations expose any items which may indicate an archaeological find, such as building remains, hardware, accumulations of bones, pottery, or arrowheads:
- .1 The *Contractor* shall immediately notify the *Consultant* and suspend operations within the area identified by the *Consultant*. *Work* shall remain suspended within that area until otherwise directed by the *Consultant* in writing.
 - .2 Any delay in the completion date of the *Contract* that is caused by such a cessation of construction operations will be considered to be beyond the *Contractor's* control in accordance with paragraph GC 6.5.3, but will not be considered to be a delay resulting from an action of the *Owner* or the *Consultant* or anyone employed or engaged by them directly or indirectly.
 - .3 Any work directed or authorised by the *Consultant* with an archaeological find will be considered a change in *Work* authorized by a *Change Directive*, and GC 6.3 shall apply.”

GC 9.1 PROTECTION OF WORK AND PROPERTY

Add the following new paragraphs:

- “9.1.5 The *Contractor* shall be responsible generally for the care, maintenance and protection of the *Work* during construction and during any shut-down or suspension of the *Work*.
- 9.1.6 The *Contractor* shall ensure that all rights and privileges presently accorded to all properties adjacent to the *Place of the Work* are maintained.
- 9.1.7 When carrying out excavation work, the *Contractor* may encounter underground utilities such as, without limitation, sewers, gas mains, telephone cables, power cables, and water mains. The *Contractor* shall be fully responsible for any breakage or damage to such utilities, and the *Contractor* shall pay the full cost of repairing such damages and making good any losses or damages which are caused as a result of his or her operation in carrying out this *Contract*.

- 9.1.8 It shall be the *Contractor's* responsibility to obtain written permission and to make any required arrangements with the owners of any adjacent properties on which the *Contractor* may encroach.
- 9.1.9 The *Contractor* shall furnish and bear the cost of any watchman the *Contractor* may require for protection to perform this *Contract*."

GC 9.4 CONSTRUCTION SAFETY

Add the following new paragraph:

- "9.4.2 The *Contractor* shall be responsible for and ensure the safety not only of the workers, *Subcontractors*, tradesmen and suppliers and their plant and equipment but also of all other persons who enter the *Place of the Work* whether during working hours or not and for that purpose shall erect such fencing, boardings and signs and shall employ such safety measures as may be necessary to ensure the safety of such persons."

GC 11.1 INSURANCE

Amend paragraph 11.1.1 as follows:

Delete the words "the minimum requirements of which are specified in CCDC 41 – CCDC Insurance Requirements in effect at the time of bid closing except as hereinafter provided" in lines 2 and 3.

Delete paragraph 11.1.1.1 and replace with the following:

- "1 Commercial general liability insurance in the form of a wrap-up liability insurance in the amount of not less than five million dollars (\$5,000,000) per occurrence. The *Owner*, the *Consultant*, sub-consultants and special consultants as identified by the *Owner* and all *Subcontractors* involved in the performance of the *Work* shall be additional insureds under the commercial general liability insurance policy which shall contain a cross liability clause whereby one insured can make a claim, or bring an action, against another insured. The commercial general liability insurance shall remain in force from the commencement of the performance of the *Work* under the *Contract*, and shall include completed operations coverage effective for a period of two (2) years following issuance of the *Certificate of Completion*."

Delete paragraph 11.1.1.2 and replace with the following:

- "2 Vehicle liability insurance in the amount of not less than \$5,000,000 per occurrence from the date of commencement of the *Work* until one year after the date of issue of the *Certificate of Completion*."

Delete paragraph 11.1.1.3 in its entirety.

Delete the first sentence in paragraph 11.1.1.4 and replace with the following:

- "4 "Broad form" property insurance in the joint names of the *Contractor*, the *Owner* and the *Consultant* and sub-consultants and special consultants as identified by the *Owner*."

Delete paragraph 11.1.1.5 in its entirety.

Add the following to paragraph 11.1.1:

“8 Course of construction or builder’s risk insurance in the amount of 100% of the *Contract Price*.”

“9 Professional liability insurance in the amount of not less than \$2,000,000 for any professionals that the *Contractor* may engage in performing the *Work* in this *Contract*.”

Delete paragraphs 11.1.6 to 11.1.8 in their entirety and replace with the following new paragraphs:

“11.1.6 All insurance policies shall have the right of subrogation waived as against the *Owner*, the *Consultant*, their employees and agents.

11.1.7 All insurance policies shall contain provisions to the effect that thirty (30) days prior notice of cancellation will be given in writing to each insured, including the *Owner*. In the event that some or all of the insurance policies required under this *Contract* are cancelled, the *Contractor* shall promptly obtain insurance with other insurers so as to comply with the provisions of this *Contract*.

11.1.8 The *Contractor* shall ensure that its *Subcontractors* comply with all applicable insurance requirements.

11.1.9 Where the *Work* involves blasting and other activities, any exclusions of such aspects of the *Work* shall be deleted from the insurance policies.”

GC 11.2 CONTRACT SECURITY

Delete paragraph 11.2.1 in its entirety and replace with the following:

“11.2.1 The *Contractor* shall, at least 7 calendar days prior to the commencement of construction, provide to the *Owner* a performance bond and a labour and material payment bond, each in the amount of 50% of the *Contract Price* covering the performance of the *Work*.”

Delete paragraph 11.2.2 in its entirety and replace with the following:

“11.2.2 All bonds shall be issued by a duly licensed surety company authorized to transact a business of suretyship in British Columbia and in a form acceptable to the *Owner*, and shall be maintained in good standing until the fulfillment of the *Contract* including all warranty obligations pursuant to GC12.3 WARRANTY.

GC 12.3 WARRANTY

Amend paragraph 12.3.1 to provide as follows:

“12.3.1 Except for extended warranties as described in paragraph 12.3.6, the warranty period under the *Contract* is two years from the date of *Substantial Performance of the Work*.”

Amend paragraphs 12.3.3, 12.3.4 and 12.3.6 to provide as follows:

- “12.3.3 The *Owner*, through the *Consultant*, shall promptly give the *Contractor Notice in Writing* of observed defects and deficiencies which occur during the two-year warranty period.
- 12.3.4 Subject to paragraph 12.3.2, the *Contractor* shall correct promptly, at the *Contractor's* expense, defects or deficiencies in the *Work* which appear prior to and during the two-year warranty period.
- 12.3.6 Any extended warranties required beyond the two-year warranty period as described in paragraph 12.3.1, shall be as specified in the *Contract Documents*. Extended warranties shall be issued by the warrantor to the benefit of the *Owner*. The *Contractor's* responsibility with respect to extended warranties shall be limited to obtaining any such extended warranties from the warrantor. The obligations under such extended warranties are solely the responsibilities of the warrantor.”

“PART 13 ADDITIONAL GENERAL CONDITIONS

GC 13.1 LIQUIDATED DAMAGES

- 13.1.1 If the *Contractor* fails to attain *Substantial Performance of the Work* on or before the date stipulated for attaining *Substantial Performance of the Work* in Article A-1.3 of Article A-1 THE WORK of the Agreement Between Owner and Contractor (the “*Substantial Performance Date*”), the *Contractor* shall pay to the *Owner* liquidated damages calculated as \$2,000 for each calendar day that *Substantial Performance of the Work* extends beyond the *Substantial Performance Date*.

It is expressly agreed that it may be difficult to calculate the damages which would result from the *Contractor's* failure to attain *Substantial Performance of the Work* by the *Substantial Performance Date*, and the parties agree that the liquidated damages payable under this section 13.1.1 are not intended to be a penalty but rather represent the parties’ best estimate of the damages the *Owner* is likely to suffer as a result of the *Contractor's* failure to attain *Substantial Performance of the Work* by the *Substantial Performance Date*, and the delay to the *Owner* resulting from that failure.

- 13.1.2 In the event that the *Consultant* reasonably determines that the *Contractor* is not progressing in accordance with the *Schedule* with the result that the *Contractor* will not achieve *Substantial Performance of the Work* by the *Substantial Performance Date*, the *Owner* may commence to hold back amounts from payments due to the *Contractor* totaling an amount sufficient to cover the *Consultant's* estimate of liquidated damages that may be payable pursuant to paragraph 13.1.1. In the event that the *Owner* holds back more than is owed pursuant to paragraph 13.1.1, it shall forthwith pay such excess to the *Contractor*.
- 13.1.3 The *Owner* may deduct any amount due under this paragraph from any monies that may be due or payable to the *Contractor* on any account whatsoever. The liquidated damages payable under this paragraph are in addition to and without prejudice to any other remedy, action or other right that may be available to the *Owner* as a result of the *Contractor's* failure to attain *Substantial Performance of the Work* by the *Substantial Performance Date*.”

END OF SECTION

APPENDIX B – SUBMISSION FORM

1. Proponent Information

Please fill out the following form, naming one person to be the Proponent's contact for the RFP process and for any clarifications or communication that might be necessary.	
Full Legal Name of Proponent:	
Any Other Relevant Name under which Proponent Carries on Business:	
Street Address:	
City, Province/State:	
Postal Code:	
Phone Number:	
Fax Number:	
Company Website (if any):	
Proponent Contact Name and Title:	
Proponent Contact Phone:	
Proponent Contact Fax:	
Proponent Contact Email:	

- ☐ I acknowledge that the above company does have a valid City of White Rock Business License or British Columbia Professional License/Permit to Practice.
- ☐ I acknowledge that the above company does not have a City of White Rock Business License and understands the procedure in obtaining a valid license that must accompany the signed award letter.

The awarded vendor must provide a copy of their City of White Rock Business License with the signed award letter.

All related information on obtaining a Business License can be found here:

www.whiterockcity.ca/333/Business-Licences

2. Offer

The Proponent has carefully examined the RFP Documents and has a clear and comprehensive knowledge of the Work required under the RFP. By submitting a Proposal, the Proponent agrees and consents to the terms, conditions and provisions of the RFP, including the Form of Contract, and offers to provide the Work in accordance therewith at the rates set out in its Proposal.

3. Schedules

This Submission Form includes the following schedules completed by the Proponent which are attached to and form part of this Submission Form:

Schedule A: Proponent's Experience, Reputation and Qualifications

Schedule B: Proponent's Work Plan and Methodology

Schedule C: Proponent's Work Schedule

Schedule D: Proponent's Pricing for Work

Schedule E: Proponent's Pricing for Additions and Deletions

The Proponent confirms that it has factored all of the provisions of this RFP, including insurance and indemnity requirements, into its pricing assumptions and calculations.

4. Addenda

The Proponent is deemed to have read and accepted all addenda issued by the City prior to the Deadline for Issuing Addenda. The onus is on Proponents to make any necessary amendments to their Proposals based on the addenda. The Proponent is requested to confirm that it has received all addenda by listing the addenda numbers, or if no addenda were issued by writing the word "None", on the following line: _____ . Proponents who fail to complete this section will be deemed to have received all posted addenda.

5. No Prohibited Conduct

The Proponent declares that it has not engaged in any conduct prohibited by this RFP.

6. Conflict of Interest

Proponents must declare all potential Conflicts of Interest, as defined in section 3.4.1 of the RFP. This includes disclosing the names and all pertinent details of all individuals (employees, advisers, or individuals acting in any other capacity) who (a) participated in the preparation of the Proposal; AND (b) were elected officials or employees of the City within twelve (12) months prior to the Submission Deadline. If the box below is left blank, the Proponent will be deemed to declare that (a) there was no Conflict of Interest in preparing its Proposal; and (b) there is no foreseeable Conflict of Interest in performing the contractual obligations contemplated in the RFP.

Otherwise, if the statement below applies, check the box.

- ☐ The Proponent declares that (a) there was no Conflict of Interest in preparing its Proposal; and (b) there is no foreseeable Conflict of Interest in performing the contractual obligations contemplated in this RFP.
- ☐ The Proponent declares that there is an actual or potential Conflict of Interest relating to the preparation of its Proposal, and/or the Proponent foresees an actual or potential Conflict of Interest in performing the contractual obligations contemplated in the RFP.

If the Proponent declares an actual or potential Conflict of Interest by marking the box above, the Proponent must set out below details of the actual or potential Conflict of Interest:

7. Disclosure of Information

The Proponent hereby agrees that any information provided in this Proposal, even if it is identified as being supplied in confidence, may be disclosed where required by law or by order of a court or tribunal. The Proponent hereby consents to the disclosure, on a confidential basis, of this Proposal by the City to the advisers retained by the City to advise or assist with the RFP process, including with respect to the evaluation this Proposal.

The following individuals, as employees, advisers, or in any other capacity (a) participated in the preparation of our Proposal; AND (b) were elected officials or employees of the City and have ceased that employment within twelve (12) months prior to the Submission Deadline:

Name of Individual:
Job Classification:
Department:
Last Date of Employment with the City:
Name of Last Supervisor:
Brief Description of Individual's Job Functions:
Brief Description of Nature of Individual's Participation in the Preparation of the Proposal:

(Repeat above for each identified individual)

The Proponent agrees that, upon request, the Proponent shall provide the City with additional information about each individual identified above in the form prescribed by the City.

8. Proposal Irrevocable

The Proponent agrees that its tender shall be irrevocable for a period of 60 days following the Submission Deadline.

9. Execution of Contract

The Proponent agrees that in the event its Proposal is selected by the City, in whole or in part, the Proponent will finalize and execute the Contract in the form set out in Section 1.3 of this RFP and in accordance with the terms of this RFP.

Signature of Witness

Signature of Proponent Representative

Name of Witness

Name of Proponent Representative

Title of Proponent Representative

Date

I have the authority to bind the Proponent.

Schedule A: Proponent's Experience, Reputation and Qualifications

Proponents should provide the following information in the space provided and/or by attaching additional pages, if necessary:

A) Proponent Profile

Proponent profile, including full legal name, form of business organization (e.g. corporation, sole proprietorship, etc.), length of time in business, number of employees, and a brief description of Proponent's current business:

B) Qualifications and Experience

Details of Proponent's ability and expertise that will allow Proponent to satisfactorily provide the Work, including a description of relevant past experience with similar contracts (including references, contract value, and date of performance). Proponent should detail at least three (3) projects it has completed in the past three (3) years that it considers is substantially similar to the Work required under this RFP:

C) Key Personnel

Key personnel of the Proponent who will be responsible for the Work, together with a description of their respective responsibilities and related experience:

1) Name: _____

Responsibilities:

Experience:

2) Name: _____

Responsibilities:

Experience:

3) Name: _____

Responsibilities:

Experience:

4) Name: _____

Responsibilities:

Experience:

5) Name: _____

Responsibilities:

Experience:

6) Name: _____

Responsibilities:

Experience:

D) Subcontractors (if any)

Subcontractors that the Proponent intends to use for performance of the Work, including a description of the portion of the Work proposed to be subcontracted and the subcontractor's relevant experience:

1) Subcontractor Name: _____

Responsibilities:

Experience:

2) Subcontractor Name: _____

Responsibilities:

Experience:

Responsibilities:

4) Subcontractor Name: _____

Responsibilities:

5) Subcontractor Name: _____

Responsibilities:

E) Financial History

Details of Proponent's financial strength including copies of audited financial statements for past three years, details of any ongoing or recent bankruptcy/insolvency proceedings in past three years and details of other contracts that have terms that would overlap with the Contract:

[illegible]

F) References

Details of Proponent's references:

1) Reference Name: _____

Reference's address, phone number and email address

Reference's employer and position within employer:

Reference's relationship to Proponent and basis for reference:

Experience:

2) Reference Name: _____

Reference's address, phone number and email address

Reference's employer and position within employer:

Reference's relationship to Proponent and basis for reference:

Experience:

3) Reference Name: _____

Reference's address, phone number and email address

Reference's employer and position within employer:

Reference's relationship to Proponent and basis for reference:

Experience:

Schedule B: Work Plan and Methodology

Proponents should provide the following information in the space provided and/or by attaching additional pages, if necessary:

- A) A brief narrative that illustrates the Proponent's understanding of the Municipality's requirements for the performance of the Work:

- B) A description of the general approach and methodology the Proponent would take in performing and managing the Work:

- C) Any suggested amendments to the Work as described in the RFP that the Proponent suggests would be of benefit to the Municipality in terms of value for money, cost savings, environmental benefits, technological benefits, or other benefits:

D) Proponent's proposals to communicate to the neighbourhood and minimize community disruptions and nuisances in carrying out Work:

E) Proponent's proposals to ensure compliance with all applicable environmental laws and regulations:

F) Proponent's proposals to ensure adjacent properties or vehicles travelling on Marine Drive aren't damaged from the drilling of piles.

G) Proponent's proposals to provide methods of schedule management, provide methodology if delays arise and how completion deadlines are met:

- H) Proponent's proposals for grout/concrete containment and storage during line flushing and equipment washout.

END OF SECTION

Schedule C: Work Schedule

Proponents should provide the following information in the space provided and/or by attaching additional pages, if necessary:

[illegible]

END OF SECTION

Schedule D: Pricing for Work

Proponents should provide their estimated pricing for the Work in the Table 1 below. If a Proponent wishes to provide an alternative pricing structure for the Work, the Proponent may describe the alternative structure, including how it would benefit the Municipality, in an attached page.

- (a) Proponents should provide the information requested below, including pricing for both Option 1 and Option 2. Option 1 includes road remediation works only within the extents of the East and West Areas as shown on the Design Drawings. Option 2 includes road remediation works between the East and West Areas as well, from roughly STA 0+000 to STA 0+292. The City reserves the right to choose either Option 1 or Option 2, at their sole discretion, based on which option provides the best overall value to the City.
- (b) Rates must be provided in Canadian funds, inclusive of all applicable duties and taxes except for Goods and Services Tax ("GST"), which should be itemized separately.
- (c) Rates quoted by the Proponent must be all-inclusive and must include all labour and material costs, all freight and carriage costs, all insurance costs, all costs of delivery to the City, all costs of installation and set-up, including any pre-delivery inspection charges, and all other overhead, including any fees or other charges required by law.

(CONTINUED)

TABLE 1: PRICING FOR WORK

ITEM NO.	MMCD OR SSP SECTION	SPECIFICATION TITLE	UNIT	EST. QTY	UNIT PRICE	AMOUNT
DIVISION 01 – GENERAL REQUIREMENTS						
	01 53 01	Temporary Facilities				
01.01	1.9.1	Site Hoarding, Storage, Sanitary Facilities	Lump Sum	1	Incidental	\$ -
	01 55 00	Traffic Control, Vehicle Access and Parking				
01.02	1.5.1	Traffic and Pedestrian Control	Lump Sum	1	\$	\$
	01 57 01	Environmental Protection				
01.03	1.6.1	Erosion and Sediment Control	Lump Sum	1	Incidental	\$ -
		Other				
01.05	-	Bonding	Lump Sum	1	\$	\$
01.06	SSP15	Contractor Submissions	Lump Sum	1	\$	\$
Division 01 Subtotal:					\$	
DIVISION 03 – CONCRETE						
	03 30 20	Concrete Walks, Curbs and Gutters				
03.01	1.4.3	Concrete Barrier Curb & Gutter (MMCD C4)	Lineal Metre	115	\$	\$
03.02	1.4.5	Concrete Sidewalks and Ramps (100mm Thick) (MMCD C2) (Incl. Granular Base)	Square Metre	184	\$	\$
	03 30 53	Cast-In-Place Concrete				
03.03	1.5.3	Reinforced Concrete Grade Beam (Excl. Excavation and Backfill)	Cubic Metre	60	\$	\$
Division 03 Subtotal:					\$	

TABLE 1: PRICING FOR WORK (continued)

OPTION 1 – ROADWORKS ONLY WITHIN EXTENTS OF WEST AND EAST AREA						
DIVISION 31 – EARTHWORKS						
	31 24 13	Roadway Excavation, Embankment and Compaction				
31.01	SSP17	Mass Excavation and Removal (includes curbs, gutters, sidewalks, pavers, etc.)	Lump Sum	1	\$	\$
31.02	SSP18	Common Excavation – Dispose Offsite (includes subgrade preparation and compaction)	Cubic Metre	323	\$	\$
Option 1 Division 31 Subtotal:					\$	
ITEM NO.	MMCD OR SSP SECTION	SPECIFICATION TITLE	UNIT	EST. QTY	UNIT PRICE	AMOUNT
DIVISION 32 – ROADS AND SITE IMPROVEMENTS (OPTION 1)						
	32 01 16.7	Cold Milling				
32.01	1.5.1	Surface Milling (Average 40mm Thick)	Square Metre	240	\$	\$
32.02	1.5.1	Full Depth Milling – Dispose Offsite	Square Metre	557	\$	\$
	32 11 16.1	Granular Subbase				
32.03	1.4.2	75mm Minus Crushed Granular Subbase	Metric Tonne	411	\$	\$
	32 11 23	Granular Base				
32.04	1.4.2	19mm Minus Crushed Granular Base	Metric Tonne	205	\$	\$
	32 12 13.1	Asphalt Tack Coat				
32.05	1.5.1	Asphalt Tack Coat – Emulsified Asphalt	Square Metre	810	\$	\$
	32 12 16	Hot-Mix Asphalt Concrete Paving				
32.06	1.5.1	Asphalt Pavement - Upper Course #1 (40mm Thick Overlay)	Metric Tonne	23	\$	\$
32.07	1.5.1	Asphalt Pavement - Upper Course #1 (50mm Thick)	Metric Tonne	67	\$	\$
32.08	1.5.1	Asphalt Pavement - Lower Course #1 (50mm Thick)	Metric Tonne	68	\$	\$
	32 17 23	Painted Pavement Markings				
32.09	1.5.3	Permanent Thermoplastic Pavement Markings (Square One Paving Ltd. to be retained)	Lump Sum	1	\$	\$
	32 31 13	Chain Link Fences and Gates				
32.10	1.5.4	Black Handrail (MMCD C14)	Lineal Metre	60	\$	\$
Option 1 Division 32 Subtotal:					\$	

TABLE 1: PRICING FOR WORK (continued)

OPTION 2 – ROADWORKS INCLUDING AREAS BETWEEN WEST AND EAST AREA						
DIVISION 31 - EARTHWORKS						
	31 24 13	Roadway Excavation, Embankment and Compaction				
31.02	SSP18	Common Excavation – Dispose Offsite (Includes subgrade preparation and compaction)	Cubic Metre	463	\$	\$
Option 2 Division 31 Subtotal:					\$	
DIVISION 32 – ROADS AND SITE IMPROVEMENTS						
	32 01 16.7	Cold Milling				
32.01	1.5.1	Surface Milling (Average 40 mm Thick)	Square Metre	320	\$	\$
32.02	1.5.1	Full Depth Milling – Dispose Offsite	Square Metre	907	\$	\$
	32 11 16.1	Granular Subbase				
32.03	1.4.2	75mm Minus Crushed Granular Subbase	Metric Tonne	647	\$	\$
	32 11 23	Granular Base				
32.04	1.4.2	19 mm Minus Crushed Granular Base	Metric Tonne	320	\$	\$
	31 12 13.1	Asphalt Tack Coat				
32.05	1.5.1	Asphalt Tack Coat – Emulsified Asphalt	Square Metre	1227	\$	\$
	32 12 16	Hot-Mix Asphalt Concrete Paving				
32.06	1.5.1	Asphalt Pavement – Upper Course #1 (40 mm Thick Overlay)	Metric Tonne	37	\$	\$
32.07	1.5.1	Asphalt Pavement – Upper Course #1 (50 mm Thick)	Metric Tonne	109	\$	\$
32.08	1.5.1	Asphalt Pavement – Lower Course #1 (50 mm Thick)	Metric Tonne	111	\$	\$
	32 17 23	Painted Pavement Markings				
32.09	1.5.3	Permanent Thermoplastic Pavement Markings (Square One Paving Ltd. to be retained)	Lump Sum	1	\$	\$
	32 31 13	Chain Link Fences and Gates				
32.10	1.5.4	Black Handrail (MMCD C14)	Lineal Metre	60	\$	\$
Option 2 Division 32 Subtotal:					\$	

DIVISION A – DEEP FOUNDATIONS						
		STEEL PIPE PILES				
A.01	SSP19	P1 Pile – 15 m Long 8” Schedule 40 Steel Pipe (Includes 47 bags of Microsil grout per pile)	Each	31	\$	\$
A.02	SSP19	P2 Pile – 9 m Long 6” Schedule 80 Steel Pipe (Includes 17 bags of Microsil grout per pile)	Each	42	\$	\$
Division A Subtotal:					\$	

OPTION 1 SUMMARY	
Division 01 Subtotal:	\$
Division 03 Subtotal:	\$
Division 31 Subtotal:	\$
Division 32 Subtotal:	\$
Division A Subtotal:	\$
TOTAL EXCLUDING GST:	\$
GST (5%):	\$
TOTAL TENDER PRICE:	\$

OPTION 2 SUMMARY	
Division 01 Subtotal:	\$
Division 03 Subtotal:	\$
Division 31 Subtotal:	\$
Division 32 Subtotal:	\$
Division A Subtotal:	\$
TOTAL EXCLUDING GST:	\$
GST (5%):	\$
TOTAL TENDER PRICE:	\$

END OF SECTION

SCHEDULE E: Unit Prices for Additions and Deletions

The following Unit Prices shall be used to determine the value of authorized changes in the Work in accordance with the General and Supplementary Conditions. The Unit Prices listed for additions apply to performing additional work during the time scheduled for performance of similar work already included in the Bid Price and will increase the Contract Price. Unit Prices for deletions will decrease the Contract Price. Unit Prices do NOT include GST.

Item	Description	Unit	Unit Price (\$)	
			Addition	Deletion
03.01	Concrete Barrier Curb & Gutter	Lineal Metre		
03.02	Concrete Sidewalks and Ramp (100mm Thick)	Square Metre		
03.03	Reinforced Concrete Grade Beam	Cubic Metre		
31.02	Common Excavation	Cubic Metre		
32.01	Surface Milling (Average 40mm Thick)	Square Metre		
32.02	Full Depth Milling (Dispose Offsite)	Square Metre		
32.03	75mm Minus Crushed Gravel Subbase	Metric Tonne		
32.04	19mm Minus Crushed Granular Base	Metric Tonne		
32.05	Asphalt Tack Coat	Square Metre		
32.06	Asphalt Pavement –Upper Course #1 (40mm Thick Overlay)	Metric Tonne		
32.07	Asphalt Pavement – Upper Course #1 (50mm Thick)	Metric Tonne		
32.08	Asphalt Pavement – Lower Course #1 (50mm Thick)	Square Metre		
32.10	Black Handrail	Lineal Metre		
A.01	P1 Pile – 15 m Long 8” Schedule 40 Steel Pipe	Each		
A.02	P2 Pile – 9 m Long 6” Schedule 80 Steel Pipe	Each		
-	Basalite Microsil Grout Bag (30 kg Bag)	Each		

APPENDIX C – WORK SPECIFICATIONS

C.1 Project Drawings (Issued for Tender – Rev 1 - January 31, 2020)

The following drawings prepared by GeoWest Engineering Ltd., which are specific to this project, form part of the *Contract* and provide details and specifications for the proposed work.

SHEET NO.	TITLE	DRAWING NO.	REV.	DATE
1	GENERAL NOTES (1/2)	B0.01	1	JAN 31, 2020
2	GENERAL NOTES (2/2)	B0.02	1	JAN 31, 2020
3	OVERALL SITE PLAN	B1.01	1	JAN 31, 2020
4	WEST STABILIZATION AREA	B1.02	1	JAN 31, 2020
5	EAST STABILIZATION AREA	B1.03	1	JAN 31, 2020
6	WEST AREA CROSS-SECTION	B2.01	1	JAN 31, 2020
7	EAST AREA CROSS SECTION	B2.02	1	JAN 31, 2020
8	TYPICAL GRADE BEAM DETAIL	B3.01	1	JAN 31, 2020
9	SOIL LOGS (1/2)	B3.02	1	JAN 31, 2020
10	SOIL LOGS (2/2)	B3.03	1	JAN 31, 2020

C.2 Project Supplementary Specifications

The following specifications, which are specific to this project, form part of the *Contract* and are supplementary to both the Specifications within the MMCD Master Municipal Construction Document and the Supplementary Specifications within the Supplementary Master Municipal Construction Documents. In the event of a direct conflict, the Supplementary Specifications (Project) take precedence. Notwithstanding this order of precedence, in the event of a conflict between any of the *Contract Documents*, the more stringent provisions shall apply with the intent that those which produce the highest quality with the highest level of safety, operational reliability, durability and performance, shall govern.

INDEX

SSP 1.	Scope of <i>Work</i>
SSP 2.	Description of <i>Work</i>
SSP 3.	Hours of <i>Work</i>
SSP 4.	Limits of <i>Site</i>
SSP 5.	Contract <i>Time</i>
SSP 6.	Definitions
SSP 7.	Business/Resident Access
SSP 8.	Project Information Signs
SSP 9.	Business/Resident Notification
SSP 10.	Material Testing
SSP 11.	Utilities
SSP 12.	Safety Procedures
SSP 13.	Protection of the Environment
SSP 14.	Interfering Services
SSP 15.	Contractor Submissions
SSP 16.	Traffic and Pedestrian Management
SSP 17.	Mass Excavation and Removal

- SSP 18. Common Excavation
- SSP 19. Steel Pipe Piles
- SSP 20. Incidental Items
- SSP 21. Notification/Schedule of Work

SSP 1. Scope of Work

This Contract involves the construction works associated with stabilizing two sections of Marine Drive between Johnston Road and Totem Park. The West Stabilization Area is approximately 50 m long and the East Stabilization Area is approximately 70 m long.

SSP 2. Description of Work

Work under this Contract includes the following, or as more specifically shown on the Contract Drawings and described under the Contract Documents:

- 1) West Stabilization Area – Remove existing sidewalk and curb, construct reinforced concrete grade beam complete with 31 steel pipe piles, full-depth road reconstruction in distressed areas, asphalt mill and overlay in non-distressed areas, install new sidewalk and curb to reinstate site conditions as per City requirements.
- 2) East Stabilization Area – Remove existing sidewalk and curb, construct reinforced concrete grade beam complete with 42 steel pipe piles, full-depth road reconstruction in distressed areas, asphalt mill and overlay in non-distressed areas, install new sidewalk, curb, and handrail to reinstate site conditions as per City requirements.

SSP 3. Hours of Work

No work is permitted before 7:30 a.m. or after 7:00 p.m. Monday through Friday or before 9:00 a.m. or after 7:00 p.m. on Saturday. The *Contractor* shall schedule their work within these hours and will not be permitted to work outside of these hours. A normal workday is 8-hours long, excluding lunch. Inspection of work beyond 8-hours will be paid for by the *Contractor*.

No work is permitted on a Sunday or Statutory Holiday except in case of emergency and then only with written permission of the *Contract Administrator* and to such extent as they deem necessary.

SSP 4. Limits of Site

The *Site* is limited to City's Right-of-Way.

SSP 5. Contract Time

The *Work* of this *Contract* shall be completed not later than 116 (one hundred and sixteen) *Calendar Days* from the *Commencement Date*.

SSP 6. Definitions

In these Supplementary Specifications (Project), unless the context otherwise requires,

“Section” means section of the Specifications or the Conditions of Contract.

“Item” means item of the *Schedule of Quantities and Prices*.

SERVICES PURSUANT TO GENERAL CONDITIONS

The *Contractor* is required, as part of his obligation under the *Contract*, to perform the various services and activities described in the General Conditions and the Supplementary Specifications (Projects) SSP 6 to SSP 20 hereunder.

Payment for such services, activities and work shall deem to be included in the unit prices Quoted in the Schedule of Quantities and Prices, or as extra work as appropriate.

SSP 7. Business/Resident Access

The *Contractor* must ensure that all existing access to and from existing businesses and resident's homes on the north side of Marine Drive is maintained during the contract.

SSP 8. Project Information Signs

Project information signs will not be installed.

SSP 9. Business/Resident Notification

The *Contractor* will provide to the City a copy of a notification letter advising all residents and businesses within a 3-block radius of the proposed construction works prior to service interruption. This written notification shall include information regarding the works affecting their service in the area including but not limited to schedule, delays, and detours. The *Contractor* will be responsible for making copies and delivering these notifications to residents and businesses no later than two weeks before the start of construction, and not more than three weeks prior to construction.

Payment for Business/Resident Notification is included in Item 1.06, Contractor Submissions, and will be made by lump sum amount.

SSP 10. Material Testing

All materials testing of the concrete, grout, asphalt, and all compaction tests required are the responsibility of the *Contractor* and will be performed at the *Contractor's* cost. Any tests which do not meet contract specifications will be re-performed to proper specifications at the *Contractor's* cost. Certified copies of all tests shall be submitted by the testing laboratory directly to the *Contract Administrator* by email. The following testing frequencies are a minimum requirement.

Concrete Tests: Curb and Sidewalk – per 50 cu.m, min. one per day (slump, air, strength)
Grout – Compressive strength testing of grout will be at the discretion of the Geotechnical Engineer. Approximately 10 sets of cubes will be required.

Density Testing: Road Subgrade, Subbase, and Base – 1 per 100 sq.m, per lift
Curb and Sidewalk Base – 1 per 10 lineal metre placed
Grade Beam Backfill – 1 per 10 lineal metre placed

Sieve Analysis and Proctors: **1 per material type** prior to commencing work and as required

Asphalt – Conventional Marshall Test - 1 test per asphalt type, min 1 per day

SSP 11. Utilities

In addition to the requirements of the General Conditions, the *Contractor* shall cooperate fully with all utility companies and public agencies, the respective last known addresses and telephones being:

A) Electricity: BC Hydro and Power Authority
8475 - 128 Street
Surrey BC V3W 0G1
Telephone: (604) 543-6000

B) Gas: Fortis Gas
16705 Fraser Highway
Surrey BC V3S 2X7
Telephone: (604) 576-7030

C) Telephone: Telus
8th Floor - 3777 Kingsway
Burnaby BC V5H 3X7
Telephone: (604) 436-4842

D) Storm and Sanitary Sewers: City of White Rock
Works Yard
877 Keil Street
White Rock BC V4B 4V6
Telephone: (604) 541-2181

E) Water main: City of White Rock
Works Yard
877 Keil Street
White Rock BC V4B 4V6
Telephone: (604) 541-2181

F) Cable TV: Shaw Cable Systems
4250 Kingsway,
Burnaby, BC V5E 4J2
Telephone: 604-629-4000

SSP 12. Safety Procedures

The *Contractor* shall follow WorkSafe BC-compliant procedures for all work on this project.

SSP 13. Protection of the Environment

The *Contractor* shall comply with all federal and provincial regulations so that construction work does not adversely affect the environment of fish producing or fish nutrient streams, rivers, lakes and other bodies of water within or in the vicinity of, or downstream from the

place of work, not only during active construction of the site, but also during periods where the *Contractor* has suspended construction activity for any reason.

Notwithstanding the above noted requirements, this shall include but not be limited to the following:

- (a) Environmentally safe vegetable oil-based hydraulic fluids are to be used in all drilling equipment. A product sheet from the hydraulic fluid manufacturer shall be provided to the *Contract Administrator* prior to the drilling equipment being mobilized to site.
- (b) The work under this contract shall be undertaken in a manner which will prevent entry of any soil, silt, waterborne sediment, oil, grease, other petroleum products and deleterious substances into any stream, lake or other body of water, whether directly, by surface run-off or other means.

SSP 14. Interfering Services

- 1 The *Contractor* shall, at his own expense, provide for the uninterrupted flow of all watercourses, sewers, drains, and any other utility encountered during the work.
- 2 When other utility structures are encountered, the *Contractor* shall support them to the satisfaction of the *Contract Administrator* so as to protect them from damage. The *Contractor* shall, at his own expense, at once repair and make good any damage which may occur to any watermains, service or utility pipes, or facilities, or to any electrical conductor or telephone facility or to any sidewalk, crosswalk as a result of this operation. *The contractor shall also, at his own expense, temporarily relocate any services which may conflict with the installation of the work.*
- 3 It is the *Contractor's* responsibility wherever necessary to determine location of existing pipes, valves, or other underground structures. Wherever it is necessary to explore and excavate to determine the location of the existing underground structures, the *Contractor* at his own expense shall make explorations and excavations for such purposes.
- 4 Where gas mains and/or service lines exist in the vicinity of the proposed work, the *Contractor* shall consult the officers of the gas company prior to commencing operations and arrange for mutually agreeable procedure for their protection.
- 5 Any additional Telus or Hydro work added to the contract shall be estimated by the *Contractor* as a lump sum unit of work with a breakdown of the associated costs (labour, material, etc.). The *Contract Administrator* will review the Lump Sum price and has the option of either proceeding with the work at the Lump Sum price or using Force Account (machine, materials and labour) plus 10% markup. Machine prices will be taken from the current edition of the MoT Blue Book.

SSP 15. Contractor Submissions

The *Contractor* is responsible for the following prior to the start of construction:

- Notice of Project: Submit written notice of the work activity to WorkSafeBC as required by the Occupational Health and Safety Regulation.
- Erosion and Sediment Control Plan: Submit an Erosion and Sediment Control Plan to the *Contract Administrator*. The Erosion and Sediment Control Plan should include, but not limited to, site runoff management, deleterious substance containment, grout spill procedures, and drill cuttings/dust containment. The procedures outlined in the Erosion and Sediment Control Plan must be approved by the City.
- Vector Control Plan: Submit a Vector Control Plan which includes procedures and approaches to manage rodents/pests around the site to the *Contract Administrator*. The Vector Control Plan must be approved by the City.
- Traffic and Pedestrian Management Plan: Submit a Traffic and Pedestrian Management Plan which is in conformance with provincial and municipal regulations. The Traffic and Pedestrian Management Plan must be approved by the City. It is the responsibility of the Contractor to obtain all permits as required by the City of White Rock Street and Traffic Bylaw, No. 1529. Any fees for submitting permits relating to this project will be waived.

Payment for all work relating to Contractor Submissions will be made by lump sum amount under Item 1.06.

SSP 16 Traffic and Pedestrian Management

It is the responsibility of the *Contractor* to provide traffic and pedestrian control to the City's satisfaction throughout the duration of the work.

SSP 17. Mass Excavation and Removal

Mass Excavation and Removal shall include: excavation and removal of materials that are not under the definitions of "Rock Excavation" or "Common Excavation" and that include any other hard-material structures on the ground or underground, such as curbs, gutters, walks, driveways, retaining walls, stairs, asphalt pavement, manholes, catchbasins, lawn drains, cleanouts, inspection chambers, pipes, culverts, end walls, headwalls which are required to be removed by the *Contract Drawings* or by the direction of the *Contract Administrator*. Mass Excavation includes saw cutting of asphalt or concrete but excludes the removal and off-site disposal of asphalt pavement performed by means of full depth milling.

Payment for Mass Excavation will be made on a lump sum basis. Payment includes excavation, disposal, at an approved location off-site, of materials removed as part of Mass Excavation.

SSP 18.**Common Excavation**

Refer to MMCD Section 31 24 13

Replace:

1.8.5 Payment for common excavation includes...for common excavation

With:

1.8.5 Payment for common excavation includes excavation and removal of unsuitable material. Removal of existing pavements, curbs and gutters, sidewalks, utilities strips, driveways, pipes and conduits are measured separately as part of Mass Excavation and Removal.

Payment for this item will be made at the unit price tendered per cubic meter. Measurement may be by direct measurement of the dimensions of the excavation, or, if that is not possible, by truck box volume according to the following table:

Type of Truck	Volume (cu.m.)	Commonly Known As
Single	6.5	"Tandem Dump Truck"
Combined with Pony Trailer	11.0	"Truck and Pony"
Combined with Transfer Trailer	18.0	"Truck and Transfer"

Notes:

- Volume of pup/pony trailer alone shall be considered 4.5 cubic metre
- Volume of transfer trailer alone shall be considered 11.5 cubic metre

If truck counts and volumes are used for the payment, the *Contractor* shall submit to the *Contract Administrator* the slips or tickets showing legibly the date, location and type/purpose of excavation for each truck load as supporting documents to determine the actual excavation quantities before payment is made for such excavation.

The unit price shall include but not be limited to excavation to the subgrade level, transportation and disposal at an approved offsite location, dump fees, grading, moisture content adjustment, and compaction of the subgrade, temporary erosion control measures, dust control measures, and any other materials, equipment and labour required to complete the work as shown on the contract drawings. Payment will include double handling of material if required.

SSP 19.**Steel Pipe Piles**

Steel pipe piles shall consist of ASTM A106 Grade B Steel Pipes with the following lengths:

- Type P1 Piles: 15 m
- Type P2 Piles: 9 m

The steel shall conform to CSA G40.21 M-350W with a minimum yield strength of 350 MPa. Pile splices shall be full penetration butt welded with E480XX electrodes.

Payment for this item shall be made per pile and includes installation and grouting. The *Contractor* shall provide the *Contract Administrator* with daily counts of grout bag usage.

SSP 20. Incidental Items

Payment for all of work performed under the following MMCD Sections shall be incidental to payment for work described in other MMCD Sections:

MMCD Section	Item Description
01 33 01	Project Record Documents
01 51 01	Temporary Utilities and Lighting
01 52 01	Temporary Structures
01 53 01	Temporary Facilities
01 57 01	Environmental Protection
SSP 10	Materials Testing

SSP 21. Notifications/Schedule of Work

The *Contractor* shall provide a weekly e-mail status report to the *Owner* and the *Contract Administrator* containing:

- The anticipated schedule of activities and locations for the upcoming workweek
- A brief summary of the work completed in the previous week
- Any problems encountered the previous week
- Any other issues related to the work progress

E-mail contact information will be provided at the pre-construction meeting.

Failure of the Contractor to provide notification will result in no further work.

The Owner and the Contract Administrator shall be informed one week in advance of any stoppage or restart of work.

Operation for each of the items may be separate and may involve several mobilizations, setting ups and demobilization. Payment for these services and works is deemed to be included in the Unit Rates in the Form of Tender.

End of Supplementary Specifications (Project)

- 1.1 IN THESE NOTES, THE OWNER OF THE PROJECT IS THE CITY OF WHITE ROCK, TEL. 604-541-2180. ALL WORKS SHALL BE IN STRICT ACCORDANCE WITH THE CITY OF WHITE ROCK'S REQUIREMENTS.
- 1.2 IN THESE NOTES, THE GEOTECHNICAL ENGINEER IS GEOWEST ENGINEERING LTD., TEL. 604-852-9088.
- 1.3 IN THESE NOTES, THE CONTRACTOR IS THE "PRIME CONTRACTOR" UNDER THE WORKERS COMPENSATION ACT. HEALTH AND SAFETY DUTIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 1.4 THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE DESIGN DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
- 1.5 THE PROPOSED PILE AND GRADE BEAM SYSTEMS ARE INTENDED TO PROVIDE LONG TERM SUPPORT TO THE ROAD SECTIONS SHOWN ON THESE DRAWINGS AGAINST GLOBAL INSTABILITY.
- 1.6 THE DESIGN IS BASED ON SITE OBSERVATIONS, SUBSURFACE INVESTIGATIONS (LEVELTON 2011 AND GEOWEST 2018), AND GEOTECHNICAL ASSESSMENT REPORT CONDUCTED BY GEOWEST (GEOWEST FILE GA17-1167-00, REPORT DATED OCTOBER 18, 2018)
- 1.7 THE CONTRACTOR SHALL PROVIDE ADD/DELETE UNIT PRICES FOR THE WORKS SHOWN ON THESE DRAWINGS.
- 1.8 A COMPLETE SET OF APPROVED CONSTRUCTION DRAWINGS SHALL BE ON-SITE AT ALL TIMES DURING THE CONSTRUCTION OF THE ROAD STABILIZATION WORKS.
- 1.9 THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURATE LAYOUT OF THE GRADE BEAMS AND STEEL PILES. ADDITIONAL COSTS DUE TO INACCURATE LAYOUT OR EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 1.10 THE CONTRACTOR SHALL NOT ENCROACH ONTO ADJACENT PROPERTIES WITHOUT PRIOR WRITTEN AGREEMENT FROM THE OWNER OF THE PROJECT AND ADJACENT PROPERTY OWNERS.
- 1.11 THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL SURROUNDING UNDERGROUND OR OVERHEAD SERVICES WHICH CAN BE DAMAGED BY THE PROPOSED EXCAVATION AND INSTALLATIONS PRIOR TO EXCAVATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADVANCE NOTIFICATION TO THE GEOTECHNICAL ENGINEER OF ANY UNDERGROUND/OVERHEAD SERVICE THAT CAN BE DAMAGED BY THE PROPOSED CONSTRUCTION.
- 1.12 THE CONTRACTOR SHALL SCHEDULE, COORDINATE AND CONDUCT THE WORK WITH THE OWNER OR THEIR REPRESENTATIVE IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS.
- 1.13 THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE CONSTRUCTION OF THE ROAD STABILIZATION WORKS AND PROVIDE INSPECTION REPORTS. HOWEVER, THE CONTRACTOR SHALL CONDUCT THEIR OWN INSPECTIONS OF THE CONSTRUCTION ON A DAILY BASIS AND IMMEDIATELY REPORT ANY IRREGULARITIES OR DETERIORATING SOIL AND GROUNDWATER CONDITIONS TO THE GEOTECHNICAL ENGINEER.
- 1.14 THE CONTRACTOR SHALL BUILD AND MAINTAIN PROPERLY SECURED HOARDING AROUND THE SITE FOR THE SAFETY OF SITE PERSONNEL AND THE PUBLIC IN THE SITE VICINITY IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS.
- 1.15 IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUITABLE ACCESS AND STAGING FOR THE EXCAVATION, DRILLING, AND INSTALLATION OF STEEL PIPE PILES.
- 1.16 THE GEOTECHNICAL ENGINEER IS TO HAVE ACCESS TO THE SITE WHENEVER REQUIRED AND IS THE SOLE JUDGE OF WHEN THE GEOTECHNICAL ENGINEER'S PRESENCE IS NECESSARY AND WHETHER A TECHNICIAN, STAFF ENGINEER, OR SENIOR ENGINEER IS REQUIRED ON SITE.
- 1.17 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS.
- 1.18 THE CONTRACTOR IS RESPONSIBLE FOR PEDESTRIAN AND TRAFFIC CONTROL DURING CONSTRUCTION AND SHALL COORDINATE SUCH ACTIVITIES WITH THE OWNER.

2.0 CONTRACTOR SUBMISSIONS

3.0 MATERIALS

3.2 CAST-IN-PLACE CONCRETE (SIDEWALKS AND CURBS):	
CEMENT:	TYPE GU
EXPOSURE CLASS:	C-2
MINIMUM COMPRESSIVE STRENGTH:	32 MPA @ 28 DAYS
MAXIMUM AGGREGATE SIZE:	20 MM
SLUMP:	80 +/- 20 MM
AIR CONTENT:	5 - 8%
MINIMUM CEMENT CONTENT:	35 KG / M ³

ALL CONCRETE SHALL CONFORM TO STANDARDS DOCUMENTED IN THE CANADIAN STANDARDS ASSOCIATION: CSA A23.1-14, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.

3.3.1 STEEL PILES SHALL CONSIST OF ASTM A106 GRADE B STEEL PIPES WITH THE DIMENSIONS SPECIFIED IN THESE DRAWINGS. PILE SPICES SHALL BE FULL PENETRATION BUTT WELDED WITH E480XX ELECTRODES (OR APPROVED EQUIVALENT).

3.3.2 ALL STRUCTURAL STEEL SHALL CONFORM TO CSA CAN3-G40.21 M-350W WITH MIN. FY = 350 MPA. CONTRACTOR TO SUPPLY MILL CERTIFICATES FOR ALL PILES IMPORTED TO SITE.

3.3.3 PILE BACKFILL SHALL CONSIST OF GROUT IN ACCORDANCE WITH SECTION 3.4 OF THESE NOTES.

THE GROUT SHALL CONSIST OF BASALITE CONCRETE PRODUCTS MICROSIL GROUT OR EQUIVALENT APPROVED IN WRITING BY THE GEOTECHNICAL ENGINEER PRIOR TO ANY DRILLING. WATER CEMENT RATIOS TO BE UTILIZED ARE AS FOLLOWS:

<u>CONSISTENCY</u>	<u>W/C</u>	<u>MAX. WATER / 30 KG (66LB) BAG</u>
STEEL PILE	0.33	10.0 L (2.65 US GAL)
24 - HOUR COMPRESSIVE STRENGTH:		15 MPA (MIN)
28 - DAY COMPRESSIVE STRENGTH:		40 MPA (MIN)

3.5.1 DEFORMED REINFORCING BARS SHALL BE 400 MPA DEFORMED NEW BILLET STEEL AND CONFORM TO CSA G30.18-09 (R2014).

3.5.2 A MINIMUM BAR OVERLAP OF 600 MM SHALL BE USED FOR DEFORMED BAR LAP SPLICES.

3.5.3 MINIMUM CONCRETE BAR COVER SHALL BE 75 MM FOR CONCRETE PERMANENTLY EXPOSED TO SOIL.

3.6.1 IMPORTED BACKFILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO DELIVERY TO THE SITE. UNLESS OTHERWISE SPECIFIED, IT SHALL COMPRISE OF 75 MM MINUS CRUSHED SAND AND GRAVEL WITH MAXIMUM 5% FINES (SOIL PASSING 0.075 MM SIEVE).

3.6.2 GRANULAR BASE SHALL COMPRISE OF 19 MM MINUS CRUSHED SAND AND GRAVEL WITH MAXIMUM 5% FINES CONTENT.

3.6.3 ALL BACKFILL SHALL BE FREE OF CLAY LUMPS OR ORGANIC MATTER.



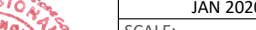


3.6.4 BACKFILL DEEMED UNSUITABLE BY THE GEOTECHNICAL ENGINEER SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

4.1.1 CAREFUL SEQUENCING OF THE EXCAVATION, DRILLING, INSTALLATION OF PILES, GRADE BEAM CONSTRUCTION, AND BACKFILLING IS NECESSARY FOR SAFE EXECUTION OF THE DESCRIBED WORKS. THE DRAWINGS GIVE GUIDANCE WITH REGARD TO THE GENERAL INSTALLATION. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL CONSTRUCTION SEQUENCE AND TO PROVIDE THAT INFORMATION TO THE GEOTECHNICAL ENGINEER AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION.

4.1.2 IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUITABLE ACCESS AND STAGING FOR THE DRILLING AND INSTALLATION OF PILES AND GRADE BEAMS.

NOTES CONTINUED ON DRAWING B0.02.

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					DATE:										PROJECT:		HUMP RETAINING WALL STABILIZATION		SCALE:	
							ADDRESS:		MARINE DRIVE, WHITE ROCK, BC						GEOWEST FILE:		CHK:			
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5.0 FIELD REVIEW AND TESTING

- 4.1.3 WASHOUT WATER FROM GROUTING AND CONCRETE WORKS SHALL BE DISPOSED OF IN ACCORDANCE WITH THE GROUT SPILL MANAGEMENT PLAN APPROVED BY THE OWNER.
- 4.1.4 THE CONTRACTOR SHALL INFORM THE GEOTECHNICAL ENGINEER IMMEDIATELY OF TENSION CRACKS OR ANY SIGNS OF UNSTABLE CONDITIONS ENCOUNTERED DURING CONSTRUCTION. INSTALLATION OF FACE-SAVING MEASURES MAY BE REQUIRED BY THE GEOTECHNICAL ENGINEER TO SUPPORT SUCH AREAS.
- 4.1.5 SURFACE WATER CONTROL BERMS SHALL BE CONSTRUCTED TO MINIMIZE SURFACE WATER FROM ENTERING THE EXCAVATION.
- 4.2 STEEL PILES

4.2.1 PREDRILL PILE HOLES USING TEMPORARY CASING AS SPECIFIED IN THESE DRAWINGS TO PREVENT HOLE COLLAPSE DURING INSTALLATION OF STEEL PIPE PILES. THE TEMPORARY CASING SHALL BE USED UNLESS WRITTEN APPROVAL IS PROVIDED BY THE GEOTECHNICAL ENGINEER TO DRILL USING THE OPEN-HOLE TECHNIQUE.

4.2.2 SET THE STEEL PILES IN THE CASING. PILES SHALL BE CENTERED IN THE CASING. BACKFILL STEEL PILES AND CASING WITH MICROSIL GROUT VIA TREMIE METHOD.

4.2.3 EXTRACT TEMPORARY CASING. MICROSIL GROUT SHALL EXTEND TO THE ELEVATION SHOWN ON THESE DRAWINGS AFTER EXTRACTION OF THE TEMPORARY CASING.

4.2.4 THE PILES SHALL BE INSTALLED WITH A MAXIMUM VARIATION OF 50 MM IN PLAN. PILES SHALL NOT BE OUT OF PLUMB BY MORE THAN 2 PERCENT.

4.2.5 THE CONTRACTOR SHALL PROVIDE EQUIPMENT FOR CHECKING PILE ALIGNMENT DURING INSTALLATION AND SHALL CONTINUOUSLY MONITORING THE PILE INSTALLATION TO MEET THE PROJECT TOLERANCES.

4.2.6 ADJUSTMENTS TO THE PILE LENGTHS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL FROM THE GEOTECHNICAL ENGINEER.

4.2.7 SOIL CUTTINGS SHALL BE COLLECTED AND DISPOSED OFF-SITE. NO SOIL CUTTINGS OR WASTE TO BE DISPOSED OF OVER SLOPE.

4.2.8 THE DRILLING CONTRACTOR SHALL ADVISE THE GEOTECHNICAL ENGINEER OF ALL SIGNIFICANT CHANGES IN DRILLING CONDITIONS, AS THEY OCCUR, INCLUDING OBSTRUCTIONS AND VOIDS.

4.2.9 THE COST FOR ANALYSIS, REDESIGN, AND REMEDIATION DUE TO PILES BEING INSTALLED EXCEEDING THE TOLERANCES FOR LOCATION OR PLUMBNESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4.3 GRADE BEAMS

4.3.1 GRADE BEAM CONCRETE SHALL BE PLACED IN ACCORDANCE WITH MASTER MUNICIPAL SPECIFICATIONS SECTION 03 30 20 3.5 CONCRETE PLACEMENT WITH THE FOLLOWING ADDITION:

- GRADE BEAM FORMWORK, IF USED, IS TO BE LEFT IN PLACE FOR A MINIMUM OF 24 HOURS FOLLOWING CONCRETE PLACEMENT.

4.3.2 ALL CAST IN PLACE CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
- 4.4 COMPACTION OF BACKFILL AND GRANULAR BASE

4.4.1 BACKFILL AND GRANULAR BASE SHALL BE PLACED AND COMPACTED IN HORIZONTAL LIFTS NOT EXCEEDING 300 MM IN LOOSE THICKNESS. BACKFILL AND GRANULAR BASE SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MATERIAL'S MODIFIED PROCTOR DENSITY (ASTM D1557) AS CONFIRMED BY IN-SITU DENSITY TESTING CONDUCTED BY A MATERIALS TESTING AGENCY.

4.4.2 AT THE END OF EACH WORKDAY, THE BACKFILL SURFACE SHALL BE COMPACTED AND GRADED TO MINIMIZE PONDING OF WATER AND SATURATION OF THE BACKFILL.

- 5.1 THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE INSTALLATION OF STEEL PILES, EXCAVATION, CONSTRUCTION OF GRADE BEAMS AND SIDEWALKS, AND BACKFILLING. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED A MINIMUM OF 24 HOURS BEFORE CONSTRUCTION WORKS COMMENCE. QUALITY CONTROL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 5.2 THE CONTRACTOR SHALL RETAIN A MATERIALS TESTING AGENCY TO COLLECT GROUT SAMPLES FOR COMPRESSIVE STRENGTH TESTING IN ACCORDANCE WITH CSA A23.2-1B. COMPRESSIVE STRENGTH TESTS SHALL BE CARRIED OUT ON GROUT SAMPLES COLLECTED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER. AN ESTIMATED 10 SETS OF 3 CUBES WILL BE CAST.
- 5.3 THE GEOTECHNICAL ENGINEER SHALL REVIEW THE STEEL REINFORCEMENT FOR THE GRADE BEAMS PRIOR TO THE PLACEMENT OF CONCRETE.
- 5.4 CONCRETE STRENGTH, AIR CONTENT, AND SLUMP SHALL BE TESTED BY THE CONTRACTOR'S QUALITY CONTROL TESTING AGENCY AT THEIR OWN EXPENSE. THE CONTRACTOR SHALL PROVIDE A MINIMUM 24 HOURS NOTICE TO THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE FOR THE GRADE BEAMS AND SIDEWALKS. THE FOLLOWING ARE MINIMUM CONCRETE TESTING FREQUENCIES:

5.4.1 AT LEAST ONE PLASTIC CONCRETE TEST (AIR CONTENT, SLUMP, TEMPERATURE) SHALL BE CONDUCTED FOR EACH DAY OF GRADE BEAM CONCRETE PLACEMENT BUT NOT LESS THAN ONE PLASTIC CONCRETE TEST PER EACH GRADE BEAM.

5.4.2 ONE SET OF 3 COMPRESSIVE STRENGTH CYLINDERS PER GRADE BEAM.

5.4.3 AT LEAST ONE CONCRETE SPOT TEST FOR EACH DAY OF SIDEWALK CONCRETE PLACEMENT OR PER EVERY 150 LM OF SIDEWALK, WHICHEVER IS MORE.

5.4.4 MIN ONE SET OF 3 COMPRESSIVE STRENGTH CYLINDERS PER DAY OF CONCRETE PLACEMENT.
- 5.5 BACKFILL MATERIAL SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO DELIVERY TO SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A TESTING AGENCY TO CONDUCT COMPACTION TESTING. THE RESULTS OF THE COMPACTION TESTS SHALL BE PROVIDED TO THE GEOTECHNICAL ENGINEER FOR REVIEW. THE FOLLOWING ARE MINIMUM COMPACTION TESTING FREQUENCIES:

5.5.1 AT LEAST ONE COMPACTION TEST FOR EVERY 10 LM OF BACKFILL PLACED ABOVE GRADE BEAMS









5.5.2 AT LEAST ONE COMPACTION TEST FOR EVERY 10 LM OF SIDEWALK BASE PLACED.

5.5.3 AT LEAST ON COMPACTION TEST FOR EVERY 100 M² OF ROAD SUBGRADE

5.5.4 AT LEAST ON COMPACTION TEST FOR EVERY 100 M² OF ROAD SUBBASE

5.5.5 AT LEAST ON COMPACTION TEST FOR EVERY 100 M² OF ROAD BASE

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1

PROTECT TRAFFIC ON MARINE
DRIVE FROM SOIL CUTTINGS,
CONSTRUCTION DEBRIS, DUST, ETC.
AT ALL TIMES.

50 MM THICK UPPER COURSE #
50 MM THICK LOWER COURSE #
150 MM THICK GRANULAR BASE (95% MPD
300 MM THICK CRUSHED GRANULAR SUB-BASE (95% MPD

*ALL MATERIALS TO MEET MMCD GRADATION REQUIREMENTS

APPROXIMATE LOCATIONS OF EXISTING STORM AND SANITARY SEWERS

ROAD STRUCTURE TO BE PLACED ON
GEOTECHNICAL ENGINEER APPROVED
SUBGRADE. SURFACE OF SUBGRADE TO
BE COMPACTED USING VIBRATORY
EQUIPMENT TO MIN. 95% MPD

NEW BARRIER CURE
WITH GUTTER AS PERF
MMCD DRAWING C4

REINFORCED CONCRETE
GRADE BEAM

15 m LONG FULLY GROUTED TYPE
P1 STEEL PILES AT 1.5 m O/C
DRILLED WITH MIN. 273 mm O.D.
TEMPORARY CASING

CONCRETE SIDEWALK PER MMCD DRAWING C2
- EXPOSURE CLASS C2. NATURAL COLOUR. SEE
PLAN FOR APPROXIMATE EXTENTS.

PROTECT EXISTING SIDEWALK, BENCHES, HANDRAIL, SLOPE ETC. OUTSIDE WORK AREA FROM DAMAGE CAUSED BY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO REINSTATING EXISTING SITE CONDITIONS AT THEIR OWN EXPENSE.

SOIL CUTTINGS TO BE DISPOSED
— OFF SITE. THEY SHALL NOT BE
PLACED ON / OVER THE SLOPE

LOCALLY SAWCUT AND REMOVE SIDEWALK TO EXPOSE BACK OF METAL BIN RETAINING WALL FOR SAMPLING AND REVIEW BY CORROSION ENGINEER. REINSTATE SIDEWALK PER MMCD DRAWING C2. EXPOSURE CLASS C2. NATURAL COLOUR.

EXISTING METAL BIN WALL
(INFERRED WIDTH OF 3 m).
— CONTRACTOR TO ENSURE PROPOSED
WORKS DO NOT CONFLICT WITH
EXISTING BIN WALL.






EXISTING SLOPE
(VARIES)

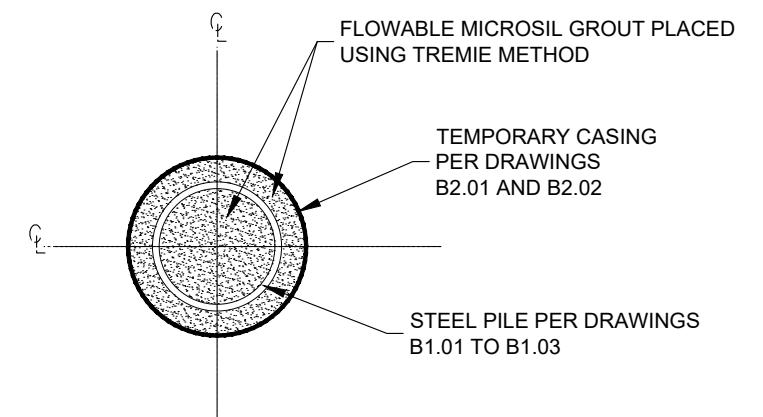
BNSF TRACKS
BELOW, NOT SHOWN

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NOTE:
UNDERGROUND UTILITIES MAY BE PRESENT
THAT ARE NOT SHOWN ON THESE DRAWINGS.
CONTRACTOR TO CONFIRM LOCATION OF ALL
UNDERGROUND SERVICES PRIOR TO ANY
EXCAVATION OR INSTALLATION OF PILES.






A horizontal scale bar with four segments. The segments are labeled from left to right as 0, 1, (1:75), and 4n. The first segment (0 to 1) is black. The second segment (1 to (1:75)) is white. The third segment ((1:75) to 4n) is black. The fourth segment is white.

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						-	WEST AREA CROSS-SECTION								JAN 2020		BO		
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A horizontal scale bar with alternating black and white segments. Above the bar, the labels '0', '0.2', '(1:20)', and '1m' are positioned at the start, first segment boundary, second segment boundary, and end of the bar, respectively.

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					-	SOIL LOGS (1/2)				JAN 2020	BO
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