



# Invitation To Tender

INVITATION TO TENDER NO. PS20201183 (the "ITT")

CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT

ITT NO. PS20201183

Issue Date: May 5, 2021

Issued by: City of Vancouver as represented by its Vancouver Board of Parks and Recreation

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Tenders are to be emailed to [bids@vancouver.ca](mailto:bids@vancouver.ca) and must be received at [bids@vancouver.ca](mailto:bids@vancouver.ca) prior to 3:00pm, Vancouver Time (as defined in Note 3 below), on June 1, 2021 (the “Closing Time”).

Tenders will be not be publicly opened. Tender results can be found within 48 hours of the Closing Time at the following website:

<http://vancouver.ca/doing-business/unverified-tender-results.aspx>

**NOTES:**

1. Tenders must be received at the email addressed specified above prior to the Closing Time.
2. “Vancouver Time” will be conclusively deemed to be the time indicated in the electronic timestamp the Tender receives upon receipt at the email address specified herein, which is in turn synchronized to Network Time Protocol (NTP) provided by the National Research Council of Canada adjusted to local Pacific Time Zone.
3. The City of Vancouver is open on business days from 8:30 a.m. to 4:30 p.m., Vancouver Time, and is closed Saturdays, Sundays, and holidays.
4. All queries related to this ITT should be submitted in writing to the attention of:

**Jason Lo, Contracting Specialist**

Email: [jason.lo@vancouver.ca](mailto:jason.lo@vancouver.ca)

(the “Contact Person”)

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CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
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**CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT**  
**PART A - INTRODUCTION**

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**1.0 OVERVIEW OF PROJECT**

- 1.1 The City of Vancouver, “as represented by its Vancouver Board of Parks and Recreation” (the “City”) invites Tenders for the replacement of a pedestrian bridge and minor demolition work located at Stanley Park Miniature Train, Vancouver, BC.
- 1.2 The Work generally includes, but is not limited to:
- Demolition and disposal of one pedestrian bridge, and one storage shed with attached utilities;
  - Remove and dispose of one timber and styrofoam float; and
  - Supply, transport and construct a new pedestrian bridge with foundations and approaches;
- 1.3 The Site is located at 690 Pipeline Road, Stanley Park, Vancouver, British Columbia. The Site is further described in the Tender Documents, including the Site Plan attached as Appendix 3.
- 1.4 The purpose of this ITT is to select a Tenderer with the capability and experience to efficiently and cost-effectively perform and complete the Work.
- 1.5 IF A POTENTIAL TENDERER BELIEVES THAT THE CITY MAY BE UNABLE TO SELECT IT DUE TO A CONFLICT OF INTEREST, BUT IS UNCERTAIN ABOUT THIS, THE POTENTIAL TENDERER IS URGED TO CONTACT THE CONTACT PERSON AS SOON AS POSSIBLE WITH THE RELEVANT INFORMATION SO THAT THE CITY MAY ADVISE THE POTENTIAL TENDERER REGARDING THE MATTER. SEE SCHEDULE “L” FOR AN INDICATION OF THE TYPES OF CONFLICTS OF INTEREST THAT OFTEN ARISE.

**2.0 SUSTAINABILITY**

- 2.1 The City’s Procurement Policy, Ethical Purchasing Policy and related Supplier Code of Conduct found at <http://vancouver.ca/doing-business/selling-to-and-buying-from-the-city.aspx> align the City’s approach to procurement with its corporate social, environmental and economic sustainability values and goals. They evidence the City’s commitment to maximize benefits to the environment through product and service selection, and to ensure safe and healthy workplaces, where human and civil rights are respected. Each Tenderer is expected to adhere to the supplier performance standards set forth in the Supplier Code of Conduct.
- 2.2 A Contractor is to provide environmentally sensitive products or services wherever possible. Where there is a requirement that a Contractor supply materials, and where such materials may cause adverse environmental effects, each Tenderer should indicate the nature of the hazard(s) in its Tender. Furthermore, each Tenderer should advise the City of any known alternatives or substitutes for such materials that would mitigate such adverse effects.

**3.0 TENDER DOCUMENTS**

- 3.1 The Tender Documents are:
- (a) Part A - Introduction, and its appendices:

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**PART A - INTRODUCTION**

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- (i) Appendix 1 - Optional Virtual Information Meeting Attendance Form;
- (ii) Appendix 2 - Response Notification Form; and
- (iii) Appendix 3 - List of Specifications, Drawings and Special Events;
- (b) Part B - Terms and Conditions of ITT Process;
- (c) Part C - Form of Tender (including all schedules),
- (d) Part D - Form of Agreement (including all schedules);
- (e) the Specifications (provided separately and to be incorporated into the Contract when finalized);
- (f) the Drawings (provided separately and to be incorporated into the Contract when finalized);
- (g) all addenda or amendments to the ITT, and all questions and answers in connection with the ITT, issued in writing by the City prior to the Closing Time, as well as any addenda, amendments or questions and answers issued in writing by the City after the Closing Time and accepted in writing by the Tenderers.

3.2 Specifications and Drawings will be made available at the City of Vancouver website.

#### **4.0 OPTIONAL VIRTUAL INFORMATION MEETING**

4.1 Tenderers are invited to attend the optional virtual information meeting (the “**Optional Virtual Information Meeting**”) on May 14, 2021 commencing at **1:30 pm**. Tenderers are encouraged to attend the Virtual Information Meeting since the site is challenging.

4.2 The location of the Optional Information Meeting will be done virtually on Webex.

4.3 Tenderers are asked to pre-register for the Optional Virtual Information Meeting by submitting the Optional Virtual Information Meeting Attendance Form (Appendix 1) to the Contact Person by email prior to May 11, 2021.

#### **5.0 ADMINISTRATIVE REQUIREMENTS**

5.1 Tenderers are asked to indicate their intentions to submit Tenders by submitting the Response Notification Form (Appendix 2) to the Contact Person by email on or before May 25, 2021.

5.2 It is the sole responsibility of each Tenderer to check the City’s website at <http://vancouver.ca/doing-business/open-bids.aspx> regularly for addenda, amendments and questions and answers related to this ITT, which the City may issue at any time during the process, and for any reason, at its discretion.

#### **6.0 CONDUCT OF ITT - INQUIRES AND CLARIFICATIONS**

6.1 The City will have conduct of this ITT, and all communications are to be directed only to the Contact Person named on the cover page. Any communication from potential Tenderers to City

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PART A - INTRODUCTION**

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staff other than the Contract Person regarding the content of this ITT may lead to disqualification of the Tenderer from this ITT process, at the City's sole discretion.

- 6.2 It is the responsibility of each Tenderer to thoroughly examine the Tender Documents and satisfy itself as to the full requirements of this ITT and their acceptability to the Tenderer.
- 6.3 The City welcomes inquiries, requests for clarification or comments from registered Tenderers. All inquiries or comments to the City must be in written form only. All inquiries, requests for clarification and comments must be e-mailed to [jason.lo@vancouver.ca](mailto:jason.lo@vancouver.ca) prior to **May 21, 2021**, and must in each case be addressed to the attention of the Contact Person. In response to inquiries, requests for clarification or comments, the City, in its sole discretion, may make amendments to this ITT or may issue questions and answers to all Tenderers who have submitted a Response Notification Form and post them on the City's website.
- 7.0 Intentionally omitted.

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CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
APPENDIX 1 - INFORMATION MEETING ATTENDANCE FORM

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**CITY OF VANCOUVER**  
**Purchasing Services**

**Invitation to Tender No.**

To acknowledge your intent to attend the Optional Virtual Information Meeting and to ensure that you receive the required information, please submit this form to the person identified below in accordance with the ITT:

**Jason Lo**  
City of Vancouver  
Email: [jason.lo@vancouver.ca](mailto:jason.lo@vancouver.ca)

**Your details:**

**Tenderer's Name:**

\_\_\_\_\_  
"Tenderer"

**Address:**

**Telephone:**

**Key Contact Person:**

**E-mail:**

We will attend the Optional Virtual Information Meeting for: ITT No. PS20201183, "CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT".

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name of Authorized Signatory (Please print)

\_\_\_\_\_  
E-mail Address (Please print)

\_\_\_\_\_  
Date



INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
APPENDIX 2 - RESPONSE NOTIFICATION FORM

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**CITY OF VANCOUVER**  
**Purchasing Services**

**Invitation to Tender No. PS20201183**

To acknowledge your intent to submit a Tender and to ensure that you receive the required information, please submit this form to the person identified below in accordance with the ITT:

Jason Lo  
City of Vancouver  
Email: [jason.lo@vancouver.ca](mailto:jason.lo@vancouver.ca)

**Your details:**

**Tenderer's Legal**

**Name:**

\_\_\_\_\_  
"Tenderer"

**Address:**

**Telephone:**

**Key Contact Person:**

**E-mail:**

We **WILL** ☐ / **WILL NOT** ☐ submit a Tender in response to ITT No. PS20201183, "**CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT**" on or before the Closing Time.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name of Authorized Signatory (Please print)

\_\_\_\_\_  
E-mail Address (Please print)

\_\_\_\_\_  
Date

**INVITATION TO TENDER NO. PS20201183**  
**CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT**  
**APPENDIX 3 - LIST OF SPECIFICATIONS, DRAWINGS & SPECIAL EVENTS**

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**Site Plan:**



**LIST OF SPECIFICATIONS:**

**Supplementary Specifications**

**DIVISION 01 - GENERAL REQUIREMENTS**

- 01 11 01S Summary of Work
- 01 33 01S Project Record Documents
- 01 35 13S Health and Safety Requirements
- 01 42 00S Reference Specifications
- 01 45 23S Quality Control
- 01 55 00S Traffic Control, Vehicle Access and Parking
- 01 57 01S Environmental Protection
- 01 73 00S Execution
- 01 74 19S Waste Management and Disposal\
- 01 89 13 Site Preparation and Grading

**DIVISION 02 - EXISTING CONDITIONS**

- 02 41 16S Structure Demolition

**DIVISION 03 - CONCRETE**

- 03 10 00S Concrete Forming and Accessories

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**APPENDIX 3 - LIST OF SPECIFICATIONS, DRAWINGS & SPECIAL EVENTS**

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03 20 00	Concrete Reinforcing
03 30 20S	Cast-in-Place Concrete
03 35 00	Concrete Finishing
03 41 01S	Precast Structural Concrete

**DIVISION 05 - METALS**

05 12 33S	Structural Steel for Bridges
05 70 00S	Miscellaneous Metals

**DIVISION 06 - WOOD, PLASTICS AND COMPOSITES**

06 05 73	Wood Treatment
06 10 00	Rough Carpentry
06 65 00	Contract Closeout

**DIVISION 31 - EARTHWORKS**

31 15 60S	Dust Control
31 23 10	Excavation and Backfill
31 11 00	Clearing and Grubbing

**DIVISION 32 - EXTERIOR IMPROVEMENTS**

32 01 56	Tree Protection
32 91 21S	Topsoil and Finished Grading

**APPENDIX A - SITE PHOTOGRAPHS**

# *Supplementary Specifications*

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

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Reference No.

## **SUPPLEMENTARY SPECIFICATIONS INDEX**

### **DIVISION 01 – GENERAL REQUIREMENTS**

01 11 01S	Summary of Work
01 33 01S	Project Record Documents
01 35 13S	Health and Safety Requirements
01 42 00S	Reference Specifications
01 45 23S	Quality Control
01 55 00S	Traffic Control, Vehicle Access and Parking
01 57 01S	Environmental Protection
01 73 00S	Execution
01 74 19S	Waste Management and Disposal
01 89 13	Site Preparation and Grading

### **DIVISION 02 – EXISTING CONDITIONS**

02 41 16S	Structure Demolition
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### **DIVISION 03 – CONCRETE**

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32 01 56	Tree Protection
32 91 21S	Topsoil and Finished Grading

## **APPENDIX A – SITE PHOTOGRAPHS**

1.0	Description of Work	.1S	<p><b>Add</b></p> <p>The work under this Contract can be described as follows:</p> <p><b><u>Stanley Park Footbridge Demolition and Design</u></b></p> <ul style="list-style-type: none"><li>• Provide a Construction Environmental Management Plan (CEMP), Quality Management Plan, Health and Safety Plan, Compaction Testing Plan, and Construction Safety Plan; If not specified otherwise, provide these documents to the Owner's Representative at minimum 14 days prior to start of construction;</li><li>• The CEMP must be prepared by a Qualified Environmental Professional licensed to practice in BC.</li><li>• Provide construction schedule at minimum 14 days prior to start of construction;</li><li>• Coordinate with the consultant environmental monitor, consultant arborist, and city archaeologist;</li><li>• Demolition and disposal of the existing timber bridge;</li><li>• Demolition and disposal of existing storage shed, including attached utilities;</li><li>• Removal and disposal of one float made of pressure treated lumber and styrofoam;</li><li>• Supply and install erosion and sediment control measures;</li><li>• Supply, transport and install Lock Blocks/cast in place foundations at the abutments;</li><li>• Supply, transport and install timber framing;</li><li>• Capping of existing water line;</li><li>• Disconnect and disposal of de-energized electrical services during demolition;</li><li>• Construction of the approaches (reinforced concrete slabs);</li><li>• Provide site restoration, clean up and demobilization from the site.</li></ul> <p>The Contractor is responsible for visiting the site and making themselves familiar with all aspects of the projects, including utilities, private property and access surrounding the project.</p>
2.0	Alternate Options	.1S	<p>The Contractor may provide an alternate pedestrian bridge using steel or aluminum materials, as long as the bridge meets the design and geometric requirements stated in the drawings. The materials are to meet the following:</p> <ul style="list-style-type: none"><li>• Structural steel to CSA-G40.20/G40.21 Grade 350W</li><li>• Structural steel and Aluminum to be galvanized. Aluminum to CSA S157-17</li></ul>

- Bridge to be powder coated dark brown colour. Colour samples to be provided to the Owner's Engineer a minimum of 14 days prior to commencing fabrication.
- Welding to conform in quality and workmanship to the latest CSA W59 standard
- Submit shop drawings and calculations to the Owner's Engineer a minimum of 14 days prior to commencing fabrication.
- Shop drawings and calculations to be signed and sealed by qualified Professional Engineer registered with EGBC.
- Review of shop drawings will assess their compatibility with the general design concept only. This review will not relieve the Contractor of responsibility for the design, accuracy of the detail dimensions, general fit-up of parts to be assembled, adequacy of connection details, nor errors or defects contained in the Shop Drawings.
- Indicate framing layout, types, marks, dimensions, materials, member sizes, connections, and anchorages. Provide adequate information to demonstrate that the metallurgy of the weld metal/fasteners will match the metallurgy of the base metal.
- Provide detailed and complete instructions for installation of the bridge, including lifting points and lifting plan, a minimum of 14 days prior to installation.
- Contractor to submit anchor bolt connection design and loading to the Owner's Engineer prior to fabrication.
- Design all connections to avoid recesses, pockets or other features which may entrap dirt, debris and marine deposits. Design connection between bridge and foundation according to applicable codes.
- The bridge shall be designed to carry the following specified loads: uniform live load of 4.8kPa, concentrated live load of 2.3kN at any point, and snow load and wind load as per the latest BCBC.
- The bridge top chord member must be designed for a transverse point load of 1.0kN at any point along the chord.
- Bridge together with guardrail, toe rails and kick plates shall comply with Industrial Health and Safety requirements of WorkSafeBC.
- Bridge shall be provided with full length continuous guardrail on each side.
- Bridge shall be provided with non-slip grating or alternate approved by Owner's Engineer.
- Bridge length and clear width shall be as indicated in the drawings.

- Bridge shall be pony (U) truss design or alternate as approved by the Owner's Engineer.
- The maximum deflection of the bridge under total load (dead load plus full live load) shall not be more than 1/200 of its length. The maximum deflection under live load shall not be more than 1/400 of its length.
- Provide suitable camber for dead load.
- Submit 14 days prior to start of fabrication, the name and qualifications of an independent testing and inspection agency to Owner's Engineer for approval.
- If requested, submit certified copies of mill reports, analyses, and tests covering chemical and physical properties of materials to be used in the Work.
- Welding inspection shall be carried out by a qualified inspection agency, and approved by the Owner's Engineer. Cost of weld testing will be considered incidental to the work of this specification. Welding inspection report will be provided for Owner's Engineer review 7 days prior to onsite installation of bridge.
- Welds may also be inspected and/or tested by an inspector appointed by the Engineer at Contractor's expense. Such inspection and/or testing will not augment or replace Contractor's quality control nor relieve Contractor of contractual responsibility.
- Do not use intermittent welds. Seal weld all joints unless restricted otherwise by applicable CSA codes. File or grind exposed welds smooth and flush.
- Remove and replace portions of welds not meeting acceptance criteria. Re-inspect repaired welds.
- All parts shall be powder-coated dark brown. Provide coating swatch and coating product specification for Owner's Representative's review and approval prior to installation.
- Provide touch-up coating on locations where coating has been removed/damaged during transportation/installation works.



- |            |                                       |   |
|------------|---------------------------------------|---|
| <b>3.0</b> | <b>Construction<br/>Survey Layout</b> | <p>.1S The Owner's Representative will provide survey control CAD files for this Contract. The Contractor shall be responsible for the detailed setting out of the work and recording all data required to compile record drawings. The Contractor will be responsible for the detailed survey of the site to execute construction. A preliminary site plan has been provided as a guide only.</p> <p>.2S Payment for survey layout shall be considered incidental to the work performed and no additional payment will be made to the Contractor.</p> <p>.3S All monuments, iron pins and wooden witness posts, disturbed by the Contractor shall be re-established by Registered British Columbia Land Surveyors, at the Contractor's cost, and the appropriate authorities advised of the revised elevation and coordinates. Contractors are advised that the Owner's Representative will monitor construction to ensure that disturbed pins are replaced at the Contractor's expense prior to completion of the Contract.</p> <p>.4S Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated. The Contractor will provide devices needed to layout and to construct the work and supply such devices as templates required to facilitate the Owner's Representative's inspection of the work.</p> |
| <b>4.0</b> | <b>Interfering<br/>Services</b>       | <p>.1S <b>Add</b></p> <p>.1 Within the terms of this clause, the Contractor is responsible for the protection of existing power and telephone poles, fiber optic lines and other facilities of utility companies during the term of the Contract.</p> <p>.2 The Contractor shall, at their own expense, provide for the uninterrupted flow of all watercourses, sewers, drains, and any other utility encountered during the work.</p> <p>.3 When other utility structures are encountered, the Contractor shall support them to the satisfaction of the Owner's Representative, so as to protect them from damage. The Contractor shall, at their own expense, at once repair and make good any damage which may occur to any watermain, service or utility pipes, or facilities, or to any electrical conductor or telephone facility, or to any sidewalk or crosswalk as a result of this operation.</p> <p>.4 It is the Contractor's responsibility, wherever necessary, to determine the location of existing pipes, valves, or other underground structures. Wherever it is necessary to explore and excavate to determine the location of the existing</p>   |

underground structures, the Contractor shall do so at his/her own expense.

- .5 When existing poles conflict with the proposed works, the Contractor shall consult B.C. Hydro, Fortis, Telus, etc., prior to commencing operations and advise the Owner's Representative of the works to be undertaken. Costs associated with pole holding/support are incidental to the work.
- .6 The Contractor shall be responsible for coordinating the Work, where necessary, with third parties, including, but not limited to B.C Hydro, TELUS, telecommunication companies, Fortis BC, Owner forces or other utility corporations, and neither the Owner nor the Owner's Representative shall be liable for any delays caused by such third parties or Owner forces.

5.0	Foreign Utility Adjustments	.1S	<b>Add</b> The Contractor may be asked for adjusting foreign utilities during the construction of the new bridge. All adjustments to foreign utilities must be completed to the satisfaction of the Utility Owner. The Contractor should note that certain Utility Owners may decide, after tender closing, to complete their own adjustments, if personnel are available. If the Utility Owner decides to complete their own adjustments, the Contractor will not be compensated for these utility adjustments but Contractor will coordinate the adjustments with the Utility Owner.
6.0	Permits from Outside Agencies	.1S	<b>Add</b> The Contractor is responsible to obtain and pay for all permits required from outside agencies. The Contractor is also responsible to obtain and pay for all required City of Vancouver installation and trade permits prior to commencing works.
7.0	Pathway and Driveway Restoration	.1S	Existing pathways and driveways shall be reconstructed and reinstated to ensure proper drainage and appearance to match existing finish, and in accordance with the Standard Drawings.
8.0	Use of the Site	.1S	The bridge site is located within the miniature railway tracks inside Stanley Park. The bridge is located over a man-made pond. Contractor is to use the site with the following conditions: <ul style="list-style-type: none"><li>• Assume responsibilities for work areas for performance of this work. Construction staging area will be located in a section of parking lot adjacent to the site, to be reviewed and approved by the Owner.</li><li>• Be responsible for coordination of all work activities on site, including the work of other Contractors engaged by the Vancouver Board of Parks and Recreation.</li><li>• Perform work in accordance with Contract Documents.</li></ul>

- Do not unreasonably encumber the site with material or equipment.
- Accept liability for damage, safety of equipment and overloading of existing equipment.
- Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as directed by the Owner's Representative.
- Attend all progress, safety and site security orientation meetings.

**END OF SECTION**

**1.7 Recording Actual  
Site Conditions** .5S

***Add***

The Contractor will keep one set of drawings on-site that will be marked up in red ink identifying all work completed and any changes made during the construction. This copy will be turned over to the Owner's Representative within 5 days of completion of all works.

The Contractor shall be responsible for the detailed setting out of the work and recording all data required to compile record drawings. All test results and reports shall be sent to the Owner's Representative no more than five (5) days after the tests have been performed.

Payment for recording data for record drawings shall be considered incidental to the work performed and no additional payment will be made to the Contractor.

**END OF SECTION**

- |     |  |     |   |
|-----|--|-----|---|
| 1.0 | <b>Action and<br/>Informational<br/>Submittals</b> | .2S | <p><b><i>Delete</i></b> and <b><i>replace</i></b> with</p> <p>The Contractor will prepare and submit a written Health and Safety Plan to the Owner's Representative a minimum of fourteen (14) business days prior to commencement of any work. The Health and Safety Plan shall provide details on safe working near excavations, during demolition and dismantling, maintaining safe access to and from the worksite, required signage and any other applicable items required for managing health and safety on-site during the Construction.</p> <p>All works shall be in strict compliance with WorkSafe BC Industrial and Safety Regulations Section 24 when working near or under any overhead power lines. The Contractor must be fully aware of the danger to workers and shall take all necessary safety precautions when working near to existing utilities, such as high pressure gas, water line and BC Hydro lines.</p> |
|-----|--|-----|---|

**END OF SECTION**

- 1.2      **Reference Vancouver Board of Parks and Recreation Specifications**      .23S      **Add**  
The Vancouver Board of Parks and Recreation has produced standard technical specifications, which apply to construction on Parks and Recreation projects. This contract will refer to specific specifications as a reference and will be binding. A copy of these specifications is attached near the end of this document.
- 1.2      **Reference City of Vancouver Construction Specifications**      .24S      **Add**  
The City of Vancouver has produced construction specifications to provide standards, specifications, and procedures to ensure that construction work on City streets and parks are carried out in accordance with the best available standards and procedures to provide a safe and quality product and to minimize maintenance requirements and reduce life cycle costs. All references to Specifications, Master Specifications, Master Municipal Specifications, Technical Specifications, and other similar documents, shall be taken to mean the Master Municipal Construction Documents (MMCD) Platinum Edition, Specifications, and Standard Detail Drawings, as amended by the City of Vancouver Supplemental General Conditions, City of Vancouver Construction Specifications and the City of Vancouver Standard Detail Drawings. The City of Vancouver Supplemental General Conditions, Construction Specifications and Standard Detail Drawings supersede those within the MMCD where noted. In all other areas, the MMCD, Specifications and Drawings are applicable. As such, users of this Manual will also need to refer to the following separate manuals: Master Municipal Construction Documents (MMCD) Platinum Edition, City of Vancouver Standard Detail Drawings and City of Vancouver Supplemental General Conditions. This manual has been coded and indexed to parallel the sections and titles of the Master Municipal Construction Documents (MMCD) Platinum Edition. It also includes additional index numbers (sections) not currently used in the MMCD documents (denoted with an S, such as 32 15 01S). These additional sections reflect specific Work required for working on the City of Vancouver's infrastructure systems.
- This contract will refer to this document as a reference and will be binding. To obtain a digital copy of these specifications go to:
- <https://vancouver.ca/files/cov/engineering-construction-specifications.PDF>
- 1.2      **Reference Canadian National Master Construction Specification**      .25S      **Add**  
The Government of Canada has produced master specification for construction projects in Canada. The MMCD specification numbering system follows the National Master Specifications. For specifications in this document that do not correspond to a MMCD specification, the Contractor shall follow the NMS specification. This contract will refer to this document as a reference and will be binding. To obtain a digital copy of these specifications go to:

<https://nrc.canada.ca/en/certifications-evaluations-standards/canadian-national-master-construction-specification/nms-overview>

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|-----|---|------|---|
| 1.2 | <b>Master Municipal Construction Documents</b>          | .26S | The Supplementary Specifications contained herein must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II ( <b>Platinum Edition 2009</b> ) as identified in the Instructions to Tender.  |
| 1.2 | <b>Format and Numbering System</b>                      | .27S | The Supplementary Contract Specifications follow the same format and numbering system as the Master Municipal Specifications, but is differentiated from it by having the letter "S" placed after the section number.   |
| 1.2 | <b>Reference Specifications for Bridge Construction</b> | .28S | <b>Add</b><br>The Provincial Ministry of Transportation and Infrastructure has produced a 2016 Standard Specifications for Highway Construction (Volume 1 & 2), which applies to heavy civil materials and bridge construction and will be referenced in this document as SS. Description of the supply, shipping, installation and payment of the structural materials are described in this publication. This contract will refer to this provincial document as a reference and will be binding. To view or to obtain a digital copy of these specifications go to:<br><br><a href="http://www2.gov.bc.ca/gov/content/transportation/transportation-infrastructure/engineering-standards-guidelines/standard-specifications-for-highway-construction">http://www2.gov.bc.ca/gov/content/transportation/transportation-infrastructure/engineering-standards-guidelines/standard-specifications-for-highway-construction</a> |
| 1.2 | <b>Canadian Construction Documents Committee</b>        | .29S | <b>Add</b><br>This Project will follow the Canadian Construction Documents Committee CCDC2 – 2008 Stipulated Price Contract. All items related to Agreements, Definitions, General Conditions shall follow to CCDC2 - 2008.   |

**END OF SECTION**

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| 1.3  | <b>Inspection Services</b> | .6S | <p><b>Add</b></p> <p>The Contractor will perform all of the Quality Control (QC) testing to the satisfaction of the Owner's Representative to ensure that the requirements of the Contract are being met. The quality control plan shall be made available to the Owner's Representative for review 10 days prior to start of construction.</p> <p>The Owner's Representative will implement a quality assurance (QA) program by auditing the Contractor's quality control program and by inspection at its discretion. The Contractor shall notify the Owner's Representative at least 14 days before fabrication is to commence. In addition, the Contractor shall provide a minimum of 48 hours notice to the Owner's Representative that a product will be available for inspection and/or certification by the Owner's Inspector. If the schedule is subsequently changed, the Contractor shall provide the 48 hour notice from the time that the Owner's Representative is notified of this change.</p>                                       |
| 1.13 | <b>Concrete Testing</b>    | .1S | <p><b>Add</b></p> <p>Concrete testing will be performed to the latest version of CSA A23.2. The concrete samples must be taken as close to the point of final deposit into the form as is practicable. All testing personnel shall be certified under CSA A283 or certified as an (ACI) Concrete Field Testing Technician – Grade 1 (minimum).</p> <p>Concrete Quality Control strength testing will be carried out by the Contractor and shall be the Contractor's cost. Where initial tests fail and subsequent testing is deemed necessary by the Owner's Representative, the cost of the subsequent testing shall be the responsibility of the Contractor.</p> <p>If the Owner's Representative requests additional tests on the project by the Contractor's appointed testing agency, the Contractor shall not claim for any cost associated with the delay of testing i.e. standby or return trips.</p> <p>Any independent quality assurance testing carried out or requested by the Owner's Representative will be paid for by the City.</p> |
| 1.14 | <b>Compaction Testing</b>  | .1S | <p><b>Add</b></p> <p>A compaction testing plan shall be submitted by the Contractor to the Owner's Representative for review prior to construction. All results from compaction testing shall be provided to the Owner's Representative. All QC testing and verification shall be incidental to the work performed and no additional payment will be made to the Contractor.</p>  |
| 1.15 | <b>Additional Testing</b>  | .1S | <p><b>Add</b></p> <p>Further materials and Quality Assurance (QA) testing may be carried out as directed by the Owner's Representative on behalf of the City. All QA testing carried out at the Owner's Representative's</p>  |



direction will be paid for by the Owner. Where any quality control tests fail and subsequent Quality Assurance testing is deemed necessary by the Owner's Representative, the cost of the subsequent testing shall be the responsibility of the Contractor.

**END OF SECTION**

- 1.0      **General**      .5S      *Delete* and *replace* with  
Inform all owners or occupants of properties where access is  
affected in advance of proposed road/sidewalk/trail closures.  
Deliver a letter written to the Vancouver Board of Parks and  
Recreation not less than two weeks (14 days) prior to onsite  
construction.
- Notify the property owners directly affected by the work min. two  
weeks (14 days) in advance of commencement of onsite  
construction.
- Cost of notifying the owners of ensuing construction and delivery of  
letters is incidental to the Contract.

**END OF SECTION**

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| 1.4 | <b>Environmental Protection</b> | .4S  | <p><b>Add</b></p> <p>The Contractor is responsible for all necessary measures required to prevent the transportation of any silt or other deleterious material from the site into any fish bearing watercourses or their tributaries. All requirements of the Ministry of Environment, Lands and Parks, Fish and Wildlife Branch and Fisheries &amp; Oceans Canada, with respect to air, earth and water pollution, must be strictly adhered to. Construction Environmental Management Plan must be submitted to the environmental consultant for review at least 2 weeks prior to start of construction.</p> <p>CEMP shall be based on the Environmental Management Plan which will be provided to the contractor for reference.</p> |
|     |                                 | .5S  | <p><b>Add</b></p> <p>Contractor shall immediately contain and clean up any leaks and spills of prohibited materials on the Project Site.</p>  |
|     |                                 | .6S  | <p><b>Add</b></p> <p>Contractor shall immediately notify the Owner, Consultant Environmental Monitor, and Owner's Representative of any leaks or spills of prohibited materials that occur on the job site.</p>   |
|     |                                 | .7S  | <p><b>Add</b></p> <p>Contractor shall ensure that any fuel stored on-site is located at least 30m from the nearest watercourse and storm/sewer drains, and is placed within a bermed and lined area, in order to prevent leaks or spills into the environment..</p>   |
|     |                                 | 8S   | <p><b>Add</b></p> <p>The Consultant Environmental Monitor will from time to time inspect the construction methods for conformance with applicable environmental regulations. If the Environmental Monitor considers that the Contractor's work is not in conformance with applicable regulations, the contractor shall halt that portion of work until monitor considers it acceptable.</p>   |
|     |                                 | .9S  | <p><b>Add</b></p> <p>Inspections by the monitor shall not relieve the Contractor of his responsibilities with respect to environmental protection.</p>  |
|     |                                 | .10S | <p><b>Add</b></p> <p>Contractor shall assume responsibility for ensuring all necessary environmental protection and management procedures are adopted to ensure compliance with relevant environmental regulations.</p>   |

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| 1.9 | <b>Archaeological<br/>Historical<br/>Resources</b> | .1S | <p><b>Add</b></p> <p>Contractor will be provided a copy of the Chance Find Management Procedure (CFMP) and is required to retain a copy of the Chance Find Management procedure (CFMP) in their site trailer. All workers will be required to read and be familiar with the CFMP for the project. Immediately cease work, follow CFMP, and immediately inform all personnel as per the procedure, if any archaeological or historical resources are encountered during construction. Leave these resources in-place and do not disturb them in any way following the CFMP.</p> |
|-----|--|-----|--|

**END OF SECTION**

3.1	<b>Mobilization and Demobilization</b>	.1S	<b>Add</b> Payment for all work related to mobilization and demobilization, including transportation, staging, traffic control, permit applications and local authorization for parking equipment to complete all work under this Contract will be based on the submitted pricing tables. Contractor shall refer to the CCDC contract for all payment terms and applications requirements.
3.2	<b>Temporary Drainage and Temporary Structures</b>	.1S	<b>Add</b> All required temporary drainage facilities, measures for control of ground water during construction and restoration of temporary drainage ditches after construction shall be considered as incidental to work being performed under this Contract and no separate payment will be made for this work.  Discharge of water from temporary drainage facilities must meet provincial and federal water quality and permit requirements.  All temporary structures including formwork and temporary ramps/ timber sleepers used to cross over railroad tracks or other temporary structures required for completing the work shall be considered incidental to the work performed under this Contract and no separate payment will be made for this work. If requested by the Owner, after construction is completed all temporary ramps/timber sleepers used to cross over railroad tracks will be provided to the Owner without additional charge.  Temporary removal of existing fence shall be considered as incidental to the work being performed under this contract and no separate payment will be made for the work. Contractor will also relocate, store and re-construct these fences to existing/better condition with no additional costs to the Owner.
3.4	<b>Earthwork Volume Calculations</b>	.1S	All the units of measurement for payment on earthwork and gravel volumes in this Contract are metric units and represent bank cubic meters (geometrical volume only). The Contractor is to make the necessary adjustments for expansion factors in the price bid. The Contractor shall be compensated for geometrical volumes only.
3.5	<b>Disposal Site</b>	.1S	The Contractor is responsible for the provision of all off-site disposal sites for materials that are to be removed from the construction sites in this Contract. The Contractor is responsible for all fees, permits and costs associated with the appropriate off-site disposal of materials.
3.6	<b>Safety Procedures</b>	.1	This procedure shall be used as a guideline only. The Contractor shall be responsible for familiarization with this and all WorkSafe BC.
3.7	<b>Safety - Work Near Overhead</b>	.1S	All works shall be in strict compliance with WorkSafe BC Industrial and Safety Regulations Section 24 when working near or under

**and  
Underground  
Power Lines or  
Other Utilities**

any overhead power lines.

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

**3.8 Metric Units of Measurement .1S**

All the units of measurement for payment in this Contract are metric units as modified by the internationally agreed S.I. Units (System International).

However, as the construction industry is not entirely converted to S.I. Units, some conversions will need to be made for purpose of month end and Final Progress Estimates as determined by the Owner's Representative.

The following conversion factors will be used in this Contract:

1 ton	=	0.907 tonnes
1 cubic yard	=	0.765 cubic metres
1 foot	=	0.3048 metres

Earth = 1442 kg/m<sup>3</sup>  
Wet Gravel (1/2-2") = 2002 kg/m<sup>3</sup>  
Loose Sand = 1442 kg/m<sup>3</sup>  
Broken granite = 1650 kg/m<sup>3</sup>  
Asphalt = 2.35 tonnes/m<sup>3</sup>

**3.9 Weigh Ticket Control .1S**

**Add**

Items in the Schedule of Quantities and Prices measured by weight will be paid for as stipulated in the appropriate section of the Specific Provisions or the Specifications of the Contract. In addition, the Contractor will adhere to the following conditions:

- .1 Payment will be made only for material completely incorporated into the works as witnessed by the Owner's Representative.
- .2 Weigh tickets shall be received by the Owner's Representative immediately preceding the placement of the material in the works.
- .3 The Contractor is to arrange for material supply in such a manner that weigh tickets can be collected and verified at specific locations on the project as arranged with and approved by the Owner's Representative.
- .4 The Owner's Representative shall have the right to refuse approval of tickets received after the day of placement.

If the Contractor fails to meet any of these conditions, then the Owner's Representative shall have the right to refuse approval of

weigh tickets presented.

END OF SECTION

**1.15 Disposal of Wastes** .6S

**Add**

All demolished materials shall become the property of the Contractor and shall be removed from the Site.

The Contractor is responsible for the provision of all off-site disposal sites for materials that are to be removed from the construction sites in this Contract. The disposal sites for all types of material must be approved by the Owner's Representative prior to disposal use.

All excavated soil from the site, will be transported and redeposited within Stanley Park as directed by the Owner's Representative and City Archaeologist.

The Contractor is responsible for all fees, permits and costs associated with the off-site disposal of materials and on-site transportation of excavated soil.

.7S

**Add**

The Contractor shall reinstate all disturbed areas and structures including railway tracks outside the area of removal of the structures to conditions which existed prior to commencement of the Work, or as directed by the Owner's Representative.

**END OF SECTION**



<b>1.0</b>	<b>General</b>		
<b>1.1</b>	<b>General Requirements</b>	.1	Refer to Division 1, General Requirements.
		.2	This section of the specification forms an integral part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.
<b>1.2</b>	<b>Description</b>	.1	Supply all products, labour, equipment, and services necessary to prepare the site suitable for subsequent work indicated in the contract documents, including but not limited to: <ul style="list-style-type: none"><li>.1 Preservation and protection of existing plants, site features and intertidal habitat.</li><li>.2 Draining of wet areas of the site by means of temporary ditches, pumping and other means approved by the Owner's Representative and Consultant Environmental Monitor.</li><li>.3 Trimming of tree roots only where explicitly shown on drawings and as required to obtain satisfactory base for approach ramps. Tree root trimming can only be conducted by an I.S.A. Certified Arborist.</li><li>.4 Stripping and disposal of all existing materials to prepare for approaches and base as detailed. All other deleterious materials, including unsuitable material under areas to be filled, shall be treated as over excavation.</li><li>.5 Stripping and removal of all deleterious materials.</li><li>.6 Stripping and stockpiling topsoil (if any).</li><li>.7 Grading of the site, including the importation of and relocation of fill to create compacted subgrades as required for subsequent work as detailed and specified.</li><li>.8 Work from existing conditions and grades shown on plans. The intent is to balance structural cut and fill on site. Grades shown on drawings may be revised in conjunction with the Owner's Representative to achieve this balance.</li><li>.9 Placing approved fill, subbase, base and associated materials as detailed.</li><li>.10 Finished grading of the site for landscaping including at the approach ramp.</li></ul>
<b>1.3</b>	<b>Related Work</b>	.1	Tree Protection <span style="float: right;">Section 32 01 56</span>
<b>1.4</b>	<b>Quality Assurance</b>	.1	Codes and Standards: Perform backfilling work in compliance with applicable requirements of governing authorities having jurisdiction.

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|-----|-----------------------|----|---|
|     |                       | .2 | Inspection: The Owner's Representative or his representative is to inspect and approve all stages of the work. The Contractor shall give forty-eight (48) hours notice to the Owner's Representative when inspection is required.   |
| 1.5 | Job Conditions        | .1 | Use all means necessary to control dust, dirt and debris on and near the worksite, including Construction Access Route (C.A.R.), caused by the Contractor's operations. Thoroughly moisten all surfaces, when necessary, to prevent dust being a nuisance in adjoining areas.   |
|     |                       | .2 | Use all means to protect all materials of this Section before, during and after installation. Protect all trees. Make good any damage. Follow Vancouver Park Board Tree Protection Guidelines as required. Protect existing fencing, walls, tunnel and railway structures, benchmarks, surface or underground utilities that are to remain. Notify the Owner's Representative immediately if any damage occurs. Restore to original or better condition, unless directed otherwise. |
|     |                       | .3 | Protect adjacent construction and all surrounding properties, including municipal streets, sidewalks, above and under ground services.  |
|     |                       | .4 | Obtain approval from Owner's Representative and Consultant Arborist on designated Construction Access Route (C.A.R.) Ensure C.A.R. is appropriately signed and maintained during course of construction. Remediate to original condition prior to Substantial Performance.  |
| 1.6 | Site Conditions       | .1 | Start of work shall signify acceptance of site as satisfactory and no claim will be recognized for extra work nor any allowance made for defective work due to site conditions.   |
|     |                       | .2 | Investigate the site to verify information shown in Contract Documents. Verify that existing grades are as shown on Drawings and notify Owner's Representative immediately of any discrepancies.  |
|     |                       | .3 | Review existing site conditions with regard to subsurface conditions. Data on indicated subsurface conditions is not intended as representations or warrants of continuity of such conditions. Additional test borings and other exploratory operations may be made by Contractors at no cost to the Park Board. Notify Owner's Representative and City Archaeologist prior to carrying out any such work.  |
| 1.7 | Testing and Approvals | .1 | A testing agency will be retained by the Owner or its representative to perform periodic testing of the subgrade preparation if required, to ensure the requirements of the Contract and General Conditions   |

			are being met. The Contractor at no extra cost to the contract shall provide any retesting due to non-conformance.
		.2	Cooperate and assist as required the testing agency in the execution of their work.
<b>1.8</b>	<b>Materials Definitions</b>	.1	The terms "subgrade", "subbase", and "base", wherever used in the contract documents shall mean materials that meet the requirements stated herein for each class of material.
<b>1.9</b>	<b>Submittals</b>	.1	If required, provide representative samples for subbase, base, drain rock (clear crush), or any another aggregate materials used on site, at least fourteen (14) days before scheduled time of delivery to site.
<b>2.0</b>	<b>Products</b>		
<b>2.2</b>	<b>Fill</b>	.1	Refer to Section 31 23 10 Excavation and Backfill.
<b>2.3</b>	<b>Subbase</b>	.1	Refer to Section 31 23 10 Excavation and Backfill.
<b>2.4</b>	<b>Drain Rock, Clear Crush</b>	.1	5mm to 19mm uniform clear crush.
<b>2.5</b>	<b>Filter Fabric</b>	.1	Needle-punched, non-woven filter fabric, Nilex 4551 as manufactured by Nilex, or pre-approved equivalent.
<b>2.6</b>	<b>Base</b>	.1	Refer to Section 31 23 10 Excavation and Backfill.
<b>3.0</b>	<b>Execution</b>		
<b>3.1</b>	<b>Limits of Work</b>	.1	Before starting work identify the limits of work on site by accurate survey. Prior to grading, excavating or trenching the Contractor shall locate and expose all utility lines, drain pipes and all other services which are within the areas of this work, and where the existing services are located less than 300mm below the proposed depth of trenching or excavation, such existing services shall be exposed by hand and adequately marked and protected. All separation distance requirements of the local authorities having jurisdiction over the service shall be observed. Contractor will also provide utility locate survey drawing/sketch to the Owner's Representative prior to proceeding with grading, excavating or trenching work.
		.2	Take all measures necessary to prevent the following activities outside the limits of work except as authorized by the Owner's Representative: <ul style="list-style-type: none"><li>.1 Travel of equipment and vehicles</li><li>.2 Storage of materials or equipment</li><li>.3 Stockpiling of soil or excavated materials</li></ul>

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|------------|-------------------------------|----|--|
|            |                               | .4 | Burning  |
|            |                               | .5 | Excavating or trenching  |
|            |                               | .6 | Cutting of roots or branches   |
|            |                               | .7 | Disposal or spilling of toxic matter   |
| <b>3.3</b> | <b>Unsuitable Material</b>    | .1 | Remove from the site all material unsuitable for use as fill.  |
| <b>3.4</b> | <b>Drainage</b>               | .1 | Drain and/or dewater all areas to be regraded using methods acceptable to the Owner's Representative, Consultant Environmental monitor and local environmental authorities having jurisdiction.  |
|            |                               | .2 | Slope rough grades away from any building envelopes/ structures at a minimum 2%, unless specifically shown on drawings or directed by Owner's Representative.  |
| <b>3.5</b> | <b>Excavation and Filling</b> | .1 | Cut, fill and import material as required to create subgrades as detailed and specified herein.  |
|            |                               | .2 | Remove and appropriately dispose of all deleterious material and ponded water from the site.   |
|            |                               | .3 | Refer to Section 31 23 10 Excavation and Backfill.   |
| <b>3.6</b> | <b>Grading</b>                | .1 | DO NOT GRADE SOIL WHEN SOIL IS WET. Uniformly grade areas within limits of grading under this Section. Smooth finished surface within specified tolerances, compact with levels or slopes between elevations as shown, or between such points and existing grades. |
|            |                               | .2 | Grade areas to drain away from structures and to prevent ponding. Finish surfaces free from irregular surface changes and to allow for specified depths of base courses and finished materials.  |
|            |                               | .3 | Remove particles larger than 100mm diameter from the surface leaving a smooth compacted surface to required subgrade.  |
|            |                               | .4 | Compact subgrade as required, to stated densities in the above section.  |
| <b>3.7</b> | <b>Subbase and Base</b>       | .1 | Refer to Section 31 23 10 Excavation and Backfill.   |
| <b>3.8</b> | <b>Tolerances</b>             | .1 | Maximum subgrade tolerance is $\pm 25$ mm when checked with a 3 m straight edge placed in any direction, and the subgrade shall not be consistently above or below the design grades.  |
| <b>3.9</b> | <b>Maintenance</b>            | .1 | Protect newly graded areas from traffic, erosion, and standing   |

water and free of debris. Provide temporary drainage ditches from graded areas as required.

- .2 The site surface shall always be contoured to direct precipitation and run-off to drainage ditches or slopes leading away from the work area. Surfaces shall always be left graded smooth and rolled with a smooth drum roller to minimize infiltration of water and subsequent deterioration of material due to excessive moisture content. The surface shall never be left with undrained depressions or with a rough texture.
- .3 Repair and re-establish grades in settled, eroded and rutted areas to specified tolerances.
- .4 Repair and make good and clean up any damage and/or debris to municipal roads and streets caused by work of this Contract. Obtain and pay for all permits required for use of municipal roads and streets.

### 3.10 Cleaning

- .1 Remove excess excavated material, trash, debris and waste materials and dispose of off site as directed by Owner's Representative at no additional cost to the Park Board.

**END OF SECTION**

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|-----|--|------|--|
| 1.4 | <b>Administrative Requirements</b>                       | .6S  | <p><b>Add</b></p> <p>No Record drawings of the existing bridge are provided as part of the set of Drawings for this Contract. Appendix 1 includes photographs that shows the features of the existing structures to be demolished.</p>   |
| 1.5 | <b>Submittals</b>  | 0.5S | <p><b>Delete</b> and <b>replace</b> with</p> <p>The Contractor shall submit three (3) hardcopy sets of complete plans and details of the proposed demolition of the bridge and storage shed, to the Owner's Representative for review at least two (2) weeks prior to the commencement of any demolition work.</p> <p>The demolition procedure shall be prepared by the Contractor and needs not to be sealed by a professional engineer registered with EGBC, but shall clearly define procedures, equipment and the proposed schedule of work. Demolition work shall not start until the Owner's Representative has completed the review process.</p>  |
| 3.2 | <b>Demolition of the Existing Bridge, Shed and Float</b> | .24S | <p><b>Add</b></p> <p>The Contractor shall provide all labour, materials and equipment for the demolition and removal of the existing timber bridge, timber shed and float structure. Partial demolition of slab may be required to install bridge foundations</p> <p>The timber single span bridge is approximately 6.5m long x 0.75 wide, with 0.915m tall handrails on one side.</p> <p>The timber shed is 2.2m tall. The plan area of the shed is approximately 2.5m x 2.5m. The shed sits on a concrete slab which is to remain in place.</p> <p>The float is approximately 2m wide x 5m long x 0.5m thick</p>   |
|     |  | .25S | <p><b>Add</b></p> <p>The Contractor shall remove, haul and dispose of any/all debris produced by the demolition procedures.</p> <p>The Contractor shall carry out demolition in accordance with CSA-S350-M80 (R2003), "Code of Practice for Safety in Demolition of Structures", with these Special Provisions and the requirements of Part 20 of the Workers Compensation Act, Occupational Health and Safety Regulations, BC.</p> <p>At the completion of each day's Work, the Contractor shall leave all material and equipment at the Site in a secure, stable, and safe condition. The Contractor shall take all appropriate measures to ensure that, during demolition, its operations shall not cause an obstruction to other work in the area</p> <p>Any debris that falls into the pond shall be immediately recovered by the Contractor and the Consultant Environmental Monitor and</p> |

Owner's representative shall immediately notified. Demolition procedures that result in the existing structures collapsing into the waterway will not be permitted.

Contractor will supply and install a washing station for cleaning boots, equipment or vehicles. The pond and its water shall not be utilized for any cleaning activities.

**3.4 Payment**

.1S

**Add**

Payment for the demolition and removal of all other material on the project will be made at the Lump Sum Price shown on the contract documents.

.2S

Payment shall include the preparation and submission of demolition procedures, the supply of all labour, materials, equipment and services required for the complete demolition of the structures, off-site disposal of demolition debris, backfilling, trimming of slopes, clearing of vegetation, fees and permits, site clean-up and all other costs associated with the demolition.

**END OF SECTION**

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|-----|-----------------------------|-----|--|
| 3.1 | Fabrication and<br>Erection | .4S | <b>Delete</b> and <b>replace</b> with<br>Formwork shall be in accordance with SS 211.  |
| 3.3 | Payment                     | .1S | <b>Add</b><br>Formwork for the cast-in-place concrete work will be included in the price per cubic meter for cast-in-place concrete. No separate payment will be made for the supply, transport and installation of the formwork required as part of another Item. Payment shall be considered incidental to the concrete work being considered. |

**END OF SECTION**



<b>1.0</b>	<b>General</b>		
<b>1.1</b>	<b>General Requirements</b>	.1	Refer to Division 1, General Requirements
		.2	This section of the specification forms an integral part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.
<b>1.2</b>	<b>Description</b>	.1	Supply all products, labour, equipment, and services necessary to install reinforcing steel as indicated in the contract documents.
<b>1.3</b>	<b>Related Work</b>	.1	Concrete Formwork <span style="float: right;">Section 03 10 00</span>
		.2	Cast-in-Place Concrete <span style="float: right;">Section 03 33 00</span>
<b>1.4</b>	<b>Reference Standards</b>	.1	Except as stated otherwise, all work shall conform to the following: <ul style="list-style-type: none"> <li>.1 B.C. Building Code 2018.</li> <li>.2 City of Vancouver Building Bylaw No. 6134.</li> <li>.3 CAN/CSA-A23.2 Methods of Tests for Concrete</li> <li>.4 CAN/CSA-A23.3 Code for the Design of Concrete Structures for Buildings.</li> <li>.5 CAN/CSA- A23.1 Concrete Materials and Methods of Concrete Construction</li> <li>.6 CAN/CSA G30.5–M Welded Steel Wire Fabric for Concrete Reinforcement.</li> <li>.7 CAN/CSA G30.12-M Billet-Steel Bars for Concrete Reinforcement.</li> <li>.8 CAN/CSA W186–M Welding of Reinforcement Bars in Reinforced Concrete Construction.</li> <li>.9 ACI manual of Standard Practice for Detailing</li> </ul>
		.2	Where the standard is referred to in this specification is shall mean the documents specified in this clause and their referenced documents.
<b>1.5</b>	<b>Inspection</b>	.1	All steel for the section shall be placed before pouring of concrete is begun.
<b>1.6</b>	<b>Testing and Approvals</b>	.1	As per Section 03110 - Concrete/Reinforcement Testing.
<b>1.7</b>	<b>Submittals</b>	.1	Submit mill certificates properly correlated to the materials in accordance with CAN/CSA G30.18.

**2.0 Products**

**2.1 General** .1 Products shall satisfy the requirements of the standard unless otherwise specified herein or on the drawings.

**2.2 Materials** .1 Reinforcing bars will conform to CAN/CSA G30.18, Grade 400 R, unless otherwise specified herein or on the drawings.

.2 Reinforcing not in accordance with the above standards shall not be used.

.3 Reinforcing bars to be welded will conform to CAN/CSA G30.18, Grade 400 W.

.4 Welded wire fabric will conform to CAN/CSA G.30.5, size and gauges as shown on the drawings.

.5 Welded wire fabric for slabs will be delivered in flat sheets only.

.6 Accessories: tie wire, hangers, bolsters, bar supports and spacers adequate for strength and support of reinforcing construction conditions.

**3.0 Execution**

**3.1 General** .1 All phases of concrete reinforcement work shall be in accordance with the standard unless otherwise specified herein or on the drawings. Workers who are skilled and experienced in their trade shall do the work.

.2 The Contractor shall notify the Owner's Representative at least 48 hours before any concrete is placed in order that an inspection may be made.

.3 Ship bundles of bar reinforcement, clearly identified in accordance with the bar list.

**3.2 Fabrication** .1 Fabricate reinforcing to CSA-A23.1.

.2 Reinforcing bars will be cold bent. Bars will not be straightened or re-bent.

.3 Splices in reinforcing bars at locations not shown on the Drawings must be submitted for review by the Owner's Representative. Such splices will conform to the standards.

**3.3 Placing** .1 Reinforcing of size and shapes shown on the Drawings will be accurately placed in accordance with the Drawings and the requirements of the standard.

- .2 Reinforcement shall be adequately supported by chairs, spacers, support bars, hangers, or other accessories, and secured against displacement within the tolerances permitted in the standard. Support devices contacting surfaces exposed to the exterior shall be non-corroding.
- .3 Reinforcing bars that are not part of the structural design or drawing, and whose only function is supporting other reinforcing in lieu of other support accessories, will be considered as accessories.
- .4 Clean reinforcement before concrete is placed.
- .5 Contractor to coordinate a site meeting for the Owner's Representative to review reinforcing steel and placing before concrete is placed. A minimum of 48 hours notice is required for this review meeting.

**3.4 Welding**

- .1 Any welding of reinforcing steel shall be in accordance with CAN/CSA W186.
- .2 Copies of the Canadian Welding Bureau approved welding procedure and certificate of current operator qualification shall be submitted to the Owner's Representative prior to commencement of welding.

**END OF SECTION**

1.0	General	.1S	<b>Delete</b> and <b>replace</b> with The concrete work shall be in accordance with MoTI Standard Specifications SS 211, 413, 931 and 933, and the general notes and Specifications shown on the Contract Drawings.
1.4	Construction Quality Control	.2S	<b>Add</b> The Contractor shall be responsible for the design and quality control for all concrete used on this project. All concrete materials and admixtures for concrete shall conform to the requirements of SS 211.04, unless otherwise specified in these Provisions and the Drawings.
1.5	Measurement and Payment	.6S	<b>Add</b> Payment for additional concrete works will be made in accordance with the applicable Unit Price per cubic metre as listed in the contract documents. No payment will be made under this Item for concrete supplied as part of another Item.  Payment for concrete will also include the preparation of all foundation, formwork and reinforcing steel as indicated on the Drawings. All concrete work shall be in accordance with MoTI Standard Specifications SS 211 and 933, unless otherwise specified in these Special Provisions. Payment shall also include quality control, submissions and any falsework and bracings for the formwork as required.
		.7S	<b>Add</b> Payment for preparation and the installation of the sealer will be made at the Unit Price per square meter of concrete surface.
2.2	Concrete Mixes	.1S	<b>Delete</b> and <b>replace</b> with Concrete design mixes will be delivered to the Owner's Representative for approval.
2.3	Forms	.1S	<b>Delete</b> and <b>replace</b> with Formwork and falsework shall be in accordance with MoTI Standard Specifications SS 211.  All formwork or falsework for any cast-in-place components will be considered as formwork.
2.5	Concrete Deck Sealant	.1S	<b>Add</b> The new deck surface and the deck joint shall have an application of Sikadur 55 SLV healer/sealer as per manufacturer's specification. This sealer is a two compound mixture that will seal the concrete down to 2 mils.

- |     |            |     |  |
|-----|------------|-----|--|
| 3.5 | Inspection | .1S | <p><b>Add</b></p> <p>Immediately prior to placement of concrete, carefully inspect all formwork to ensure forms are properly set at required horizontal and vertical alignment, sufficiently rigid, clean, surface treated and ready for placement of concrete. Obtain Owner's Representative's approval of formwork and compacted base.</p> |
|-----|------------|-----|--|

**END OF SECTION**

<b>1.0</b>	<b>General</b>		
<b>1.1</b>	<b>General Requirements</b>	.1	Refer to Division 1, General Requirements.
		.2	This section of the specification forms an integral part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.
<b>1.2</b>	<b>Description</b>	.1	Supply all products, labour, equipment, and services necessary to install broom finish on cast-in-place concrete.
<b>1.3</b>	<b>Related Works</b>	.1	Shop Drawings and Product Data                      Section 01 33 23
		.2	Concrete Reinforcing    Section 03 20 00
		.3	Cast-In-Place Concrete    Section 03 33 00
		.4	Abrasive Blast Finish    Section 03 35 10
<b>1.4</b>	<b>Reference Standards</b>	.1	Concrete finishes shall conform to the requirements of the following standards unless otherwise required by this specification: .1 CSA/CAN3-A23.1, Concrete Materials and Methods of Concrete Construction
<b>1.5</b>	<b>Submittals</b>	.1	Manufacturers product information sheets for all component parts of the concrete installation
<b>2.0</b>	<b>Products</b>		
<b>2.1</b>	<b>Concrete Materials</b>	.1	In accordance with CSA/CAN3-A23.1.
<b>2.2</b>	<b>Bonding Agent</b>	.1	Formulated for bonding new concrete to cured concrete. Acceptable materials include but are not limited to: .1 Daraweld C, Grace Construction Materials .2 Polymer Bonding Agent, Target .3 Concrevisive Liquid LPL, Master Builders
<b>2.3</b>	<b>Non-shrink Grout for Patching</b>	.1	Acceptable materials include but are not limited to: .1 Embeco Mortar, Master Builder's, .2 Fast- Set Patching Concrete, Target

<b>3.0</b>	<b>Execution</b>		
<b>3.1</b>	<b>Finishing of Concrete Surfaces</b>	.1	Broom Finish: On top of concrete slab.
<b>3.3</b>	<b>Repairs to Defects</b>	.1	Should the variation in colour and texture or the appearance of defect(s) including but not limited to honeycombing, rock pockets, chips, cracks, spalls, fins and stains exceed the tolerance of the specification or CAN3-A23.1, whichever is more onerous the concrete work will be rejected. At the discretion of the Owner's Representative rejected concrete, at no cost to the owner will be demolished and replaced by the Contractor.
		.2	At the discretion of the Owner's Representative the Contractor may be given the opportunity to provide in writing accompanied by product information and cut sheets, a detailed methodology of repair of defective concrete. The methodology should reference the manufacturers' written instructions for each product and procedure and shall clearly outline the full process for repair of defective work.
		.3	Should the Owner's Representative approve the defect repair methodology a trial repair will be carried out on the mock up. In the event the mock up was incorporated into the finished work a discrete location will be chosen by the Owner's Representative for testing of the defect repair.
		.4	The acceptance of the repair shall be at the sole discretion of the Owner's Representative. Should the repair not be acceptable to the Owner's Representative the Contractor shall, at no cost to the owner demolish, and replace the defective work.
<b>3.5</b>	<b>Protection</b>	.1	Protect concrete from any damage by the elements and defacement of any nature during construction operation.
		.2	All corners and surfaces subject to possible damage shall be suitably protected with boards or hoardings.
		.3	The Contractor shall make adequate provision to keep all exposed concrete free from laitance caused by spillage, leaking forms or other contaminants. In no event shall laitance be allowed to penetrate, stain or harden on surfaces that have been sandblasted.
<b>3.6</b>	<b>Cleaning</b>	.1	Rubbish, debris and demolition material resulting from work of this section shall be collected regularly, removed from the project site and properly disposed.

- .2 Repair, remove and clean all drips or smears resulting from the work of this section on exposed, finished surfaces or surfaces to be subsequently finished.

**END OF SECTION**



- 3.4      **Payment**      .3S      **Add**  
Payment for lock blocks will be made at the unit price bid. Payment shall include quality control, supply, hauling and placement.

**END OF SECTION**

1.0	General	.12S	<p><b>Add</b></p> <p>Section 05 12 33 refers to those portions of the work that are unique to the supply, transport and installation of structural steel members. This section must be referenced to and interpreted simultaneously with all other sections pertinent to the works described herein.</p>
2.0	Price and Payment Procedures	.4S	<p><b>Add</b></p> <p>Payment for supply, fabrication, shipping and erection of steel pedestrian bridge shall be made at the lump sum price bid.</p>
		.5S	<p><b>Add</b></p> <p>The Owner may require an acceptable declaration from the Contractor transferring ownership of materials to the Owner.</p>
1.3	Reference Standards	.5S	<p><b>Add</b></p> <p>The abbreviated standard specifications for testing, materials, fabrication, supply and installation, referred to herein, are fully described in Section 01 42 00 – Reference Specifications.</p>
1.5.3	Shop Drawings	.5S	<p><b>Add</b></p> <p>Submit shop drawings including fabrication and erection documents and materials list to Owner's Representative for review. Erection documents to be provided a minimum of 14 days prior to onsite installation.</p>
		.6S	<p><b>Add</b></p> <p>Erection drawings: indicate details and information necessary for assembly and erection purposes including:</p> <ul style="list-style-type: none"> <li>• Description of methods.</li> <li>• Sequence of erection.</li> <li>• Type of equipment used in erection.</li> <li>• Temporary bracings (if required).</li> <li>• Lifting points and connections.</li> </ul>
		.7S	<p><b>Add</b></p> <p>Ensure Fabricator drawings showing designed assemblies, components and connections are stamped and signed by qualified Professional Engineer licensed in the province of BC, Canada.</p>
1.6	Delivery, Storage and Handling	.7S	<p><b>Add</b></p> <p>Structural steelwork shall be supplied, fabricated and shipped in accordance with MoTI Standard Specifications SS 421.</p> <p>The Owner may require an acceptable declaration from the Contractor transferring ownership of materials to The Owner.</p>

1.8	Quality Assurance	.3S	<b>Add</b> Submit [1] copy of mill test reports [4] weeks prior to fabrication of structural steel.  Mill test reports to show chemical and physical properties and other details of steel to be incorporated in project.  Provide mill test reports certified by metallurgists qualified to practice in province of BC, Canada.
2.1	Materials	.2S	<b>Delete</b> and <b>replace</b> with Bolts, nuts and washers: to ASTM A193/A193M, Galvanized.
		.9S	<b>Add</b> Welding materials: to CSA W59 and certified by Canadian Welding Bureau.
		.10S	<b>Add</b> Miscellaneous steelwork shall be supplied, fabricated and installed as shown on the Drawings and in accordance with MoTI Standard Specifications SS 422. All miscellaneous steelwork shall be galvanized (or otherwise protected against corrosion or otherwise noted) after fabrication unless otherwise noted on the drawings. Miscellaneous steelwork will also include anchors, bolts and inserts as required to fasten the miscellaneous steelwork.  The prefabricated steel/aluminium bridge shall be powder-coated dark brown. Provide coating specifications for Owner's Representative's a minimum of 1 week for review prior to installation.
2.2	Source Quality Control	.4S	<b>Add</b> Companies to be certified under Division 1 or 2.1 of CSA W47.1 for fusion welding of steel structures and/or CSA W55.3 for resistance welding of structural components.
3.3	Installation	.17S	<b>Add</b> Structural steelwork shall be erected in accordance with MoTI Standard Specifications SS 421.
		.18S	<b>Add</b> Clean with mechanical brush and touch up shop primer to bolts, welds and burned or scratched surfaces at completion of erection.
		.19S	<b>Add</b> Continuously seal members by continuous welds where indicated. Grind smooth.

END OF SECTION

Reference No.  
ISL-32169  
DoS-1220-20-120

- |            |                        |    |   |
|------------|------------------------|----|---|
|            |                        | .3 | For structural steel use high strength bolts to ASTM A325.                        |
| <b>3.0</b> | <b>Execution</b>       |    |   |
| <b>3.1</b> | <b>Quality Control</b> | .1 | Notify the Engineer to allow inspection of fit, welding, bolting and other items. |
| <b>3.2</b> | <b>Finishing</b>       | .1 | Apply Galvacon or approved equivalent to field welds for galvanized steel.        |

**END OF SECTION**

<b>1.0</b>	<b>General</b>		
<b>1.1</b>	<b>General Requirements</b>	.1	The General Conditions of Contract, Division 01 General Requirements and all Addenda thereto form an integral part of and must be read in conjunction with the requirements of this Section.
		.2	This section, along with the drawings, forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.
<b>1.2</b>	<b>Section Includes</b>	.1	Section includes, but is not limited to
		.1	The provision for Wood Treatment
<b>1.3</b>	<b>Related Sections</b>	.1	Section 06 10 00 Rough Carpentry
<b>1.4</b>	<b>Reference Standards</b>	.1	American Wood Preservers' Association (AWPA)
		.1	AWPA M2 [01], Standard for Inspection of Treated Wood Products.
		.2	AWPA M4 [06], Standard for the Care of Preservative Treated Wood Products.
		.2	Canadian Standards Association (CSA International)
		.1	CSA O80 Series-15 - O80S2-[05], Wood Preservation.
		.2	CSA O80.20 1.1-15, This Standard applies to the fire retardant treatment of lumber by pressure processes.
		.3	CSA O80.27 1.1-15, This Standard covers the fire retardant treatment of Douglas Fir, hardwood, softwood, and Poplar plywood by pressure processes.
		.4	CSA O80.201 [M89], This Standard covers hydrocarbon solvents for preparing solutions of preservatives.
		.5	CSA O322 [02], Procedure for Certification of Pressure Treated Wood Materials for Use in Preserved Wood Foundations.
		.3	South Coast Air Quality Management District (SCAQMD), California State (SCAQMD)
		.1	SCAQMD Rule 1113-[04], Architectural Coatings
<b>1.5</b>	<b>Submittals</b>	.1	Submit Submittal submissions: in accordance with submittal procedures outlined in contract documents

- .2 Quality assurance submittals:
  - .1 Submit certificate for preservative treatment and compliance from pressure treater confirming that the lumber has been treated in accordance with project specifications and all applicable standards at least 3 weeks in advance prior to shipping on site.
  - .2 For products treated with preservative by pressure impregnation submit following information certified by authorized signing officer of treatment plant:
    - .1 Information listed in AWP A M2 and revisions specified in CSA O80 Series, Supplementary Requirement to AWP A M2 applicable to specified treatment.
    - .2 Moisture content after drying following treatment with water-borne preservative
    - .3 Acceptable types of paint, stain, and clear finishes that may be used over treated materials to be finished after treatment.
- 1.6 **Quality Assurance**
  - .1 Plant inspection of products treated with preservative by pressure impregnation will be carried out by designated testing laboratory to AWP A M2, and revisions specified in CSA O80 Series, Supplementary Requirements to AWP A M2.
  - .2 Each piece of lumber and plywood for preserved wood foundations to be identified by CSA O322 certified stamp.
  - .3 Regulatory Requirements:
    - .1 Each [board or bundle of fire retardant treated material] [panel] to bear ULC label indicating Flame Spread Classification (FSC), and smoke developed.
  - .4 Timber shipped to site without proper documentation and/or testing may be rejected on site by the Owner's Representative. All lumber shipped to site must be inspected and tagged as per best management practices and industry standards.
- 2.0 **Products**
- 2.1 **Materials**
  - .1 Treated wood material may be either air seasoned or kiln dried as Clause 1.7 of CSA O80.M1-15 (Guide for Purchasers and Specifiers of Treated Wood). Moisture content shall not be more than 19% prior to treatment.
  - .2 Treated wood shall be incised prior to treatment to provide at least the minimum penetration specified without damage and with the least loss of strength.

- .3 Exterior deck, support beams, stringers, and joists to be seasoned and incised per .1 & .2 above shall be pressure treated using Ammoniacal Copper Zinc Arsenate (ACZA) material to the manufacturer's recommendations. Contractor is to be aware of using only fasteners that are compatible with ACZA preservative.
- .4 Deck wearing surface and guardrail assemblies to be un-incised and pressure treated using ACZA per item .1, .2 and .3 (above).

**3.0 Execution**

**3.1 Application  
Preservation**

- .1 Treat exterior wood framing exposed to the elements to CSA O80 Series using AZCA preservative to obtain minimum net retention of 6.4 kg/m<sup>3</sup> of wood.
- .2 Following water-borne preservative treatment, dry material to maximum moisture content of 15%.

**3.2 Application Field  
Treatment**

- .1 Comply with AWPB M4 and revisions specified in CSA O80 Series, Supplementary Requirements to AWPB M2.
- .2 Remove chemical deposits on treated wood to receive applied finish.

**END OF SECTION**



<b>1.0</b>	<b>General</b>		
<b>1.1</b>	<b>General Requirements</b>	.1	This section, along with the drawings, forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.
<b>1.2</b>	<b>Section Includes</b>	.1	Section includes, but is not limited to the following, as shown on drawings. .1 Stringers and blocking .2 Deck .3 Handrail
<b>1.3</b>	<b>Related Requirements</b>	.1	Section 05 70 00 Miscellaneous Metals
		.2	Section 06 05 73 Wood Treatment
<b>1.4</b>	<b>Reference Standards</b>	.1	General .1 The following documents form part of the Specifications to the extent stated. Where differences exist between codes and standards, the one affording the greatest protection shall apply. .2 Unless otherwise noted, the referenced standard edition is the current one at the time of commencement of the Work. .3 Refer to Division 01 Section "General Requirements" for the list of applicable regulatory requirements.
		.2	Canadian Standards Association (CSA International) .1 CSA O80 Series 15 Wood Preservation. .2 CSA O121 17 Douglas Fir Plywood .3 CSA O151 17 Canadian Softwood Plywood .4 CSA O153 19 Poplar Plywood. .5 CSA O325 16 Construction Sheathing
		.3	ANSI/NPA A208.1 1999 Particleboard
		.4	APA (American Plywood Association) Grades and Specifications.
		.5	CAN/CGSB 11.3 M87 Hardboard.
		.6	CANPLY (Canadian Plywood Association) Grading and certification.

- |     |                                  |    |   |
|-----|----------------------------------|----|---|
|     |                                  | .7 | NLGA (National Lumber Grades Authority) - Standard Grading Rules for Canadian Lumber, 2017 Edition.   |
| 1.5 | Submittals                       | .1 | Provide submittals in accordance with submittal procedures outlined in contract documents.  |
|     |                                  | .2 | Product Data: Provide technical data on insulated sheathing, wood preservative materials, and application instructions.   |
|     |                                  | .3 | Samples of Exposed to View Wood Members: Submit two (2) samples, illustrating wood grain, stain, and finish   |
|     |                                  | .4 | Manufacturer's Certificate: Certify that Products conform to specified requirements.  |
| 1.6 | Quality Assurance                | .1 | Products of This Section: Manufactured to ISO 14000 certification requirements.   |
|     |                                  | .2 | Perform Work in accordance with the following agencies:<br>.1 Lumber Grading Agency: Certified by NLGA.   |
|     |                                  | .3 | In lieu of grade stamping exposed to view lumber and plywood, submit manufacturer's certificate certifying that products meet or exceed specified requirements. These certificate documents must include lumber grading certificate from lumber supplier. |
| 1.7 | Delivery, Storage and Protection | .1 | Protect materials from warping or other distortion by stacking in vertical position.  |
| 2.0 | Products                         |    |   |
| 2.1 | Materials                        | .1 | Timber stringers: DF species, No 1 or better, 15 percent maximum moisture content at time of installation.  |
|     |                                  | .2 | Timber ties, posts, rails and deck planks: SPF species, No 1 or better, 15 percent maximum moisture content at time of installation.  |
| 2.5 | Accessories                      | .1 | Fasteners and Anchors:<br>.1 Fasteners: Hot dipped galvanized steel bolts.<br>.2 Anchors: Epoxy grouted threaded rod for anchorage to concrete.   |
|     |                                  | .2 | Structural Framing Connectors: Hot dipped galvanized steel nails and screws   |

**3.0 Execution**

**3.1 Framing**

- .1 Set structural members level and plumb, in correct position.
- .2 Make provisions for erection loads, and for sufficient temporary bracing to maintain structure safe, plumb, and in true alignment until completion of erection and installation of permanent bracing.
- .3 Place horizontal members crown-side up.

**3.2 Erection  
Tolerances**

- .1 Framing Members: 6 mm from true position, maximum.
- .2 Surface Flatness of Floor: 2 mm/m maximum, and 12 mm in 9 m maximum.

**END OF SECTION**

<b>1.0</b>	<b>General</b>		
<b>1.1</b>	<b>General Requirements</b>	.1	Refer to Division 1, General Requirements.
		.2	This section of the specification forms an integral part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.
<b>1.2</b>	<b>Description</b>	.1	Final Review, delivery of Bonds and Guarantees, submittal of Maintenance Manual, and Project Record Documents, Delivery of Release of Liens, and Warranty.
<b>2.0</b>	<b>Products</b>		Not applicable
<b>3.0</b>	<b>Execution</b>		
<b>3.1</b>	<b>Final Review</b>	.1	Final Review will not be made until all work within this contract is completed. The Contractor shall notify Owner's Representative in writing at least five (5) days prior to date on which work will be ready for final review. Any delay in making Final Review shall not relieve the Contractor of responsibility for work, nor shall the Owner be held responsible for damages or claims for compensation due to continuing maintenance or other work occasioned by such delay. If the Owner's Representative making the final review finds the work so far from completion to make a later visit necessary, or that undue delay in making final review is incurred, Contractor shall, if determined by the Owner, be liable for expenses to Owner incurred by reason of such delay or re-review.
<b>3.2</b>	<b>Delivery of Bonds, Release of Liens, and Guarantees</b>	.1	Bonds, Release of Liens, and Guarantees shall be provided for those portions of this work where required by specific sections in the Invitation to Tender or as determined in the General Conditions of the CCDC. Submittal of releases and guarantees shall comply with conditions of the Contract.
<b>3.3</b>	<b>Acceptance of Completed Work</b>	.1	When all work required by the Contract Documents for this project has been performed, furnished, and/or installed as specified in each specific section, acceptance of work covered by the Contract will be given by means of a Certificate of Completion and until such acceptance the Contractor will be responsible for work covered by the Contract. Contractor's responsibilities will cease, except as provided by the guarantees, when acceptance of the work is given.
<b>3.4</b>	<b>Operation and Maintenance Instructions</b>	.1	The Contractor shall furnish one (1) digital version in current PDF file format and two (2) paper hard copies of complete sets of manuals, containing the manufacturer's instructions for maintenance and operation of each item of equipment and apparatus furnished under the Contract and any additional data

specifically required under the Specifications for each division of the work. The manuals shall be arranged in the order that these items appear in the Specifications and shall be indexed, substantially bound and titled. Manuals shall be project specific and shall not include items that are not a part of this project.

**3.5 Contractor's Guarantee**

- .2 Manuals shall be delivered to the Owner's Representative prior to application for final payment and as a condition of approval of final payment.
- .1 The Contractor shall deliver to the Owner's Representative upon completion of all work under the Contract, a written guarantee addressed to the Owner on the Contractor's letterhead. This guarantee shall be made to cover a period of one year from date of acceptance of all work under the contract as determined by the Owner's Representative.
- .2 Guarantees from Contractor shall be supported as required in the Specification Section with individual guarantees from each trade or subcontractor and manufacturer for supplier covering work. Where specific sections of the Specifications call for longer guarantees, these time periods shall so be stated. Guarantees shall be delivered to the Owner's Representative prior to application for final payment and as a condition of approval of final payment.

**3.6 Project Record Documents**

- .1 Throughout the progress of the work, maintain an accurate record of all changes in the Contract Documents.
- .2 Record Documents shall be protected from loss, damage, or deterioration until completion of the work and transfer of data to the final Record Documents.
- .3 All entries to the Record Documents shall be made within 48 hours of receipt of information.
- .4 Upon completion of work, and as a condition of Acceptance of Work, transfer the recorded changes to a set of Record Documents and submit to the Owner's Representative. This will include, but is not be limited to, as-built drawings in digital format using current PDF, AutoCAD file formats as well as printed hard-copies.

**SAMPLE WRITTEN GUARANTEE LETTER**

Date: \_\_\_\_\_  
Re: (Title of Project)

Name and Address of Owner

[Enter VPB Project Manager's Name]:

The undersigned attest to the Owner that the Contractor will guarantee materials, equipment and workmanship under this contract, that the Contractor will remedy any defects and pay for any damage to related work and building contents resulting from said defects, which shall occur for a period of one (1) year from the date of certification of final completion by the Owner's Representative.

This guarantee shall not be construed as to shorten the life of specific guarantees/warranties/bonds as required elsewhere under this contract.

During this period, upon written notice to do so, the Contractor will proceed with due diligence, at the Contractor's expense, to properly replace any defective materials and/or equipment and to perform any labor necessary to correct any defect in the work.

In the event that the Contractor fails upon reasonable notice to remedy such defects, the Owner may furnish such materials or labor as necessary to place work in the condition required by the Contract Documents, and the Contractor agrees to reimburse the Owner fully and promptly for his expense.

\_\_\_\_\_  
Signature and Name of Contractor

ATTEST: (Signature must be notarized)

**END OF SECTION**

**1.0 GENERAL**

**1.1 General Requirements**

- .1 Refer to Division 1, General Requirements.
- .2 This section of the specification forms an integral part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.

**1.2 Description**

- .1 Supply all products, labour, equipment, and services necessary to clear and grub site in preparation for landscape or site work indicated on the contract drawings.
- .2 The work shall include but is not limited to the following areas:
  - .1 Clearing and grubbing operation.
  - .2 Disposal of material cleared and grubbed from the site.

**1.3 Related Work**

- .1 Site Preparation and Grading Section 01 89 13
- .2 Tree Protection Section 32 01 56

**1.4 Protection**

- .1 Protect existing fencing, natural features, bench marks, existing structures, existing pavement, sub surface and surface utility lines, and water courses and miscellaneous items noted on contract drawings as to remain.
- .2 Protect all existing trees, landscape plant beds, miscellaneous plant material and their associated root areas within the area to be cleared and grubbed that have been identified to remain on the contract drawings.
- .3 Protect all existing trees, landscape plant beds, miscellaneous plant material and their associated root areas that are outside of area to be cleared and grubbed.
- .4 The Contractor, at no cost to the Owner shall make good all damages incurred during the clearing and grubbing process.

**2.0 PRODUCTS**

**2.1 Not Applicable**

**3.0 EXECUTION**

**3.1 Clearing and Grubbing**

- .1 All excavation shall be undertaken in accordance with the City of Vancouver's Policy and Standard Operating Procedure- Soil and Excavation Water Contamination Management.
- .2 Clear and grubbing operations shall be limited to areas indicated on the Contract drawings. Contractor shall identify the areas to be cleared and grubbed in the field by flagging or staking for Owner's

Representative review prior to the start of work.

- .3 Clear all existing plant growth, undergrowth, dead wood, surface rocks or boulders and all deleterious material.
- .4 Grub out all stumps, roots rubbish over 50mm (2") in size to minimum depth of 300mm (12") below indicated finish grade.
- .5 Grub out all parts of noxious or invasive plants including but not limited to varieties of Equisetum, Rubus, Hedera and Fallopia japonica.

Clearing and grubbing within close proximity to potential tree roots shall be completed using hand tools.

- .6 Remove and dispose of off site, embedded rocks and boulder less than 0.15 cubic metres (5 cubic feet) encountered during clearing and grubbing operation.
- .7 Dispose of cleared and grubbed material in an approved off site dump location. No on site burning or burying of grubbed material will be allowed.
- .8 Do not clear or grub existing trees, landscape plant beds, miscellaneous plant material and their associated root areas that have been identified on the contract drawings or marked in the field by the Owner's Representative or Contractor to remain.

### 3.2 Finished Surface

- .1 Finished grade of the areas that have been cleared and grubbed shall be left generally smooth and level and suitable for immediate rough grading operations.

**END OF SECTION**



1.0	Dust and Mud Control	.3S	<b>Add</b> The Contractor shall make every reasonable effort to minimize the creation of dust or mud by their operations. Special measures may include, but shall not be limited to, frequent sweeping of existing roads used as haul routes; control of traffic speeds; frequent watering of dirt access and egress routes; watering of the construction areas; re-routing of traffic; and modification of construction procedures.
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**END OF SECTION**

<b>1.0</b>	<b>General</b>		
<b>1.1</b>	<b>General Requirements</b>	.1	Refer to Division 1, General Requirements.
		.2	This section of the specification forms an integral part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.
<b>1.2</b>	<b>Description</b>	.1	Supply all products, labour, equipment, and services necessary to excavate and backfill for all landscape paved areas, footings, walls, etc. indicated on contract drawings.
		.2	The work shall include but is not limited to the following areas: <ul style="list-style-type: none"><li>.1 Excavation of subgrade</li><li>.2 Grading operations to attain sub grade design grades</li><li>.3 Import and placement and compaction of granular fill materials</li><li>.4 Compaction testing</li><li>.5 Removal and disposal of excess material off site</li></ul>
<b>1.3</b>	<b>Related Work</b>	.3	Precast Structural Concrete Section 03 41 00
<b>1.4</b>	<b>Reference Standards</b>	.1	Contractor is responsible for complying with all current Work Safe BC requirements for site safety related to the scope of work in this section. This includes but is not limited to protection of personnel and site safety procedures related to open excavation.
		.2	All work under this section shall conform to the requirements of the American Society for Testing and Materials, Standards as referenced herein.
<b>1.5</b>	<b>On and Off Site Construction Maintenance</b>	.1	Contractor shall be responsible for implementation, maintenance, and decommissioning of vehicle wheel wash facility. Decommissioning of wheel wash facility includes but is not limited to fill and regarding of affected area to the satisfaction of the Owner's Representative.
		.2	Contractor shall be responsible for cleaning of adjacent municipal streets, private streets and driveways affected by vehicle movements on site or to and from the site.
		.3	Contractor shall be responsible for implementing and maintaining dust control measures for all on site activities of this section. Dust control measures shall meet all local bylaws and regulations.
<b>1.6</b>	<b>Site Access</b>	.1	The Contractor shall be responsible for ensuring that there is minimal disruption of vehicle and pedestrian traffic flow on adjacent existing roads during work of this section.

- |      |                     |    |  |
|------|---------------------|----|--|
|      |                     | .2 | The Contractor shall be responsible for providing warning signs, flashing lights, flag people barricades, etc. to ensure vehicle and pedestrian movement associated with the site or adjacent to the site meets all applicable municipal, provincial or federal requirements.        |
| 1.7  | Protection          | .1 | Prior to commencing any excavation work the contractor shall establish the location of any existing active buried utility or service lines, including service entry points. Mark these locations clearly on site to prevent accidental disturbance during the work.                  |
|      |                     | .2 | Any utility or service which is presently in use, or not established as abandoned but which must be moved or otherwise disturbed, shall be referred to the utility or service company concerned so that they may advise on, co-ordinate, inspect necessary operation for relocation. |
|      |                     | .3 | Costs incurred by any disturbance of existing active utilities and service lines, not called for under the contract documents, shall be borne by the Contractor.   |
|      |                     | .4 | Any damage done including settlement or collapse to existing active services caused by inadequate measures taken by the Contractor to prevent such disturbances shall be rectified immediately by the Contractor at no cost to the Owner.  |
|      |                     | .5 | The Contractor shall protect all adjacent structures and surfaces including but not limited to roadways and sidewalks from damage, direct or incidental as a result of work of this section.   |
|      |                     | .6 | The Contractor shall make good all damages to adjacent structures and surfaces including but not limited to roadways and sidewalks as a result of work of this section to the satisfaction of the Owner's Representative.  |
| 1.9  | Deposits            | .1 | The Contractor shall at no cost to the Owner shall obtain all damage and/ or crossing deposits required by the municipal, provincial, federal or utility to carry out the work of this section.  |
| 1.10 | Tests and Approvals | .1 | The Contractor shall at no cost to the Owner and as part of the work of this section perform, or cause to be performed, all tests, inspections and approvals.  |
|      |                     | .2 | Should the test, inspection or approval require a representative sample of the material or workmanship the Contractor shall at no cost to the Owner supply the labour and materials necessary to provide the sample or test.   |
|      |                     | .3 | Should the test or inspection indicate that the material or work completed does not conform to the specifications the Contractor   |

shall at no cost to the Owner promptly remove this work, dispose of it off site and re-execute it in accordance with the Contract documents. The remedial work shall include retesting as required to establish conformance with the Contract documents.

- |             |                             |           |  |
|-------------|-----------------------------|-----------|--|
| <b>1.11</b> | <b>Submittals</b>           | <b>.1</b> | <p>Prior to the start of work for this section the Contractor shall submit the following to the Owner's Representative for review;</p> <ul style="list-style-type: none"><li>.1 Sieve analysis of granular material</li><li>.2 Source for supply of all materials (source shall be used throughout duration of project). Should a change of material source be proposed during work; provide samples and sieve analysis from proposed source.</li><li>.3 Company name, address and contact information for material testing company.</li><li>.4 Confirm in writing to the Owner's Representative that he/she has verified the locations of all underground services.</li><li>.5 Obtained in writing and submitted to the Owner's Representative at no Cost to the Owner permission from adjacent property owners and/or municipality to carry out work beyond the property limits of this contract if required to carry out the work of this section.</li><li>.6 Notify the Owner's Representative for on site review of sub grade preparation work a minimum of forty-eight (48) hours prior to commencement of import, placement and grading operations.</li></ul> |
| <br>        |                             |           |  |
| <b>2.0</b>  | <b>Products</b>             |           |  |
| <b>2.1</b>  | <b>General</b>              | <b>.1</b> | <p>Review and approvals by a Geotechnical Engineer engaged by the Contractor shall be signed and sealed and submitted to the Owner's Representative prior to use of this material.</p>   |
| <b>2.2</b>  | <b>Native Material Fill</b> | <b>.1</b> | <p>Will be considered but must be reviewed and approved by the City Archaeologist and either the Consultant Geotechnical Engineer or should a Geotechnical Engineer not be part of the project team a Geotechnical Engineer engaged by the Contractor at no cost to the Owner.</p>   |
| <b>2.3</b>  | <b>Pit Run Gravel</b>       | <b>.1</b> | <p>To be well graded granular material, substantially free from clay lumps, organic matter and other extraneous material, screened to remove all stones in excess of maximum diameter specified in material description, e.g. (300mm Pit Run Gravel, 200mm Pit Run Gravel and 100mm Pit Run Gravel). Recycled concrete free from contaminated and other extraneous materials conforming to the specified gradations may be used as pit run gravel.</p>   |

Sieve Size (mm)	Percent Passing
(300)	100
(200)	100
(100)	100
75	100
50	70-100
25	50-100
4.75	22-100
2.36	10-85
0.075	2-8

- 2.4 Granular Sub Base** .1 Shall be 75 mm (3") minus, clean, granular material free of organic material conforming to following gradation limits:

Sieve Size (mm)	Percent Passing
80	100
75	55-100
4.8	30-100
38	60-100
19	35-80
9.5	26-60
4.75	20-40
2.36	15-30
1.18	10-20
0.6um	5-15
0.3um	3-10
0.075um	0-5

- 2.5 Granular Base** .1 The 19 mm (3/4") crushed granular base shall consist of sound, durable particles, free from clay, organic material or other deleterious matter, evenly graded, to meet the following gradation requirements.

Sieve Size (mm)	Percent Passing
19	100
12.5	75-100
9.5	60-90
4.75	40-70
2.36	27-55
1.18	16-42
0.60	8-30
0.30	5-20
0.15	5-15
0.074	2-8

**2.6 River Sand**

- .1 River sand to be free of organic material, salt and foreign objects and conform to the following gradation:

Sieve Size (mm)	Percent Passing
19	100
4.75	80-100
0.6	20-80
0.15	0-20
0.075	0-8

**3.0 Execution**

**3.1 Excavation**

- .1 All excavation and waste discharge permits shall be undertaken in accordance with the City of Vancouver's Policy and Standard Operating Procedure- Soil and Excavation Water Contamination Management.
- .2 Grade to elevations and dimensions indicated on contract documents or required by the work of this section or related sections.
- .3 Ensure that work of this section provides sufficient space to permit erection of forms, site elements and miscellaneous elements of related sections.
- .4 Excavation shall to ensure that the placement of fill materials are minimized.
- .5 Contractor shall phase his operation so that a stable slope at the edge of excavation is maintained all times. Where sloping of the sides of excavations are not possible the Contractor shall implement appropriate safety measures in accordance with current WorkSafe BC and Occupational Health and Safety regulation requirements.
- .6 During excavation, stockpile material suitable for backfill in a neat manner and sufficient distance from the trench to avoid slides and cave-ins.
- .7 All excavated materials not required or unsuitable for backfill shall be relocated within the Stanley Park Train area as directed by the Consultant environmental monitor and City Archaeologist. Grade as required to prevent surface water from flowing into trenches or other excavations. Remove any accumulated water by pumping to a location reviewed and approved by the Consultant environmental monitor. Do not pump water directly onto slopes.
- .8 All exposed excavation faces shall be protected from weather with appropriate tarps or plastic sheeting as soon as possible after being cut.

3.2

**Placement of  
Granular Fill  
Material**

- .9 Remove all boulders, rock and stones larger than 150 mm (6") in diameter from excavated surfaces encountered during excavation. Fill cavities created with crushed granular base material compacted to 98% Standard Proctor Maximum Dry Density.
- .10 Bottom of excavation to be level, free from loose material and debris.
- .11 Protect excavations against freezing. Frozen areas shall be thawed and protected from further frost until subsequent work has been completed.
- .12 All necessary precautions shall be taken to preserve all materials outside the required excavations in an undisturbed condition.
- .13 Costs incurred as a result of deterioration caused by activities or neglect of the Contractor or fill required due to over excavation as a result of action by the Contractor are the responsibility of the Contractor.
- .1 Prior to the backfill operation of site excavation ensure the following actions have been completed:
  - .1 Concrete foundation walls and footings shall have reached specified strength unless otherwise approved by the Owner's Representative.
  - .2 All backfill materials shall have been inspected and approved by the Geotechnical Engineer.
  - .3 Each component of the backfill operation shall have been inspected and approved by the Geotechnical Engineer at the time of placement.
  - .4 Compaction density tests shall have been completed and tests results reviewed and approved by the Geotechnical Engineer.
- .2 Place crushed granular sub-base in maximum 300 mm (1'-0") lifts to depths indicated on drawings. Compact each lift to 98% Standard Proctor Maximum Dry Density (SPD)y.
- .3 Place granular base in maximum 150 mm (6") lifts to depths shown on the drawings. Compact each lift to 98% Standard Proctor Maximum Dry Density (SPD)y.
- .4 Place all native material fill in uniform 300 mm (1'-0") compacted lifts to depths indicated on drawings. Compact each lift to 98% Standard Proctor Maximum Dry Density (SPD)y.

- .5 Ensure that granular fill material is placed to the full width of the excavation, in uniform lifts, shaping each lift to smooth, even contours.
- .6 Ensure the placement and compaction of crushed granular sub-base and granular base does not segregate or degrade the aggregate.
- .7 Apply water as necessary during compaction to obtain specified density. If material is excessively moist aerate by scarifying with suitable equipment until moisture content is suitable for compaction.
- .8 Mechanical compaction equipment shall be used with extreme caution to prevent any undue pressure on foundation work. Do not use motorized compaction equipment directly adjacent to foundation or retaining walls.
- .9 Where backfill is required on both sides of foundation walls it shall be placed and compacted simultaneously on both sides of the wall.
- .10 All sub grade whether disturbed or undisturbed, shall be compacted to 98% Standard Proctor Maximum Dry Density (SPD).
- .11 Soft areas or areas that do not meet specified compacted densities shall be over excavated and filled with compacted crushed granular base as required to obtain the specified compaction density.

**3.3 Grading  
Subgrade  
and Granular  
Fill**

- .1 Site sub grade shall be shaped to lines and elevations indicated on contract drawings.
- .2 Finished surface of sub grade and granular fill material shall have no irregularities exceeding 10 mm (3/8") when checked with a 3 M straight edge placed in any direction. Correct all sub grade and granular fill surface irregularities by loosening and adding or removing sub grade or granular fill material until surface is within specified tolerance. Correcting sub grade deficiencies by manipulating granular fill material is not acceptable.
- .3 Shaping of sub grade shall ensure uniform slope transitions with rounded, smooth profiles between changes in elevations.
- .4 Ensure that sub grade preparation allows for depth of granular fill and finished materials as indicated on contract drawings.

**3.4 Dewatering**

- .1 All excavation and waste discharge permits shall be undertaken in accordance with the City of Vancouver's Policy and Standard Operating Procedure- Soil and Excavation Water Contamination Management.
- .2 Pump or otherwise continuously remove all water that has accumulated in excavation during the progress of the Work.
- .3 Do not divert water onto adjacent property.



**3.5 Cleaning**

- .4 Ensure that sediment control and water treatment devices are in place as per municipal or provincial regulations prior to the start of dewatering operations. Do not divert dewatering effluent to natural or manmade water bodies.
- .5 Contractor to provide dewatering plan for review at least 2 weeks prior to start of construction.
- .1 Clean up and remove from the site, as the work proceeds, any construction debris and waste material or rubbish resulting from the work of this section.
- .2 Transport all surplus fill materials, and debris off site to an appropriate disposal or recycling facility.

**END OF SECTION**

<b>1.0</b>	<b>General</b>		
<b>1.1</b>	<b>General Requirements</b>	.1	Refer to Division 1, General Requirements.
		.2	This section of the specification forms an integral part of the Contract Documents and is to be read, interpreted, and coordinated with all other parts.
<b>1.2</b>	<b>Description</b>	.1	Supply all products, labour, equipment, and services necessary to protect existing trees on site, adjacent properties, and on adjacent road right-of-way and sites as indicated in the contract documents, including but not limited to: <ul style="list-style-type: none"> <li>.1 Survey and layout for locations of protective barriers.</li> <li>.2 Installation, maintenance, adjustment during construction, and final removal of protective barriers and signs.</li> <li>.3 Pruning as approved by the Owner's Representative including hand excavation and root pruning.</li> <li>.4 Watering, fertilizing, and all other measures directed by the Owner's Representative as required to maximize the health and prospects for survival of the trees.</li> <li>.5 Select an access route which prevents vehicles or equipment from repeated passes over exposed tree roots. Contractor to submit proposed route (sketch or drawing) for Owner's representative and Consultant Arborist review at least 14 days prior to starting this type of work. Contractor may be required to build/provide temporary ramps, and supply and install mulch and geotextile to protect tree roots and existing infrastructure including train rails. These costs are considered incidental to the works and will be covered by the Contractor with no additional costs to the Owner.</li> <li>.6 There are about 80 trees in project vicinity and within areas of travel, which may require tree protection fencing. An arborist report with tree protection guidelines will be provided for reference.</li> </ul>
<b>1.3</b>	<b>Related Work</b>	.1	Excavation and Backfill Section 31 23 10
		.2	Topsoil and Finished Grading Section 32 91 21
<b>1.4</b>	<b>Reference Standard</b>	.1	City of Vancouver Tree Protection By-Law.
		.2	International Society of Arboriculture standards.
		.3	ANSI A300 Tree Pruning Guidelines

**1.5 Definitions**

- .1 The "Tree Protection Area" (T.P.A.) shall be established on site under the direction of the Owner's Representative. It must be demarcated on site and fenced off from all impacts of construction. The T.P.A. is defined as the "dripline", which is a line drawn vertically to the ground from the furthest horizontal extent of the canopy branches as measured around the full circumference of the tree. Minor adjustments may be required to this rule to meet site species/specific conditions. Confirm T.P.A. on site with Owner's Representative. In addition to the T.P.A. definition the following shall be minimum distances for protection barrier fencing from the trunk.

Diameter at height of 140cm (cm)	Minimum distance of protection barrier fencing from trunk (cm)
10	60
20	120
30	180
40	240
50	300
80	480
100	600

- .2 Excavation, soil stabilizing measures, shoring (if necessary) and related work shall be planned and executed such that no excavation or other construction activities occur within the Tree Protection Area. A variance may be obtained from the Board provided that the location, materials and methods are approved and supervised by an Owner's Representative.
- .3 No Owner approvals for root pruning beyond the limits of the T.P.A. are required. All severed or fractured roots over 2cm in diameter outside the T.P.A. are to be neatly cut back a min of 5 cm above damage with a clean, sharp tree pruning saw.

**1.6 Qualifications**

- .1 All pruning operations shall carried out or under the direction of an I.S.A. Certified Arborist using clean sharp pruning tools.

**1.7 Quality Assurance**

- .1 Inspection: The Contractor shall give at least forty-eight (48) hours notice to the Owner's Representative of the timing for root pruning, branch pruning, installation of protective barrier, and all other tree protection measures. The protective barrier shall be accurately located on site, prior to starting any hand excavation or root pruning. The Consultant Arborist shall do or supervise all root pruning, branch pruning, etc. within the Tree Protection Area. (The Consultant Arborist shall be present when all work is being done along the line of the protective fence).

- .2 Where requested, all root pruning and branch pruning shall be done to recognized arboriculture industry standards by an I.S.A. Certified Arborist or Tree Surgeon under direct supervision of the Owner's Representative.
- 2.0 Products**
- 2.1 Protective Barrier**
- .1 Protective Barrier shall be a 1.2m high chain link fence (standard chain link fence or temporary construction fencing) to be securely installed, plumb, and securely fixed in the approved positions. Posts, minimum 40mm diameter galvanized steel posts minimum 1.8m lengths. Posts maximum 2.4m o.c.
- .2 Orange plastic web snow fencing, 1.2m high "Tenax", as supplied by Ronco Sales Ltd., or pre-approved equal. Posts, minimum 75mm dia. or square wood posts or steel "Tee-Bar" posts minimum 1.8m lengths. Posts maximum 2.4m o.c.
- Protection barrier type and locations to be reviewed by Consultant Arborist prior to onsite installation.
- 2.2 Tree Protection Area Signs**
- .1 Tree Protection Area signs shall be signs at least 900mm x 450mm, on painted plywood or other acceptable weather resistant material, stating:
- TREE PROTECTION AREA, DO NOT REMOVE OR MOVE FENCE DURING CONSTRUCTION:
- No Dumping      No Burning  
No Storage      No Cutting  
No Machinery      No Toxic Substances (paint, solvents, fuel, oils)
- TO REPORT VIOLATIONS PHONE: 604-257-8400
- 2.3 Water, Fertilizers, Miscellaneous**
- Water, fertilizers and miscellaneous materials shall be as specified in other sections of the specification and as directed by the Owner's Representative and Consultant Arborist.
- 2.4 Stakes and Fasteners**
- .1 Wood Stakes: 38 x 89 ACQ treated wood or No. 1 grade cedar stakes.
- .2 Metal Stakes: 50mm diameter schedule 40 galvanized steel pipe or 1.8 (6'-0") long studded or drilled T Posts.
- .4 Zip Straps: 140mm (5.5") long, black, nylon lock straps.
- .5 Drain Tile: 150mm (6") diameter Schedule 40 PVC (polyvinyl chloride) perforated pipe conforming to ASTM D 1784.
- .6 Burlap: 10 ounce, untreated, woven, natural jute based burlap.
- 2.5 Fill Materials**
- .1 Type 1 Fill: Clean, angular, crusher run natural stone, free from

shale, clay, friable materials, roots and vegetable matter, and conforms to the following gradations:

Sieve Size	Percent Passing
50mm	100
20mm	95 - 100
13mm	75 - 90
10mm	57 - 83
No. 4	37 - 61
No. 16	12 - 32
No. 32	8 - 23
No. 200	5 - 10

- .2 Type 2 Fill: Clean river pump sand and gravel material, free from silt, clay, loam, friable, or soluble materials and vegetable matter.
- .3 Type 3 Fill: Approved premixed growing medium per Section 32 91 13
- .4 Clear Stone: Shall consist of clean, round, washed stone. Acceptable material includes 10 mm (3/8") rock conforming to the following gradations.

Sieve Size	Percent Passing (10mm)
14mm	100
10mm	85 - 100
5mm	10 - 30
2.5mm	0 - 10
1.25mm	0 - 5

### 3.0 Execution

#### 3.1 Protective Barrier Fence Erection

- .1 Before starting site work, install a clearly visible continuous protective barrier fence at the approved lines for the "Tree Protection Area" (T.P.A.). Maintain this barrier until Substantial Performance and remove from the site at that time. Support snow fencing on steel posts driven vertically into the ground, at 2.4m on centre, or as otherwise approved by the Owner's Representative and Consultant Arborist.

#### 3.2 Tree Protection Area Signs

- .1 Install Tree Protection Area signs as specified on the protective barrier fence. For large areas, install a minimum of four signs, one each side of the T.P.A. Signs shall be well secured by 'Zap Strap' or similar method and shall be maintained in place until Substantial Performance.
- .2 Take all measures necessary to prevent the following activities within tree protection areas except as authorized by the Owner's Representative.
  - .1 Storage of materials or equipment.

- .2 Stockpiling of soil or excavated materials.
  - .3 Burning of any kind.
  - .4 Excavation or trenching.
  - .5 Cutting of roots or branches.
  - .6 Travel of equipment or vehicles.
  - .7 Disposal or spillage of toxic matter.
- 3.3 Root Pruning**
- .1 Before the start of any machine excavation, hand excavate along the established limit of excavation and prune all roots along the line. Cuts shall be clean, using approved arboriculture practice using clean, sharp pruning tools.
  - .2 Trees to be transplanted shall be root pruned as directed by the Owner's Representative.
- 3.4 Branch Pruning**
- .1 Do not prune any retained tree to compensate for reduction of roots unless specifically instructed by the Owner's Representative.
- 3.5 Watering and Fertilizing**
- .1 Retained trees shall be watered thoroughly and deeply, as necessary to supplement rainfall to maintain plant turgidity without prolonged saturation of the root zone. The T.P.A. is to be watered via sprinkler, soaker hose, or by tank with a watering wand at least three times per week during June, July, August, and September or as directed by the Owner's Representative.
  - .2 Fertilize Retained Trees to stimulate regeneration of lost roots and foliage. Fertilization program only as recommended by the Owner's Representative.
- 3.6 Excavation around Trees and Shrubs**
- .1 Excavation within drip line of trees shall be in strict accordance with those areas indicated on the contract documents or as directed by the Owner's Representative.
  - .2 Excavation for New Construction within Drip Line of Tree(s):
    - .1 Hand excavate to minimize damage to root systems.
    - .2 Use narrow tine spading forks to probe and comb soil to expose roots.
    - .3 Relocate roots into backfill areas whenever possible. If large, main lateral roots are encountered, expose beyond excavation limits as required to bend and relocate without breaking.
  - .3 Utility trenching Within the Drip Line of a Tree(s):
    - .1 Tunnel under and around roots by hand digging.
    - .2 Do not cut main lateral roots.

- .3 Cutting of smaller roots that interfere with installation of new work shall be done with clean, sharp pruning tools.
  - .4 Roots encountered immediately adjacent to the location of new construction that are not readily maneuvered to beyond the excavation area shall be cut 150mm (6") back from new construction.
  - .5 Protection of Exposed Roots: Do not allow exposed roots to dry out prior to placement of permanent cover. Provide one of the following temporary remedial measures:
    - .1 Provide temporary earth cover using Type 3 fill.
    - .2 Pack with four (4) layers of wet, untreated burlap. Maintain dampness.
  - .6 Temporarily support and protect exposed roots from damage until permanently relocated and covered with backfill. Water backfill around roots to eliminate voids and air pockets.
  - .7 When directed by the Owner's Representative, pruning operations may include the removal of limbs to restore natural shape or reduce the area of the crown of the tree(s) or shrub(s). No crown pruning shall be undertaken without the consent of the Owner's Representative.
  - .8 Trees and shrubs to remain are to be thoroughly watered as required to maintain a healthy condition throughout the construction period. Contractor to document all watering operations and submit to the Owner's Representative one (1) copy of documentation at substantial performance.
- 3.7 Raising Grade around Existing Trees**
- .1 Do not raise grades within or adjacent to the tree protection zone unless authorized by Owner's Representative.
  - .2 Drain Tile Installation: Install drain tile on existing grade as follows:
    - .1 Layout drain tile in a spoke like arrangement consisting of eight (8) horizontal lines radiating out from the trunk of the tree to the limit of branch spread. Horizontal line to be approximately 150 mm (6") from base of trunk.
    - .2 Slope drain tile at a minimum of 1% away from trunk of the tree to the limit of branch spread. Connect ends of each of the spokes laterally around the perimeter of the tree to form a continuous, uninterrupted circle.

- .3 Install vertical drain tile at each end of each spoke. Vertical drain tile to extend to proposed finished grade (vertical drain tile provides a means of aeration and watering).
    - .4 Owner's Representative to review drain tile installation prior to backfill operation.
  - .3 Drain Tile Backfill:
    - .1 Type 1 Fill: place a minimum of 150mm (6") cover around perimeter of drain tile.
    - .2 Type 2 Fill: place a Type 2 Fill to minimum depth of 150mm (6") over the Type 1 Fill.
    - .3 Type 3 Fill: place Type 3 Fill in 150 mm (6") lifts to raise grade specified elevations. Ensure allowance is made for depth of growing medium.
    - .4 Fill vertical drain tiles with Clear Stone. Ensure Clear Stone are flush with top of drain tile.
- 3.8 Lowering Grade around Existing Trees
  - .1 Do not lower grades within or adjacent to the tree protection zone unless authorized by Owner's Representative.
  - .2 Lowering Grade:
    - .1 Carefully excavate by hand from limit of drip line of branch spread to proposed grade until the specified gradient has been achieved.
    - .2 Re-bury or prune and remove roots as per the instructed by the Owner's Representative.
    - .3 Construct a growing medium dike at dripline to retain water. Dike to be constructed at each individual tree location unless instructed otherwise by Owner's Representative.
  - .3 Excavation Through Root Area: If excavation through root area is required, excavate around roots by hand.
- 3.9 Surplus Material
  - .1 Remove surplus material from site and dispose of at approved disposal area.

**END OF SECTION**



1.0	General	.3S	<b>Add</b> All grassed areas disturbed by the construction shall be reinstated with 100mm of compacted depth topsoil and sodded or as directed by the Owner's Representative.
1.4	Measurement & Payment	.4S	<b>Add</b> Payment for reinstated with 100mm of compacted depth topsoil to be made at the Unit Price(s) per cubic meter bid.

**END OF SECTION**

## Appendix A – Site Photographs



Footbridge and Storage Shed



Entrance to Storage Shed





Roof of Storage Shed



Interior of Storage Shed





Heater in Storage Shed



Electrical Outlet and Light in Storage Shed





Water Tap at Storage Shed



Concrete Pad under Storage Shed





Footbridge West Abutment



Footbridge East Abutment





Path Access to Footbridge



Styrofoam Float

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
APPENDIX 3 - LIST OF SPECIFICATIONS, DRAWINGS & SPECIAL EVENTS

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LIST OF DRAWINGS:

SHEET 01	COVER	REV: E
SHEET 02	GENERAL NOTES	REV: E
SHEET 03	GENERAL ARRANGEMENT	REV: E
SHEET 04	STRUCTURAL - BRIDGE DETAIL	REV: E
SHEET 05	CIVIL - GRADING PLAN	REV: E



# STANLEY PARK TRAIN - BRIDGE UPGRADES



## LOCATION PLAN

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### NTS



## SITE PLAN

NTS

DRAWING SCHEDULE		
SHEET	TITLE	REV
01	COVER	E
02	GENERAL NOTES	E
03	GENERAL ARRANGEMENT	E
04	STRUCTURAL - BRIDGE DETAIL	E
05	CIVIL - GRADING PLAN	E

REV NO	REVISIONS	DATE	DRAWN	APPROV
B	90% DETAILED DESIGN	20JUL24	JD	JT
C	ISSUED FOR TENDER	20SEP08	DRA	JT
D	RE-ISSUED FOR TENDER	20OCT16	DRA	JT
E	RE-ISSUED FOR TENDER	20NOV02	JD	JT
F	RE-ISSUED FOR TENDER	20NOV12	JD	JT



COVER

# STANLEY PARK FOOTBRIDGE DEMOLITION AND DESIGN



#503, 4190 Lougheed Highway, Burnaby, BC V5C 6A  
T: (604) 629-2606 F: (604) 629-2608

ISSUED FOR TENDER

DESIGN NO.

SCALE	N/A	DATE	20200525	DWG. NO.  01 OF 05
DRAWN BY	JD	DESIGN BY	JT	
CHECKED BY	MH	APPROVED BY	JT	
				REV. E

DESTROY ALL PRINTS BEARING PREVIOUS NO.—



File: G:\Projects\3200\3200\3200\3203\3203\_COV\_Stanley\_Park\_Footbridge\02\_CADD\02\_Drafting\3203\_02\_S4\_Notes\_200724.dwg | PLOT DATE: 2020/11/2

GENERAL

1. AL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS ARE GIVEN IN METRES (m) UNLESS NOTED OTHERWISE.
3. SCALE INDICATED ON DRAWING IS APPROPRIATE SCALE AT FULL SIZE.
4. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS FOR WORKING WITHIN THE WORK AREA.
5. CONTRACTOR WILL REFER TO BRAUN GEOTECHNICAL LTD. TECHNICAL MEMORANDUM, DATED MAY 7, 2020, FOR GEOTECHNICAL INFORMATION.
6. DESIGN PARAMETERS, AS PER CITY OF VANCOUVER BYLAW, 2019:

SNOW LOAD  $S_s$  = 1.90kPa

RAIN LOAD  $S_r$  = 0.30kPa  $I_s$  = 1.0

WIND LOAD 1/50 = 0.45kPa  $I_w$  = 1.0

LIVE LOAD = 4.80kPa

SEISMIC LOAD  $I_s$  = 1.0

$S_a(0.2)$  = 0.986

$S_a(0.5)$  = 0.658

$S_a(1.0)$  = 0.326

$S_a(2.0)$  = 0.17

$S_a(5.0)$  = 0.488

PGA = 0.288
7. DESIGN STANDARDS:

- CAN/CSA A23.1/2-19 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION

- CAN/CSA A23.3-19 DESIGN OF CONCRETE STRUCTURES

- CAN/CSA 086-14(R19) ENGINEERING DESIGN IN WOOD

- SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES 2015 REVISION

- BRITISH COLUMBIA BUILDING CODE 2018
8. THE CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS, CHECK DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION PRIOR TO COMMENCING CONSTRUCTION. DISCREPANCIES NOT REPORTED ARE THE RESPONSIBILITY OF THE CONTRACTOR. CHECK AND VERIFY ALL DIMENSIONS BEFORE COMMENCING WITH ANY WORK. NOTIFY THE DEPARTMENTAL REPRESENTATIVE OF ANY ERRORS OR OMISSIONS.
9. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION"
10. ALL COMPONENTS, STRUCTURAL OR OTHERWISE, NOT INCLUDED IN THESE DRAWINGS ARE THE RESPONSIBILITIES OF THEIR RESPECTIVE DESIGNER.
11. FIELD REVIEWS:

NOTIFY THE CONSULTANT 72 HOURS IN ADVANCE FOR FIELD REVIEWS AND APPROVAL OF THE FOLLOWING:

- UPON THE FINDING OF ANY UNFORESEEN STRUCTURAL CONDITIONS

- UPON THE COMPLETION OF THE SUBSTRUCTURE PRIOR TO SUPERSTRUCTURE ERECTION

- UPON COMPLETION OF THE SUPERSTRUCTURE ERECTION

- PERIODICALLY DURING INACTIVE STRUCTURE PRESERVATION WORK

FOUNDATIONS

1. CONTRACTOR WILL REFER TO BRAUN GEOTECHNICAL LTD. TECHNICAL MEMORANDUM, DATED MAY 7, 2020, FOR EXCAVATION, FILL, COMPACTION, GEOTEXTILE, ETC. AND ALL OTHER SITE WORK NOT SHOWN ON DRAWINGS.

EXCAVATION AND BACKFILL

1. GROUND CONDITIONS MAY VARY. THE FOUNDATION REQUIREMENTS WILL BE COORDINATED AND VERIFIED WITH THE GEOTECHNICAL ENGINEER ON SITE.
2. EXCAVATE TO LINES AND GRADES AS INDICATED ON THE DRAWINGS.
3. SUBGRADE REVIEW AND APPROVAL BY GEOTECHNICAL ENGINEER PRIOR TO ANY BACKFILLING OR COVERING. GEOTECHNICALLY APPROVED FINE GRAINED SOIL SUBGRADE IS TO BE PROTECTED FROM DEGREGATION IMMEDIATELY AFTER APPROVAL. CRUSHED BASE MATERIAL IS TO BE COMPACTED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER.
4. BACKFILL TO BE AS SHOWN ON THE DRAWING(S) AND COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (SPD). MATERIAL COMPACTION TESTING MAY BE REQUIRED BY THE CONTRACT ADMINISTRATOR.
5. BACKFILLING MATERIAL IS TO BE FREE DRAINING GRANULAR MATERIAL THAT IS APPROVED BY THE CONSULTANT PRIOR TO ALL BACKFILLING OPERATIONS.
6. ALL BASE MATERIAL UNDER LOCK BLOCK FOUNDATION AND APPROACH SLAB SHALL BE 19mm MINUS CRUSHED GRANULAR BASE MATERIAL COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (SPD).

QUALITY CONTROL

1. SHOP DRAWINGS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AT LEAST 10 DAYS PRIOR TO FABRICATION. FABRICATION SHALL NOT PROCEED WITHOUT REVIEWED SHOP DRAWINGS.

LOCK-BLOCKS

1. LAYOUT OF LOCK-BLOCKS TO BE CONFIRMED DURING CONSTRUCTION.
2. INSTALLATION OF LOCK-BLOCK FOOTING TO BE REVIEWED BY STRUCTURAL ENGINEER.
3. LOCK-BLOCK SPECIFICATIONS:

ALL LOCK-BLOCKS TO BE:

- 30MPa CONCRETE STRENGTH

TIMBER

1. TREATMENT OF TIMBERS SHALL MEET THE REQUIREMENTS OF CSA-080-SERIES 08.
2. ALL DIMENSIONS SHOWN ARE ROUGH TIMBER DIMENSIONS AND SHOULD BE AS SHOWN ON THE DRAWINGS. ALL BOLT LENGTHS SHALL NOT BE MODIFIED FROM ANY VARIANCE OF SIZES SHOWN ON THE DRAWING. FOR EASE OF CONSTRUCTION AND TREATMENT, THE TIMBER MAY BE S2S OR S4S.
3. ALL TIMBER TIES (S2S) AND POSTS (S4S) SHALL BE SPRUCE-PINE-FIR No.1 OR BETTER AND SHALL BE TREATED.
4. PLANKING (S4S) SHALL BE SPRUCE-PINE-FIR No.1 OR BETTER AND SHALL BE TREATED BUT ROUGH FINISH.
5. TIMBER RAILS SHALL BE SPRUCE-PINE-FIR No.1 GRADE OR BETTER AND SHALL BE TREATED.
6. TIMBER STRINGERS TO BE DF No.1 GRADE OR BETTER.
7. THE TOP RAIL SHALL HAVE COPPED OR SANDED EDGES (APPROX. 12mm) AS SHOWN ON THE DRAWINGS.
8. DECK PLANKS SHALL BE NAILED WITH 150 (5") GALVANIZED ARDOX SPIKES. THE PLANKING TO THE FIRST TIE SHALL HAVE A MINIMUM OF 2 NAILS/BOARD, WHILE 1 NAIL/BOARD WILL SUFFICE FOR THE REST.
9. PRESSURE TIMBER TREATMENT WITH ACZA TO MEET CSA-080-14.
10. ALL CUT TIMBER SHALL BE PROPERLY TREATED IN THE FIELD.
11. ALL BOLTS, SCREWS AND LAG-BOLTS SHALL BE MILD STRUCTURAL STEEL ACCORDING TO CSA-G40, 12 GRADE A307.
12. ALL TIMBER BOLTS AND HARDWARE SHALL MEET A.S.T.M. A-307 HOT-DIPPED GALVANIZED, *c/w* MALLEABLE IRON WASHERS AND GALVANIZED LOCK-NUTS, SIZED TO FIT AFTER GALVANIZING.

STEEL

1. FABRICATORS RESPONSIBLE FOR WELDED CONSTRUCTION MUST BE CERTIFIED FOR DIVISION 1 OR DIVISION 2.1 TO CURRENT VERSION OF CAN/CSA W47.1-09 "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL".
2. SHOP AND FIELD WELDING TO CURRENT VERSION OF CAN/CSA W59-13 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)". ELECTRODES TO BE COMPATIBLE WITH BASE METAL. MINIMUM 6mm FILLET WELDS UNLESS NOTED OTHERWISE.
3. STRUCTURAL STEEL SHALL MEET CAN/CSA G40.20-04 FOR GENERAL REQUIREMENTS, AND CAN/CSA G40.21-04 FOR QUALITY. UNLESS NOTED OTHERWISE, GRADES OF MATERIAL ARE:

STRUCTURAL STEEL AND MISCELLANEOUS STEELWORK CAN/CSA G40.20/G40.21, GRADE 350W

STRUCTURAL BOLTS, NUT AND WASHERS FOR STEEL WORK ASTM F3125M, GRADE A325M
4. ALL STEELWORK TO BE HOT DIPPED GALVANIZED UNLESS NOTED OTHERWISE. GALVANIZATION TO BE AFTER FABRICATION AS NOTED. GALVANIZING TO BE IN ACCORDANCE WITH CSA SPECIFICATIONS G164 TABLE 1.
5. GALVANIZING TO CURRENT VERSION OF CAN/CSA G164-M92 (R2003) "HOT DIP GALVANIZING OF IRREGULARLY SHAPED ARTICLES" OR ASTM STANDARD A123 AND F22329. ALL GALVANIZED COMPONENTS CUT OR DAMAGED SHALL BE FIELD TREATED WITH TWO COATS OF ZINC-RICH-PAINT. ALL DAMAGE BE REPAIRED IN ACCORDANCE WITH ASTM A780 "STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS".
6. MINIMUM SIZE OF FIELD WELDS, 2mm LESS THAN THE THICKNESS OF THE MATERIAL BUT NOT LESS THAN 6mm.
7. STRUCTURAL STEEL TO BE POWDER COATED DARK BROWN AFTER GALVANIZING.

CAST-IN-PLACE CONCRETE

1. THE CONTRACTOR SHALL SUBMIT A REPORT OUTLINING THE PROPOSED MIX DESIGN FOR EACH CLASSIFICATION OF CONCRETE TO THE ENGINEER FOR REVIEW AND ACCEPTANCE AT LEAST 2 WEEKS IN ADVANCE OF WHEN CONCRETE PRODUCTION IS SCHEDULED TO COMMENCE. REVIEW AND ACCEPTANCE OF THE MIX DESIGN BY THE DESIGN ENGINEER DOES NOT CONSTITUTE ACCEPTANCE OF THE CONCRETE. ACCEPTANCE OF THE CONCRETE WILL BE BASED SOLELY ON THE TEST RESULTS OF THE CONCRETE PLACED ON THE PROJECT. NO CONCRETE SHALL BE PLACED PRIOR TO RECEIVING ENGINEER ACCEPTANCE OF THE MIX DESIGN. EACH MIX DESIGN SUBMITTAL SHALL INCLUDE THE FOLLOWING:

-NAME OF THE PROPOSED SUPPLIER

-PROJECT SPECIFICS

-DISTANCE AND EXPECTED TRAVEL TIME FROM BATCH PLANT TO PROJECT SITE

-EXPECTED METHOD OF BATCHING, TRANSPORTING AND PLACING CONCRETE

-SPECIFIED MIX PARAMETER REQUIREMENTS

-NAME AND CONTACT INFORMATION OF INDEPENDENT, CERTIFIED QUALITY CONTROL TESTING FIRM AND/OR CERTIFIED TESTING PERSONNEL
2. CONCRETE AS PER BC MoTI SUPPLEMENT TO CAN/CSA-S6-14 SECTION 8.11.2.1.1 :

CLASSIFICATIONS	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	NOMINAL SIZE OF COARSE AGGREGATE (mm)	AIR CONTENT (%)	SLUMP (mm)	MAXIMUM W/C RATIO BY MASS
APPROACH SLAB, FOOTINGS <sup>(1)</sup> <sup>(2)</sup> <sup>(3)</sup>	35	28 <sup>(4)</sup>	5 ± 1	50 ± 20	0.38

(1) SUPER PLASTICIZERS OR HIGH RANGE WATER REDUCERS SHALL NOT BE USED UNLESS UNDER THE DIRECTION OF THE DESIGN ENGINEER.

(2) NO SUPPLEMENTAL CEMENTING MATERIALS SHALL BE USED IN THE CONCRETE (I.E. SILICA FUME, FLY ASH, ETC.).

(3) CEMENT SHALL BE TYPE GU AND TOTAL CEMENT CONTENT SHALL NOT EXCEED 380kg/m³.

(4) THE MAXIMUM PROPORTION OF AGGREGATE PASSING THE 5mm SCREEN SHALL BE 35% OF THE TOTAL MASS OF AGGREGATE.
3. FLY ASH OR OTHER POZZOLANS USED AS ADMIXTURES SHALL CONFORM TO ASTM C618-12 "STANDARD SPECIFICATION FOR FLY ASH AND RAW OR CALCINED NATURAL POZZOLAN FOR USE IN CONCRETE".
4. AIR ENTRAINMENT ADMIXTURES, AEA, SHALL CONFORM TO ASTM C260/C260M-10a "STANDARD SPECIFICATION FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE".
5. SLUMP TO BE MEASURED BEFORE ADDITION OF WATER-REDUCING ADMIXTURES, WRA, (SUPER PLASTICIZERS). SUPER PLASTICIZERS MAY BE USED TO OBTAIN HIGHER SLUMPS FOR WORKABILITY, WITH PRIOR APPROVAL FROM THE DESIGN ENGINEER.
6. EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED 20mm, UNLESS NOTED OTHERWISE.
7. DIMENSIONAL TOLERANCES FOR CONCRETE WORK SHALL BE GIVEN IN CAN/CSA A 23.1-14 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".
8. ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH CAN/CSA A23.1-14 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".
9. ALL FORMWORK SHALL BE DESIGNED, SUPPLIED, AND INSTALLED IN ACCORDANCE WITH CAN/CSA-S269.1-16

(FALSEWORK AND FORMWORK).

REINFORCEMENT

1. REINFORCING STEEL MUST CONFORM TO CAN/CSA-G30.18 GRADE 400W, UNLESS NOTED OTHERWISE.
2. SPACING OF BARS SHOWN ON THE DRAWINGS IS FROM CENTER-TO-CENTER OF BARS.
3. MINIMUM CONCRETE COVER TO REINFORCING STEEL, UNLESS SHOWN OTHERWISE IN THE DRAWINGS:

FACES CAST AND PERMANENTLY EXPOSED AGAINST EARTH = 100mm, UNO  
ALL OTHER LOCATIONS = 75mm, UNO

4. DEVELOPMENT LENGTH IS THE MINIMUM LENGTH OF STRAIGHT REINFORCEMENT REQUIRED TO ANCHOR IT IN CONCRETE.
5. DEVELOPMENT LENGTH AS FOLLOWS:

	UNCOATED VERTICAL BARS	UNCOATED HORIZONTAL BARS	UNCOATED TOP HORIZONTAL BARS*
10M	300mm	350mm	450mm
15M	400mm	500mm	650mm
20M	550mm	700mm	900mm

6. LAP SPLICES MUST BE STAGGERED WITH A MINIMUM LAP LENGTH AS FOLLOWS:

	UNCOATED BARS	UNCOATED TOP BARS*
10M	350mm	450mm
15M	500mm	650mm
20M	700mm	900mm

\*TOP BARS DEFINED AS BARS WITH MORE THAN 300mm OF FRESH CONCRETE BELOW THE DEVELOPMENT LENGTH OR SPLICE.

7. SPLICES MUST BE STAGGERED SO THAT NO MORE THAN 50% OF THE REINFORCING IS SPLICED AT ANY ONE LOCATION, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
8. WELDING OF REINFORCEMENT IS NOT RECONNECTED WITHOUT WRITTEN APPROVAL BY THE DESIGN ENGINEER. REINFORCEMENT BARS TO BE WELDED MUST BE BILLET STEEL BARS CONFORMING TO CSA-G30.18-09 "CARBON STEEL BARS FOR CONCRETE REINFORCEMENT OR CSA W186-M1990 (R2012) WELDING OF REINFORCED CONCRETE CONSTRUCTION" DESIGNATION "W".

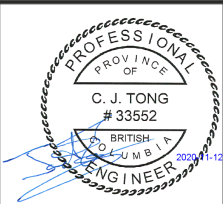
ISSUED FOR TENDER

DESIGN NO.

REV NO	REVISIONS	DATE	DRAWN	APPRD
B	90% DETAILED DESIGN	20JUL24	JD	JT
C	ISSUED FOR TENDER	20SEP08	DRA	JT
D	RE-ISSUED FOR TENDER	20OCT16	DRA	JT
E	RE-ISSUED FOR TENDER	20NOV02	JD	JT
F	RE-ISSUED FOR TENDER	20NOV12	JD	JT

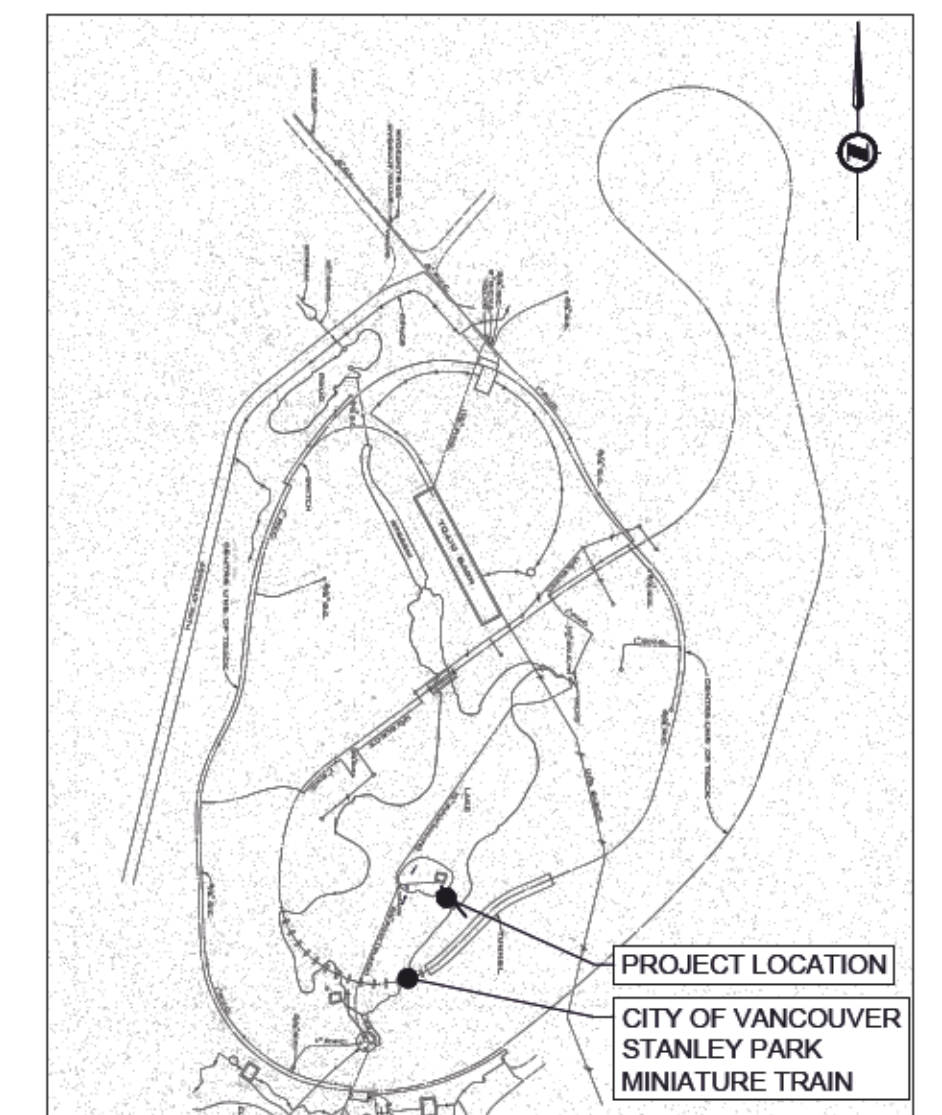
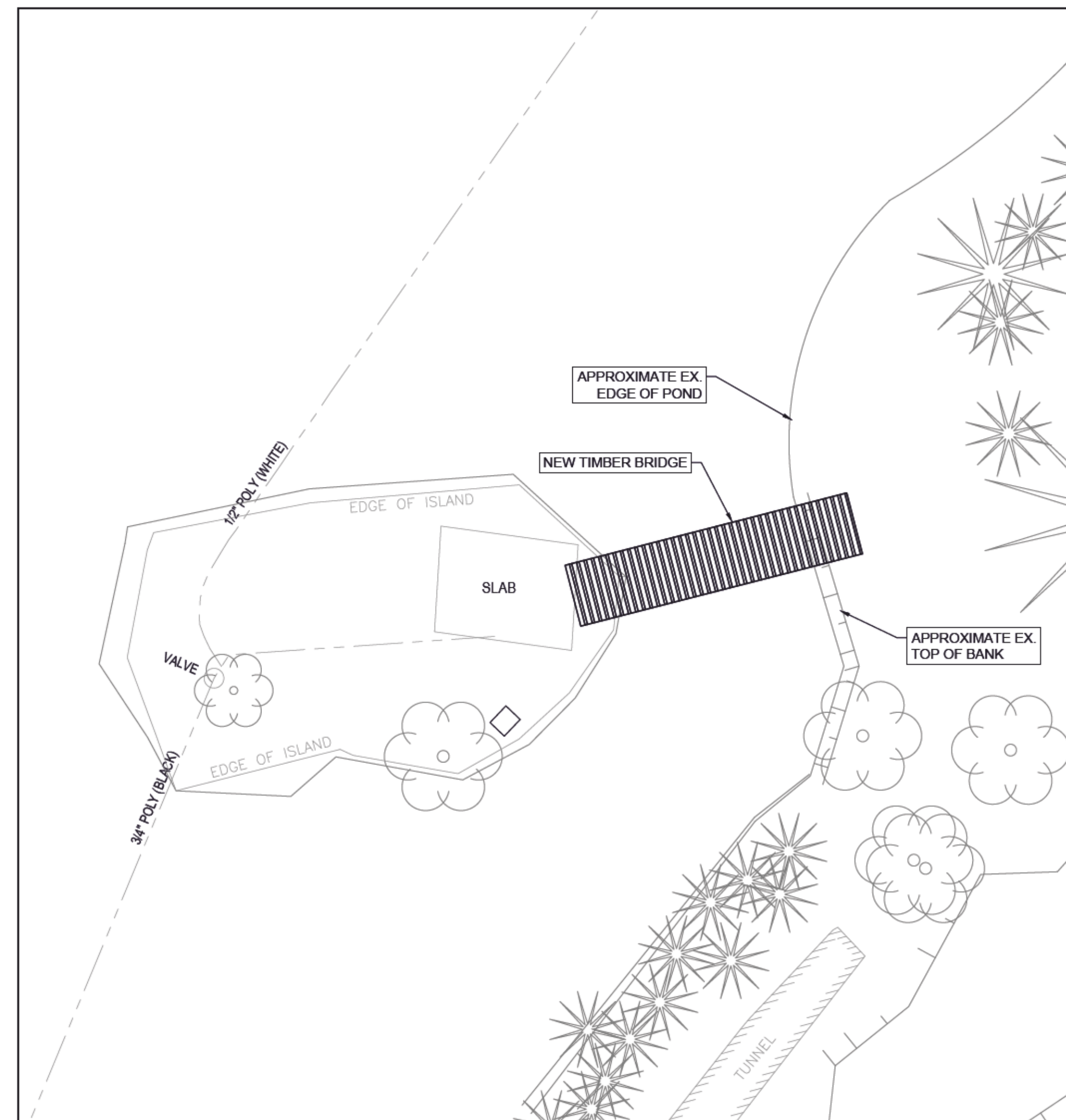
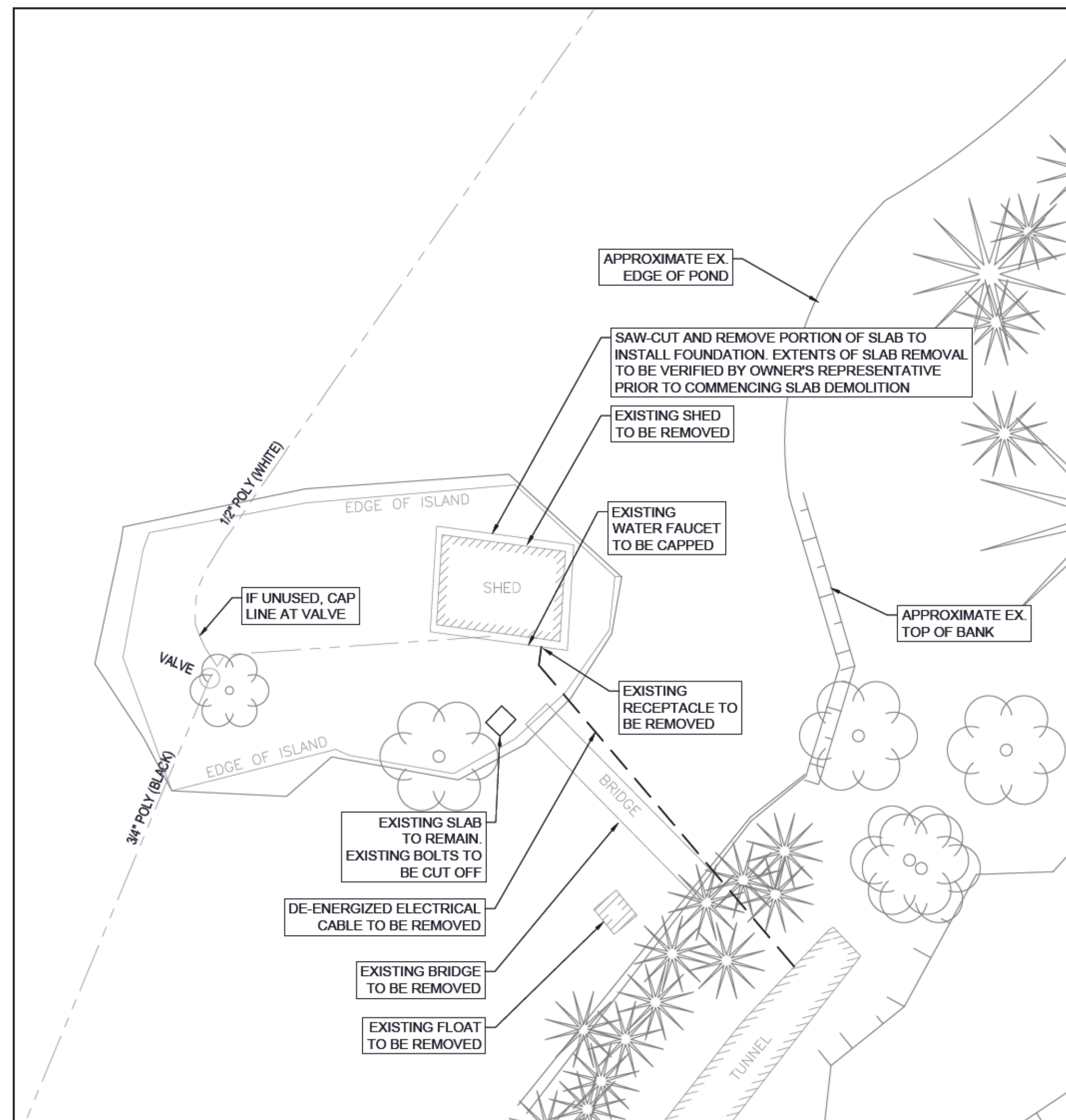


GENERAL NOTES  
STANLEY PARK FOOTBRIDGE DEMOLITION AND DESIGN



SCALE	N/A	DATE	20200525	DWG. NO. 02 OF 05
DRAWN BY	JD	DESIGN BY	JT	
CHECKED BY	MH	APPROVED BY	JT	
				REV. E





- ## NOTES

1. FOR GENERAL NOTES SEE SHEET 002.
2. EXISTING TIMBER SHED IS APPROX. 7'x8' & 6'-8" TALL.
3. HEATER, LIGHT AND ASSOCIATED ELECTRICAL CORDS INSIDE THE SHED TO BE REMOVED.

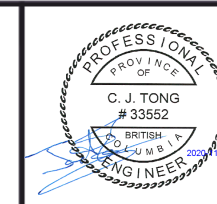
ISSUED FOR TENDER

DESIGN NO.

REV	NO	REVISIONS	DATE	DRAWN	APPROVED
B		90% DETAILED DESIGN	20JUL24	JD	JT
C		ISSUED FOR TENDER	20SEP08	DRA	JT
D		RE-ISSUED FOR TENDER	20OCT16	DRA	JT
E		RE-ISSUED FOR TENDER	20NOV02	JD	JT
F		RE-ISSUED FOR TENDER	20NOV12	JD	JT



## GENERAL ARRANGEMENT



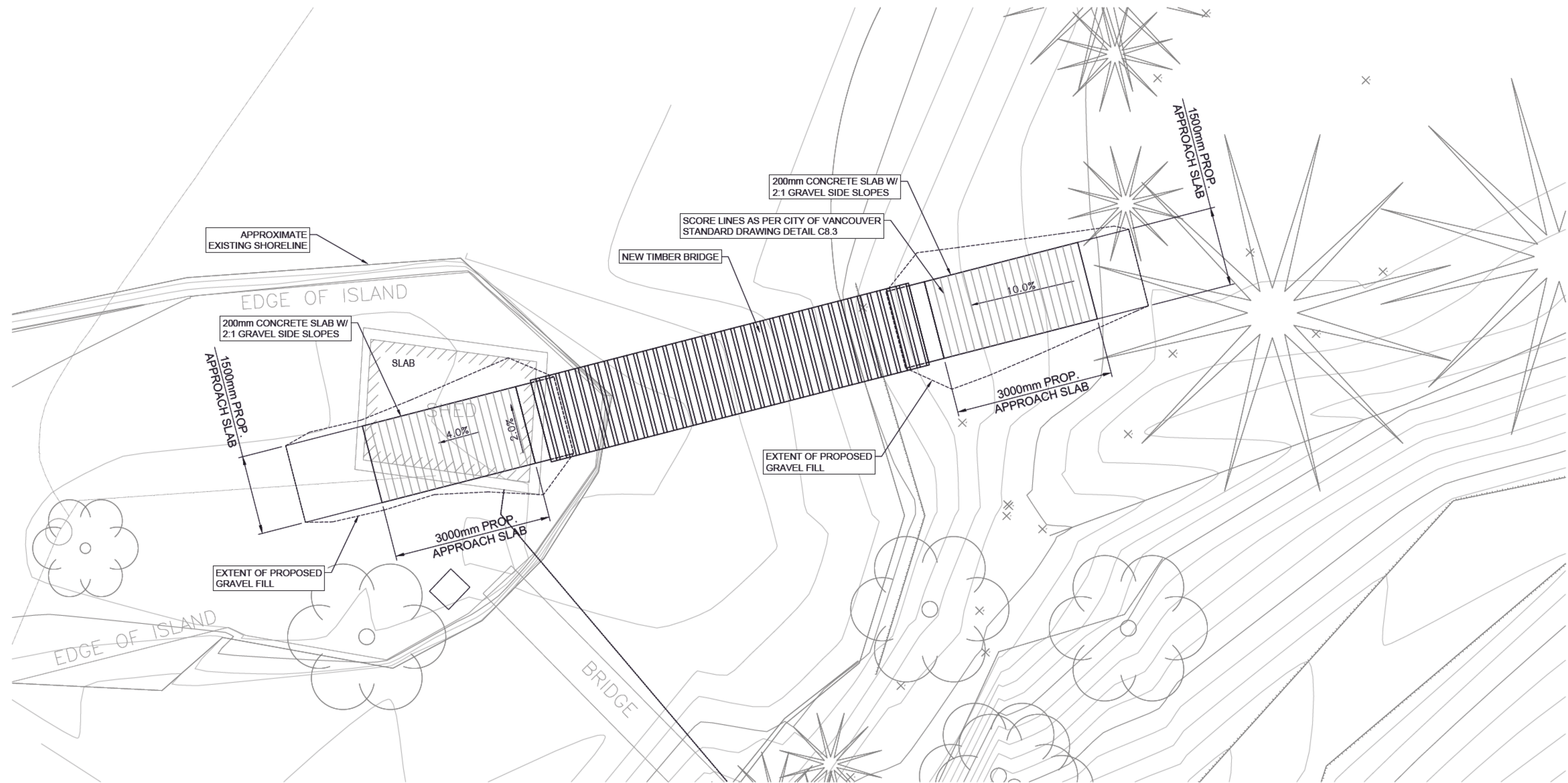
#503, 4190 Lougheed Highway, Burnaby, BC V5C 6A8  
T: (604) 629-2696 F: (604) 629-2698

SCALE	N/A	DATE	20200525	DWG. NO.  03 OF 05
DRAWN BY	JD	DESIGN BY	JT	
CHECKED BY	MH	APPROVED BY	JT	
				REV. E

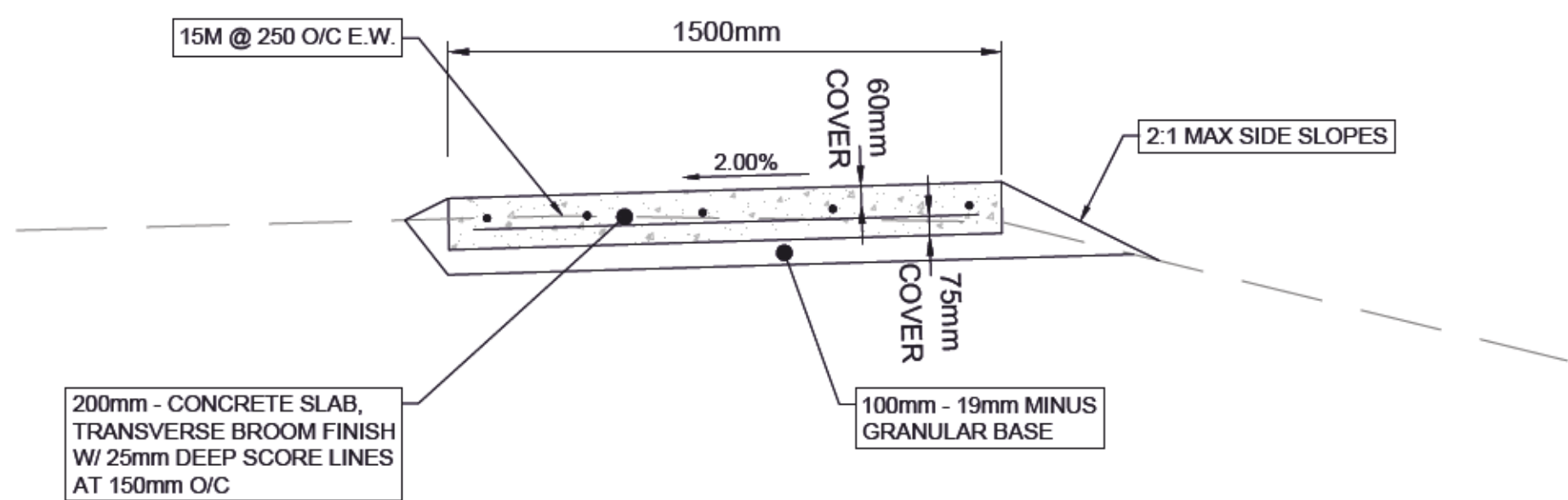




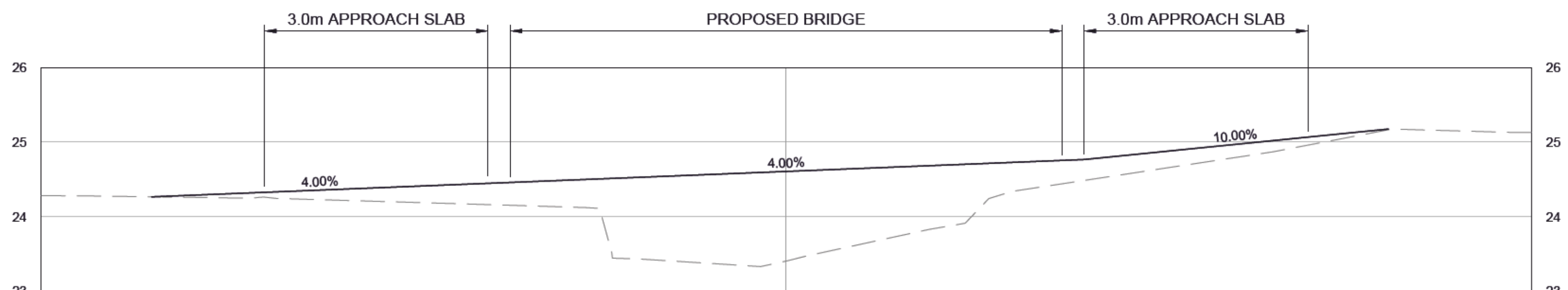




PLAN  
1:20



PROPOSED PATH  
TYPICAL SECTION  
NTS



PROFILE AT CENTRELINE OF PATHWAY  
1:20

NOTE:  
1. GRADES SHOWN ARE AT TOP OF BRIDGE DECK.

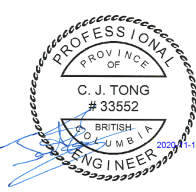
ISSUED FOR TENDER

DESIGN NO.

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	90% DETAILED DESIGN	20JUL24	GSH	JT
B	ISSUED FOR TENDER	20SEP08	DRA	JT
C	RE-ISSUED FOR TENDER	20OCT16	DRA	JT
D	RE-ISSUED FOR TENDER	20NOV02	JD	JT
F	RE-ISSUED FOR TENDER	20NOV12	JD	JT



CIVIL - GRADING PLAN  
STANLEY PARK FOOTBRIDGE DEMOLITION AND DESIGN



#503, 4190 Lougheed Highway, Burnaby, BC V5C 6A8  
T: (604)829-2596 F: (604)829-2598

SCALE	N/A	DATE	20200525	DWG. NO.
DRAWN BY	JD	DESIGN BY	JT	05 OF 05
CHECKED BY	MH	APPROVED BY	JT	REV. D

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
APPENDIX 3 - LIST OF SPECIFICATIONS, DRAWINGS & SPECIAL EVENTS

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**LIST OF SPECIAL EVENTS:**

See attached.

### List of Special Events (June – December 2021)

This list is subject to change. Contractor is responsible for coordinating work with special events and filming requests affecting work areas under Contract.

Last updated: 2021 April 26

Start Date	End Date	Hours of Operation	Event
June 30	Sept. 6	Wed. to Sun., 11am - 4pm	Urban Forest Train
Oct 11	Oct 31	Mon. to Thurs., 5:30pm - 9:30pm Fri. to Sun., 11am - 5pm, 5:30pm-10:00pm	Ghost Train
Nov 25	Jan 1	4pm - 10pm	Bright Nights Train



INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
PART B - TERMS AND CONDITIONS OF ITT PROCESS

---

## 1.0 DEFINITIONS AND INTERPRETATION

### 1.1 Definitions

The following capitalized terms have the meanings set out below when used in the Tender Documents, unless the context requires otherwise:

- (a) **“City”** means the City of Vancouver, “as represented by its Vancouver Board of Parks and Recreation”;
- (b) **“Closing Time”** has the meaning set out on the cover page of this ITT;
- (c) **“Contract”** means a contract substantially in the form of Part D - Form Agreement, to be entered into between the City and a successful Tenderer;
- (d) **“Contractor”** means a Tenderer, the Tender of which (or at least one offer contained within which) the City has accepted, and which Tenderer has consequently entered into a Contract;
- (e) **“Consultant”** means the architect, engineer or other professional consultant who will act as the City’s agent for the purpose of managing and administering a Contract, who may be an employee of the City or an independent consultant engaged by the City on its behalf;
- (f) **“Drawings”** means the portion of the Tender Documents consisting of the graphic and pictorial representations of the Work or Work requirements;
- (g) **“Form of Tender”** means the form of tender in Part C - Form of Tender to this ITT on which Tenderers are to complete their Tenders;
- (h) **“GST”** means the tax payable and imposed pursuant to Part IX of the *Excise Tax Act* (Canada), as amended or replaced from time to time;
- (i) **“Information and Privacy Legislation”** includes the *Freedom of Information and Protection of Privacy Act* (British Columbia) and the regulations thereunder;
- (j) **“Losses”** means, in respect of any matter, all:
  - (i) direct and indirect; and
  - (ii) consequential,  
  
claims, demands, proceedings, losses, damages, liabilities, deficiencies, costs and expenses (including without limitation, all legal and other professional fees and disbursements, interest, penalties and amounts paid in settlement, whether from a third person or otherwise);
- (k) **“Notice of Award”** has the meaning set out in Part C - Form of Tender;
- (l) **“Notice to Proceed”** has the meaning set out in Part C - Form of Tender;



**INVITATION TO TENDER NO. PS20201183**  
**CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT**  
**PART B - TERMS AND CONDITIONS OF ITT PROCESS**

---

- (m) **“PST”** means the provincial sales tax payable and imposed pursuant to the *Provincial Sales Tax Act* (British Columbia), as amended or replaced from time to time;
- (n) **“Site”** has the same meaning as “Place of the Work,” as defined in the Form of Agreement;
- (o) **“Specifications”** means the portion of the Tender Documents consisting of the written requirements and standards for products, systems, workmanship, quality, and the services necessary for the performance of the Work;
- (p) **“Tender”** means a tender submitted to the City in response to this ITT;
- (q) **“Tender Contract”** means the contract between the City and each Tenderer governing the ITT process;
- (r) **“Tender Documents”** means the documents identified as such in Part A - Introduction;
- (s) **“Tenderer”** means an entity eligible to participate in this ITT process, or as used in Part C - Form of Tender, a particular such entity;
- (t) **“Tender Price”** means the amount stipulated by the Tenderer in the space provided therefor in the Form of Tender, including all applicable taxes, which price, for greater certainty, is the Tenderer’s proposed Contract Price to complete all of the Work; and
- (u) **“Work”** means the total construction and related services required by the Tender Documents;

All other capitalized terms used in this ITT have the meanings given to them elsewhere in the ITT.

## **1.2 Interpretation**

- (a) In the Tender Documents, any reference to the masculine, the feminine or the neutral includes the others unless the context requires otherwise. Also, any reference to the singular includes the plural where appropriate.
- (b) If there is a conflict between or among (i) the Specifications and Drawings and (ii) the other Tender Documents, the other Tender Documents shall prevail over the Specifications and Drawings.
- (c) In these Tender Documents, the word “should” and the terms “is asked to” and “are asked to” are used to denote actions or Tender inclusions that, while not mandatory, are strongly recommended. In contrast, the terms “will”, “shall”, “must”, “is to”, “are to”, “is required to” and “are required to” are used to denote mandatory requirements of the ITT. If a Tenderer is uncertain as to whether or not a particular action or Tender inclusion is mandatory, the Tenderer should submit an inquiry to the Contact Person.

## **2.0 SUBMISSION INSTRUCTIONS**

- 2.1 Each Tenderer must complete its Tender on the Form of Tender and submit its Tender in accordance with the instructions set forth on the cover page of the ITT and elsewhere herein.

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- 2.2 Any Tender received after the Closing Time may be returned unopened to the Tenderer.
- 2.3 Faxed Tenders and/or other documents will not be accepted.
- 2.4 Each Tender must be signed by an authorized signatory or authorized signatories of the Tenderer (as necessary for due execution on behalf of the Tenderer). Each Tender by a company or partnership should specify the full legal name of the legal entity submitting the Tender.
- 2.5 All blank spaces in the Form of Tender should be filled in and all schedules completed. Any failure by a Tenderer to complete the Form of Tender may result in preference being given to competing Tenderers. All prices and notations should be legibly written in a non-erasable medium. Erasures, interlineations or other corrections should be initialled by an authorized signatory of the Tenderer.
- 2.6 Subject to any alternatives or options in respect of which the City requests pricing or other information in a Schedule to the Form of Tender, Tenders are to be all inclusive and without qualification or condition.
- 2.7 The City may, at any time and for any reason, extend the Closing Time by means of a written amendment published on the City's website, as set out in Part A - Introduction.
- 2.8 A Tenderer that has already submitted a Tender may amend its Tender prior to the Closing Time: a) by submitting an amendment identifying a plus or minus variance to the Tenderer's Tender Price or the Tenderer's price for a subset of the Work (if, in the latter case, Section 1.0 of the Form of Tender requests that, in addition to offering a Tender Price for all of the Work, the Tenderer offer prices for subsets of the Work); or b) by sending in a completely new Tender, clearly indicating it replaces the previously submitted Tender. Any such revision must clearly identify the ITT number and the Closing Time. A Tender revision submitted as aforesaid shall effectively amend the Tender and the City shall only review and evaluate the Tender as amended.
- 2.9 The City will not be responsible for any cost incurred by any Tenderer in preparing a Tender.

**3.0 BONDS**

- 3.1 Tenders will be irrevocable and each offer made therein shall remain open for acceptance by the City for a period of ninety (90) calendar days after the Closing Time. Each Tender must be accompanied by a bid bond valid for a period of ninety (90) calendar days commencing on the Closing Time, payable to the "City of Vancouver "Board of Parks and Recreation", in the amount of ten percent (10%) of the Tender Price, and not a dollar amount, as a guarantee of the due execution of a Contract and the delivery of the performance bond and labour and material payment bond required by the Form of Tender. The forms of these bonds are to be those issued by the Canadian Construction Documents Committee as follows:

Bid Bond:	CCDC 220 (latest)
Performance Bond:	CCDC 221 (latest)
Labour and Material Payment Bond:	CCDC 222 (latest)

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- 3.2 A bid bond must be submitted in an electronic or digital format and must meet the following criteria:
- (a) The version submitted by the Tenderer must be verifiable by the City with respect to the totality and wholeness of the bond form, including: the content; all digital signatures; all digital seals; with the surety company, or an approved verification service provider of the surety company.
  - (b) The version submitted must be viewable, printable and storable in standard electronic file formats acceptable to the City, and in a single file. Allowable formats include pdf.
  - (c) The verification may be conducted by the City immediately or at any time during the life of the bond and at the discretion of the City with no requirement for passwords or fees.
  - (d) The results of the verification must provide a clear, immediate and printable indication of pass or fail regarding Section 3.2(a).
- 3.3 Bonds failing the verification process will NOT be considered to be valid. Bonds passing the verification process will be treated as original and authentic.
- 3.4 Each Tender must be accompanied by a “Consent of Surety”, substantially in the form provided as a schedule to the Form of Tender, duly completed by a surety company authorized and licensed to carry on business in British Columbia.
- 3.5 The bid bonds of unsuccessful Tenderers will be returned to them upon request at any time after the Contract is awarded. The bid bond of the Tenderer to whom the award is made will be returned upon request of the Tenderer following: execution of the Contract; delivery of a performance bond for 50% of the Tender Price (or the aggregate tendered price for the subset(s) of the Work in respect of which a Notice of Award has been given) and a labour and material payment bond for 50% of such price; commencement of the Work; and compliance with any other conditions set out in the Form of Tender. The cost of all bond premiums must be included in the Tender Price.
- 3.6 All bonds must be issued by a surety company authorized and licensed to carry on business in British Columbia.

**4.0 TENDER PRICE**

- 4.1 Subject to any adjustment for changes to the Work, which is approved by the City in accordance with the Tender Documents or Contract Documents, the Tender Price shall be the maximum compensation owing to the Contractor for the Work (and each tendered price for any subset of the Work referred to in Section 1.0 of the Form of Tender (if applicable) shall be the maximum compensation owing to the Contractor for such subset of the Work) and the Contractor’s compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing and all other costs and expenses whatsoever incurred in performing the Work (or the relevant subset of the Work).
- 4.2 If unit prices or other price breakdowns are requested in a schedule to the Form of Tender, such information **must** be included in the Tender. Furthermore, if such unit prices or other price breakdowns are requested in a schedule to the Form of Tender, such amounts may be

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used to compute interim progress payments and will be reviewed by the City in its evaluation of Tenders; therefore Tenderers should ensure that such amounts accurately reflect their costs for each item. A Tenderer may be required to justify any submitted unit price or other price breakdown.

- 4.3 If an itemized breakdown of the Tender Price (or of the tendered price for any subset of the Work) is requested in a schedule to the Form of Tender, the City may delete any items in order to meet any budget limitation and award a Contract for only the remaining items to a Tenderer who is agreeable thereto.
- 4.4 If Section 1.0 of the Form of Tender requests that, in addition to offering a Tender Price for all of the Work, each Tenderer offer prices for subsets of the Work, then, each such offer made in respect of a subset of the Work by a Tenderer shall be irrevocable to the same extent as, and otherwise subject to all of the same terms and conditions as, the Tenderer's offer to complete all of the Work for the Tender Price. If Tenders are made in respect of subsets of the Work, the City may award a Contract for all of the Work to one Tenderer or it may award multiple Contracts to different Tenderers in respect of particular subsets of the Work. The City may also determine, in order to meet any budget limitation, to award Contract(s) only in respect of one or more, but not all, of the subsets of Work described in Section 1.0 of the Form of Tender. Tenderers are advised that the City is not bound to award any Contract to the Tenderer offering to complete the Work, or offering to complete any subset of the Work, for the lowest price. Without limiting the foregoing, the City may split the award of Contracts even though the aggregate Contract price is higher than any particular Tenderer's Tender Price.

## **5.0 ACCEPTANCE OF TENDERS**

- 5.1 Despite anything to the contrary contained in the Tender Documents:
- (a) Tenderers are notified that the lowest or any Tender (or the lowest price offered for any particular subset of the Work, if applicable) need not necessarily be accepted and the City reserves the right to reject any and all Tenders at any time, or cancel the ITT process, without further explanation or to accept any Tender (or any offer made within a Tender) that is considered advantageous to the City.
  - (b) Acceptance of any offer made within a Tender is contingent on funds being approved and a contract award being made by, or pursuant to authority delegated by, Vancouver City Council with "Vancouver Park Board's Board of Commissioners" and the compliance of the Tenderer with the conditions required to be satisfied upon receipt of a Notice of Award.
  - (c) Tenders which fail to conform to the Tender Documents may or may not be disqualified or rejected. The City may or may not waive any non-compliance with the Tender Documents, including any material non-compliance, irregularity or anomaly, and including any non-compliance as to the timing of delivery of anything required by the Tender Documents, and may at its sole discretion elect to retain for consideration Tenders which are non-conforming because they do not contain the content or form required by the Tender Documents or because they have not complied with the process for submission set out in this ITT.
  - (d) Where the City is of the view, in its sole discretion, that there is an ambiguity or other discrepancy which cannot be discerned or resolved from examining the contents of a

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Tender, then whether or not such an ambiguity or discrepancy actually exists on the face of the Tender, the City may, prior to any Contract award, solicit clarification from the Tenderer or accept clarification from the Tenderer on any aspect of the Tender. Such clarification may include the acceptance of any further documents or information which will then form part of the Tender. The soliciting or accepting of such clarification (whether or not solicited) by the City will be without any duty or obligation of the City to advise any other Tenderers or to allow them to vary their tendered price(s) as a result of the acceptance of clarification from any one or more Tenderers and the City will have no liability to any Tenderer as a result of such acceptance of clarification.

- (e) The award of any Contract will be based on an evaluation of the Tenders by the City to determine which, in the City's opinion, offer the best overall value to the City. The City expects to place the greatest emphasis on price; however, the City may take into account other factors affecting value, including those concerning quality, service or sustainability, or Tenderers' past work, reputations or experience. The City may also focus, where relevant, on the overall net impact of a Tender (or an offer therein) on the finances of the City (including both capital and operating costs). Therefore, the City may accept a Tender other than the lowest Tender.
- (f) If the City determines that all Tender Prices are too high, all Tenders may be rejected.
- (g) The City may, prior to any Contract award, agree, with the Tenderer considered to provide best value or any one or more Tenderers, to certain changes to the scope of the Work or certain changes to Contract conditions, in each case without having any duty or obligation to advise any other Tenderers or to allow them to vary any tendered prices as a result of such changes, and the City will have no liability to any other Tenderer as a result of such changes. However, each Tender must be a tender in respect of the Work set forth herein, to complete that Work (or to complete subsets of that Work, if so specified in Section 1.0 of the Form of Tender) under an agreement in the form of the Form of Agreement included as Part D of the ITT, and not propose variations thereto.
- (h) Each Tenderer acknowledges and agrees that the City will not be responsible for Losses incurred by the Tenderer as a result of or arising out of submitting a Tender, or due to the City's acceptance or non-acceptance of its Tender, or any part thereof, or any breach by the City of the Tender Contract between the City and the Tenderer, or arising out of any Contract award not being made in accordance with the express or implied terms of the Tender Documents.
- (i) The City may award a Contract on the basis of policies and preferences not stated in the Tender Documents or otherwise than as stated in the Tender Documents.
- (j) Prior to any Contract award, a Tenderer may be required to demonstrate financial stability. Should the City so request, a Tenderer may be required to provide annual financial reports or a set of financial statements prepared by an accountant.
- (k) City guidelines or policies that may be applicable to the ITT will not give rise to legal rights on the part of any Tenderer, Contractor, subcontractor, supplier, or other person as against the City and will in no case create any liability on the part of the City. For certainty, the City's Procurement Policy, as amended or replaced from time to time, is

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now agreed to be an internal guideline document and creates no legal rights or obligations with respect to this ITT.

- (l) The City may reject any Tender by a Tenderer that has engaged in collusion with another Tenderer or otherwise attempted to influence the outcome of the ITT other than through the submission of its Tender.
- (m) The City may elect, in its sole discretion, to accept for consideration Tenders that contain conditions or qualifications that are in the nature of corrections of typos or resolutions of internal inconsistencies in this ITT or the Form of Agreement in Part D, or that represent immaterial changes to the Form of Agreement in Part D and do not consist of changes of substance or changes to allocations of risk, or with respect to the scope of any Work, that are for the avoidance of doubt only and do not suggest any deviation from the requirements of the ITT. This Section 5.1(m) is a reservation of rights for the benefit of the City and no Tenderer may rely on this paragraph to qualify its Tender.

#### **6.0 AWARD OF CONTRACT**

- 6.1 Award of a Contract will be subject to approval by, or pursuant to authority delegated by, Vancouver City Council with “Vancouver Park Board’s Board of Commissioners” and the Tenderer’s compliance with the conditions required to be met upon receipt of the Notice of Award.
- 6.2 Any successful Tenderer will become a Contractor and will be required to sign a Contract with the City, subject to any amendments approved by the City in writing.

#### **7.0 EXAMINATION OF TENDER DOCUMENTS**

- 7.1 Each Tenderer should examine the Tender Documents and must also satisfy itself of the extent of the Work. Each Tenderer must make its own estimate of the facilities and difficulties attending the performance and the completion of Work.
- 7.2 No allowance will be made on behalf of a Contractor for any error, omission or negligence on the Contractor’s part or for non-compliance with the requirements of the foregoing clause 7.1.

#### **8.0 SITE EXAMINATION/PRE-SUBMISSION DUE DILIGENCE BY TENDERER**

- 8.1 Tenderers should make a careful examination of the Site and investigate and satisfy themselves at their own risk and expense as to all matters relating to the nature and extent of Work, the means of access to the Site, the extent of required coordination with public use of adjacent areas, and any and all matters which are referred to in the Specifications and Drawings and other Tender Documents, or which are necessary for the full and proper completion of any Work or are required by the conditions under which it must be performed. No allowance will be made subsequently for any error, negligence, interpretation, or misinterpretation on a Contractor’s part.
- 8.2 The City and the Consultant do not make any representations or warranties concerning the completeness or accuracy of Site and geotechnical information (if any) provided in or with the Tender Documents, and each Tenderer must evaluate such information as part of its overall assessment of actual Site conditions.

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- 8.3 If any Tenderer wishes to evaluate any Site conditions, and, for that purpose, requires access or documents from the City beyond the access and documents already provided for in this ITT, the City encourages the Tenderer to submit a written request to the City as far in advance of the Closing Time as is possible. The City will then consider whether or not to facilitate the request. In response to such a request, the City may elect to, itself, undertake a particular study and distribute the results to all Tenderers.

**9.0 INTERPRETATION AND CLARIFICATIONS**

- 9.1 If any Tenderer is in doubt as to the correct interpretation of any part of the Specifications, Drawings, or other Tender Documents, the Tenderer should request an interpretation of the same from the City by the time stated in Part A - Introduction, Section 6.3. In the absence of such a request, the Tenderer's Tender will be presumed to be based upon the interpretation that may be subsequently given in accordance with the Contract Documents, after award of a Contract.
- 9.2 Prior to the Closing Time, requests for clarification of the Specifications, Drawings, or other Tender Documents may be answered in writing by the City and sent to all prospective Tenderers who have submitted a Response Notification Form on or before the indicated deadline. The City is not responsible for any other explanations or interpretations of the Specifications, Drawings or other Tender Documents.

**10.0 PRODUCT APPROVAL**

- 10.1 Wherever any material, machinery, equipment or fixture (any "**Product**") is specified or shown in the Tender Documents by reference to a proprietary item, product or model number, catalogue number, manufacturer or trade name or similar reference, each Tenderer obligates itself to submit its Tender and, if applicable, accept award of a Contract based upon the use of such Product. Use of any such reference in the Tender Documents is intended to establish the measure of quality which the City (or its Consultant) has determined to be requisite and necessary for the Work. Where two or more Products are shown or specified, the Contractor has the option of which to use.
- 10.2 For approval of Products other than those specified, a Tenderer should submit a request in writing to the City at least five business days prior to the Closing Time. Requests must clearly define and describe the Product for which approval is requested. Requests should be accompanied by manufacturer's literature, specifications, drawings, cuts, performance data or other information necessary to completely describe the items. Approval by the City will only be in the form of an addendum to the Specifications issued by the City.
- 10.3 Approvals of Products, as noted in clause 10.2 above, shall only be deemed effective insofar as the Products conform to the Specifications.

**11.0 INSURANCE**

- 11.1 Each Tenderer should ensure that it can maintain the insurance described in the Form of Agreement (Part D).
- 11.2 The Tenderer should complete and submit the "Certificate of Existing Insurance" attached as a Schedule to the Form of Tender, together with the "Undertaking of Insurance" attached as a Schedule to the Form of Tender.

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- 11.3 Following Contract award, a successful Tenderer will be required to complete a certificates of insurance for the Work (or the particular subset of the Work in respect of which the Contract is made), in the form attached as a schedule to the Form of Tender.

**12.0 WORKSAFEBC**

- 12.1 The Tenderer should ensure that it can comply with all WorkSafeBC requirements, as described in the Form of Agreement (Part D).

**13.0 LABOUR RATES AND EQUIPMENT**

- 13.1 Tenderers must provide, if requested in a schedule to the Form of Tender, the force account labour and equipment rates setting out the all-inclusive hourly rates for all applicable types of equipment as well as the all-inclusive hourly rates for all applicable categories of labour, which rates will then apply pursuant to any Contract.

**14.0 LISTS OF SUBCONTRACTORS AND SUPPLIERS**

- 14.1 Tenderers should provide, if requested in a schedule to the Form of Tender, lists of proposed subcontractors and suppliers, specifying the name and address of, and the portion of the Work to be completed by, or the equipment or materials to be supplied by, each proposed subcontractor or supplier.
- 14.2 The City reserves the right to object to any of the proposed subcontractors or suppliers listed in a Tender. If the City objects to a listed subcontractor or supplier, then the City will permit a Tenderer to propose a substitute subcontractor or supplier acceptable to the City. A Tenderer will not be required to make such a substitution and, if the City objects to a listed subcontractor or supplier, the Tenderer may, rather than propose a substitute subcontractor or supplier, consider its Tender rejected by the City and, by written notice, withdraw its tender. The City shall, in that event, return the Tenderer's bid security.

**15.0 TAXES AND FEES**

- 15.1 The successful Tenderer will be required to obtain and pay for any applicable municipal, provincial and federal permits and licences necessary for the proper completion of the Work. The City will not be liable in any manner for the same, and the successful Tenderer agrees to indemnify and save the City harmless from and against all claims and Losses in relation to obtaining and paying for any applicable municipal, provincial and federal permits and licences necessary for the proper completion of the Work.
- 15.2 Each Tenderer's Tender Price (and each other price offered by the Tenderer in its Tender, if applicable) must, unless otherwise expressly stated, be inclusive of all applicable municipal, provincial, federal and other taxes, and all customs and excise duties and other assessments and charges, including sales taxes assessed upon the sale of goods and services to the City under the Contract, and the successful Tenderer agrees to indemnify and save the City harmless from and against all claims which shall be made with respect thereto.

**16.0 NON-RESIDENT WITHHOLDING TAX**

- 16.1 Tenderers are advised that, if the Contractor is not a resident of Canada, federal tax legislation may require that a certain percentage of any Contract Price otherwise payable to the



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Contractor be withheld by the City and remitted to the Receiver-General for Canada. The percentage required to be withheld and remitted varies depending on, among other things, the country of residence, the provisions of any applicable tax treaties and the nature of the payment. Non-resident Tenderers may contact the Vancouver office of the Canada Revenue Agency for further details. Under any Contract, any and all money so withheld and remitted shall be treated as a payment to the Contractor against the Contract Price.

**17.0 NO CLAIM AGAINST THE CITY**

- 17.1 The Tenderer acknowledges and agrees that the City will not be responsible for any Losses incurred by the Tenderer, including, without limiting the generality of the foregoing, any Losses incurred by the Tenderer directly or indirectly caused by any act or omission of the City or breach of any agreement or duty by the City, express or implied, and by submitting a Tender each Tenderer shall be deemed to have agreed that it has no claim whatsoever.
- 17.2 The Tenderer now indemnifies and will protect and save the City and any of its employees, advisors or representatives (including the Consultant) harmless from and against all Losses, in respect of any claim or threatened claim by any of its subcontractors, or materials or equipment suppliers alleging or pleading:
- (a) a breach of the Tender Contract by the City or any of its employees, advisors or representatives (including the Consultant);
  - (b) an unintentional tort, of the City or any of its employees, advisors or representatives (including the Consultant), occurring in the course of conducting this ITT; or
  - (c) liability on any other basis related to the ITT or the Tender Contract.

**18.0 DISPUTE RESOLUTION**

- 18.1 Any dispute relating in any manner to this ITT, except only disputes arising between the City and any Tenderer to whom the City has made an award of a Contract, which arise under such Contract, will be resolved by arbitration in accordance with the *Commercial Arbitration Act* (British Columbia), amended as follows:
- (a) The arbitrator will be selected by the City's Director - Supply Chain Management;
  - (b) Sections 17.1 and 17.2 above will:
    - (i) bind the arbitrator, the Tenderer and the City; and
    - (ii) survive any and all awards made by the arbitrator; and
  - (c) The Tenderer will bear all costs of the arbitration.

**19.0 CONFIDENTIALITY AND PRIVACY**

- 19.1 Each Tender, once submitted to the City, will be held in accordance with the City's role as a public body required under Information and Privacy Legislation to protect or disclose certain types of records according to certain statutory rules. Each Tender, upon submission to the City, will be received and held in confidence by the City, unless and to the extent that it is or must be disclosed pursuant to Information and Privacy Legislation or other applicable legal

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requirements, and except that the City may publicly disclose information about or from Tenders, including without limitation names and prices, in the course of publicly reporting to the Vancouver City Council about the ITT.

- 19.2 If unsuccessful, a Tenderer, at the City's request, shall destroy or return all copies and originals (in any format or medium) of the Tender Documents.

**20.0 RELEASE OF INFORMATION RESTRICTED**

- 20.1 The release of information about Tenders is restricted. Tenderers can obtain information concerning the names of the other Tenderers who have submitted a Tender and the Tender Price shown on each Form of Tender at the following website within 48 hours of the Closing Time. However, no other information is anticipated to be disclosed by the City.

<http://vancouver.ca/doing-business/unverified-tender-results.aspx>

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PART C - FORM OF TENDER**

<b>Tender of:</b>			
	Legal Name of Person, Partnership or Corporation (the “ <b>Tenderer</b> ”)		
<b>Business Address:</b>			
<b>Postal or Zip Code:</b>			
<b>Cheques Payable to/Remit to Address:</b>			
<b>Postal or Zip Code:</b>			
<b>Key Contact Person:</b>			
<b>Telephone No.:</b>			
<b>E-mail:</b>			
<b>Tax registration numbers (as applicable):</b>			
<b>Dun &amp; Bradstreet Number (if available):</b>		<b>WorkSafeBC Account Number:</b>	
<b>City of Vancouver Business License Number (or, if available, Metro West Inter-municipal Business License Number):</b>		<b>Date, Jurisdiction and Form of Organization (as applicable):</b>	

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**1.0 TENDER PRICE AND SCHEDULE**

Having carefully read and examined the Tender Documents, and having agreed to the terms and conditions set out in Parts A and B of the ITT, the undersigned Tenderer (for purposes of this Tender, the "Tenderer") offers to complete the Work and to furnish all plant, tools, equipment, labour, products, material and supervision necessary therefor, and to enter into an agreement in the form of the Form of Agreement set forth as Part D of the ITT to execute the Work, for the Tender Price specified below.

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The Tender Price (including all costs, taxes and fees)(as per Schedule A), is  
\_\_\_\_\_ dollars  
and \_\_\_\_\_ cents (\$\_\_\_\_\_)

The Tender Price ***includes all PST and GST.***

The Tenderer's offer to complete all of the Work is an offer made according to the following schedule:

- (a) Work will begin by June 14, 2021, subject to the City issuing a Notice to Proceed.
- (b) Substantial performance of the Work will occur by September 15, 2021.
- (c) Total performance of the Work will occur by September 30, 2021.

**2.0 ELECTRONIC PAYMENTS ACKNOWLEDGEMENT**

If awarded a contract, the Tenderer agrees that all payments to be made by the City will be by electronic funds transfer, and the Tenderer will provide the City with the necessary banking information to facilitate this process.

**3.0 IRREVOCABILITY; NOTICE OF AWARD**

The Tenderer agrees that each offer made by the Tenderer herein will be irrevocable and open for acceptance by the City for a period of ninety (90) calendar days commencing on the Closing Time, even if an offer of another Tenderer is accepted by the City. If within this period the City delivers a written notice by which the City accepts an offer of the Tenderer (a "**Notice of Award**"), the Tenderer will, within ten (10) Working Days (as defined in CCDC 2) of the receipt of the Notice of Award, deliver to the City:

- (a) a performance bond and a labour and material payment bond, each in the amount of fifty percent (50%) of the Tender Price [or the aggregate tendered price for the subset[(s)] of the Work in respect of which the Notice of Award is given, as referred to in Section 1.0 above, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the City;

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- (b) a detailed construction schedule consistent with the preliminary construction schedule included in this Tender, which indicates the timing of the major activities of the relevant Work and provides sufficient detail of the critical events and their inter-relationship to demonstrate such Work will be performed by the relevant completion date stated in this Tender;
- (c) a detailed traffic management plan addressing vehicular and pedestrian movement, safety and access with specific details of the methods, signage and materials used to maintain Site operations and access to staff and public users of the Site;
- (d) a detailed Site-specific safety and health plan addressing as a high-level overview the health and safety issues including, but not limited to hazards, mitigation measures, site orientations, safety meetings, first aid attendant requirements, and training requirements and record keeping;
- (e) a WorkSafeBC number and a “clearance letter” confirming that the Tenderer is in WorkSafeBC compliance;
- (f) a valid City of Vancouver business licence;
- (g) a completed Contractor's Pre-Contract Hazard Assessment Form (in the form of Schedule 9 to the Form of Agreement);
- (h) banking details to support payments by Electronic Funds Transfer (EFT); and
- (i) a completed and signed certificate of insurance (in the form attached as a schedule to this Form of Tender) indicating that all of the insurance coverage required by the Contract is in place.

#### **4.0 NOTICE TO PROCEED**

The Tenderer agrees that upon the City's receipt and acceptance (in the City's discretion) of the required submissions listed above, the Tenderer will, within two (2) Working Days, execute and return to the City the Contract and the other Contract Documents requiring execution (in each case, as prepared by the City for execution) and, upon the City's receipt and acceptance thereof, the City may deliver to the Tenderer a “Notice to Proceed”, and the Tenderer will:

- (a) commence the relevant Work within two (2) Working Days of the receipt of the Notice to Proceed or such longer time as may be otherwise specified in the Notice to Proceed; and
- (b) issue, post, and copy the City on the “Notice of Project” as and when required under section 20.2 of the *Occupational Health & Safety Regulation* (BC Regulation 296/97).

#### **5.0 CONDITIONS**

- (a) The Tenderer agrees that if the Tenderer receives a Notice of Award or a Notice to Proceed and fails or refuses to comply with the requirements stated in the foregoing clause 3.0 or clause 4.0, as the case may be, then such failure or refusal will be deemed to be a repudiation of the Tender Contract and refusal to enter into the

**INVITATION TO TENDER NO. PS20201183**  
**CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT**  
**PART C - FORM OF TENDER**

---

relevant Contract and the City may, on written notice to the Tenderer, award the Contract to another party. It is further agreed that, as full compensation on account of damages suffered by the City because of such failure or refusal, the bid security shall be forfeited to the City in the amount equal to the lesser of:

- (i) the face value of the bid security; and
  - (ii) the amount by which the Tender Price is less than the amount for which the City contracts with another party to perform the Work.
- (b) The lowest or any submitted tender will not necessarily be accepted in relation to all or any of the Work. The City reserves the right to reject this Tender at any time without further explanation or to accept any Tender considered advantageous to the City.
- (c) The schedules attached to this Form of Tender form an integral part of the same.

**6.0 ADDENDA, AMENDMENTS AND QUESTIONS AND ANSWERS**

The Tenderer acknowledges receipt of the following addenda, amendments and questions and answers to the Tender Documents:

Addendum No.
Amendment No.
Questions and Answers No.

The Tenderer agrees that it thoroughly understands and accepts the terms and conditions contained therein.

**7.0 CITY PRE-CONTRACT HAZARD ASSESSMENT**

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The Tenderer acknowledges receipt of the completed City Pre-Contract Hazard Assessment (Schedule 8 of Part D - Form of Agreement), subject to GC 9.4.12, Schedule 1 of Part D - Form of Agreement.

**8.0 CERTIFICATION**

The Tenderer represents and warrants that this Tender complies in all respects with the Tender Documents.

**9.0 LABOUR**

The above stated price is based on the Work under the Contract being performed by union/non-union labour. (Delete "union" or "non-union" as applicable).

**10.0 CONTRACT TERMS IN THE ITT**

Without limitation, the Tenderer expressly agrees with the City to all of the terms and conditions set forth in Part A and Part B of the ITT and is bound thereby.

SIGNED on behalf of the Tenderer this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_ by \_\_\_\_\_ the \_\_\_\_\_ duly authorized signatory or signatories of the Tenderer:

Per: \_\_\_\_\_

Name and Title: \_\_\_\_\_

Per: \_\_\_\_\_

Name and Title: \_\_\_\_\_

If the Tenderer has a corporate seal, the corporate seal should be applied in the space below:

If the Tenderer is an individual, a proprietorship or a partnership, the above signature(s) should be witnessed:

\_\_\_\_\_  
Witness signature

\_\_\_\_\_  
Witness name

\_\_\_\_\_  
Witness address

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "A" (PART C - FORM OF TENDER)

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SCHEDULE "A"

SCHEDULE OF QUANTITIES AND PRICES

*EACH TENDER MUST COMPLETE THIS SCHEDULE A, AS AMENDED, IN FULL. EACH PAGE OF THIS SCHEDULE A MUST BE INITIALLED BY THE SIGNATORIES OF THE FORM OF TENDER. TENDERS MUST NOT BE SUBMITTED WITHOUT A COMPLETED, DULY EXECUTED SCHEDULE A.*



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SCHEDULE "A" (PART C - FORM OF TENDER)**

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The Tender Price to complete all of the Work is apportioned in accordance with the following table. The prices shown in each of the numbered rows of the table shall include (i) all labour, material and other costs, (ii) overhead and profit, (iii) PST, and (iv) all other taxes, duties, assessments, charges and fees, *except for GST*. GST shall be shown separately on the row provided therefor.

**NOTE: Prices must be PST-inclusive. Only GST is to be shown as a separate line item.**

The sum of the amounts shown in the table below **MUST** equal the Tender Price stipulated in the space provided in the Form of Tender which, for greater certainty, is the Tenderer's proposed Contract Price for a Contract to complete all of the Work.

**EVERY ROW OF THE BELOW TABLE MUST BE COMPLETED WITH A DOLLAR AMOUNT, EVEN IF THAT DOLLAR AMOUNT IS \$0.**

Item	Description	Total Price (including PST)
<b>1.0</b>	<b>General Conditions</b>	
1.1	Mobilization (including modifications for access)	\$
1.2	Demobilization	\$
1.3	Bonds and insurance	\$
1.4	Fencing, security and tree protection (incl. snow fencing)	\$
1.5	Traffic barriers, signage and flag controls	\$
<b>2.0</b>	<b>Demolition</b>	
2.1	Demolition and disposal of timber pedestrian bridge	\$
2.2	Demolition and disposal of storage shed, concrete pad (as required), and attached utilities	\$
2.3	Removal and disposal of timber and styrofoam float	\$
<b>3.0</b>	<b>Structures</b>	
3.1	Construction of two reinforced concrete approach slabs (including subgrade preparation and fill slopes)	\$

**INVITATION TO TENDER NO. PS20201183**  
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**SCHEDULE "A" (PART C - FORM OF TENDER)**

Item	Description	Total Price (including PST)
3.2	Supply, transport and installation of timber pedestrian bridge	\$
3.3	Construction of cast-in place foundations or supply, transport and install Lock Blocks at the abutments (including subgrade preparation and fill slopes)	\$
	Sub-Total (including all applicable PST)	\$
	GST (5%)	\$
	<b>Tender Price (including all costs, taxes and fees)</b>	\$

**List of Unit Prices for Any Additional Work**

These unit prices will be used for changing quantities from those indicated in the Tender Documents or Contract Documents upon written instruction from the City. The unit prices will be applied in accordance with PART 6 CHANGES IN THE WORK of the General Conditions of the Stipulated Price Contract (CCDC 2 - 2008), as modified by the Supplementary General Conditions (Schedule 1 to Part D - Form of Agreement). The prices should include (i) all labour, material and other costs, (ii) overhead and profit, (iii) PST, and (iv) all other taxes, duties, assessments, charges and fees, *except for GST*.

Item	Description	Unit	Unit Price (including PST)	
			Add	Delete
1.	Excavation and relocation of excavated materials	m3	\$	\$
2.	Supply and install new granular fill (incl. compaction)	m3	\$	\$
3.	Vegetation clearing and disposal	m2	\$	\$
4.	Construction of reinforced concrete slab	m3	\$	\$
5.	Supply, transport and install half length bench blocks (Lock Blocks)	Each	\$	\$
6.	Supply, transport and install full length bench blocks (Lock Blocks)	Each	\$	\$

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8.	Construction of reinforced concrete foundations	m3	\$	\$
9.	Supply, transport and installation of timber pedestrian bridge	lm	\$	\$
10.	Supply, transport and installation of metal pedestrian bridge	lm	\$	\$

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**SCHEDULE "A" (PART C - FORM OF TENDER)**

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**Alternate Prices**

These alternate prices will be used to change the scope of the Work upon written instruction from the City. The separate prices will be applied in accordance with PART 6 CHANGES IN THE WORK of the General Conditions of the Stipulated Price Contract (CCDC 2 - 2008), as modified by the Supplementary General Conditions (Schedule 1 to Part D - Form of Agreement). The prices should include (i) all labour, material and other costs, (ii) overhead and profit, (iii) PST, and (iv) all other taxes, duties, assessments, charges and fees, *except for GST*.

Description	Price Change to Tender Price	
	Value to Add to Tender Price (inc. PST)	Value to Deduct from Tender Price (incl. PST)
1. Add: Supply, transport and installation of metal pedestrian bridge  Delete: Supply, transport and installation of timber pedestrian bridge	\$	\$

**INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "B" (PART C - FORM OF TENDER)**

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**SCHEDULE "B"**

**PRELIMINARY CONSTRUCTION SCHEDULE**

The Work is expected to begin by **June 21, 2021** and substantial performance is targeted for **September 30, 2021**. Please clearly define time requirements for project milestones identified in the table below. If necessary, please add an attachment to this Schedule.

TABLE 1 - PROJECT MILESTONES	
Milestone	Date of Completion
Project Start Up Meeting	June 21, 2021
Mobilization	August 23, 2021
Substantial Completion	September 30, 2021
Total Completion	October 14, 2021

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20201183, FORM OF TENDER - SCHEDULE B", and is to be signed by the Tenderer.

**INVITATION TO TENDER NO. PS20201183  
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SCHEDULE "C" (PART C - FORM OF TENDER)**

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**SCHEDULE "C"**

**SUBCONTRACTORS AND SUPPLIERS**

**1.0 SUBCONTRACTORS**

The Tenderer intends to use the following subcontractors for the portions of the Work identified below. (All subcontractors who are proposed to perform any portion of the Work should be listed.)

Subcontractor	Address	Type of Work

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20201183, FORM OF TENDER - SCHEDULE C", and is to be signed by the Tenderer.

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SCHEDULE "C" (PART C - FORM OF TENDER)**

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**2.0 SUPPLIERS**

The Tenderer intends to use the following suppliers and manufacturers for [describe relevant portions of the Work].

Supplier	Manufacturer	Supplier Address	Item

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20201183, FORM OF TENDER - SCHEDULE C", and is to be signed by the Tenderer.

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "D" (PART C - FORM OF TENDER)

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**SCHEDULE "D"**

**TENDERER'S EXPERIENCE WITH RELATED WORK**

Tenderers should confirm that they and their proposed subcontractors have the required experience to perform the Work. Each Tenderer should submit information concerning a minimum of **three (3)** relevant projects completed in the last 3 years for itself and each of its proposed subcontractors specifically with their construction experience of timber or metal pedestrian bridges of comparable size and design in a park or similar setting (similar in scope and size to the Work or to any particular subset of the Work in respect of which separate offers are requested in Section 1.0 of the Form of Tender, if applicable), including the following information:

Reference #1

Description of Project:

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Location of Project:

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Contract Value:

\$

(Cdn. Dollars)

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Start and Completion Dates:

---

Completed on Schedule?

Yes

No

(Circle Correct Response)

---

Name of Contract City:

---

Name of Project Reference:

Current Telephone Number and E-mail of Project Reference:

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Names of Key Personnel and Subcontractors:

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Name of Tenderer

Initials of Signing Officer



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SCHEDULE "D" (PART C - FORM OF TENDER)

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Reference #2

Description of Project:

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Location of Project:

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Contract Value:

\$

(Cdn. Dollars)

---

Start and Completion Dates:

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Completed on Schedule?

Yes

No

(Circle Correct Response)

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Name of Contract City:

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Name of Project Reference:

Current Telephone Number and E-mail of Project Reference:

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Names of Key Personnel and Subcontractors:

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**INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "D" (PART C - FORM OF TENDER)**

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Reference #3

**Description of Project:**

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**Location of Project:**

---

**Contract Value:**

\$

(Cdn. Dollars)

---

**Start and Completion Dates:**

---

**Completed on Schedule?**

Yes

No

(Circle Correct Response)

---

**Name of Contract City:**

---

**Name of Project Reference:**

---

**Current Telephone Number and E-mail of Project Reference:**

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**Names of Key Personnel and Subcontractors:**

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Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20201183, FORM OF TENDER - SCHEDULE D", and is to be signed by the Tenderer.

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "E" (PART C - FORM OF TENDER)

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SCHEDULE "E"

FORCE ACCOUNT LABOUR & EQUIPMENT RATES

Tenderers should complete the following tables setting out the all-inclusive hourly rates for all applicable types of equipment as well as the all-inclusive hourly rates for all applicable categories of labour, which rates will then apply pursuant to any Contract.

TABLE 1 - SCHEDULE OF LABOUR RATES

Job Classification	Regular Rate	Overtime Rate
	\$	\$
	\$	\$
	\$	\$
	\$	\$
	\$	\$
	\$	\$

TABLE 2 - SCHEDULE OF EQUIPMENT RATES

No.	Equipment Description	Hourly Rate	No. of Hours	Overhead And Profit	Total Price
		\$		\$	\$
		\$		\$	\$
		\$		\$	\$
		\$		\$	\$
		\$		\$	\$

Labour and equipment rates must be inclusive of all taxes except for GST, and all assessments, benefits, small tools, overhead and profits.

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20201183, FORM OF TENDER - SCHEDULE E", and is to be signed by the Tenderer.

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "F" (PART C - FORM OF TENDER)

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SCHEDULE "F"

FORM OF CONSENT OF SURETY

PROJECT: \_\_\_\_\_

Should it be required, we the undersigned Surety Company do hereby undertake to become bound as a surety in an approved Contract Performance Bond and Labour and Material Payment Bond, each in the amount of fifty percent (50%) of the awarded Contract Price for the fulfillment of a Contract, which may be awarded to \_\_\_\_\_ at the Tender Price (or another offered price) set forth in the attached Tender, which Performance Bond and Labour and Material Payment Bond we understand are to conform to the applicable CCDC forms and be filed with the City within 10 Working Days of receipt of Notice of Award of a Contract, unless otherwise directed by the City.

We hereby further declare that the undersigned Surety Company is legally entitled to do business in the Province of British Columbia and that it has a net worth over and above its present liabilities and the amounts herein set forth.

The Common Seal of \_\_\_\_\_  
was hereto affixed in the presence of:

\_\_\_\_\_

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "G" (PART C - FORM OF TENDER)

---

**SCHEDULE "G"**

**SUSTAINABILITY**

1. Please list any products or services contemplated in the Tender that are toxic or hazardous to the environment or humans and complete the following table in relation thereto.

Item	Description of Toxin/Hazard	Substantiation for Use	Mitigation strategy to reduce the effect of the Toxin/Hazard

2. Please identify the Tenderer's standard practices for disposal of obsolete or expired products or equipment.

Item	Type of Product/Equipment	Disposal Method

3. Please identify the Tenderer's current or proposed solutions to address and reduce carbon emissions.

Item	Carbon Emission Risk	Solution to Reduce Carbon Emissions

**INVITATION TO TENDER NO. PS20201183**  
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**SCHEDULE "G" (PART C - FORM OF TENDER)**

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INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "H" (PART C - FORM OF TENDER)

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SCHEDULE "H"

CERTIFICATES OF INSURANCE

(TO BE COMPLETED IF AWARDED THE CONTRACT)

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "I" (PART C - FORM OF TENDER)

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SCHEDULE "I"

CERTIFICATE OF EXISTING INSURANCE

(TO BE COMPLETED AND SUBMITTED WITH TENDER)





**CERTIFICATE OF EXISTING INSURANCE  
TO BE COMPLETED AND APPENDED TO THE PROPOSAL/TENDER**

Section 2 through 8 – to be completed and executed by the Insurer or its Authorized Representative

1. **THIS CERTIFICATE IS ISSUED TO:** City of Vancouver, 453 W 12<sup>th</sup> Avenue, Vancouver, BC, V5Y 1V4  
and certifies that the insurance policy (policies) as listed herein has/have been issued to the Named Insured and is/are in full force and effect.

2. **NAMED INSURED** (must be the same name as the proponent/bidder and is either an individual or a legally incorporated company)

**BUSINESS TRADE NAME or DOING BUSINESS AS**

**BUSINESS ADDRESS**

**DESCRIPTION OF OPERATION**

3. **PROPERTY INSURANCE (All Risks Coverage including Earthquake and Flood)**

INSURER _____	<b>Insured Values (Replacement Cost) -</b>
TYPE OF COVERAGE _____	Building and Tenants' Improvements \$ _____
POLICY NUMBER _____	Contents and Equipment \$ _____
POLICY PERIOD From _____ to _____	Deductible Per Loss \$ _____

4. **COMMERCIAL GENERAL LIABILITY INSURANCE (Occurrence Form)**

Including the following extensions:	INSURER _____
✓ Personal Injury	POLICY NUMBER _____
✓ Property Damage including Loss of Use	POLICY PERIOD From _____ to _____
✓ Products and Completed Operations	<b>Limits of Liability (Bodily Injury and Property Damage Inclusive) -</b>
✓ Cross Liability or Severability of Interest	Per Occurrence \$ _____
✓ Employees as Additional Insureds	Aggregate \$ _____
✓ Blanket Contractual Liability	All Risk Tenants' Legal Liability \$ _____
✓ Non-Owned Auto Liability	Deductible Per Occurrence \$ _____

5. **AUTOMOBILE LIABILITY INSURANCE** for operation of owned and/or leased vehicles

INSURER _____	<b>Limits of Liability -</b>
POLICY NUMBER _____	Combined Single Limit \$ _____
POLICY PERIOD From _____ to _____	<i>If vehicles are insured by ICBC, complete and provide Form APV-47.</i>

6. ☐ **UMBRELLA OR** ☐ **EXCESS LIABILITY INSURANCE** **Limits of Liability (Bodily Injury and Property Damage Inclusive) -**

INSURER _____	Per Occurrence \$ _____
POLICY NUMBER _____	Aggregate \$ _____
POLICY PERIOD From _____ to _____	Self-Insured Retention \$ _____

7. **PROFESSIONAL LIABILITY INSURANCE**

INSURER _____	<b>Limits of Liability</b>
POLICY NUMBER _____	Per Occurrence/Claim \$ _____
POLICY PERIOD From _____ to _____	Aggregate \$ _____
	Deductible Per Occurrence/Claim \$ _____

*If the policy is in a "CLAIMS MADE" form, please specify the applicable Retroactive Date: \_\_\_\_\_*

8. **OTHER INSURANCE**

TYPE OF INSURANCE _____	<b>Limits of Liability</b>
INSURER _____	Per Occurrence \$ _____
POLICY NUMBER _____	Aggregate \$ _____
POLICY PERIOD From _____ to _____	Deductible Per Loss \$ _____
TYPE OF INSURANCE _____	<b>Limits of Liability</b>
INSURER _____	Per Occurrence \$ _____
POLICY NUMBER _____	Aggregate \$ _____
POLICY PERIOD From _____ to _____	Deductible Per Loss \$ _____

**SIGNED BY THE INSURER OR ITS AUTHORIZED REPRESENTATIVE**

\_\_\_\_\_  
PRINT NAME OF INSURER OR ITS AUTHORIZED REPRESENTATIVE, ADDRESS AND PHONE NUMBER

Dated \_\_\_\_\_

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "J" (PART C - FORM OF TENDER)

---

SCHEDULE "J"

UNDERTAKING OF INSURANCE

To: City of Vancouver

Re: ITT PS20201183 - CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT

Dear Sirs:

We, the undersigned have completed, signed and attached the "Certificate of Existing Insurance" enclosed with this undertaking and now also do hereby undertake and agree that if \_\_\_\_\_ (the "Tenderer") is awarded a Contract, we will insure the Contractor in accordance with the requirements of the Contract, the form of which is included in the Tender Documents and will form part of the Contract Documents.

Dated at \_\_\_\_\_, British Columbia, this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

By: \_\_\_\_\_

Title: \_\_\_\_\_

Full Corporate Name of Insurer:

\_\_\_\_\_

*The "Certificate of Existing Insurance" provided with the ITT should be completed and signed and enclosed with this schedule, both of which are to be signed by the Insurance Company or an authorized broker on behalf of the Insurance Company. A SEPARATE FORM (AND CERTIFICATE OF EXISTING INSURANCE) SHOULD BE SIGNED FOR EACH POLICY IF THE TENDERER HAS MORE THAN ONE INSURER OR BROKER FOR ITS POLICIES.*

**INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE "K" (PART C - FORM OF TENDER)**

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Schedule "K"  
**DECLARATION OF SUPPLIER CODE OF CONDUCT COMPLIANCE**

**Purpose:** ~~All proposed suppliers are to complete and submit~~ this form to certify compliance with the supplier performance standards set out in the Supplier Code of Conduct.

The City of Vancouver expects each supplier of goods and services to the City to comply with the supplier performance standards set out in the City's Supplier Code of Conduct (SCC) <[http://vancouver.ca/policy\\_pdf/AF01401P1.pdf](http://vancouver.ca/policy_pdf/AF01401P1.pdf)>. The SCC defines minimum labour and environmental standards for City suppliers and their subcontractors.

Suppliers are expected to comply with the aforementioned standards upon submitting a tender, proposal, application, expression of interest or quotation to the City, or have a plan in place to comply within a specific period of time. The City reserves the right to determine an appropriate timeframe in which suppliers must come into compliance with these standards. To give effect to these requirements, an authorised signatory of each proposed vendor must complete the following declaration and include this declaration with its submission:

As an authorised signatory of \_\_\_\_\_(vendor name), I declare that I have reviewed the SCC and to the best of my knowledge, \_\_\_\_\_(vendor name) and its proposed subcontractors have not been and are not currently in violation of the SCC or convicted of an offence under national and other applicable laws referred to in the SCC, other than as noted in the table below (*include all violations/convictions that have occurred in the past three years as well as plans for corrective action*).

Section of SCC / title of law	Date of violation / conviction	Description of violation / conviction	Regulatory / adjudication body and document file number	Corrective action plan

I understand that a false declaration and/or lack of a corrective action plan may result in no further consideration being given to the submission of \_\_\_\_\_(vendor name).

Signature: \_\_\_\_\_

Name and Title: \_\_\_\_\_

**INVITATION TO TENDER NO. PS20201183  
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SCHEDULE "L" (PART C - FORM OF TENDER)**

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**SCHEDULE "L"**

**CONFLICT OF INTEREST DECLARATION**

**NO CONFLICT OF INTEREST / NO COLLUSION / NO LOBBYING**

**Declaration as to no Conflict of Interest in ITT**

- (a) The Tenderer confirms and warrants that there is no officer, director, shareholder, partner, employee or contractor of the Tenderer or of any of its proposed subcontractors, or any other person related to the Tenderer's or any proposed subcontractor's organization (a "person having an interest") or any spouse, business associate, friend or relative of a person having an interest who is:
- a. an official or employee of the City; or
  - b. related to or has any business or family relationship with an elected official or employee of the City,
- in each case, such that there could be any conflict of interest or any appearance of conflict of interest in the evaluation or consideration of the Tender by the City, and, in each case, except as set out, in all material detail in the section titled "Disclosure" in this Schedule "L".
- (b) The Tenderer confirms and warrants that there is no person having an interest (as defined above) who is a former official, former employee or former contractor of the City and who has non-public information relevant to the ITT obtained during his or her employment or engagement by the City, except as set out, in all material detail, in the section titled "Disclosure" in this Schedule "L".

**Declaration as to No Conflict of Interest Respecting Proposed Supply**

The Tenderer confirms and warrants that neither the Tenderer nor any of its proposed subcontractors is currently engaged in supplying (or is proposing to supply) goods or services to a third party such that entering into an agreement with the City in relation to the subject matter of the ITT would create a conflict of interest or the appearance of a conflict of interest between the Tenderer's duties to the City and the Tenderer's or its subcontractors' duties to such third party, except as set out, in all material detail, in the section titled "Disclosure" in this Schedule "L".

**Declaration as to No Collusion**

The Tenderer confirms and warrants that:

- (a) the Tenderer is not competing within the ITT with any entity with which it is legally or financially associated or affiliated; and
- (b) the Tenderer is not cooperating in any manner in relation to the ITT with any other tenderer responding to the ITT,

**INVITATION TO TENDER NO. PS20201183  
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SCHEDULE "L" (PART C - FORM OF TENDER)**

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in each case, except as set out, in all material detail, in the section titled "Disclosure" in this Schedule "L".

**Declaration as to Lobbying**

The Tenderer confirms and warrants that:

- (a) neither it nor any officer, director, shareholder, partner, employee or agent of the Tenderer or any of its proposed subcontractors is registered as a lobbyist under any lobbyist legislation in any jurisdiction in Canada or in the United States of America; and
- (b) neither it nor any officer, director, shareholder, partner, employee or agent of the Tenderer or any of its proposed subcontractors has engaged in any form of political or other lobbying whatsoever with respect to the Tender or sought, other than through the submission of the Tender, to influence the outcome of the ITT,

in each case, except as set out, in all material detail, in the section titled "Disclosure" in this Schedule "L".

**Disclosure [Add disclosure here.]**

*(NOTE: The City will evaluate each matter disclosed to determine whether and to what extent the Tenderer can be given consideration in the ITT in light of the particular matter.)*

THE TENDERER HAS EXECUTED AND DELIVERED THIS DECLARATION AS AN INTEGRAL PART OF ITS TENDER IN THE MANNER AND SPACE SET OUT BELOW:

\_\_\_\_\_  
Signature of Authorized Signatory for the Tenderer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name and Title

\_\_\_\_\_  
Signature of Authorized Signatory for the Tenderer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name and Title

\_\_\_\_\_  
Name of Tenderer

\_\_\_\_\_  
Initials of Signing Officer

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CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
TITLE PAGE (PART D --FORM OF AGREEMENT)

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INVITATION TO TENDER ("ITT") NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT

CONSTRUCTION AGREEMENT

between

[CONTRACTOR NAME]

and

CITY OF VANCOUVER AS REPRESENTED BY ITS VANCOUVER BOARD OF PARKS AND RECREATION

[DATE]

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**CONSTRUCTION AGREEMENT**

THIS CONSTRUCTION AGREEMENT (the “**Agreement**”) dated for reference **[insert date]** is entered into

BETWEEN:

**CITY OF VANCOUVER AS REPRESENTED BY ITS VANCOUVER BOARD OF PARKS AND RECREATION**

453 West 12<sup>th</sup> Avenue  
Vancouver, British Columbia V5Y 1V4

(the “**City**”)

OF THE FIRST PART

AND:

**[INSERT NAME OF CONTRACTOR]**  
**[insert address]**

(the “**Contractor**”)

OF THE SECOND PART

**BACKGROUND**

- A. By way of an Invitation to Tender for Stanley Park Miniature Train Bridge Replacement, the City requested tenders from general contractors to perform the Work.
- B. In response to the Invitation to Tender, the Contractor submitted a tender dated **[insert date]**.
- C. After evaluating the tenders and obtaining necessary approvals, the City issued a Notice of Award to the Contractor, thereby creating this Contract with the Contractor for the Work based on the Contractor’s tender.

**THE CITY AND THE CONTRACTOR NOW AGREE AS FOLLOWS:**

**ARTICLE A-1 THE WORK**

The Contractor shall:

- 1.1 perform the Work required by the Contract Documents for Stanley Park Miniature Train Bridge Replacement at **690 Pipeline Road, Stanley Park**, Vancouver, British Columbia (which is the Place of the Work), in respect of which Work **ISL Engineering and Land Services** is acting as, and is, the Consultant;
- 1.2 do and fulfill everything indicated by the Contract Documents; and



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- 1.3 commence the Work by the **21<sup>st</sup> day of June, 2021** and, subject to adjustment to the Contract Time as provided for in the Contract Documents, attain Substantial Completion of the Project, as certified by the Consultant, by the **30<sup>th</sup> day of September, 2021**, in accordance with the Project Schedule, included as a schedule to this Agreement.

**ARTICLE A-2 AGREEMENTS AND AMENDMENTS**

- 2.1 The Contract supersedes all prior negotiations, representations, or agreements, either written or oral, relating in any manner to the Work, including the tender documents that are not expressly listed in Article A-3 of this Agreement.
- 2.2 The Contract may be amended only as provided in the Contract Documents.

**ARTICLE A-3 CONTRACT DOCUMENTS**

- 3.1 The following are the Contract Documents referred to in Article A-1 of this Agreement, whether or not attached to this Agreement:
- (a) this Agreement;
  - (b) the “Definitions” and “General Conditions of Stipulated Price Contract” contained within standard construction document CCDC 2 - Stipulated Price Contract, 2008 edition, not attached but incorporated by reference;
  - (c) the following schedules to this Agreement:
    - (i) Schedule 1 - Supplementary General Conditions (the “Supplementary General Conditions”)
    - (ii) Schedule 2 - List of Specifications, Drawings & Special Events (the listed Specifications and Drawings are incorporated by reference);
    - (iii) Schedule 3 - Schedule of Prices (the “Schedule of Prices”);
    - (iv) Schedule 4 - Subcontractors and Suppliers;
    - (v) Schedule 5 - Project Schedule (the “Project Schedule”);
    - (vi) Schedule 6 - Performance and Labour and Material Payments Bonds;
    - (vii) Schedule 7 - Insurance Certificate;
    - (viii) Schedule 8 - City Pre-Contract Hazard Assessment Form
    - (ix) Schedule 9 - Contractor Pre-Contract Hazard Assessment Form
    - (x) Schedule 10 - Force Account Labour and Construction Equipment Rates (the “Schedule of Force Account Labour and Construction Equipment Rates”);
  - (d) the Form of Tender submitted by the Contractor, dated [insert], titled [insert] (incorporated by reference) (the “**Form of Tender**”);

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- (e) the traffic management plan provided by the Contractor to the City (incorporated by reference);
  - (f) the Place of the Work-specific safety and health plan provided by the Contractor to the City (incorporated by reference)
  - (g) insert any other relevant documents to be incorporated by reference.
- 3.2 Capitalized terms used in the Contract Documents will have the meanings ascribed to such terms in the Contract Documents.

**ARTICLE A-4 CONTRACT PRICE**

- 4.1 The Contract Price to do, perform and supply all the Work in accordance with, and perform all the obligations specified by, the Contract Documents is **[insert price without GST]**, plus GST of **[insert amount]**, for a total Contract Price of **[insert total amount, including GST]**.
- 4.2 The Contract Price is inclusive of GST, PST and all other taxes, and all duties assessments, charges and fees, permit and inspection costs, and WorkSafeBC assessments relating to the Work. For the avoidance of doubt, the Contract Price includes, without limitation, all PST on materials, other Products and Construction Equipment.
- 4.3 The PST, GST and other taxes, duties, assessments, charges and fees included in the Contract Price will be remitted by the Contractor to the applicable authorities as and when the City pays the Contract Price to the Contractor or as earlier required by applicable law.
- 4.4 All amounts are in Canadian dollars.
- 4.5 The Contract Price shall be subject to adjustments as provided for in the Contract Documents.
- 4.6 For purposes of the Contract Documents, “GST” means the tax payable and imposed pursuant to Part IX of the *Excise Tax Act* (Canada), as amended or replaced from time to time, and “PST” means the provincial sales tax payable and imposed pursuant to the *Provincial Sales Tax Act* (British Columbia), as amended or replaced from time to time.

**ARTICLE A-5 PAYMENT**

- 5.1 Subject to the terms and conditions of the Contract Documents, the City will pay the Contract Price to the Contractor in consideration of the performance of the Work.
- 5.2 The payment for any Work under this Contract made to the Contractor by the City will not be construed as an acceptance of any Work being in accordance with the Contract Documents.
- 5.3 Should either party fail to make payments as they become due under the terms of the Contract Documents, interest at the Bank Rate plus two percent (2%) per annum on such unpaid amounts will also become due and payable until payment. Such interest will be compounded on a monthly basis. The “Bank Rate” for these purposes is the rate established by the Bank of Canada from time to time as the minimum rate at which the Bank of Canada makes short term advances to Canadian chartered banks.

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**ARTICLE A-6 RECEIPT OF AND ADDRESSES FOR NOTICES**

6.1 Except as otherwise expressly provided in the Contract Documents, communications between the parties hereto or between them and the Consultant will be in writing and may be delivered by hand or sent by electronic transmission or by courier or registered mail:

(i) to the City at:

**City of Vancouver as represented by its Vancouver Board of Parks and Recreation**  
453 West 12<sup>th</sup> Avenue  
Vancouver, British Columbia V5Y 1V4

Attention:     **[insert name]**  
                      **[insert title]**

Email:           **[insert];**

(ii) to the Contractor at:

**[insert name and address]; or**

(iii) to the Consultant at:

**[insert name and address]**

or to such other person or address of which one party may advise the others in writing from time to time or at any time, and each such communication will be deemed to be received by the recipient:

- (A) on the date of delivery, if delivered by hand: to the individual, if the recipient is an individual; to a partner, if the recipient is a partnership; or to an officer of the corporation, if the recipient is a corporation; or
- (B) on the day following transmission, if sent by electronic transmission and confirmed by documentation of successful transmission or receipt of an email reply effectively acknowledging delivery; or
- (C) one Working Day after the date of confirmed delivery, if sent by courier or registered mail.

**ARTICLE A-7 LAW OF CONTRACT**

The laws of British Columbia will apply to and govern the Contract Documents and the courts of British Columbia will have jurisdiction over all disputes not resolved by mediation or arbitration.

**ARTICLE A-8 SUCCESSORS AND ASSIGNS**

The Contract shall enure to the benefit of and be binding upon the City and Contractor and their respective successors and permitted assigns.

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**ARTICLE A-9 TIME OF THE ESSENCE**

All time limits stated in this Contract are of the essence of the Contract.

IN WITNESS WHEREOF the parties hereto have executed this Agreement on the date first herein above written.

**CITY OF VANCOUVER AS REPRESENTED BY ITS VANCOUVER BOARD OF PARKS AND RECREATION**  
by its authorized signatories:

**Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**[INSERT NAME OF CONTRACTOR]**

by its authorized signatories:

**Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

*Proof of authority in the form of a certified copy of a resolution naming the person or persons in question as authorized to sign the Agreement for and on behalf of the corporation or partnership, who are parties to this Agreement, shall be attached.*

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**SCHEDULE 1**  
**SUPPLEMENTARY GENERAL CONDITIONS**

(SUPPLEMENTARY GENERAL CONDITIONS ARE MODIFICATIONS TO CCDC 2 -2008)

**INTRODUCTION**

- 1.1.1 These Supplementary General Conditions amend the “Definitions” and the “General Conditions of the Stipulated Price Contract” contained within standard construction document CCDC 2 - Stipulated Price Contract, 2008 edition (“CCDC 2”), available for download at <http://www.ccdc.org/downloads/index.html>. Any reference in the Contract Documents to “General Conditions” or “GC” means the General Conditions contained in CCDC 2 as amended by these Supplementary General Conditions. Whenever there is a conflict between these Supplementary General Conditions and the other Contract Documents or wherever the Contract Documents are silent and these Supplementary General Conditions speak to a particular issue or matter, the provisions of these Supplementary General Conditions shall take precedence.
- 1.1.2 Unless the context dictates otherwise and to the extent not otherwise defined in the Contract Documents, capitalized terms used in these Supplementary General Conditions have the meanings given thereto in CCDC 2.
- 1.1.3 To the extent that the *Lien Act* (as defined below) expressly forbids parties from contracting out of all or some of the provisions of the *Lien Act* then, to the extent that those provisions of the *Lien Act* apply, such provisions of the *Lien Act* shall take precedence over any provision of the Contract Documents that is determined to contradict or contravene such provisions of the *Lien Act*, but only to the extent of such contradiction or contravention.

**AMENDMENTS TO THE DEFINITIONS**

The following amendments are made to the “Definitions” in CCDC 2:

Add the following at the end of paragraph 5 (the definition of “Contract”):

The Contract supersedes all prior negotiations, representations or agreements, either written or oral, except to the extent included in the Contract Documents or expressly incorporated by reference into the Contract by an actual reference to the same in Article A-3 of the Agreement - CONTRACT DOCUMENTS.

Delete paragraph 6 and replace with the following:

**6. Contract Documents**

The Contract Documents consist of those documents listed in Article A-3 of the Agreement - CONTRACT DOCUMENTS, those documents expressly incorporated by reference into the Contract by an actual reference to the same in Article A-3 of the Agreement - CONTRACT DOCUMENTS, and amendments agreed upon in writing between the parties together with all other documents, schedules and additions mutually agreed to or settled by the parties from time to time in respect of the Contract.

Delete the definition of Owner at paragraph 12 and replace with the following:

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**“Owner” or “City”**

“Owner” and “City” each mean the entity identified as the “City” in the Agreement (represented as stated therein or otherwise) or the City’s authorized agent or representative, as designated to the Contractor in writing. However, “Owner” and “City” each expressly do not include the Consultant and expressly do not include the City of Vancouver acting in its capacity as a municipal regulatory authority.

Delete the definition of Substantial Performance of the Work at paragraph 20 and replace with the following:

**20. Substantial Performance of the Work**

Substantial Performance of the Work shall have the same meaning as “substantial performance” of the Agreement, as determined under Section 1(2) of the *Lien Act*.

Delete the definition of Work at paragraph 25 and replace it with the following:

**25. Work**

Work means the total construction and related services required by the Contract Documents or properly inferable therefrom.

Add the following definitions:

**27. Applicable Laws**

Applicable Laws means all applicable federal, provincial and municipal laws, bylaws, codes, rules, regulations, policies and requirements applicable to the Work and the Project.

**28. Certificate of Completion**

Certificate of Completion means the certificate under section 7 of the *Lien Act* stating that work under a contract or subcontract has been completed and includes an order made under section 7(5) of the *Lien Act*.

**29. Cost Plus Work**

Cost Plus Work means Work that is described or designated as cost-plus work in the Contract Documents.

**30. Environmental Law**

Environmental Law means any applicable law relating to the protection of the environment or occupational health and safety including those pertaining to (a) reporting, licensing, permitting, investigating, remediating and cleaning up in connection with any presence or release, or the threat of the same, of Hazardous Substances, and (b) the generation, manufacture, processing, distribution, use, re-use, treatment, storage, disposal, transport, labelling, handling and the like of Hazardous Substances.

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**31. Final Certificate for Payment**

Final Certificate for Payment means the certificate issued on Total Performance of the Work.

**32. Hazardous Substance**

Hazardous Substance means any contaminant, waste, hazardous substance, hazardous waste, or dangerous goods in such quantities and concentrations as contravene applicable limitations under Environmental Law and that may impair the environment, injure or damage property or plant or animal life or harm or impair the health of any individual.

**33. Holdback**

Holdback means a holdback required by the *Lien Act*.

**34. Lien or Liens**

Lien or Liens means a lien under the *Lien Act*.

**35. Lien Act**

*Lien Act* means the *Builders Lien Act* (British Columbia) and any additional successor or replacement legislation which may be passed that is applicable to the Place of the Work.

**36. Lump Sum Work**

Lump Sum Work means Work that is described or designated as lump sum work in the Contract Documents or Work that is not so described or designated but is also not Unit Price Work or Cost Plus Work.

**37. Site Labour Disturbance**

Site Labour Disturbance means any strike, lock-out or labour disturbance, including those resulting from any jurisdictional or non-affiliation issues, involving employees, whether or not members of a trade union, of the Contractor, any Subcontractor, any Supplier, or any of their respective subcontractors of any tier, which delays or in any way adversely affects the performance and completion of Work at the Place of the Work.

**38. Total Performance of the Work**

Total Performance of the Work means the entire Work has been satisfactorily performed and is so certified by the Consultant.

**39. Trade Union Council**

Trade Union Council means a council or association of trade unions of which employees of the Contractor or a Subcontractor are members

**40. Unit Price Work**

Unit Price Work means Work that is described or designated as unit price work in the Contract Documents.

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**41. WorkSafeBC Rules**

WorkSafeBC Rules means the *Workers Compensation Act* (British Columbia) and the regulations thereunder, including without limitation the *WorkSafeBC Occupational Health and Safety Regulation* (British Columbia), and all amendments made to such act and regulations and in force from time to time, and any statute or regulation that may be passed which supplements or supersedes such regulations.

**ALTERATION OF GENERAL CONDITIONS AND ADDITIONAL CONDITIONS**

The following amendments are made to the “General Conditions of the Stipulated Price Contract” in CCDC 2:

**GC1.1 CONTRACT DOCUMENTS**

GC1.1.7.1 is deleted in its entirety and replaced as follows:

- .1 The order of priority of documents, from highest to lowest, shall be:
- the Agreement between the City and the Contractor (excluding its schedules);
  - these Supplementary General Conditions;
  - the Definitions from CCDC 2;
  - the General Conditions from CCDC 2;
  - the Specifications;
  - the Drawings;
  - the other schedules to the Agreement between the City and the Contractor;
  - the other Contract Documents (except for the below document); and
  - the Form of Tender.

**GC1.5 ADVERTISING**

GC1.5 is added as follows:

**GC1.5 ADVERTISING**

- 1.5.1 The Contractor will obtain the City’s prior written approval for any public advertising, press release or other general publicity matter, in which the name, logo, official marks or trademarks of the City or any related person are mentioned or used or in which words are used from which any connection with the City may be inferred. The Contractor will not allow or permit any public ceremony in connection with the Work without the permission of the City provided in writing. The Contractor will not erect or permit the erection of any sign or advertising without the prior written approval of the City.



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**GC2.2 ROLE OF THE CONSULTANT**

GC2.2.5 is deleted in its entirety and replaced with the following:

- 2.2.5 The Consultant will be the “payment certifier” pursuant to the *Lien Act*. Based on the Consultant’s observations and evaluation of the Contractor’s applications for payment for Work and the Consultant’s review of the status of the Work, including as against the Project Schedule, the Consultant will issue certificates of payment and will issue each Certificate of Completion and the Final Certificate for Payment.

GC2.2.19 is added as follows:

- 2.2.19 Notwithstanding GC2.2.13, the Contractor shall be responsible for requesting any required instructions or clarifications from the Consultant which are needed for the performance of the Work and shall request such instructions or clarifications in time to avoid any delay of the Work.

GC2.2.20 is added as follows:

- 2.2.20 Nothing in GC2.2 shall derogate from or affect the terms and provisions of any contractual or other legal relations between the City and the Consultant, and such contractual and other legal relations shall in all cases take precedence over GC2.2 in the event of a conflict.

**GC2.3 REVIEW AND INSPECTION OF THE WORK**

GC2.3.1 is amended by deleting the first sentence of the paragraph and replacing it with the following:

The City and the Consultant and their authorized representatives shall have access to the Work at all times.

GC2.3.2 is amended by deleting the first sentence of the paragraph and replacing it with the following:

If work is designated for review, tests, inspections or approvals in the Contract Documents, or by the Consultant’s instructions, or by the laws or ordinances of the Place of the Work, the Contractor shall give the Consultant reasonable notification of when the work will be ready for review and inspection.

GC2.3.4 is deleted in its entirety and replaced with the following:

- 2.3.4 If the Contractor covers, or permits to be covered, work that has been designated for review, tests, inspections or approvals before such review, tests, inspections or approvals are made, given or completed, the Contractor shall, if so directed, uncover such work, have the reviews, tests, inspections or approvals satisfactorily completed, and make good covering work at the Contractor’s expense.

GC2.3.8 is added as follows:

- 2.3.8 The Consultant may:

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- .1 review and monitor the Contractor's performance of any aspects of the Work for conformance with the requirements of the Contract, including review and monitor the following:
  - (a) the Contractor's submittals; and
  - (b) any and all construction activities; and
- .2 perform or arrange for the performance of any tests, checks, and inspections of the Work as the City may reasonably request whether or not specifically required by the Contract Documents.

Should the Consultant be required to make more than one review of rejected work or should the Consultant perform additional reviews due to failure of the Work to comply with the status of completion asserted by the Contractor in an application, the Contractor is required to compensate the City for such additional Consultant services including expenses incurred. Adjustment for such compensation should be made as outlined under PART 6 - CHANGES IN THE WORK.

GC2.3.9 is added as follows:

- 2.3.9 Review, monitoring and/or approval by the Consultant or City of the Contractor's performance of the Contract shall not relieve the Contractor of its sole responsibility and liability for the proper performance of the Contract strictly in accordance with its terms.

GC2.3.10 is added as follows:

- 2.3.10 Acceptance of the Work by the City does not free the Contractor from its obligation to correct deficiencies as provided in GC2.4 - DEFECTIVE WORK, which are not identified at the time of drawing up the deficiency list or are hidden deficiencies.

#### **GC2.4 DEFECTIVE WORK**

GC2.4.1 is amended by adding the following to the end of the paragraph:

In the event that work or materials are found to be condemned, then if the Contractor does not remove such condemned materials or work within the time fixed by written notice, the City may remove them and may store such materials at the expense of the Contractor. If the Contractor does not pay the expense of such removal within five (5) calendar days thereafter, the City may, upon ten (10) days written notice sell such materials with the proceeds thereof, if any, after deducting all the costs and expenses that should have been borne by the Contractor, being returned to the Contractor.

GC2.4.3 is deleted in its entirety and replaced with the following:

- 2.4.3. If in the opinion of the Consultant it is not expedient to correct defective work or work not performed as provided in the Contract Documents, the City may deduct from the amount otherwise due to the Contractor the difference in value between the work as performed and that called for by the Contract Documents or, at the option of the City, the cost or value of such work as would have been necessary to correct such non-

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compliance with the Contract Documents. If the City and the Contractor do not agree on the difference in value, they shall refer the matter to the Consultant for a determination.

**GC3.1 CONTROL OF THE WORK**

GC3.1.3 is added as follows:

- 3.1.3 The Contractor shall, and shall ensure that each Subcontractor shall, employ competent and skilled workmen and apprentices and employ proper equipment in good condition. The Contractor shall have complete control over its employees and Subcontractors and shall enforce discipline and order among its employees and assure discipline and order by its Subcontractors including, in all cases, without limiting the foregoing, compliance with and enforcement of WorkSafeBC Rules.

GC3.1.4 is added as follows:

- 3.1.4 The Contractor shall be familiar with, and its performance of this Contract shall be governed by and comply with, all Applicable Laws and applicable permits which exist at present or which may be respectively enacted or obtained after the date hereof by or from bodies or tribunals having jurisdiction or authority over the Work.

**GC3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTORS**

GC3.2.2 is amended by deleting the first sentence and replacing it with the following:

When separate contracts are awarded for other parts of the Project, or when work is performed by the City's own forces, the Contractor shall:

GC3.2.2.3 is deleted in its entirety.

GC3.2.2.4 is deleted in its entirety.

GC3.2.3.3 is amended by adding the following to the end of the paragraph:

Failure by the Contractor to so report shall invalidate any claims against the City by reason of the deficiencies of the other contractors' or the City's own forces' work, except those of which the Contractor was not reasonably aware.

GC3.2.7 is added as follows:

- 3.2.7 The Contractor acknowledges that the Place of the Work generally and portions of the Project will continue to be used by the City and others as described in the Contract Documents. The Contractor will work simultaneously and harmoniously with others using the Place of the Work and use all efforts not to interfere with or delay others.

**GC3.5 CONSTRUCTION SCHEDULE**

GC3.5.1.1 is deleted in its entirety and replaced with the following:

- .1 if the City states in writing that the Contractor has not yet done so to the City's satisfaction, prepare and submit to the City and the Consultant a construction schedule

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that indicates the timing of the major activities of the Work and provides sufficient detail of the critical events and their inter-relationship to demonstrate the Work will be performed in conformity with the Contract Time, which such construction schedule will, if agreed to by the City, thereafter be deemed to supersede the schedule included in Schedule 5 of the Agreement as the “Project Schedule”;

GC3.5.1.3 is amended by adding the following to the end:

... indicating the results expected from the resulting change in schedule.

GC3.5.2 is added as follows:

3.5.2 The Contractor will regularly monitor the progress of the Work and advise the City and the Consultant of any revisions to, or any slippage in, the construction schedule.

GC3.5.3 is added as follows:

3.5.3 The Contractor will submit to the Consultant and the City monthly updates and provide comments on adherence to the construction schedule and details of any remedial actions being undertaken to improve schedule slippages.

GC3.5.4 is added as follows:

3.5.4 If the construction schedule is not adhered to, the Contractor will use all reasonable means to accelerate the Work, without additional compensation, to comply with the construction schedule. For the avoidance of doubt, references in the Contract Documents to the “construction schedule” will be deemed to be references to the “Project Schedule” unless the context requires otherwise.

### **GC3.6 SUPERVISION**

GC3.6.3 is added as follows:

3.6.3 Any superintendent or foreman whose work is unsatisfactory to the Consultant, or to whom the Consultant may have any reasonable objection, shall be dismissed from the Work upon written notice of the Consultant. No superintendents or foremen will be substituted or replaced, except at the request or with the written consent of the City, or as a result of any such employee’s voluntary termination of employment or incapacity and any replacement will have comparable or superior qualifications and experience.

### **GC3.7 SUBCONTRACTORS AND SUPPLIERS**

GC3.7.2 is deleted in its entirety and replaced as follows:

3.7.2 No Subcontractor or Supplier listed in Schedule 4 (if any) shall be replaced without the written consent of the City, which consent shall not be unreasonably withheld.

GC3.7.7 is added as follows:

3.7.7 In every subcontract the Contractor shall specify that the Consultant shall be the person responsible for payment certification under that subcontract for the purposes of the

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*Lien Act.* With every request to the Consultant for a determination whether a subcontract has been completed, the Contractor shall furnish a detailed description of the scope of work covered by the subcontract and a complete reconciliation of the subcontract account. In this GC3.7.7, the word “subcontract” shall have the meaning it has when used in the *Lien Act*.

**GC3.8 LABOUR AND PRODUCTS**

GC3.8 is deleted in its entirety and replaced with the following:

**GC 3.8 LABOUR AND PRODUCTS**

**3.8.1 Unions and Wages**

*(a) Open Site*

The Place of the Work and adjacent work areas associated with the Project are, or are part of, an “open site” and the Work will be performed on a “no strike/no lockout” basis. Accordingly, the Contractor and its Subcontractors, as well as the City and other contractors, may employ labourers at the Place of the Work who are members of a trade union, including a trade union affiliated with a Trade Union Council or who are members of another trade union, or who are not members of a trade union.

*(b) Labour Disruptions*

The Contractor will use its best commercial efforts to ensure that no Site Labour Disturbance shall occur and the Contractor:

- (i) will only retain Subcontractors for the Work whose employees are either:
  - (1) certified in British Columbia to be represented by a trade union and subject to a collective agreement which does not expire until after the expected date of Total Performance of the Work; or
  - (2) not certified to be represented by a trade union; and

will require such Subcontractors to only retain subcontractors and suppliers whose employees are either certified in British Columbia to be represented by a trade union and subject to a collective agreement which does not expire until after the expected date of Total Performance of the Work or not certified to be represented by a trade union; and

- (ii) represents and warrants that, with respect to any employees of the Contractor who may work at or near the Place of the Work and who are certified in British Columbia to be represented by a trade union and subject to a collective agreement, such collective agreement to which such employees are subject does not expire until after the expected date of Total Performance of the Work;

but if any Site Labour Disturbance occurs and does or may adversely impact the City, the Work or the Contract Time, the Contractor will use its best commercial efforts to

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ensure that the length and extent of such impact is minimized (including without limitation by cooperating with the City in any measures it may take to ameliorate such impact) and the Contractor will be liable to the City for any such impact.

**(c)     *Required for Union Contractors***

Without limiting the generality of Section (b) above, if the Contractor, or any Subcontractor, proposes to employ labourers at the Place of the Work who are members of a trade union, including a trade union that is affiliated with a Trade Union Council authorized to bind its member trade unions, then the Contractor must first submit to the Consultant:

- (i) a waiver of all non-affiliation or reservations rights under applicable collective agreements, including renewals or replacements thereof, effective for the duration of the Contract and executed by the Trade Union Council on behalf of all trades, or executed by the particular trade unions whose members will be so employed; and
- (ii) an agreement that there will be no Site Labour Disturbance at or affecting the Place of the Work and/or the progress of the Work, effective for the duration of the Contract, and executed by the Trade Union Council on behalf of all trades, or executed by the particular trade unions whose members will be so employed.

**(d)     *Fair Wages***

The Contractor shall pay or cause to be paid to every person employed on the Work not less than the wages or remuneration generally accepted as current at that time.

- 3.8.2 The Contractor shall provide and pay for labour, Products, tools, Construction Equipment, water, heat, light, power, transportation, and other facilities and services necessary for the performance of the Work in accordance with the Contract.
- 3.8.3 Unless otherwise specified in the Contract Documents, Products provided shall be new. Products which are not specified shall be of a quality consistent with those specified and their use acceptable to the Consultant. All Products supplied by the Contractor must at all times contain 0.00% asbestos. Should any Product be found to contain more than 0.00% asbestos, the Contractor will promptly abate and remove all Products containing asbestos at its sole cost.
- 3.8.4 The Contractor shall maintain good order and discipline among the Contractor's employees engaged on the Work and shall not employ on the Work anyone not skilled in the tasks assigned. The City shall have the right, by written notification to the Contractor, to require the removal from the Project of any employee of the Contractor or a Subcontractor or employee of a Subcontractor of the Contractor who is incompetent, untrained, acts in an unsafe manner, is disorderly or is otherwise unsatisfactory, or who causes a breach of the terms of this Contract. Any such employee or Subcontractor shall be immediately removed from the Place of the Work by the Contractor and shall not be employed again on the Project without the prior written approval of the City.

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- 3.8.5 All materials shall be delivered, stored, handled and applied in strict accordance with the manufacturer's instructions, and shall be delivered with type, grade and brand name clearly identifiable and with seals intact.

**GC3.9 DOCUMENTS AT THE SITE/DAILY RECORD**

GC3.9.1 is deleted in its entirety and replaced with the following:

- 3.9.1 The Contractor shall keep one copy (as opposed to the originally executed set) of all Contract Documents, Shop Drawings, Change Orders, Change Directives, the diary record required by GC3.9.2 below, submittals, reports, and records of meetings at the Place of the Work, in good order, properly indexed, and available at all regular working hours on Working Days to the City and the Consultant.

GC3.9.2 is added as follows:

- 3.9.2 The Contractor shall, from the date of commencement of the Work, maintain a careful diary record of the progress of the Work. This record shall be open to the Consultant's inspection at all reasonable times and delivered to the Consultant on completion of the Work. The diary shall detail:
- .1 daily weather conditions;
  - .2 the commencement, progress and completion of various portions of the work;
  - .3 the dates of all meetings and their purposes; and
  - .4 the dates of visits or inspections by government authorities, inspectors, utility companies, etc.

**GC3.10 SHOP DRAWINGS**

GC3.10.2 is amended by adding the following to the end:

... or as the Consultant may reasonably request.

GC3.10.13 is added as follows:

- 3.10.13 The Contractor represents and warrants that it has reviewed all Contract Documents and inspected and examined the Place of the Work and the Project to the extent it considers necessary and in accordance with prudent practice and satisfied itself as to the nature and extent of the conditions, including the physical and climatic conditions which may be encountered in the performance of the Work and to the extent possible to establish the state and quality of the existing construction. The Contractor further acknowledges that it will be required to share the Place of the Work with the City and others, all as described in the Contract Documents.

**GC3.12 CUTTING AND REMEDIAL WORK**

GC3.12.3 is amended by adding the following to the end:

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... unless the City elects to do the work or retain other contractors, after having given the Contractor written notice of the work to be performed. Such work shall be performed in accordance with GC3.2.

**GC4.1 CASH ALLOWANCES**

GC4.1.1 is deleted in its entirety and replaced as follows:

4.1.1 The Contract Price includes the cash allowances, if any, stated in the Contract Documents. Except to the extent specifically described in the Contract Documents, such cash allowances:

- (a) will cover the net out-of-pocket cost of the Contractor for services, products, construction machinery and equipment, freight, unloading, handling, storage, installation and other authorized expenses incurred in performing the work stipulated under the cash allowances, but
- (b) will not cover labour or installation, unless (and then only to the extent):
  - (i) specifically stated in the Contract Documents as being included in the cash allowance, or
  - (ii) specifically designated as an itemized or separate price for purposes of the cash allowance,

and otherwise will be deemed to be included in the Contract Price (ex-cash allowances).

GC4.1.2 is deleted in its entirety and replaced as follows:

4.1.2 The Contract Price (ex-cash allowances), and not the cash allowances, includes the Contractor's and Subcontractors' overhead and profit in respect of such cash allowances. Unless noted otherwise in the Contract Documents, none of the work included in the Drawings and Specifications is intended to be paid for by the cash allowances. The cash allowances are for the City's use, at the City's sole discretion.

GC4.1.3 is amended by adding the following to the end of the paragraph:

The Consultant may require that cash allowance Work proceed only after competitive tenders or proposals are sought and received by the Contractor for all or any part of such Work. The Contractor shall provide full disclosure to the Consultant of all such tenders or proposals. The Contractor shall not accept any such tenders or proposals without the prior consent of the Consultant. The Contractor shall maintain at the Place of the Work, or such other location as the Consultant may approve, accurate and complete records and accounts documenting all costs incurred under cash allowances. These records and accounts shall be available for inspection by the Consultant and the City at all reasonable times, and the Consultant and the City may take copies thereof.

**GC5.1 FINANCING INFORMATION REQUIRED OF THE OWNER**

GC5.1 is deleted in its entirety and replaced with the following:



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**GC5.1 GENERAL FINANCIAL/PAYMENT PROVISIONS**

- 5.1.1 The City shall, at the request of the Contractor, before signing the Contract, and promptly from time to time thereafter, furnish to the Contractor reasonable evidence that financial arrangements have been made to fulfill the City's obligations under the Contract. The Contractor now acknowledges that the City's financial statements as published pursuant to the *Financial Information Act* (British Columbia) constitute full satisfaction of this requirement and satisfactory evidence of the City's ability to fulfill its obligations under this Contract.
- 5.1.2 The City shall give the Contractor Notice in Writing of any material change in the City's financial arrangements to fulfill the City's obligations under the Contract during the performance of the Contract.
- 5.1.3 The City shall pay to the Contractor for the proper and timely performance and completion of the Work the Contract Price, consisting of:
- (i) if all or part of the Work is described or designated as Unit Price Work in the Schedule of Prices, the product of each unit price stated in the Schedule of Prices, multiplied by the quantity of each corresponding item of Work necessary for the proper performance and completion of the Work (and if such quantity differs from the quantity expressed in the Contract Documents and such difference is approved in writing by the City, the Contract Price expressed in ARTICLE A-4 of the Agreement shall be deemed to be adjusted to coincide with the approved quantity);
  - (ii) if all or part of the Work is Lump Sum Work, the aggregate of lump sum prices stated in the Schedule of Prices;
  - (iii) the aggregate of all cash allowances, if any, specified in Schedule 3 of the Agreement; and
  - (iv) if all or part of the Work is described or designated as Cost Plus Work, the cost reasonably and necessarily incurred by the Contractor in performing and completing such Work, such cost to be determined in accordance with GC5.1A.3, plus a percentage or fixed fee, as stated in GC5.1A.3.
- 5.1.4 The Contract Price is subject to adjustment only in accordance with the Contract Documents.
- 5.1.5 The Contract Price is expressed and payable in Canadian dollars.
- 5.1.6 Subject to the provisions of the Contract Documents and in accordance with the *Lien Act* in respect of Holdbacks, the City shall:
- .1 make progress payments to the Contractor on account of the Contract Price monthly when due, based on:
    - (i) the value of the Work completed and Products and materials incorporated into the Work as certified by the Consultant, and

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- (ii) Products and materials delivered to the Place of the Work but not yet incorporated into the Work, as agreed to by the City;
  - .2 upon issuance of a Certificate of Completion in respect of a subcontract to which the Contractor is a party, and where fifty-five (55) calendar days have elapsed since the issuance of the Certificate of Completion without any Liens having been filed which arose under the subcontract, pay the Holdback to the Contractor in respect of the subcontract;
  - .3 upon issuance of the Certificate of Completion (in respect of Substantial Performance of the Work), and where fifty-five (55) calendar days have elapsed since the issuance of the Certificate of Completion without any Liens or other liens having arisen with respect to this Contract, pay the balance of the Holdback to the Contractor in respect of this Contract;
  - .4 upon issuance of the Final Certificate for Payment (in respect of Total Performance of the Work), and provided no Liens or other liens have arisen in respect of this Contract, pay the balance of the Contract Price to the Contractor.
- 5.1.7 If either party fails to pay when due an amount owing to the other under this Contract, that amount will bear interest at the Bank Rate plus two percent (2%), calculated daily from the due date to the date of payment. For this purpose, the "Bank Rate" means the rate of interest established from time to time by the Bank of Canada as the minimum rate at which the Bank of Canada advances short term loans to Canadian chartered banks.
- 5.1.8 If the Work suffers any loss or damage, as a result of which an amount is paid under any policy of insurance provided by the City under the Contract, then such amount shall be paid to the City and advanced to the Contractor in monthly progress payments as the Contractor performs and completes repair or restoration Work in respect of such loss or damage.

**GC5.1A BASIS OF PAYMENT:**

**5.1A.1 Basis of Payment for Unit Price Work**

- .1 *Unit Price Work:* Payment for Unit Price Work, if any, shall be based on the unit prices set out in the Schedule of Prices.
- .2 *Measurement:* The Contractor shall measure the Work and the Consultant will verify such measurements to determine payment to the Contractor in accordance with the measurement provisions of the Contract Documents.

**5.1A.2 Basis of Payment for Lump Sum Work**

- .1 *Lump Sum Work:* Payment for Lump Sum Work, if any, shall be based on the lump sum prices set out in the Schedule of Prices.

**5.1A.3 Basis of Payment for Cost Plus Work**

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- .1 *Cost Plus Work:* Payment for Cost Plus Work, if any, shall be based on the cost of such Work, as provided in GC5.1A.3.2, plus a fixed fee or percentage fee calculated as a percentage of the cost of such Work, for the Contractor's overhead and profit, except as stated in GC5.1A.4 or GC6.3.6. The fixed fee or percentage fee shall be as provided in the Schedule of Prices (or, if not so specified, as agreed between the City and the Contractor in writing), except as stated in GC5.1A.4.
- .2 *Cost of the Work:* The cost of Cost Plus Work, except as otherwise specified in the Contract Documents or agreed in writing between the City and the Contractor, shall be at rates prevailing in the locality of the Place of the Work and shall include the following cost elements as applicable to such Work:
- (i) wages and benefits paid for labour in the direct employ of the Contractor under applicable collective bargaining agreements, or under a salary or wage schedule agreed upon by the Consultant and the Contractor;
  - (ii) salaries, wages, and benefits of the Contractor's personnel, when stationed at the field office, in whatever capacity employed; or personnel at shops or on the road, engaged in expediting the production or transportation of materials or equipment;
  - (iii) contributions, assessments, or taxes incurred for such items as employment insurance, provincial or territorial health insurance, workers' compensation, and Canada Pension Plan, insofar as such cost is based on wages, salaries, or other remuneration paid to employees of the Contractor and included in the cost of the Work as provided in paragraphs (i) and (ii);
  - (iv) travel and subsistence expenses of the Contractor's personnel described in paragraphs (i) and (ii), to be included only with the prior approval of the City;
  - (v) the cost of all Products, including the cost of transportation thereof;
  - (vi) the cost of Construction Equipment, Temporary Work, and hand tools not owned by the workers, including transportation, and maintenance thereof, which are consumed in the performance of the Work, at cost less salvage value on such items used but not consumed, which remain the property of the Contractor;
  - (vii) the cost of all tools and Construction Equipment, exclusive of hand tools used in the performance of the Work, whether rented from or provided by the Contractor or others, including installation, minor repairs and replacements, dismantling, removal, transportation and delivery cost thereof;
  - (viii) deposits lost;
  - (ix) the amounts of all subcontracts;

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- (x) the cost of quality assurance such as independent inspection and testing services;
  - (xi) charges levied by authorities having jurisdiction at the Place of the Work;
  - (xii) any adjustment in premiums for all bonds and insurance which the Contractor is required by the Contract Documents to purchase and maintain;
  - (xiii) any adjustment in value-added taxes (not including taxes on income or capital), for which the Contractor is liable;
  - (xiv) charges for long distance telephone and facsimile communications, courier services, expressage, and petty items incurred in relation to the performance of the Work;
  - (xv) the cost of removal and disposal of waste products and debris; and
  - (xvi) cost incurred due to emergencies affecting the safety of persons or property.
- .3 *Approval Required:* The Contractor shall obtain the Consultant's approval prior to subcontracting or entering into other agreements for Cost Plus Work.
- .4 *Rejection of Costs:* The Consultant may refuse to certify payment for all or part of the cost of any item under any cost element, where the item in question was unsuitable or unnecessary, or the cost was otherwise improperly incurred in the performance of the Work.
- .5 *Records:* The Contractor shall keep full and detailed accounts and records necessary for the documentation of the cost of Cost Plus Work and shall provide the Consultant with copies thereof when requested.
- .6 *Access to Records:* the City and the Consultant shall be afforded reasonable access to all of the Contractor's books, records, correspondence, instructions, drawings, receipts, vouchers, and memoranda related to the cost of Cost Plus Work and for this purpose the Contractor shall preserve such records for a period of one (1) year after the date of Substantial Performance of the Work.

**5.1A.4 Cost Plus Contract Rates and Mark Ups**

Notwithstanding any other provision hereof, when Cost Plus Work is performed then:

- (i) the costs of labour will be determined by the labour rates specified in the schedules to the Agreement, including the Schedule of Force Account Labour and Construction Equipment Rates, if any, in each case without any mark-up unless otherwise specified therein; and
- (ii) the costs of Construction Equipment will be determined by the construction equipment rates specified in the schedules to the Agreement, including the

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Schedule of Force Account Labour and Construction Equipment Rates, if any, in each case without mark-up unless otherwise specified therein.

**GC5.2 APPLICATIONS FOR PROGRESS PAYMENT**

GC5.2 is deleted in its entirety and replaced with the following:

**GC5.2 APPLICATIONS FOR PROGRESS PAYMENT**

- 5.2.1 Applications for payment shall be submitted to the Consultant on or before the last day of each calendar month, dated as of the last day of the month, and be in respect of the Work completed prior to the application being signed (the “**payment period**”).
- 5.2.2 The amount claimed shall be the value, proportionate to the amount of the Contract, of Work performed and Products delivered to the Place of the Work as of the last day of the payment period.
- 5.2.3 The Contractor shall submit to the Consultant at least fifteen (15) calendar days before the first application for payment, a schedule of values for the parts of the Work, aggregating the total amount of the Contract Price, so as to facilitate evaluation of applications for payment. A second schedule, stating the anticipated monthly progress payments, is to be submitted upon request.
- 5.2.4 The schedule of values shall be made out in such form and supported by such evidence as the Consultant may reasonably direct and when accepted by the Consultant, shall be used as the basis for applications for payment, unless it is found to be in error.
- 5.2.5 When making an application for payment, the Contractor shall submit a statement based upon the schedule of values. Claims for Products delivered to the Place of the Work but not yet incorporated into the Work shall be supported by such evidence as the Consultant may reasonably require to establish the ownership, value and delivery of the Products. The City has the right to refuse payment for Products delivered to the Place of the Work but not incorporated in the Work. The Contractor shall obtain the City's permission prior to invoicing for such Products.
- 5.2.6 Each application for payment shall:
  - .1 be in such form and detail as the Consultant shall require and submitted consistently in such form and detail unless otherwise advised by the Consultant and clearly show:
    - (D) the Contractor's full name, address and telephone number;
    - (E) the City's purchase order number;
    - (F) the name of the City's project manager;
    - (G) the application for payment number and date; and
    - (H) the Contractor's PST and GST registration number(s);

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- .2 be attached to a statement or statutory declaration sworn by an officer of the Contractor, which attests to the accuracy and completeness of the information contained therein, and for each application following the first application also include in addition to the foregoing and not in lieu of the same, a current CCDC 9A Statutory Declaration of Progress Payment Distribution by Contractor, which shall be completed and sworn before a Notary Public or Commissioner for Oaths for the Province of British Columbia;
  - .3 relate the Work for which payment is claimed to the Project Schedule and the schedule of values provided and provide such back-up invoices and other materials as may be reasonably necessary for the Consultant to review such application;
  - .4 be accompanied by a sworn declaration that there are no Liens or other liens relating to the Contractor, the Work or the Products registered against the City, the Project or the Place of the Work or the City's interest therein or against the Holdback;
  - .5 attach the documents required under GC9.4 demonstrating compliance by the Contractor and each Subcontractor with WorkSafeBC Rules;
  - .6 attach the monthly update contemplated by GC3.5.3; and
  - .7 provide a comprehensive list of items which remain to be completed and any defective items which remain to be corrected and the Contractor's estimate of the costs and time to complete or correct such items.
- 5.2.7 The Contractor shall deliver a complete application as provided in GC5.2.6 and if such application is not complete, the Consultant may reject all or the applicable portions of the same by promptly (and in any event within five (5) calendar days of its receipt) notifying the Contractor of the deficiencies in the application. The Contractor will promptly supply to the Consultant such further certification or information as may be necessary to remedy the deficiencies in the application.
- 5.2.8 An application for payment shall be deemed to be received by the Consultant only if and when submitted in full conformity with GC5.2.6.

**GC5.3 PROGRESS PAYMENT**

GC5.3.1.2 is amended by adding the following before the last sentence of the paragraph:

If, after a certificate for payment has been issued to the City (and prior to payment by the City), the Consultant determines on the basis of new information that the amount certified for payment is incorrectly high or low relative to the Work being certified, then the Consultant shall issue a revised certificate.

GC5.3.1.3 is amended by deleting the words "Article A-5 of the Agreement - PAYMENT" and replacing with "this GC5 and the *Lien Act*".

GC5.3.2 is added as follows:

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- 5.3.2 Subject to the provisions of the *Lien Act*, the City may retain a deficiency holdback from progress payments prior to Substantial Performance of the Work to ensure that sufficient money is withheld to fund any agreed deficiency holdback at Substantial Performance of the Work

**GC5.4 SUBSTANTIAL PERFORMANCE OF THE WORK**

GC5.4 is deleted in its entirety and replaced with the following:

**GC5.4 SUBSTANTIAL PERFORMANCE OF THE WORK/CERTIFICATE OF COMPLETION**

- 5.4.1 When the Contractor considers that Substantial Performance of the Work has been achieved, or if permitted by the *Lien Act* the Contractor wishes to apply for a Certificate of Completion with respect to a subcontract with a Subcontractor, the Contractor shall, within one Working Day, deliver to the Consultant and to the City an application for a Certificate of Completion (a “**Completion Certificate Application**”) in conformity with GC5.4.4.
- 5.4.2 The Consultant will review the Work to verify the validity of the application and shall promptly, and in any event, no later than ten (10) calendar days after receipt of the Contractor's application:
- .1 advise the Contractor in writing that the Work or the designated portion of the Work is not “completed” (as that term is used in the *Lien Act*) and give reasons why, or
  - .2 prepare a Certificate of Completion in respect of the Work or subcontract stating on the certificate the date of issuance in accordance with the *Lien Act* and issue a copy of that certificate to each of the City and the Contractor.
- 5.4.3 Immediately following the issuance of the Certificate of Completion for all of the Work, the Contractor, in consultation with the Consultant, shall establish a reasonable date for Total Performance of the Work (which date will be deemed to be the date for the same set out in the Project Schedule if such date is specified).
- 5.4.4 Each Completion Certificate Application referred to in GC5.4.1 shall also contain an application for payment and shall consist of the following:
- .1 a cover letter stating that the submittal is an application for a Certificate of Completion as well as an application for payment, and clearly identifying the Work or subcontract for which the Certificate of Completion is being sought;
  - .2 all of the certifications and information required on an application for payment, as set out in GC5.2.6;
  - .3 with respect to the Work or subcontract, as applicable, all deliverables, including copies of all manufacturer's warranties, called for in the Contract Documents which are or should be available at the time of the Completion Certificate Application, including, without limitation and by way of example only, all operation manuals, service manuals, warranty certificates, maintenance contracts, service contracts, software licences, inspection

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reports, and other applicable manuals, contracts, certificates, guarantees and warranties.

- 5.4.5 Failure to specify an incomplete or defective item on a Completion Certificate Application or the Consultant's issuance of a Certificate of Completion or certificate of payment in respect of the same does not alter the responsibility of the Contractor to complete the Contract.
- 5.4.6 Subject to the requirements of the *Lien Act* relative to the date of issuance by the Consultant of the Certificate of Completion of the Work pursuant to GC5.4.2.2:
- .1 the Consultant shall issue to the City and copy to the Contractor a certificate of payment for an amount equal to the Contract Price less:
    - (i) three times the value of any deficiencies shown on the comprehensive list of items to be completed or corrected, as determined by the Consultant,
    - (ii) the value of incomplete work as determined by the Consultant, and
    - (iii) the amounts of all previous certificates of payment;
  - .2 the City shall then make payment to the Contractor in accordance with the provisions of GC5.3.1.3 provided always that a Completion Certificate Application shall be deemed received only if and when submitted in accordance with GC5.2.6 as well as GC5.4.4; and
  - .3 for the avoidance of doubt, this GC5.4.6 does not create an obligation to avoid retaining, or to release, any Holdback.

**GC5.5 PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF THE WORK**

GC5.5 is deleted in its entirety and replaced with the following:

**GC5.5 PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF THE WORK**

- 5.5.1 After the issuance of the Certificate of Completion evidencing Substantial Performance of the Work, the Contractor shall:
- .1 submit an application for payment of the Holdback,
  - .2 submit a current CCDC 9A Statutory Declaration of Progress Distribution by Contractor, as well as a current CCDC 9B Statutory Declaration of Progress Distribution by Subcontractor from each of the Subcontractors, which in every case shall be fully and properly completed and sworn before a Notary Public or Commissioner for Oaths for the Province of British Columbia;
  - .3 verify that there are no Liens or other liens relating to the Contractor, the Work or the Products registered against the City, the Project or the Place of the Work or the City's interest therein or against the Holdback, and swear and



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- submit to the Consultant a written declaration that there are no such Liens or other liens;
- .4 attach the documents required under GC9.4 demonstrating compliance by the Contractor and each Subcontractor with WorkSafeBC Rules; and
- .5 attach copies of a current title search of the Place of the Work confirming that no Liens have been registered prior to the time the release of the Holdback is due.
- 5.5.2 After the receipt of and approval of the application documents described in GC5.5.1, the Consultant will issue a certificate for payment of the Holdback (less any previous releases of the Holdback on account of subcontract Certificates of Completion).
- 5.5.3 The Contractor now acknowledges that the City is exempt under the regulations of the *Lien Act* from the requirement to keep the Holdback in a separate holdback account.
- 5.5.4 The Holdback is due and payable as set out in GC5.1.6.3. The City may retain out of the Holdback any sums required by law to satisfy any Liens arising under the Contract or any subcontract or, if permitted by the *Lien Act*, claims against the Contractor.

**GC5.6 PROGRESSIVE RELEASE OF HOLDBACK**

GC5.6.1 is deleted in its entirety and replaced with the following:

- 5.6.1 Any portion of the Holdback in respect of a Subcontractor or Supplier subcontract is due and payable as set out in GC5.1.6.3. The City may retain out of the subcontract portion of the Holdback any sums required by law to satisfy any Liens arising in connection therewith or, if permitted by the *Lien Act*, other claims.

GC5.6.2 is deleted in its entirety.

GC5.6.3 is amended by deleting the words “final certificate for payment” and replacing with “Final Certificate for Payment”.

**GC5.7 FINAL PAYMENT**

GC5.7.1 is deleted in its entirety and replaced as follows:

- 5.7.1 When the Contractor considers that Total Performance of the Work has been achieved, the Contractor shall submit its final application for payment. The application for payment on attaining Total Performance of the Work shall consist of the following:
- .1 all of the certifications and information required on an application for payment as set out in GC5.2.6, all appropriately amended to clearly confirm that the Work is fully completed, all Products have been delivered, and all Lien periods have expired with no Liens or other liens having been filed;
- .2 a current CCDC 9A Statutory Declaration of Progress Distribution by Contractor, as well as a current CCDC 9B Statutory Declaration of Progress Distribution by Subcontractor from each of the Subcontractors, which in every case shall be

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fully and properly completed and sworn before a Notary Public or Commissioner for Oaths for the Province of British Columbia;

- .3 copies of a current title search of the Place of the Work confirming that no Liens have been registered as at the date of application for Final Certificate for Payment; and
- .4 all deliverables called for in the Contract Documents which were not delivered at the time of Substantial Performance of the Work.

GC5.7.3 is amended by deleting the words “final certificate for payment” and replacing with “Final Certificate for Payment”.

GC5.7.4 is deleted in its entirety and replaced as follows:

- 5.7.4 Subject to paragraph 9.4.1 of GC9.4 - CONSTRUCTION SAFETY & WORKPLACEBC RULES, and the *Lien Act*, the City shall, no later than twenty-one (21) calendar days after the issuance of a Final Certificate for Payment, pay the Contractor as provided in GC5.1.6.4

**GC6.1 OWNER’S RIGHT TO MAKE CHANGES**

GC6.1.3 is added as follows:

- 6.1.3 Change Orders, contemplated Change Orders, and Change Directives shall be on printed forms supplied by the City or Consultant and may include:
  - .1 job site instructions or site memo forms, for immediate authorization at the Place of the Work in order not to delay the performance of the Work and for changes of a minor nature with no price variation, which shall be issued on site on the signature of the Consultant only;
  - .2 contemplated Change Orders issued by the Consultant for purposes of the Contractor’s response to a proposed method of adjustment and extent of adjustment to the Contract Price or Contract Time, which shall be signed by the Consultant only;
  - .3 Change Orders authorizing the Contractor to proceed with the Work as set out by the Consultant and Contractor in a contemplated Change Order, which shall be signed by the City and the Contractor.

GC6.1.4 is added as follows:

**6.1.4 *Basis of Payment for Changes on Cost Plus Basis***

- .1 *Work Done on Cost Plus Basis:* The cost of Work done under a Change Directive or Change Order on a cost-plus basis, except as otherwise specified in the Contract Documents or agreed in writing between the City and the Contractor, shall be at rates prevailing in the locality of the Place of the Work and, subject to GC6.1.6, shall include the cost elements set out in GC5.1A.3(i) through (xvi) as applicable to such Work.

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- .2 *Approval Required:* The Contractor shall obtain the Consultant's approval prior to subcontracting or entering into other agreements for Work done under a Change Directive or Change Order on a cost-plus basis.
- .3 *Rejection of Costs:* The Consultant may refuse to certify payment for all or part of the cost of any item under any cost element, where the item in question was unsuitable or unnecessary, or the cost was otherwise improperly incurred in the performance of the Work.
- .4 *Records:* The Contractor shall keep full and detailed accounts and records necessary for the documentation of the cost of Work done under a Change Directive or Change Order on a cost-plus basis, and shall provide the Consultant with copies thereof when requested.
- .5 *Access to Records:* the City and the Consultant shall be afforded reasonable access to all of the Contractor's books, records, correspondence, instructions, drawings, receipts, vouchers, and memoranda related to the cost of Work done under a Change Directive or Change Order on a cost-plus basis, and for this purpose the Contractor shall preserve such records for a period of one (1) year after the date of Substantial Performance of the Work.
- .6 Notwithstanding any other provision hereof, when a change in the Work is valued on a cost-plus basis, then:
  - (i) the costs of labour will be determined by the labour rates specified in the schedules to the Agreement, including the Schedule of Force Account Labour and Construction Equipment Rates, if any, in each case without any mark up unless otherwise specified therein;
  - (ii) the costs of Construction Equipment will be determined by the construction equipment rates specified in the schedules to the Agreement, including the Schedule of Force Account Labour and Construction Equipment Rates, if any, in each case without mark up unless otherwise specified therein; and
  - (iii) for further certainty, to the extent that any changes involve changes in the quantities of Unit Price Work such changes will be determined solely by the unit prices, without mark-up, unless otherwise specified in the schedules to the Agreement.

GC6.1.5 is added as follows:

*6.1.5 Valuation and Marks ups for all Change Orders and Change Directives*

The following terms and conditions will apply to any quotation for a Change Order prepared by the Contractor pursuant to GC 6.2 - *CHANGE ORDER*, and will also apply to any Change Directive issued pursuant to GC 6.3 - *CHANGE DIRECTIVE*:

- .1 The valuation for all (except previously agreed separate prices and unit prices) Work done under a Change Directive or Change Order which result in an increase in the Contract Price, whether valued as a lump sum or on a cost-plus

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basis, will be based on the actual direct unavoidable costs incurred by the Contractor and will be deemed to include all amounts on account of overhead, profit, administrative, and any other indirect expenses or allowances except as follows:

- .1 The Contractor will receive combined overhead and profit equal to ten percent (10%) of the direct unavoidable costs incurred by the Contractor's use of his own forces;
  - .2 The Contractor will receive five percent (5%) combined overhead and profit on the amounts paid by the Contractor to any Subcontractor or Suppliers as a direct result of the Change Order or Change Directive (provided always that the Subcontract contains the same limitations on Change Orders and Change Directives as this Contract).
  - .3 The Subcontractor will receive combined overhead and profit of ten percent (10%) on account of the direct unavoidable costs incurred by the Subcontractor as direct result of the Change Order or Change Directive, and
  - .4 The Supplier will receive no overhead, profit or other markup on account of the Change Order or Change Directive.
- 
- .2 The valuation for all (except previously agreed separate price and unit rates) changes in the Work which result in a decrease in the Contract Price will be based on the actual savings in all costs to the Contractor, Subcontractor and Suppliers, exclusive of markups or deductions for overhead, profit, administrative or any other indirect costs not causally related to the Change Order or Change Directive.
  - .3 If a change in the Work results in both expenditures and savings, any overhead or profit that is otherwise payable by the City shall be payable only on the net increase in expenditures, if any, with respect to that change in the Work.
  - .4 The Contractor will only enter into Subcontracts with Subcontractors and Suppliers which obligate each Subcontractor and Supplier to comply with the provisions of this Part 6 - CHANGES IN THE WORK.
  - .5 Upon the request of the Consultant, the Contractor will promptly deliver all supporting documentation including labour, Products, services, Subcontract breakdowns and all other documentation in order to substantiate any Change Order quotation or change in the Contract Price pursuant to a Change Directive.
  - .6 The Contractor will be responsible for having time sheets covering all personnel respecting any Change Order or Change Directive checked and approved daily by the Consultant, and claims for reimbursement of any extra wages, salaries or other expenses relating to such personnel will only be accepted when properly supported by such signed time sheets.
  - .7 All costs and expenses incurred by the Contractor and any Subcontractor or Suppliers in preparing any requested Change Order quotation or submitting,

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substantiating or otherwise administering a claim pursuant to a Change Order or Change Directive will be the responsibility of the Contractor and may not be included in any adjustment to the Contract Price.

GC6.1.6 is added as follows:

**6.1.6 *Cost Plus Maximum under Change Order***

When a change in Work is valued on a cost-plus basis, the City may require that the aggregate amount incurred under the corresponding Change Directive shall not exceed a maximum amount acceptable to the City, acting reasonably, and specified in the Change Directive, as such amount may be revised from time to time by subsequent written authorization of the City. The Contractor shall not be entitled to payment in excess of such applicable maximum amount in respect of any such Change Directive.

**GC6.3 CHANGE DIRECTIVE**

GC6.3.3 is deleted in its entirety.

GC6.3.5 is deleted in its entirety.

GC6.3.6 is deleted in its entirety.

GC6.3.7 is deleted in its entirety.

GC6.3.8 is deleted in its entirety.

GC6.3.9 is deleted in its entirety.

GC6.3.10 is deleted in its entirety.

**GC6.4 CONCEALED OR UNKNOWN CONDITIONS**

GC6.4.1 is deleted in its entirety and replaced as follows:

6.4.1 If the Contractor discovers conditions at the Place of the Work which: (i) are subsurface or otherwise concealed physical conditions which existed before the commencement of the Work; (ii) could not reasonably have been discovered by proper investigation by the Contractor under GC3.10.13; and (iii) differ materially from those disclosed in the Contract Documents, including any geotechnical report, environmental assessment, or other report included or referenced in the Contract Documents or provided or made known to the Contractor before the commencement of the Work, then the Contractor shall give Notice in Writing to the Consultant of such conditions before they are disturbed and in no event later than five (5) Working Days after first observance of the conditions.

GC6.4.1A is added as follows:

6.4.1A The Contractor must give notice under GC6.4.1 within five (5) Working Days after discovery of the conditions or the time when the Contractor by reasonable diligence could have discovered the conditions, failing which the Contractor may not make or

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enforce any claim against the City, whether for a change in the Contract Price or other compensation or for an extension of the Contract Time arising from those conditions.

GC6.4.2 is amended by deleting the words “If the finding is that the conditions differ materially and this would cause” and replacing with “If the requirements of GC6.4.1 and GC6.4.1A are satisfied and the relevant conditions would cause”.

GC6.4.3 is amended by deleting the words “the conditions at the Place of Work are not materially different” and replacing with “the requirements of GC6.4.1 and GC6.4.1A are not satisfied”.

GC6.4.4 is deleted in its entirety and replaced as follows:

- 6.4.4 If such concealed or unknown conditions relate to Hazardous Substances, artefacts and fossils, or mould, the parties will be governed by the provisions of GC9.2 - TOXIC AND HAZARDOUS SUBSTANCES, GC9.3 - ARTIFACTS AND FOSSILS and GC9.5 - MOULD.

**GC7.1 OWNER'S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR'S RIGHT TO CONTINUE WITH THE WORK OR TERMINATE THE CONTRACT**

GC7.1.5.2 is amended by deleting the words “final certificate for payment” and replacing with “Final Certificate for Payment”.

GC7.1.7 is added as follows:

- 7.1.7 The City may terminate the Contract at any time for the convenience of the City by notice given to the Contractor. If the Contract is terminated under this GC7.1.7, then:
- (a) the Contractor shall suspend performance of the Work and shall not incur further cost or expense in relation to the Work, except (i) as necessary to protect the Work and the safety of persons, or (ii) as authorized or directed in writing by the City;
  - (b) the Contractor shall remove from the Place of the Work its personnel and all Construction Equipment and other material that is owned or leased by the Contractor, except as otherwise required to comply with GC7.1.7(a)(i) and (ii); and
  - (c) the City shall pay the Contractor for all Work performed, including the cost of complying with GC7.1.7(a)(i) and (ii), in accordance with the terms and conditions of payment set out in the Contract, together with the documented and reasonable cost of terminating subcontracts with Subcontractors and Suppliers and demobilizing the Contractor's personnel and Construction Equipment, all as certified by the Consultant, and upon such payment being made, the Contractor shall have no further or other claim against the City for, or in connection with, termination of the Contract.

**GC7.2 CONTRACTOR'S RIGHT TO SUSPEND THE WORK OR TERMINATE CONTRACT**

GC7.2.2 is amended by replacing the number “20” where it appears in the first sentence with the number “30”.

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GC7.2.3 is amended by adding the following to the beginning of the first sentence:

If the default cannot be corrected in five (5) Working Days or in such other time as may be subsequently agreed in writing by the parties,

GC7.2.3.1 is deleted in its entirety.

GC7.2.3.4 is deleted in its entirety and replaced with the following:

- .4 the City violates the requirements of the Contract to a substantial degree and the Consultant, except for GC5.1- GENERAL FINANCIAL/PAYMENT PROVISIONS, confirms by written statement to the Contractor that sufficient cause exists.

GC7.2.4 is amended by revising the second line to read:

...corrected within fourteen (14) Working Days following the receipt of the Notice in Writing, the Contractor may, without prejudice to any ...

**GC 8.2 NEGOTIATION, MEDIATION AND ARBITRATION**

GC8.2.1.1 is deleted in its entirety and replaced as follows:

- .1 within thirty (30) Working Days after the Contract was awarded, or

GC8.2.1.2 is deleted in its entirety and replaced as follows:

- .2 if the parties neglected to make an appointment within the thirty (30) Working Days, within twenty (20) Working Days after either party by Notice in Writing requests that the Project Mediator be appointed.

GC8.2.3 is amended by adding the following to the end:

However, the City and the Contractor nonetheless irrevocably and unconditionally attorn to the jurisdiction of the courts of British Columbia, and courts to which appeals therefrom may be taken, in respect of any dispute or claim arising under or relating to the Contract. The City and the Contractor acknowledge and agree that such courts have jurisdiction, but not necessarily exclusive jurisdiction in respect of any such dispute or claim. If a dispute arises under or in relation to this Contract, and the dispute cannot be resolved by the City's project manager and the Contractor's principal representative at the Place of the Work within three (3) Working Days after the dispute arises, or the City's project manager is not authorized to resolve the dispute, then:

- (a) the dispute will be referred to the City's Director of Facilities and the Contractor's project manager for resolution, and if they cannot resolve the dispute within three (3) Working Days after referral to them, then
- (b) the dispute will be referred to a senior executive of the City designated by it and a senior executive of the Contractor designated by it, for resolution, and if they cannot resolve the dispute within three (3) Working Days after referral to them, then

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- (c) either party may take such further legal proceedings as they consider necessary for the resolution of the dispute either concurrently with or in lieu of the process outlined in GC8.2.4 to GC8.2.9.

GC8.2.4 is amended by revising the second line to read:

...the parties may request the Project Mediator...

GC8.2.6 is amended by revising the second line to read:

...either party may request referral of the dispute...

GC8.2.7 is deleted in its entirety and replaced as follows:

- 8.2.7 If a Notice in Writing is not given under paragraph 8.2.6 within the required time or the other party does not reply and agree to binding arbitration, the parties may refer the unresolved dispute to the courts or to any other form of dispute resolution, including arbitration, which they have agreed to use.

GC8.2.9 is added as follows:

- 8.2.9 Where references are made in the Contract Documents to “the time of bid closing”, it is intended by the parties that this shall mean the effective date of the contract.

**GC9.1 PROTECTION OF WORK AND PROPERTY**

GC9.1.1 is deleted in its entirety and replaced with the following:

- 9.1.1 The Contractor shall protect the Work, Products delivered to the Place of the Work, the City’s property and property on or adjacent to the Place of the Work from theft and damage which may arise as the result of the Contractor’s operations under the Contract, and shall be responsible for such theft and damage, except theft and damage which occurs as the result of:

- .1 errors in the Contract Documents;
- .2 acts or omissions by the City, other contractors, or their agents and employees.

GC9.1.4 is amended by revising the first line to read:

Should damage occur to the Work, Products delivered to the Place of the Work, the City’s property or property on or adjacent to the Place of the Work, for which the Contractor is not responsible, as provided in paragraph...

GC9.1.5 is added as follows:

- 9.1.5 The Contractor is responsible for protection of the Work during shutdown, including shutdowns caused by strikes.

**GC9.2 TOXIC AND HAZARDOUS SUBSTANCES**

GC9.2.1 is deleted in its entirety and replaced with the following:



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- 9.2.1 For the purposes of the Contract, the City shall be deemed to have control and management of the Place of the Work with respect to the condition of the Place of the Work prior to the commencement of the Work in relation to applicable Environmental Law and the presence of any Hazardous Substances.

GC9.2.2 is deleted in its entirety and replaced with the following:

- 9.2.2 Prior to the Contractor commencing the Work, the City shall:
- .1 take reasonable steps to determine whether the Place of the Work contains any Hazardous Substances and, if so, whether the condition of the Place of the Work is in compliance with applicable Environmental Law; and
  - .2 provide the Consultant and the Contractor with a written list of any such Hazardous Substances that the City knows to exist on, and their locations within, the Place of the Work.

GC9.2.3 is deleted in its entirety and replaced with the following:

- 9.2.3 Unless the Contract expressly provides otherwise, the City shall be responsible for taking such steps as may be necessary, in accordance with applicable Environmental Law to dispose of, store or otherwise deal with Hazardous Substances so as to cause the Place of the Work to comply with the requirements of applicable Environmental Law before the Contractor commences the Work.

GC9.2.4 is deleted in its entirety and replaced with the following:

- 9.2.4 Except as previously disclosed in writing by the City or as otherwise known by the Contractor, if the Contractor:
- .1 encounters Hazardous Substances at the Place of the Work; or
  - .2 has reasonable grounds to believe that Hazardous Substances are present at the Place of the Work which were not brought to the Place of the Work by the Contractor or anyone for whom the Contractor is responsible or which were disclosed but have not been dealt with as required under paragraph 9.2.3,
- the Contractor shall:
- (a) take reasonable steps, including stopping the Work, to ensure that no person's exposure to any Hazardous Substance at the Place of the Work exceeds any levels contrary to the requirements of applicable Environmental Law, and
  - (b) immediately report the circumstances to the Consultant and the City by Notice in Writing.

GC9.2.5 is deleted in its entirety and replaced with the following:

- 9.2.5 If the City and the Contractor, acting reasonably, fail to agree on whether the condition of the Place of the Work is in compliance with applicable Environmental Law prior to the commencement of the Work or whether Hazardous Substances were brought onto the Place of the Work by the Contractor or anyone for whom the Contractor is

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responsible, or whether the Contractor or anyone for whom the Contractor is responsible caused the release of Hazardous Substances at the Place of the Work, the City shall retain an independent qualified expert to investigate and report on the subject of the dispute. Subject to paragraph 9.2.6, the City shall pay for the cost of the expert's investigation and report. The City will provide a copy of the expert's report to the Contractor.

GC9.2.6 is deleted in its entirety and replaced with the following:

- 9.2.6 If the expert's report under paragraph 9.2.5 determines that the Place of the Work was in compliance with applicable Environmental Law prior to the commencement of the Work or that Hazardous Substances were brought onto the Place of the Work by the Contractor or any for whom the Contractor is responsible, or that the Contractor or anyone for whom the Contractor is responsible caused the release of a Hazardous Substance at the Place of the Work, the Contractor shall pay for the cost of the expert's investigation and report.

GC9.2.7 is deleted in its entirety and replaced with the following:

- 9.2.7 If the City and the Contractor agree, or if the expert's report under paragraph 9.2.5 concludes, that the Contractor or anyone for whom the Contractor is responsible brought a Hazardous Substance onto, or caused the release of a Hazardous Substance on, the Place of the Work, the Contractor shall promptly at the Contractor's expense:
- .1 take such steps as are necessary to safely and in compliance with Environmental Law remove, transport and dispose of such Hazardous Substance and to remediate the Place of the Work to such extent as is required to cause the Place of the Work to comply with all applicable Environmental Law;
  - .2 make good any damage to the Work, the City's property and any property affected by any migration of the Hazardous Substance as provided in paragraph 9.1.3 of GC9.1 - PROTECTION OF WORK AND PROPERTY;
  - .3 reimburse the City for all resultant costs and expenses reasonably incurred by the City; and
  - .4 indemnify the City as required by GC12.1 - INDEMNIFICATION

GC9.2.8 is deleted in its entirety and replaced with the following:

- 9.2.8 If the City and the Contractor agree, or if the expert's report under paragraph 9.2.5 concludes, that neither the Contractor nor anyone for whom the Contractor is responsible is responsible for bringing a Hazardous Substance onto, or for causing the release of a Hazardous Substance on, the Place of the Work, the City shall promptly at the City's expense:
- .1 take such steps as are necessary to safely and in compliance with Environmental Law remove, transport and dispose of such Hazardous Substance and to remediate the Place of the Work to such extent as is required to cause the Place of the Work to comply with all applicable Environmental Law;

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- .2 reimburse the Contractor for all resultant costs and expenses reasonably incurred by the Contractor;
- .3 extend the Contract time for such reasonable time as the Consultant may recommend in consultation with the Contractor and the expert referred to in paragraph 9.2.5 and reimburse the Contractor for costs reasonably incurred as a result of the delay, and
- .4 indemnify the Contractor as required by GC12.1 - INDEMNIFICATION.

GC9.2.9 is amended by deleting the words “Part 8 of the General Conditions - Dispute Resolution” from the second line and replacing with “Part 8 - DISPUTE RESOLUTION”.

GC9.2.10 is added as follows:

- 9.2.10 The Contractor shall, and shall ensure that anyone for whom the Contractor is responsible shall, at all times comply with all applicable Environmental Law and ensure that all Work is conducted in compliance with all applicable Environmental Law.

### **GC 9.3 ARTIFACTS AND FOSSILS**

GC9.3.1 is deleted in its entirety and replaced with the following:

- 9.3.1 If the Contractor or anyone for whom the Contractor is responsible discovers fossils coins, articles of value or antiquity, structures and other remains or things of scientific, cultural or historical interest at the Place of the Work (in GC9.3 called, “**Historical Items**”), the Contractor shall immediately give Notice in Writing thereof to the City and the Consultant. As between the City and the Contractor, all Historical Items shall be, and shall be deemed to be, the absolute property of the City, and the Contractor hereby irrevocably waives and disclaims any right, title or interest therein.

GC9.3.2 is deleted in its entirety and replaced with the following:

- 9.3.2 The Contractor shall take all reasonable precautions, and shall comply with all reasonable directions from the Consultant, to prevent removal or damage to Historical Items as identified in paragraph 9.3.1 or as otherwise known to be present at the Place of the Work.

GC9.3.3 is deleted in its entirety and replaced with the following:

- 9.3.3 The Consultant will investigate the impact on the Work of the discovery of any Historical Item identified in paragraph 9.3.1. If conditions are found that would cause an increase or decrease in the Contractor’s cost or time to perform the Work, the Consultant, with the City’s approval, will issue appropriate instructions for a change in the Work as provided in GC6.2 -CHANGE ORDER or GC6.3 - CHANGE DIRECTIVE.

### **GC9.4 CONSTRUCTION SAFETY**

The above heading for GC9.4 is amended by adding “&WORKSAFEBC RULES” to the end.

GC9.4.2 is added as follows:

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- 9.4.2 Unless otherwise specified in the Contract Documents or notified to the contrary by the Consultant, the Contractor is the “prime contractor” for the purpose of the WorkSafeBC Rules, notwithstanding that the City, the Consultant or another contractor may provide from time to time some of the services normally provided by such a “prime contractor”.

GC9.4.3 is added as follows

- 9.4.3 If the Contractor is the “prime contractor”, the Contractor shall:

- .1 *Compliance with Law:* comply with all Applicable Laws, and all reasonable rules established by the City of which the Contractor is given timely notice through the Consultant, relative to occupational health and safety;
- .2 *Safety Programs:* initiate, maintain and supervise all safety programs and measures in connection with the performance of the Work, which program shall respond fully to the requirements of all Applicable Laws relative to occupational health and safety, all to the satisfaction of the Consultant;
- .3 *Site Meetings:* conduct regular safety meetings at the Place of the Work, no less frequently than weekly, record minutes of such meetings and give copies of such minutes to the Consultant on a weekly basis;
- .4 *Safety Equipment:* supply and maintain at the Place of the Work all safety equipment necessary to protect workers and others from accident or injury; and
- .5 *First Aid:* supply and maintain at the Place of the Work all personnel, equipment and supplies necessary for the provision of appropriate first-aid to any worker or person suffering an accident or injury at or about the Place of the Work, and establish an emergency procedure for prompt removal of any such person from the Place of the Work to a hospital, clinic or medical office for further treatment.
- .6 *Notice of Project:* prior to commencement of construction:
  - (a) complete and file a “Notice of Project” with the WorkSafeBC in compliance with Section 20.2 of the *Occupational Health and Safety Regulation*;
  - (b) post the Notice of Project at the Place of the Work, and
  - (c) provide a copy of the Notice of Project to the City and confirm in writing that the Notice of Project has been posted at the Place of the Work.

GC9.4.4 is added as follows

- 9.4.4 If, or for so long as the Contractor is not the “prime contractor”, the Contractor shall:

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- .1 *Compliance with Law:* comply with all Applicable Laws, and all reasonable rules established by the City of which the Contractor is given timely notice through the Consultant, relative to occupational health and safety;
- .2 *Compliance with Directions:* comply with all reasonable directions issued by the “prime contractor” regarding compliance with Applicable Laws, and rules established by the City, relative to occupational health and safety; and
- .3 *Site Safety Meetings:* attend all Place of the Work safety meetings convened by the “prime contractor”.

GC9.4.5 is added as follows

9.4.5 Whether or not the Contractor is the “prime contractor”, it shall:

- .1 *Reporting:* report immediately to the “prime contractor” (if not the Contractor) and the Consultant all accidents and injuries of any kind or severity occurring on or about the Place of the Work and involving employees of the Contractor or any Subcontractor, or any other person of which the Contractor is aware, and arising out of or in connection with the Work;
- .2 *Written Confirmation:* confirm in writing each report made under subparagraph (a); and
- .3 *City Policy:* respect and adhere to City’s safety and training policies relative to the Place of the Work and the Work.

GC9.4.6 is added as follows

9.4.6 If the Consultant determines that the Contractor is not in compliance with its obligations as “prime contractor”, if applicable, the City may, but is not obliged to, provide some or all of the services required to discharge those obligations. All costs incurred by the City in providing such services shall be paid by the Contractor to the City, and may be deducted from any amount then or thereafter becoming due to the Contractor under the Contract.

GC9.4.7 is added as follows:

9.4.7 The Contractor shall indemnify and save harmless the City from any and all damages, liabilities, cost, fines, penalties, fees and expenses whatsoever including, without limitation, legal fees, charges and disbursements as between a solicitor and his own client, related to or arising out of the assignment to the Contractor, and the Contractor’s assumption, of the responsibilities, obligations and liabilities of the “prime contractor” under the WorkSafeBC Rules with respect to the Place of the Work.

GC9.4.8 is added as follows:

9.4.8 The Contractor agrees that it shall at its own expense procure and carry or cause to be procured and carried and paid for, full WorkSafeBC coverage for itself and all workers, employees, servants and others engaged in or upon any work or service which is the subject of this Contract.

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GC9.4.9 is added as follows:

- 9.4.9 The Contractor agrees that the City has the unfettered right to set off the amount of the unpaid premiums and assessments for such WorkSafeBC coverage against any monies owing by the City to the Contractor. The City shall have the right to withhold payment under this Contract until the WorkSafeBC premiums, assessments or penalties in respect of work done or service performed in fulfilling this Contract had been paid in full.

GC9.4.10 is added as follows:

- 9.4.10 Promptly upon execution of this Agreement, the Contractor will provide the City with the Contractor's and all Subcontractors' WorkSafeBC registration numbers.

GC9.4.11 is added as follows:

- 9.4.11 Promptly upon execution of this Agreement, and concurrently with making any application for payment under this Contract, the Contractor will provide the City with written confirmation that the Contractor and all Subcontractors are registered in good standing with WorkSafeBC and that all assessments have been paid to the then current date.

GC9.4.12 is added as follows:

- 9.4.12 The Contractor may or may not have received, as part of the Contract Documents, a "Pre-Contract Hazard Assessment" prepared by or for the City pursuant to the City's statutory obligations under the WorkSafeBC Rules (Section 119 of the *Workers' Compensation Act*) as an "owner of a workplace". Despite the City's statutory obligations, the Contractor now acknowledges and agrees that the Contractor may not rely on the "Pre-Contract Hazard Assessment" and now agrees to assume by the terms of this Contract full responsibility for carrying out the City's obligations under Section 119 of the *Workers' Compensation Act*, including without limitation and by way of example only, conducting all due diligence inquiries of all applicable City staff and departments in order to ascertain what, if any, information is known or has been recorded by City staff about the Place of the Work that is necessary to identify and eliminate or control hazards to the health or safety of persons at the Place of the Work. The City now agrees to make all reasonable efforts to assist the Contractor in obtaining timely access to City staff and City records for this purpose.

GC9.4.13 is added as follows:

- 9.4.13 The Contractor will indemnify the City and hold harmless the City from all manner of claims, demands, costs, losses, penalties and proceedings arising out of or in any way related to:
- .1 unpaid WorkSafeBC assessments of the Contractor or any other employer for whom the Contractor is responsible under this Contract;
  - .2 the acts or omissions of any person engaged directly or indirectly by the Contractor in the performance of this Contract, or for whom the Contractor is liable pursuant to the Contractor's obligations as the "prime contractor", and

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which acts or omissions are or are alleged by WorkSafeBC to constitute a breach of the WorkSafeBC Rules or other failure to observe safety rules, regulations and practices of WorkSafeBC, including any and all fines and penalties levied by WorkSafeBC; or

- .3 any breach of the Contractor's obligations under Clause GC9.1.

GC9.4.14 is added as follows:

- 9.4.14 The Contractor agrees to retain a full-time construction safety officer whenever required by the then-current Vancouver Building By-law. The construction safety officer shall bear written proof of qualification satisfactory to the City of Vancouver's Director of Permits and Licenses.

**GC9.5 MOULD**

GC9.5.1 is deleted in its entirety and replaced with the following:

- 9.5.1 If the Contractor or the City observes or reasonably suspects the presence of mould at the Place of the Work of the nature and quantity such that special handling and precautions are required under Environmental Law or that otherwise may reasonably present a hazard to the health and safety of persons, the remediation of which has not been separately arranged by the City or is not expressly part of the Work,
- .1 the observing party shall promptly report the circumstances to the other party by Notice in Writing;
- .2 the Contractor shall promptly take all reasonable steps, including stopping all or such portions of the Work as may be necessary to ensure that no person suffers injury, sickness or death and that no property is damaged as a result of exposure to or the presence of the mould; and
- .3 if the City and the Contractor do not agree on whether any mould discovered is of the nature and quantity such that special handling and precautions are required under Environmental Law, or whether such mould may otherwise reasonably present a hazard to the health and safety of persons, or with respect to what steps are appropriate to be taken to deal with the mould, or as to the cause of the presence of the mould, the City shall retain an independent qualified expert to investigate and report on the subject of the dispute. Subject to paragraph 9.5.2, the City shall pay for the cost of the expert's investigation and report. The City will provide a copy of the expert's report to the Contractor.

GC9.5.2 is deleted in its entirety and replaced with the following:

- 9.5.2 If the expert's report under paragraph 9.5.1.3 determines that the mould does not require special handling and precautions in compliance with Environmental Law or does not otherwise reasonably present a hazard to the health and safety of persons, the Contractor will pay for the cost of the expert's investigation and report. If the expert's report under paragraph 9.5.1.3 determines that the mould was caused as the result of

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the acts or omissions of the Contractor or anyone for whom the Contractor is responsible, the Contractor shall promptly, at the Contractor's expense:

- .1 take such steps as are necessary to safely and in compliance with Environmental Law remove, transport and dispose of such mould and to remediate the Place of the Work to such extent as is required to cause the Place of the Work to comply with all applicable Environmental Law;
- .2 make good any damage to the Work, the City's property and any property affected by the mould as provided in paragraph 9.1.3 of GC9.1 - PROTECTION OF WORK AND PROPERTY;
- .3 reimburse the City for all resultant costs and expenses reasonably incurred by the City; and
- .4 indemnify the City as required by GC12.1 - INDEMNIFICATION.

GC9.5.3 is deleted in its entirety and replaced with the following:

- 9.5.3 If the City and the Contractor agree, or if the expert's report under paragraph 9.5.1.3 concludes, that the presence of mould at the Place of the Work requires special handling or precautions under Environmental Law or otherwise presents a hazard to the health or safety of persons, and that the Contractor or anyone for whom the Contractor is responsible is not responsible for the presence of such mould, the City shall promptly at the City's expense:
- .1 take such steps as are necessary to safely and in compliance with Environmental Law remove, transport and dispose of such mould and to remediate the Place of the Work to such extent as is required to cause the Place of the Work to comply with all applicable Environmental Law;
  - .2 reimburse the Contractor for the cost of taking the steps under paragraph 9.5.1.2 and making good any damage to the Work as provided in paragraph 9.1.4 of GC9.1 - PROTECTION OF WORK AND PROPERTY; and
  - .3 extend the Contract Time for such reasonable time as the Consultant may recommend in consultation with the Contractor and the expert referred to in paragraph 9.5.1.3 and reimburse the Contractor for reasonable costs incurred as a result of the delay.

#### **GC10.1 TAXES AND DUTIES**

GC10.1.1 is deleted in its entirety and replaced as follows:

- 10.1.1 The Contractor shall allow for the payment by the Contractor out of the Contract Price of all PST, GST and other federal, provincial and municipal taxes, rates, levies, assessments and duties, both refundable and non-refundable, and all deposits, (temporary crossings, excavations, etc.). The Contractor agrees to indemnify and save harmless at all times the City from and against all claims which may be made with respect thereto.



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GC10.1.2 is amended by revising the first line to read:

...due to changes in such included taxes, duties and rebates after the time...

GC10.1.3 is added as follows:

10.1.3 Where an exemption or recovery of government sales taxes, customs duties or excise taxes is applicable to the Contract, the Contractor shall submit for the City's review the exemption or recovery application and the supporting invoices of the actual quantities of materials incorporated in the Work prior to applying for the rebate. The City will then issue a certificate verifying the application.

GC10.1.4 is added as follows:

10.1.4 Notwithstanding any other provision to the contrary, if the City determines that it is necessary to satisfy its obligations under any Applicable Law relating to taxes, the City may:

.1 withhold an amount from a payment made to the Contractor hereunder; and

.2 pay the withheld amount directly to the competent government authority,

in which case the amount so withheld and paid by the City to the relevant competent government authority shall be deemed to have been paid to the Contractor on the date on which the remainder of the payment to which it relates was paid to the Contractor, and the Contractor agrees and acknowledges that it shall have no claim against the City for such amount withheld and paid to the competent government authority.

**GC10.2 LAWS, NOTICES, PERMITS AND FEES**

GC10.2.2 is deleted in its entirety and replaced as follows:

10.2.2 The Contractor shall, except as set out below in this GC10.2.2 and unless otherwise specified in the Contract Documents, obtain and maintain all permits, licences, and certificates and pay all fees required for the performance of the Work, and obtain all necessary access and storage rights for areas outside of the Place of the Work (including without limitation and by way of example only, parking for its workers, the swing arc of any construction crane required for the Work, or storage space for materials) but this shall not include any development permit (if applicable) or building permit, which have been obtained by the Consultant, paid for by the City, and issued to the City; nor shall it include the obligation to obtain easements or other access rights over the actual Place of the Work.

GC10.2.3 deleted in its entirety and replaced as follows:

10.2.3 The Contractor shall be responsible for the procurement of permits, licences, inspections, and certificates, which are necessary for the performance of the Work and customarily obtained by contractors in the jurisdiction of the Place of the Work after the issuance of the building permit. The Contract Price includes the cost of all permits except building and development permits but including occupancy permits, licences, inspections and certificates and their procurement. The Contractor will arrange for all

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inspections and testing required by such permits. The Contractor shall provide to the Consultant copies of all permits and inspection reports from the various authorities as soon as they are received.

GC10.2.5 is amended by revising the first sentence to read:

10.2.5 The Contractor shall be responsible to provide reasonable verification that the Contract Documents are in compliance...

**GC10.4 WORKERS' COMPENSATION**

GC10.4 is deleted in its entirety.

**GC10.5 LIVING WAGE**

GC10.5 is added as follows:

**GC10.5 LIVING WAGE**

10.5.1 For the purposes of this GC10.5, the following terms shall have the following meanings:

- (a) **"Living Wage"** means the hourly wage established by the Living Wage Certifier from time to time during the Term, which includes: (i) direct wages; and (ii) the value of any non-mandatory benefits such as paid sick leave, employer-paid Medical Services Plan premiums and extended health benefits;
- (b) **"Living Wage Certifier"** means the Living Wage for Families Campaign, any successor entity, or, in the event the Living Wage for Families Campaign ceases to carry on operations, such other living wage certification entity designated by the City to the Contractor in writing;
- (c) **"Living Wage Employee"** means any and all employees of the Contractor and all Subcontractors of the Contractor that perform any part of the Work on a property owned by or leased to the City, including all streets, sidewalks and other public rights of way, for at least one consecutive hour, but excluding Students, volunteers and employees of Social Enterprises;
- (d) **"Social Enterprise"** means a business that: (i) is owned by a non-profit organization or community services co-operative; (ii) is directly involved in the production and/or selling of goods and services for the combined purpose of generating income and achieving social, cultural, and/or environmental aims; and (iii) has a defined social and/or environmental mandate.
- (e) **"Student"** means an individual who is enrolled in a school, college, university or other educational institution and is employed by the Contractor or a Subcontractor, as the case may be, to obtain practical workplace experience as a requirement of or credit for their education;

10.5.2 Notwithstanding any other provision of any Contract Document but subject to GC 10.5.3, the Contractor shall pay all Living Wage Employees not less than the Living Wage.

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- 10.5.3 Notwithstanding GC 10.5.2, the Contractor has up to 6 months from the date on which any increase in the Living Wage is published by the Living Wage Certifier to increase wages for all Living Wage Employees such that all Living Wage Employees continue to be paid not less than the Living Wage.
- 10.5.4 The Contractor shall ensure that the requirements of GC 10.5.2 apply to all Subcontractors.
- 10.5.5 A breach by the Contractor of its obligations pursuant to GC 10.5.2 and 10.5.4 shall be deemed to constitute a failure by the Contractor to comply with the requirements of the Contract to a substantial degree and shall entitle the City to terminate the Contract in accordance with GC 7.1.2.
- 10.5.6 The Contractor shall maintain up-to-date records and accounts which clearly document its satisfaction of the requirements of this GC 10.5 and shall make the same available to the City upon request. The City may request copies of all such records and accounts which shall be provided to the City by the Contractor (subject to reimbursement of the Contractor's reasonable copying costs and any other direct costs and expenses, if any) at any time prior to the expiry of 365 days after Total Completion of the Work or earlier termination of this Agreement. Any records and accounts provided by the Contractor in accordance with this Section 10.5.5 shall be treated by the City as confidential information.
- 10.5.7 The Contractor shall, at the direction of the City, post signs at Places of Work that are owned by or leased to the City, including all streets, sidewalks and other public rights of way, informing Living Wage Employees of the obligations of the Contractor and Subcontractor pursuant to this GC 10.5 and providing contact information to report any breaches thereof. The City shall supply the Contractor with all such signs and the Contractor shall return all such signs upon completion of the Work or otherwise at the request of the City.
- 10.5.8 The Contractor shall prepare and submit to the City in a format reasonably acceptable to the City before January 31 of each calendar year of the term or, for each partial calendar year of the term, within 30 days of the expiry of the term a living wage report setting out:
- (a) the number of Living Wage Employees of the Contractor and each Subcontractor who were paid a Living Wage pursuant to this Section 3.12 during the previous calendar year or portion thereof that would not have received a Living Wage for substantially similar work but for the obligations of the Contractor pursuant to this GC10.5; and
  - (b) the total incremental costs incurred by the Contractor, including any amounts paid to Subcontractors, in order to fulfill its obligations pursuant to this GC10.5 to pay a Living Wage to the Living Wage Employees described in GC10.5.8(a).

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**GC11.1 INSURANCE**

GC11.1 is deleted in its entirety and replaced as follows:

**GC11.1 GENERAL INSURANCE REQUIREMENTS**

- 11.1.1 The Contractor and Subcontractors shall be required to file with the City on or prior to the date of this Agreement (or at such later time as they become Subcontractors), "Certificates of Insurance" in the form required by the City, and where required by the City's Director of Risk Management, certified copies of all insurance policies and endorsements evidencing the placement and endorsement of insurance in accordance with this GC11.1 and GC11.2.
- 11.1.2 The Contractor and Subcontractors shall be required to file evidence of renewal of the insurance policies required under this GC11.1 and GC11.2 with the City at least fifteen (15) calendar days prior to their expiry.
- 11.1.3 In addition to the specific requirements set out below, all policies of insurance shall:
- .1 be endorsed so as to provide for thirty (30) calendar days' prior notice to the City of cancellation, lapse or material change;
  - .2 if they are for property insurance (as opposed to liability) insurance, contain a waiver of subrogation in favour of the City Insurance Group (as defined below) and all employees and agents of the City Insurance Group;
  - .3 specifically name the City of Vancouver, the Consultant and their officials, officers, employees, agents and consultants engaged on the Project as additional insureds (collectively referred to as the "City Insurance Group");
  - .4 be issued by a company or companies authorized to issue insurance policies in British Columbia; and
  - .5 be issued on a policy form acceptable to the City's Director of Risk Management.
- 11.1.4 Unless otherwise specified, insurance shall be continuously maintained from a date not later than the date hereof, through to the date on which both the Certificate of Completion has been issued for the Work and an occupancy permit, if required, has been issued for the Place of the Work.

**GC11.2 CONTRACT SECURITY**

GC11.2 is deleted in its entirety and replaced with the following:

**GC 11.2 SPECIFIC INSURANCE COVERAGE**

- 11.2.1 Without restricting the generality of GC12.1 - INDEMNIFICATION, and despite the limits of liability set out in GC12.1 - INDEMNIFICATION, the Contractor and Subcontractors, at their expense, shall retain the following types of insurance:
- (a) *Wrap-up Liability Insurance:*

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Wrap-up liability insurance protecting the City Insurance Group, the Contractor, and their respective subcontractors, agents and employees against damages arising from personal injury (including death) and claims for property damage which may arise out of the operations of the Contractor, its Subcontractors, or their respective agents or employees in connection with the Work.

The policy shall be placed prior to commencement of the Work and shall specifically cover liability arising out of the performance of this Contract and shall cover all liability assumed by the Contractor under any contract or agreement, including the indemnity provisions of this Contract. The policy shall be maintained continuously throughout the entire term of the contract through to the date on which both the Certificate of Completion has been issued for the Work and an occupancy permit, if required, has been issued for the Place of the Work, and thereafter, in the case of completed operations coverage for a further period of twenty-four (24) months, and the policy shall provide:

1. broad-form property damage and completed operations coverage;
2. personal injury coverage;
3. blanket contractual liability coverage;
5. contingent employer's liability coverage; and
6. non-owned automobile liability coverage,

and where such further risk exists, the following extensions of coverage shall be included:

1. coverage for shoring, blasting, excavating, underpinning, demolition, removal, pile-driving and grading, as applicable;
2. coverage for hoist liability;
3. coverage for operation of attached machinery; and
4. contractor's pollution liability coverage, including coverage for asbestos, mould or other hazardous substances.

This insurance shall be for an amount of not less than five million dollars (\$5,000,000) per occurrence and shall include a standard form of severability of interests and cross-liability clause. The deductible per occurrence shall not exceed ten thousand dollars (\$10,000) and the Contractor shall be liable for all deductible amounts.

**(b) *Property & Mechanical and Electrical Breakdown Insurance:***

- (1) All-risks course-of-construction property insurance in the joint names of the Contractor and the City Insurance Group, covering the Work and all property of every description to be used in the performance of the

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Work. This insurance shall be primary, and be of an amount of not less than the Contract Price. The deductible per occurrence shall not exceed ten thousand dollars (\$10,000); and

- (2) Mechanical and electrical breakdown insurance insuring the interests of the Contractor and the City Insurance Group for not less than the Contract Price.

The following conditions will apply to the property and mechanical and electrical breakdown insurance:

- (A) Where the City wishes to use or occupy part or all of the Work prior to Total Performance of the Work, it shall give written notice to the Contractor pursuant to GC13 - Occupancy and if requested the Contractor shall promptly notify the City in writing of the additional premium cost, if any, to maintain property and boiler insurance, which shall be at the City's expense.
- (B) If, because of such use or occupancy, the Contractor is not requested to or is requested to but is unable to provide coverage, the City upon written notice from the Contractor and prior to such use or occupancy shall provide, maintain and pay for property and mechanical and electrical breakdown insurance insuring the full value of the Work, as in subparagraphs (1) and (2), including coverage for such use or occupancy and shall provide the Contractor with proof of such insurance. The Contractor shall refund to the City the unearned premiums applicable to the Contractor's policies upon termination of coverage.
- (C) The policy shall provide that, in the event of loss or damage, payment shall be made to the City. Loss or damage shall not affect the rights and obligations of either party under the Contract.
- (D) The Contractor shall be entitled to receive from the City, in addition to the amount due under the Contract, the amount at which the City's interest in restoration of the Work has been appraised, such amount to be paid as the restoration of the Work proceeds and in accordance with the requirements of GC5.3 - APPLICATIONS FOR PAYMENT and GC5.4 - PROGRESS PAYMENTS. In addition the Contractor shall be entitled to receive from the payments made by the insurer the amount of the Contractor's interest in the restoration of the Work.
- (E) The Contractor shall be responsible for payment of all deductible amounts.
- (F) In the event of loss or damage to the Work arising from the work or act of the City or another Contractor, then the City shall pay the Contractor the cost of restoring the Work as the restoration of the Work proceeds and in accordance with the requirements of GC5.3 - APPLICATIONS FOR PAYMENT and GC5.4 - PROGRESS PAYMENTS.

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- (c) *All-Risk Contractor's Equipment Insurance* covering all equipment owned or rented by the Contractor and its agents or employees against all risks of loss or damage with coverage sufficient to allow for immediate replacement.
- (d) *Automobile Liability Insurance* to be carried at all times on all licensed vehicles owned by or leased to the Contractor, protecting against damages arising from bodily injury (including death), and from claims for property damage arising from the operations of the Contractor, its agents or employees. This insurance shall be for a minimum amount of five million dollars (\$5,000,000) inclusive per accident.

Where, in the City's opinion, pertinent risk exists, the Contractor is also required to carry the following coverage:

- (e) *Hull & Machinery Insurance* in the amount not less than the full value of the vessel, barge or equipment with a deductible of no more than ten thousand dollars (\$10,000) protecting the Contractor and its Subcontractors from all claims for loss or damage to any vessel, barge or equipment arising out of ownership or operation of the Contractor or its Subcontractors.
- (f) *Protection & Indemnity Insurance* including City's legal liability insurance to cover all claims for bodily injury including death, property damage or loss arising out of the activities conducted by the Contractor, any Subcontractor, or their respective employees or agents in an amount no less than five million dollars (\$5,000,000) per occurrence and a deductible of not more than ten thousand dollars (\$10,000).

11.2.2 If the Contractor or a Subcontractor fails to provide evidence of the required insurance under this GC11 as and when required by the Contract Documents, then the City shall have the right to obtain the insurance and then give evidence of the same to the Contractor and Consultant, and the cost of doing so will then be payable by the Contractor to the City or at the City's option may be deducted from the Contract Price by Change Directive.

### **GC11.3 CONTRACT SECURITY**

GC11.3 is added as follows:

#### **GC11.3 CONTRACT SECURITY**

11.3.1 The Contractor shall pay for and deliver to the City, on or prior to the date of this Agreement, a performance bond and a labour and material payment bond, which shall each be for fifty percent (50%) of the Contract Price and shall include provision for, without limitation:

1. payment of any Consultant's and legal expenses incurred by the City in determining the extent of the Work executed and Work still to be executed, and any additional Work required as a result of the interruption of the Work,
2. payment of additional expenses caused to the City for watchmen's services, light, heat, power, etc. incurred by the City during the period between the

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Contractor's default under the Contract and the commencement of a new contract,

3. extended guarantee periods, corrections after final payment, and warranty obligations, and
4. coverage of the faithful performance of all terms and conditions of the Contract Documents including all additions and revisions thereto permitted under the Contract.

11.3.2 Such bonds shall be issued by a duly licensed surety company authorized to transact the business of a surety in British Columbia and the bonds shall be maintained in good standing until the issuance of the Final Certificate for Payment and the expiry of the warranty. Subject to the requirements of this GC11.3, the bonds shall be in accordance with the latest edition of the CCDC approved bond forms.

11.3.3 The Contractor will give the City Notice in Writing of any material change in the surety within five (5) calendar days of the occurrence.

#### **GC12.1 INDEMNIFICATION**

GC12.1.1 is deleted in its entirety and replaced as follows:

12.1.1 The Contractor now indemnifies and shall defend, indemnify and hold harmless the City, the Consultant, the project manager and their respective directors, officers, employees, agents, consultants or advisors (collectively, the "Indemnitees") from and against all claims, demands, losses, costs, damages, actions, suits or proceedings ("Liability"), whether founded in equity or at law including contract, tort or statute and howsoever caused, arising from or in any way connected with (A) any wrongful or negligent act, error or omission of, or defective goods supplied by, the Contractor, Subcontractors, Suppliers or their respective employees or agents when attending the Place of the Work or in the performance of the Work, in each case whether or not any one or more of the Indemnitees are contributorily negligent, and (B) any claim made under the Lien Act by a Subcontractor, or a "subcontractor" as defined in the Lien Act. Expressly excluded from this indemnity is any Liability caused solely and directly by the wrongful act or negligence of an Indemnatee.

GC12.1.2 is deleted in its entirety and replaced as follows:

12.1.2 The obligation of the Contractor to indemnify the Indemnitees shall be limited to the greater of the Contract Price or five million dollars (\$5,000,000) but in no event shall the sum be greater than twenty million dollars (\$20,000,000). However, despite any other term of this Contract, in no event will this limitation apply in any way to reduce or limit the indemnity or recovery by either party under any insurance policy or bond required by the Contract Documents and in no event will this limit apply to the Contractor's or the City's obligations to indemnify under GC9.2 - TOXIC AND HAZARDOUS SUBSTANCES, GC9.4 CONSTRUCTION SAFETY & WORKSAFE BC RULES, GC9.5 -MOULD and GC10.3 - PATENT FEES.

GC12.1.3 is deleted in its entirety and replaced as follows:



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12.1.3 The obligation of the Contractor to indemnify the Indemnitees hereunder shall be inclusive of interest and all legal costs.

GC12.1.4 is deleted in its entirety and replaced as follows:

12.1.4 The City and the Contractor shall indemnify and hold harmless the other from and against all claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of their obligations described in GC9.2 - TOXIC AND HAZARDOUS SUBSTANCES, GC9.4 CONSTRUCTION SAFETY & WORKSAFE BC RULES, GC9.5 -MOULD and GC10.3 - PATENT FEES

GC12.1.5 is deleted in its entirety.

GC12.1.6 is deleted in its entirety and replaced as follows:

12.1.6 In respect of any claim for indemnity or to be held harmless by the City or the Contractor, Notice in Writing of such claim shall be given within a reasonable time after the facts upon which such claim is based became known;

GC12.1.7 is added as follows:

12.1.7 In the event of any Liability being alleged against or claimed from an Indemnatee in respect of which an indemnity is required to be provided by the Contractor pursuant to GC12.1.1, the following provisions shall apply:

- (a) subject to GC12.1.7(b), GC12.1.7(c) and GC12.1.7(d), where it appears that the Indemnatee is or may be entitled to indemnification from the Contractor in respect of all (but not part only) of the liability arising out of a claim, such person entitled to indemnification may at its sole election and subject to:
  - (i) approval by any relevant insurers (without prejudice to GC12.1.7(e); and
  - (ii) the Contractor providing the Indemnatee with a secured indemnity to its reasonable satisfaction against all costs and expenses (including legal expenses) that it may incur by reason of such action,permit or require the Contractor to dispute the claim on behalf of the Indemnatee at the Contractor's own expense and take conduct of any defence, dispute, compromise, or appeal of the claim and of any incidental negotiations; provided that the Indemnatee shall give the Contractor (provided at the Contractor's cost) all reasonable cooperation, access and assistance for the purposes of considering and resisting such claim;
- (b) with respect to any claim conducted by the Contractor pursuant to GC12.1.7(a)
  - (i) the Contractor shall keep the Indemnatee fully informed and consult with it about material elements of the conduct of the claim;
  - (ii) the Contractor shall not bring the name of the Indemnatee into disrepute; and

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- (iii) the Contractor shall not pay or settle such claims without the prior consent of the Indemnatee, such consent not to be unreasonably withheld or delayed;
- (c) a Indemnatee shall be free to pay or settle any claim on such terms as it thinks fit (and without prejudice to its rights and remedies under the Contract Documents) if:
  - (i) the Contractor is not entitled to, or is not permitted or instructed, take conduct of the claim in accordance with GC12.1.7(a); or
  - (ii) the Contractor fails to comply in any material respect with the provisions of GC12.1.7(e) or GC12.1.7(b);
- (d) the Indemnatee entitled to indemnification pursuant to GC12.1.1 shall be free at any time to give notice to the Contractor that it is retaining or taking over (as the case may be) the conduct of any defence, dispute, compromise or appeal of any claim (or of any incidental negotiations) to which GC12.1.7(a) applies. On receipt of such notice the Contractor shall promptly take all steps necessary to transfer the conduct of such claim to the Indemnatee, and shall provide to the Indemnatee all reasonable co-operation, access and assistance for the purposes of considering and resisting such claim; and
- (e) the Contractor shall inform the Indemnatee of the requirements of any insurer who may have an obligation to provide an indemnity in respect of any liability arising under this Agreement and in relation to such the Indemnatee shall issue instructions accordingly.

**GC12.2 WAIVER OF CLAIMS**

GC12.2.1 is deleted in its entirety and replaced as follows:

12.2.1. *Waiver of Claims by City:* As of the date of the Final Certificate for Payment, the City expressly waives and releases the Contractor from all claims against the Contractor including without limitation those that might arise from the negligence or breach of Contract by the Contractor except one or more of the following:

- .1 those made in writing prior to the date of the Final Certificate for Payment and still unsettled;
- .2 those arising from the provisions of GC12.1 - INDEMNIFICATION or GC12.3 - WARRANTY;
- .3 those arising from the provisions of GC9.2 - TOXIC AND HAZARDOUS SUBSTANCES, GC9.4 CONSTRUCTION SAFETY & WORKSAFE BC RULES, GC9.5 - MOULD and GC10.3 - PATENT FEES and those arising from the Contractor bringing or introducing any toxic or hazardous substances and materials to the Place of the Work after the Contractor commences the Work; and
- .4 those arising from the Contractor's actions, errors, omissions or negligence which result in delays or substantial defects or deficiencies in the Work.

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“Substantial defects or deficiencies” means those defects or deficiencies in the Work which affect the Work to such an extent or in such a manner that all or any part of the Work is unfit for the purpose intended by the Contract Documents.

GC12.2.2 is deleted in its entirety and replaced as follows:

12.2.2 *Waiver of Claims by Contractor:* As of the date of the Final Certificate for Payment, the Contractor expressly waives and releases the City from all claims against the City including without limitation those that might arise from the negligence or breach of Contract by the City except:

- .1 those made in writing prior to the Contractor’s application for Final Payment and still unsettled; and
- .2 those arising from the provisions of GC9.2 - TOXIC AND HAZARDOUS SUBSTANCES or GC10.3 - PATENT FEES.

GC12.2.3 is deleted in its entirety and replaced as follows:

12.2.3 GC12.2 - WAIVER OF CLAIMS shall take precedence over the provisions of paragraph 1.3.1 of GC1.3 - RIGHTS AND REMEDIES.

GC 12.2.4 is deleted in its entirety and replaced as follows:

12.2.4 The City waives and releases the Contractor from all claims referred to in paragraph 12.2.1.4 except claims for which Notice in Writing of claim has been received by the Contractor from the City within a period of six (6) years from the date of Substantial Performance of the Work.

GC12.2.5 is deleted in its entirety.

GC12.2.6 is deleted in its entirety.

GC12.2.7 is deleted in its entirety.

GC12.2.8 is deleted in its entirety.

GC12.2.9 is deleted in its entirety.

GC12.2.10 is deleted in its entirety.

**GC12.3 WARRANTY**

GC12.3.1 is deleted in its entirety and replaced as follows:

12.3.1 The Contractor shall perform the Work in a good and workmanlike manner.

GC12.3.2 is deleted in its entirety and replaced as follows:

12.3.2 The Contractor now warrants that the Work (and all Products) will be free from all defects arising from faulty construction, manufacturing, installation, materials,

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equipment or workmanship in any part of the Work (or Products) for a period of one (1) year commencing on the issuance of the Certificate of Completion for the Work, and with respect to any Work or Products warranted by a Subcontractor or Supplier for a period of longer than one (1) year after the issuance of the Certificate of Completion, the Contractor now warrants that it has fully and effectively assigned such warranty to the City and that the City may enforce the same to the same extent and in the same manner as if the warranty had been issued directly to the City by that Subcontractor or Supplier.

GC12.3.3 is deleted in its entirety and replaced as follows:

12.3.3 For the purposes of this GC12.3, the phrase, “defects arising from faulty construction, manufacturing, installation, materials, equipment or workmanship in any part of the Work (or Products)”

- (a) expressly excludes any and all defects arising from or contributed to by the acts or omissions of the Consultant in the design and specification of the Work as set out in the Drawings, Specifications, or other written instructions or directives issued by the Consultant under this Contract, but only to the extent of the Consultant’s defective design or specification, and
- (b) expressly includes all defects or deficiencies that arise even if the Work is carried out in a good and workmanlike manner.

GC12.3.4 is deleted in its entirety and replaced as follows:

12.3.4 During the warranty period, the Contractor will promptly repair and correct all defects at no cost to the City. If the Contractor fails to repair or correct any defect during the warranty period within ten (10) calendar days of written notice of its existence, the City may but is not obligated to make the repairs or corrections itself and the actual out-of-pocket costs of such repairs or corrections made by the City will be payable by the Contractor to the City within seven (7) calendar days of receiving an invoice from the City for same. In the event of an emergency where, in the opinion of the City, delay could cause serious loss or damage, or inconvenience to the public, the repairs or corrections may be made without prior notice being sent to the Contractor.

GC12.3.5 is deleted in its entirety and replaced as follows:

12.3.5 Where, pursuant to GC13.1 - Occupancy, the City commences the use of the Work and Products for their intended purposes prior to the issuance of the Certificate of Completion for the Work, the warranty period will be deemed to commence from the issuance date despite such prior use.

GC12.3.6 is deleted in its entirety and replaced as follows:

12.3.6 Issuance of the Certificate of Total Performance of the Work will not extinguish any of the Contractor’s obligations under this Contract and the Contractor will remain liable to perform and complete all Work and carry out all obligations required under this Contract

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**GC13.1 OCCUPANCY**

GC13.1 is added as follows:

**GC13.1 OCCUPANCY**

- 13.1.1 The City reserves the right to take possession of and use any completed or partially completed portion of the Work, regardless of the time of completion of the Work, providing it does not interfere with the Contractor's Work, as determined by the Consultant.
- 13.1.2 Such taking possession or use of such Work or part thereof as described in GC13.1.1 shall not be construed as final acceptance of the Work or any part thereof, or an acknowledgement of fulfillment of the Contract.

**END OF SUPPLEMENTARY GENERAL CONDITIONS**

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SCHEDULE 2 (PART D - FORM OF AGREEMENT)

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SCHEDULE 2  
LIST OF SPECIFICATIONS, DRAWINGS & SPECIAL EVENTS

The following is the list of Specifications and Drawings referred to in Article A-3:

[To be added.]

All are incorporated by reference in the form made available by the City during the ITT.

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SCHEDULE 3 (PART D - FORM OF AGREEMENT)

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SCHEDULE 3  
SCHEDULE OF PRICES

[When the Contract is finalized, this Schedule will be based on the breakdown of the tendered price in relation to the particular Work for which the Contract is awarded, as provided in the successful Tenderer's Form of Tender.]

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SCHEDULE 4 (PART D - FORM OF AGREEMENT)

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**SCHEDULE 4  
SUBCONTRACTORS AND SUPPLIERS**

The following are Subcontractors that the Contractor will use for the Work:

Subcontractor	Address	Division/Section Of Work
[To be completed, based on Tender]		

The following are Suppliers that the Contractor will use for the Work:

Supplier	Manufacturer	Address	Item
[To be completed, based on Tender]			



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SCHEDULE 5 (PART D - FORM OF AGREEMENT)

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SCHEDULE 5  
PROJECT SCHEDULE

[Insert the construction schedule provided in response to the Notice of Award, as accepted by the City.]

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SCHEDULE 6 (PART D - FORM OF AGREEMENT)

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SCHEDULE 6  
PERFORMANCE AND LABOUR AND MATERIAL PAYMENT BONDS

[Attach copies of performance bond and labour and material payment bond  
provided after contract award.]

(see attached)

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE 7 (PART D - FORM OF AGREEMENT)

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SCHEDULE 7  
INSURANCE CERTIFICATES

[Attach copies of insurance certificates for the project provided after Contract award.]

(see attached)

INVITATION TO TENDER NO. PS20201183  
CONTRACTOR FOR STANLEY PARK MINIATURE TRAIN BRIDGE REPLACEMENT  
SCHEDULE 8 (PART D - FORM OF AGREEMENT)

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SCHEDULE 8  
CITY PRE-CONTRACT HAZARD ASSESSMENT FORM

See attached.

## OWNERS LIST OF KNOWN WORKPLACE HAZARDS

Contract Title Contractor for Stanley Park Miniature Train - Bridge Replacement

Project Manager (City employee) Jean Tse

Contract Name and No. (if known) Agreement ITT PS20201183

### PURPOSE

This document shall be completed by the City's designated project manager, who shall list all the known worksite hazards and all the **existing** work process hazards associated with the upcoming contract. The completed document shall then be provided to all potential contractors, so the project can be bid appropriately based on the known worksite hazards.

### DEFINITIONS

**"Project Manager"** means the City employee designated to be the liaison with the contractor for the purpose of managing, overseeing, coordinating or in any other way administering the contract.

### INSTRUCTIONS FOR COMPLETION

The document must be completed in full. Choices for each entry are:

**Yes (Y)** the known worksite hazard or existing work process hazard does exist

**No (N)** the known worksite hazard or existing work process hazard does not exist\*, or, a third party (environmental consultant) will address the issue (usually for a hazardous materials assessment)

\* based on reasonable estimation from all input by persons with expertise or relevant knowledge and understanding

**Not Applicable (NA)** the worksite hazard or existing work process is not applicable for this contract type

### INFORMATION FROM HAZARDOUS MATERIALS ASSESSMENTS PROVIDED BY A THIRD PARTY

A hazardous materials assessment may be completed prior to the Project Manager completing the City's List of Known Workplace Hazards. Any such assessment should be referenced by the Project Manager in this document and provided to all bidders. Hazardous materials may include asbestos, lead, crystalline silica, ammonia, PCBs, CFCs, moulds, mercury, ozone depleting substances (ODSs), radioactive substances.

### ASSISTANCE IN COMPLETING THIS DOCUMENT

If you have questions while completing this document, or are unsure if the listed hazards apply, please seek assistance from Health and Safety (604.871.6078 or [healthandsafety@vancouver.ca](mailto:healthandsafety@vancouver.ca)).

Hazard or Issue	Project Manager		
	<i>Yes (Y), No (N) or Not Applicable (NA)</i>		
1. <b>Asbestos-containing Materials.</b> Disturbance or penetrations of flooring, walls, ceiling tiles, pipe lagging, ac pipe, transite siding, particularly in older facilities; e.g., furniture/fixture installation, carpeting/flooring services and boiler repair/tune-up services			
(a) Asbestos containing materials (ACM) will be encountered	Y	N	(NA)
(b) A hazardous materials assessment for asbestos is provided in bidding package	Y	N	(NA)
(c) A hazardous materials assessment for asbestos is the responsibility of the contractor	Y	N	(NA)
2. <b>Lead-containing Materials.</b> Disturbance of lead-based paint, particularly in older facilities. Also present in certain electrical circuitry and metal alloys; e.g., overhead bridge crane maintenance/repair, high-voltage cable splicing services, boiler repair/tune-up services, fixture installation services, and chiller maintenance/repair services			
(a) Inorganic lead-containing materials may be encountered	Y	N	(NA)
(b) A hazardous materials assessment for lead is provided in bidding package	Y	N	(NA)
(c) A hazardous materials assessment for lead is the responsibility of the contractor	Y	N	(NA)
3. <b>Other hazardous materials.</b> May include ammonia, pcb's, cfc's, moulds, mercury, ozone depleting substances (ods), radioactive substances, sewage, unknown contaminated materials, other (list other here)  _____ _____ _____			
(a) A hazardous materials assessment for ammonia is provided in bidding package	Y	N	(NA)
(b) a hazardous materials assessment for (list the specific hazardous material) will be provided in bidding package;	Y	N	(NA)
(c) a hazardous materials assessment for (list the specific hazardous materials) will be the contractors responsibility	Y	N	(NA)
4. <b>Confined Spaces.</b> Working in vaults, chambers, pits, tanks, etc.; e.g., construction, inspection and testing services, water/fuel storage tank clean-out services, and utility corrosion inspection services:			
(a) a hazard assessment (for entry and inspection only) from the City of Vancouver is provided in bidding package;	Y	N	(NA)
(b) the City of Vancouver shall provide procedures to isolate adjacent piping, or to lock out equipment (complicated systems only);	Y	N	(NA)
(c) the contractor shall be responsible for isolation and lockout procedures.	Y	N	(NA)


Hazard or Issue	Project Manager		
	Yes (Y), No (N) or Not Applicable (NA)		
5. <b>Lock Out.</b> Industrial equipment maintenance, power machinery repair services, pump maintenance/repair services, mechanical refrigeration systems, elevator repair, overhead bridge crane maintenance/repair services, cathodic protection services, hydraulic test systems repair/service, and air compressor rebuilding services:			
(a) lockout will be required to isolate or prevent the unexpected release of energy (electrical, mechanical, hydraulic, chemical, thermal, kinetic, gravitational, pneumatic);	Y	N	(NA)
(b) work will be performed on or near energized equipment, lines, or circuits	Y	N	(NA)
If yes to (a) or (b) describe: _____ _____ _____			
6. <b>Fall Protection.</b> Tree pruning, window and ledge cleaning, window replacement, overhead bridge crane maintenance/repair services, roll-up door replacement, tent installation, awning/canopy installation, overhead air exchange installation, construction inspection and testing services			
(a) Workers will be exposed to a potential fall in excess of 3 m (10 feet), or to a fall of less than 3 m which would likely result in a serious injury (ex. impalement on rebar)	Y	(N)	NA
(b) Scaffolding or ladders will be required to be secured to a building or structure	Y	(N)	NA
7. <b>Overhead and Underground Utilities.</b> Tree pruning services, tree removal, utility relocation or replacement, underground utility identification (digging with powered equipment), concrete sawing services, pole painting			
(a) There will be electrical hazards associated with overhead power lines such as limits of approach and contact	Y	N	(NA)
(b) Necessary assurances (in writing) have (or will be) obtained by the City, through the utility company, for any work where minimum limits of approach cannot be maintained (provide documentation and review at pre job meeting with the successful contractor candidate)	Y	N	(NA)
(c) Necessary assurances must be obtained (in writing) by the successful contractor, through the utility company, for any work where minimum limits of approach will not be able to be maintained	Y	N	(NA)
(d) Underground or hidden utilities are located on the job site and any excavation or drilling work in proximity to an underground utility service must be undertaken in conformity with the requirements of the owner of that utility service	Y	N	(NA)

Hazard or Issue	Project Manager		
	Yes (Y), No (N) or Not Applicable (NA)		
If yes to (c), and the specific physical locations where minimum limits of approach will not be able to be maintained are known, how will this information be provided to the contractor? <hr/> <hr/> <hr/>			
<b>8. Construction, Excavation, Shoring and Demolition</b>			
(a) As “prime contractor”, the City of Vancouver project manager will submit the Notice of Project	Y	N	(NA)
(b) Workers will be required to enter an excavation over 1.2m (4 ft) in depth	Y	N	(NA)
<b>9. Chemicals, Solvents, Fumes, Vapours, And/Or Dusts</b> (existing work processes or known worksite hazard only) - ice rinks, swimming pools, cleaning solvents, adhesives, paints, coatings, binders; e.g., storage tank clean-out services, countertop installation (epoxies), and flooring			
(a) The worksite has chemicals solvents, fumes, vapours or dusts that may affect the contractor	Y	N	(NA)
(b) Material Safety Data Sheets for chemicals currently in use at the worksite will be available, on request, to the contractor	Y	N	(NA)
If yes to (a), list the work processes and/or chemicals in use: <hr/> <hr/> <hr/>			
<b>10. Noise</b> (existing work processes only)			
Employees will be exposed to noise levels above 85dba	Y	N	(NA)

OTHER HAZARDS (NOT IDENTIFIED ABOVE)	
(a)	<u>Invasive (prickly) plants are potentially located within the project vicinity.</u> <hr/>
(b)	<u>Tripping hazards related to tree roots, and uneven ground.</u> <hr/>
(c)	<u>Exposure to hypodermic needles.</u> <hr/>

<b>KNOWN WORKPLACE HAZARDS LIST COMPLETED BY</b>
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Project Manager Name (print): Jean Tse	
Project Manager Signature: 	Date: April 7, 2021
Title: Project Engineer (Structural)	Phone: 604-836-5842

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SCHEDULE 9 (PART D - FORM OF AGREEMENT)

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SCHEDULE 9  
CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

CONTRACT TITLE \_\_\_\_\_

PROJECT MANAGER (CITY EMPLOYEE) \_\_\_\_\_

CONTRACTOR REPRESENTATIVE \_\_\_\_\_

CONTRACT NAME & # \_\_\_\_\_

**Purpose**

This document shall be completed by the contractor awarded the contract, who shall identify all the **known and potential work process hazards** associated with the contract. The contractor, who is responsible for all identified actions, shall provide a completed Contractors Pre-Work Hazard Identification (CHI) document to the Project Manager (City employee) for review and consultation before the contract work begins.

**Reference Material**

In order to complete this document, the contractor should reference a completed copy of the **List of Known Workplace Hazards**, initially provided with the tender package. The contractor is also responsible to reference any **Hazardous Materials Assessments**, provided by the City with the tender package, and possibly referenced in the List of Known Workplace Hazards document.

**Instructions for Completion**

The document must be completed in full. Choices for each entry are:

**Y** - Yes - this work process or worksite hazard will exist for this contract and are the responsibility of the contractor

**N** - No - Even though the work process or worksite hazard will exist, it will not be the responsibility of the contractor

**NA** - Not Applicable - the work process or worksite hazard is not applicable for this contract

**TBD** - a third party (environmental consultant) will address the issue (primarily for a hazardous materials assessment)

Each grouping of safety hazards or issues in this document (bold text, capitalized) may list some examples of work tasks where this hazard may be encountered. These examples are not conclusive; there may be other examples of work tasks that create this hazard or issue.

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**Documentation and Training Requirements**

During the contract term, the contractor may be requested by the City of Vancouver, and shall provide documented evidence for items identified with a **(D)** in this document.

The summary table at the end of the document provides all potentially required documentation, and if applicable, the WCB OHS Regulation reference.

For any identified hazard marked with a **(T)**, the contractor is responsible to train their employees.

**HAZARDOUS MATERIALS**

The contractor is responsible for providing additional information on hazardous materials which may be encountered as part of the work process, yet not identified in the List of Known Workplace Hazards.

HAZARD OR ISSUE	Contractor Confirmation
1. <b>ASBESTOS-CONTAINING MATERIALS</b> - disturbance or penetrations of flooring, walls, ceiling tiles, pipe lagging, ac pipe, transite siding, particularly in older facilities; e.g., furniture/fixture installation, carpeting/flooring services, and boiler repair/tune-up services.	Yes (Y) No (N) Not Applicable (NA) or To Be Determined (TBD)
a) We have reviewed the hazardous materials assessment for asbestos provided by the City of Vancouver (or third party) in the tender package	Y N NA TBD
b) We will provide a written hazardous materials assessment for asbestos	Y N NA TBD
c) We have a written Asbestos Program <b>(D)</b>	Y N NA
d) As Prime Contractor, we will submit a Notice of Project Asbestos(NOP-A) to WorksafeBC at least 24 hours in advance of the project startup	Y N NA

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<b>2. LEAD-CONTAINING MATERIALS</b> - disturbance of lead-based paint, particularly in older facilities. Also present in certain electrical circuitry and metal alloys; .e.g., overhead bridge crane maintenance/repair, high-voltage cable splicing services, boiler repair/tune-up services, fixture installation services, and chiller maintenance/repair services.	Yes (Y) No (N) or Not Applicable (NA)
a) We have reviewed the hazardous materials assessment for lead provided by the City of Vancouver (or third party) in the tender package	Y N NA TBD
b) We will provide a written hazardous materials assessment for lead	Y N NA TBD
c) We have a written exposure control program for Lead <b>(D)</b>	Y N NA

<b>3. OTHER HAZARDOUS MATERIALS</b> - may include PCBs, CFCs, molds, mercury, ozone depleting substances (ODS), radioactive substances, sewage and unidentified contaminated hazardous materials, other: (list other here) _____	Yes (Y) No (N) or Not Applicable (NA)
a) We have reviewed the hazardous materials assessment for (insert hazardous material type here) provided by the City of Vancouver, or a third party, in the tender package	Y N NA TBD
b) We have reviewed the hazardous materials assessment for (insert hazardous material type here) provided by the City of Vancouver, or a third party, in the tender package	Y N NA TBD
c) We will provide a hazardous materials assessment for (insert hazardous material type here)	Y N NA TBD
d) We will provide a hazardous materials assessment for (insert hazardous material type here)	Y N NA TBD

<b>4. CONFINED SPACES</b> - working in vaults, chambers, pits, tanks, etc.; e.g., construction, inspection and testing services, water/fuel storage tank clean-out services, and utility corrosion inspection services.	Yes (Y) No (N) or Not Applicable (NA)
a) We have reviewed the confined space hazard assessment provided by the City of Vancouver in the tender package	Y N NA TBD
b) We have a written confined space entry program <b>(D)</b>	Y N NA
c) Our employees have received confined space training <b>(T)</b>	Y N NA
d) We shall complete a confined space hazard assessment specific to the work to be performed <b>(D)</b>	Y N NA
e) We shall develop site specific written safe operating procedures (including evacuation and rescue components) prior to starting work <b>(D)</b>	Y N NA

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f) We shall identify and record isolation points <b>(D)</b>	Y N NA
g) We will develop alternate procedures (as per WCB OHS Regulation # 9.22) to be used to isolate adjacent piping containing harmful substances <b>(D)</b>	Y N NA
h) We will provide for the services of rescue persons	Y N NA

If yes to g), provide brief description:

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<b>5. LOCK OUT</b> - industrial equipment maintenance, power machinery repair services, pump maintenance/repair services, mechanical refrigeration systems, elevator repair, overhead bridge crane maintenance/repair services, cathodic protection services, hydraulic test systems repair/service, and air compressor rebuilding services.	Yes (Y) No (N) or Not Applicable (NA)
a) We will be required to lock out in order to isolate or prevent the unexpected release of energy (electrical, mechanical, hydraulic, chemical, thermal, kinetic, gravitational, pneumatic)	Y N NA
b) We will perform work on, or near, energized equipment, lines or circuits	Y N NA

Note: If yes to a) or b) above, no work may be performed until reviewed by City of Vancouver project manager or project manager designate.

If yes to a) or b) describe:

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<b>6A. FALL PROTECTION</b> - tree pruning, window and ledge cleaning, window replacement, overhead bridge crane maintenance/repair services, roll-up door replacement, tent installation, awning/canopy installation, overhead air exchange installation, construction inspection and testing services.	Yes (Y) No (N) or Not Applicable (NA)
a) Our employees will be exposed to a potential fall in excess of 3 m (10 feet), or to a fall of less than 3 m which would likely result in a serious injury (ex. impalement on rebar)	Y N NA
b) We will produce a written Fall Protection Plan for work that will occur more than 25 feet above grade, or, if written procedures (control zone) are to be used as the means of fall protection <b>(D)</b>	Y N NA
c) Our employees who will be required to use fall protection have received training <b>(T)</b>	Y N NA

If yes to a), describe:

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<b>6B. SCAFFOLDING AND LADDERS</b> - window replacement or cleaning, tree pruning, roll-up door replacement, tent installation, and awning/canopy installation.	Yes (Y) No (N) or Not Applicable (NA)
a) Our employees will use scaffolding or ladders for access to the work	Y N NA
b) The scaffolding or ladders will be exposed to wet and/or slippery conditions	Y N NA
c) We will ensure scaffolding or ladders are secured before accessing the worksite	Y N NA
d) Scaffolding will be erected and dismantled only by qualified workers	Y N NA

<b>7. OVERHEAD POWER LINES AND UNDERGROUND UTILITIES</b> - tree pruning services, tree removal, utility relocation or replacement, underground utility identification services, concrete sawing services, pole painting	Yes (Y) No (N) or Not Applicable (NA)
a) There are electrical hazards associated with overhead power lines such as limits of approach and contact	Y N NA
b) We will obtain necessary assurances, in writing, through the utility company, for any work where minimum limits of approach cannot be maintained	Y N NA
c) Underground or hidden utilities may be on the job site and we shall contact the Project Manager and BC OneCall at least four business days prior to the start of any excavation work	Y N NA
d) In the event of an inadvertent utility strike, we will have a written procedure for immediate notification of both the utility company and WorkSafeBC <b>(D)</b>	Y N NA

<b>8. CONSTRUCTION, EXCAVATION, SHORING AND DEMOLITION</b>	Yes (Y) No (N) or Not Applicable (NA)
a) As Prime Contractor, we will submit a Notice of Project (NOP) to WorksafeBC at least 24 hours in advance of the project startup date	Y N NA
b) Workers may be required to enter an excavation over 1.2m (4 ft) in depth	Y N NA
c) We will develop site specific written safe operating procedures, including evacuation and rescue components, prior to starting any excavation work <b>(D)</b>	Y N NA
d) Shoring will be installed in accordance with Part 20 of the WorkSafeBC OH&S Regulation	Y N NA
e) We will provide safe means of entry and exit for excavations	Y N NA
f) We will provide for the services of rescue persons and equipment (excavation rescue)	Y N NA

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g) We will develop a demolition/salvage plan <b>(D)</b>	Y N NA
h) We will evaluate the demolition materials for reuse or recycling	Y N NA
i) We will protect passers-by from potential hazards	Y N NA

<b>9. CHEMICALS, SOLVENTS, FUMES, VAPORS, AND DUSTS</b> - cleaning solvents, adhesives, paints, coatings, binders; e.g., storage tank clean-out services, countertop installation (epoxies), and flooring	Yes (Y) No (N) or Not Applicable (NA)
a) We will complete a hazard assessment for chemicals we will use in our work, and if chemicals already exist at the workplace, our assessment will identify possible results of any reactions between our chemicals and those of the City's operations	Y N NA

<b>10. NOISE AND VIBRATION</b> - includes installations and heavy equipment operation. Noise examples for 85 - 90 dbA (at noise source) include forklift, smoke alarm, table saw. Whole body vibration examples include truck or equipment operator and jackhammer operation	Yes (Y) No (N) or Not Applicable (NA)
a) Our employees will be exposed to noise levels above 85dbA	Y N NA
b) We have a written hearing conservation program <b>(D)</b>	Y N NA
c) Our employees will be exposed to excessive levels of whole body vibration (WBV)	Y N NA

<b>11. OCCUPATIONAL HEALTH AND SAFETY PROGRAM</b>	Yes (Y) No (N) or Not Applicable (NA)
a) We have a written Safety Program <b>(D)</b>	Y N NA
b) We will make regular inspections of all workplaces	Y N NA
c) We will immediately investigate any reported unsafe conditions and correct as required	Y N NA
d) We will investigate all incidents and provide written incident reports to the Project Manager	Y N NA
e) We will develop a written plan <b>(D)</b> identifying how risk to the public and workers will be minimized (may include the use of barriers and safe entry/exit points from the worksite)	Y N NA

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12. FIRST AID	Yes (Y) No (N) or Not Applicable (NA)
a) First aid equipment, supplies, facilities and services will be readily accessible during working hours	Y N NA
b) We will complete a first aid assessment <b>(D)</b>	Y N NA
c) We will post site drawings and signs indicating the location of, and how to summon, first aid	Y N NA
d) We will develop an effective means of communication between the first aid attendant and the work areas	Y N NA

13. FIRE PROTECTION - solvents, fuels, soldering, torch cutting, or heating devices; e.g., gasoline and diesel fuel delivery services, flooring services, fire suppression service, and water pipe repair services	Yes (Y) No (N) or Not Applicable (NA)
a) We will weld, solder, or cut with a torch	Y N NA
b) We will use or store flammable/combustible liquids	Y N NA
c) We will use temporary heating devices	Y N NA
d) We will provide water and/or fire extinguishers on the job site	Y N NA

14. PERSONAL PROTECTIVE EQUIPMENT (PPE)	Yes (Y) No (N) or Not Applicable (NA)
a) We will ensure our workers have appropriate personal protective clothing and equipment (e.g., safety footwear, hi-vis vests, hardhats, eye protection, face protection, hearing protection, chemical gloves/clothing)	Y N NA
b) We have a written PPE program <b>(D)</b>	Y N NA



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15. RESPIRATORY PROTECTION	Yes (Y) No (N) or Not Applicable (NA)
a) The work will involve materials or processes requiring respiratory protection	Y N NA
b) We have a written respiratory protection program <b>(D)</b>	Y N NA

16. TOOLS MACHINERY AND EQUIPMENT	Yes (Y) No (N) or Not Applicable (NA)
a) We will use powder-actuated tools.	Y N NA
b) Our employees who operate equipment have been trained and are qualified in use of that equipment. <b>(T)</b>	Y N NA

If yes to a), describe:

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17. CRANES, FORKLIFTS, AND MANLIFTS - heavy or oversized goods delivery, tree pruning, overhead bridge crane maintenance/repair, and roll-up door replacement.	Yes (Y) No (N) or Not Applicable (NA)
a) We will use a crane, forklift, manlift or other lifting equipment	Y N NA
b) Our lifting and rigging equipment is certified where applicable, and inspected on a regular basis	Y N NA
c) Our operators shall have a valid operators certificate (mobile crane or tower crane) or have received training (boom lift, scissor lift or forklift) <b>(T)</b>	Y N NA
d) Only lifting attachments approved for use by the forklift manufacturer will be used	Y N NA

18. RIGGING	Yes (Y) No (N) or Not Applicable (NA)
a) We will lift or sling loads overhead	Y N NA
b) We will inspect ropes, hooks and slings before use on each shift	Y N NA

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<b>19. MOTOR VEHICLES AND HEAVY EQUIPMENT</b> - goods delivery, personnel transportation services, trailer relocation services, oil/water pumpout and recycling services, asphalt grinding and asphalt sealing services, weed/brush abatement and mowing services, landscape hydroseed services, tree stump grinding, and concrete sawing and removal	<b>Yes (Y) No (N) or Not Applicable (NA)</b>
a) We will use motor vehicles or heavy equipment at the work location	Y N NA
b) All operators have a valid provincial driver's license	Y N NA
c) We will inspect vehicles, including safety features (e.g., ROPS)	Y N NA

<b>20. TRAFFIC CONTROL</b>	<b>Yes (Y) No (N) or Not Applicable (NA)</b>
a) There will be uncontrolled movement of vehicular traffic at the worksite	Y N NA
b) We will develop a written traffic control plan <b>(D)</b>	Y N NA
c) We will put in place any required traffic control devices	Y N NA
d) The traffic control devices conform to the Ministry of Transportation and Infrastructure (MoTI) " <i>Traffic Control Manual for Work on Roadways</i> "	Y N NA
e) We will provide Traffic Control Persons (TCP's) as required by law	Y N NA

<b>21. CRYSTALLINE SILICA DUST</b>	<b>Yes (Y) No (N) or Not Applicable (NA)</b>
a) Our work will involve jackhammering, rotohammering, drilling, grinding or other disturbance of concrete or stone, creating potential exposure to silica dust	Y N NA

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<b>22. Additional Concerns</b>	<b>Yes (Y) No (N) or Not Applicable (NA)</b>
We foresee additional health and safety concerns associated with the work	<b>Y N NA</b>

If yes, describe:

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_
- e) \_\_\_\_\_
- f) \_\_\_\_\_

Describe the control measures each of the concerns listed above:

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_
- d) \_\_\_\_\_
- e) \_\_\_\_\_
- f) \_\_\_\_\_

<b>PRE CONTRACT HAZARD ASSESSMENT COMPLETED BY</b>	
<b>Contractor's Representative Name (print):</b>	
<b>Contractor's Representative Signature:</b>	<b>Date:</b>
<b>Title:</b>	<b>Phone:</b>

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<b>CONTRACTOR'S DESIGNATE RESPONSIBLE FOR ONSITE SAFETY</b>	
Name (print):	
Title:	Phone:

SUMMARY OF DOCUMENTATION <b>(D)</b> TO BE PROVIDED BY THE CONTRACTOR upon request by the City of Vancouver (documentation required as per Workers Compensation Board Occupational Health and Safety (WCB OHS) Regulation, the Workers' Compensation Act (WCA) or the City of Vancouver)	Yes (Y) or Not Applicable (NA)
a) Safety Program (WCB OHS Regulation Parts 3.1-3.3)	
b) Asbestos Exposure Control Plan (WCB OHS Regulation Part 6.3)	
c) Lead (Pb) Exposure Control Plan (WCB OHS Regulation Part 6.60)	
d) Respiratory Protection Program (WCB OHS Regulation Part 8.5)	
e) Confined Space Entry Program (WCB OHS Regulation Parts 9.5 and 9.6)	
f) Plan for minimizing risk to public and to workers (City of Vancouver)	
g) Personal Protective Equipment (PPE) Program (WCB OHS Regulation Part 8.5)	
h) Hearing Conservation Program (WCB OHS Regulation Part 7.5)	
i) Confined Space Hazard Assessment (WCB OHS Regulation Part 9.9)	
j) Work Procedure, including evacuation and rescue, for confined space (WCB OHS Regulation Part 9.10 and 9.11)	
k) Identification of Isolation Points (confined space) (WCB OHS Regulation Part 9.19)	
l) Alternate procedures to isolate adjacent piping (confined space) (WCB OHS Regulation Part 9.22)	
m) Fall Protection Plan (WCB OHS Regulation Part 11.3)	
n) Traffic Control Plan (Ministry of Transportation and Infrastructure (MOTI) manual, as referenced in WCB OHS Regulation Part 18.3)	
o) In the event of a utility strike, a written procedure for notification of Utility Provider (WCB OHS Regulation Part 4.18) and WorksafeBC (Workers' Compensation Act Part 3, Division 10, Sec. 172 (1)(c))	
p) Work Procedure (including evacuation and rescue) for excavations (City of Vancouver)	

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q) Demolition/Salvage Plan (City of Vancouver in reference to WCB OHS Regulation Part 20.112)	
r) First Aid Assessment (WCB OHS Regulation Part 3.16 (2))	

<b>SUMMARY OF TRAINING REQUIREMENTS (T) OF CONTRACTOR EMPLOYEES (for any persons completing this type of work throughout the duration of the contract)</b>	<b>Yes (Y) or Not Applicable (NA)</b>
a) Confined Space Entry (WCB OHS Regulation Part 9.8)	
b) Fall Protection (WCB OHS Regulation Part 11.2 (6))	
c) Equipment Operation (WCB OHS Regulation Part 4.3 (1) (b)(i) (ii))	
d) Mobile Equipment (ex. boom lift, scissor lift, forklift) (WCB OHS Regulation Part 16.4)	

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SCHEDULE 10 (PART D - FORM OF AGREEMENT)

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SCHEDULE 10  
FORCE ACCOUNT LABOUR AND CONSTRUCTION EQUIPMENT RATES

[When Contract is finalized, insert table of labour and equipment rates provided with successful Tenderer's Form of Tender]